Exhibit E

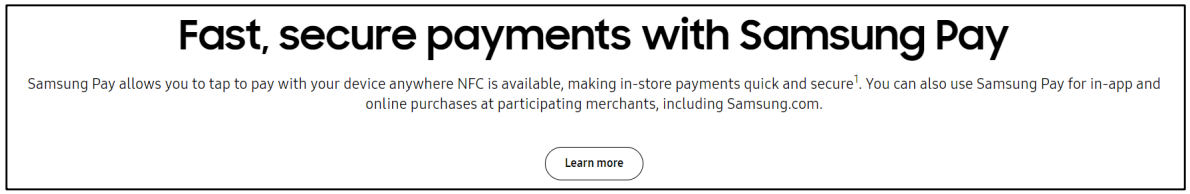
Claim Chart for U.S. Patent No. 11,770,756

The Accused Products include all Samsung-branded smartphones that support Samsung Pay/Samsung Wallet ("Samsung Pay") and/or Google Pay/Google Wallet ("Google Pay") and associated methods of using Samsung Pay and/or Google Pay. Based on the information presently available, Telcom is informed and believes that Samsung directly and indirectly infringes U.S. Patent No. 11,770,756 (the "'756 Patent") as set forth herein. Samsung directly infringes claims 1-18 of the '756 Patent when it makes, uses, sells, offers for sale, and/or imports the Accused Products. Samsung indirectly infringes claims 1-18 of the '756 Patent by actively inducing direct infringement by its customers and end-users of the Accused Products.

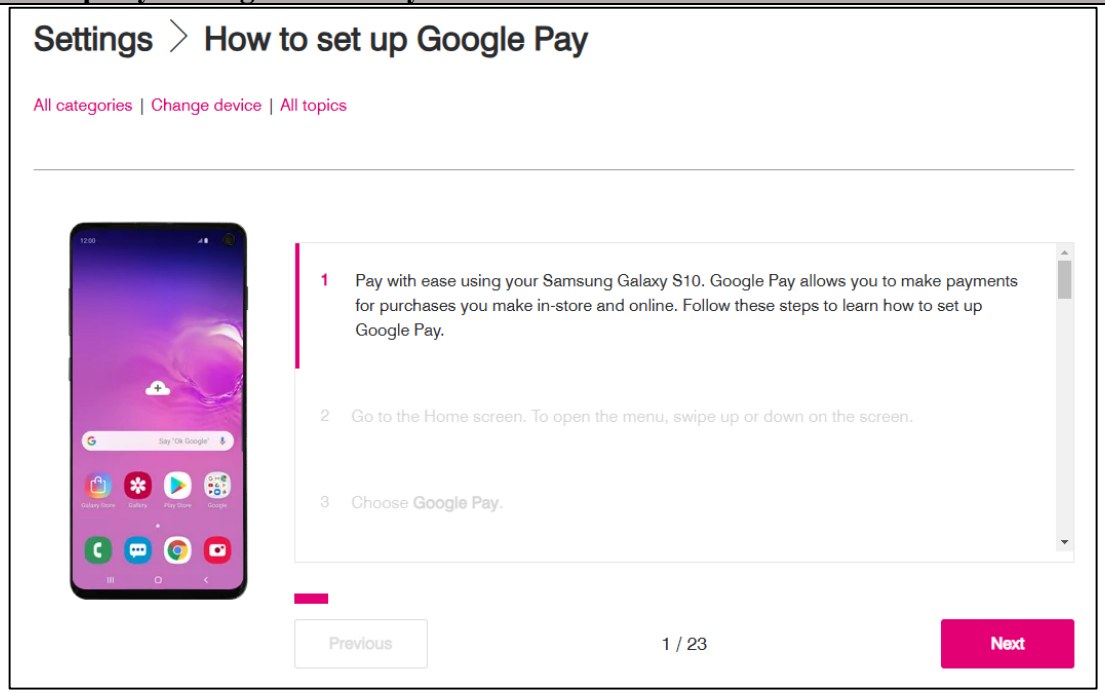
When Samsung or its customers or end-users make, use, sell, offer for sale, or import the Accused Products capable of carrying out Samsung Pay and/or Google Pay functionality, the asserted apparatus claims are infringed. When Samsung or its customers or end-users use the Samsung Pay and/or Google Pay functionality in the Accused Products, the asserted method claims are infringed. Samsung and its customers and end-users commit acts of direct infringement when, for example, Samsung and its customers and end-users make, use (including testing), sell, offer for sale, or import the Accused Products. Samsung commits acts of indirect infringement when, for example, Samsung contributes to or induces its customers and end-users to infringe by, for example, making instructions available on Samsung's and others' websites, or otherwise providing documentation directly or indirectly to customers and end-users that instructs, describes, educates, encourages, and/or explains how to operate the Accused Products in an infringing manner, as shown, for example, by the exemplary documentation cited in this chart. By way of example, Samsung's and its customers' documentation instruct, describe, educate, encourage, and/or explain the use of the Accused Products in an infringing manner, including through the Samsung Pay and Google Pay functionality as claimed herein. The Accused Products include at least one component that constitutes a material part of the invention, knowing the same to be especially made or especially adapted for use in an infringement of the patent, and not a staple article or commodity of commerce suitable for substantial noninfringing use. Samsung is therefore liable for all acts of direct infringement and indirect infringement of the patent.

Claim	Exemplary Infringement Analysis[1]
[1.p.] A method of operating a device, the method comprising:	The Accused Products are capable of performing "a method of operating a device."

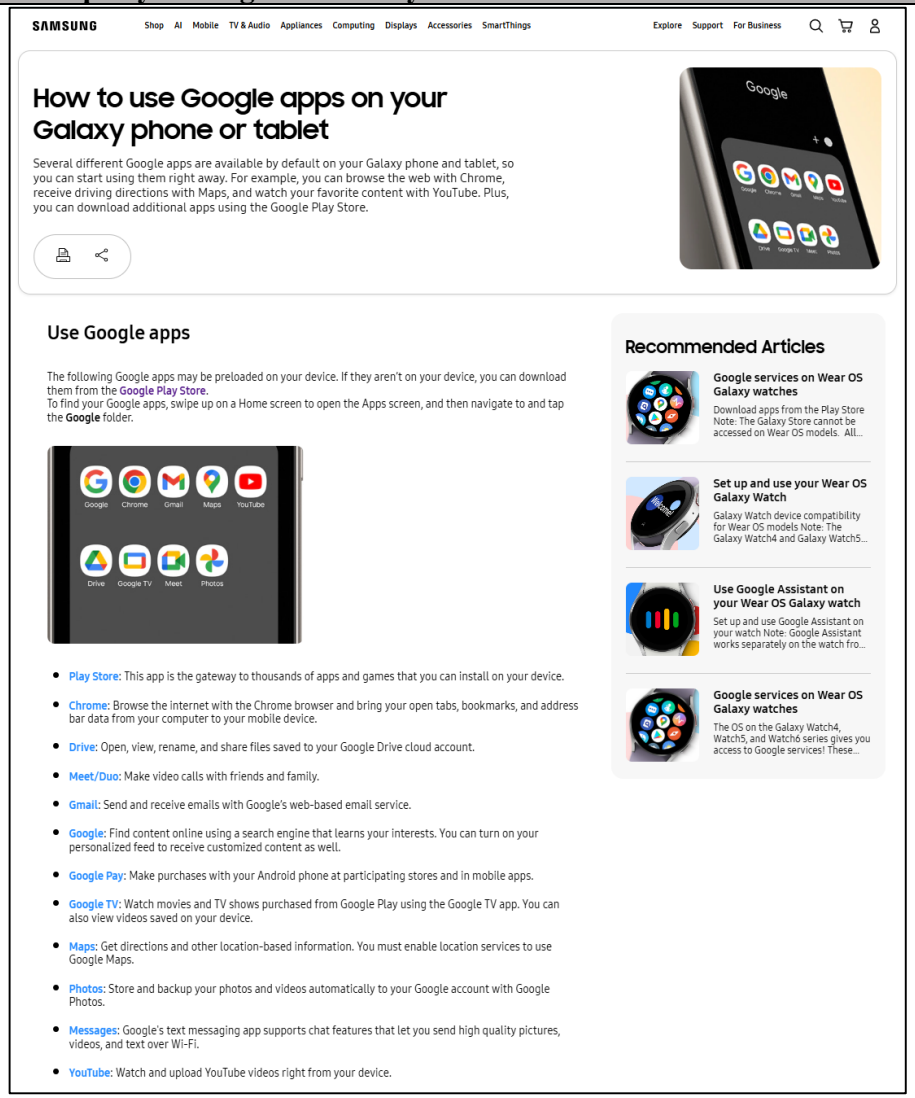
[1] These infringement contentions are prepared with publicly available information. Telcom's investigation is ongoing, and discovery has not yet begun. Telcom hereby incorporates by reference the cover pleading to which this claim chart is attached. Telcom reserves the right to seek leave of the Court to amend or

Claim	Exemplary Infringement Analysis[1]
	For example, operating a Samsung-branded smartphone to conduct a transaction via Samsung Pay and/or Google Pay satisfies claim 1.  https://www.samsung.com/us/apps/samsung-wallet/

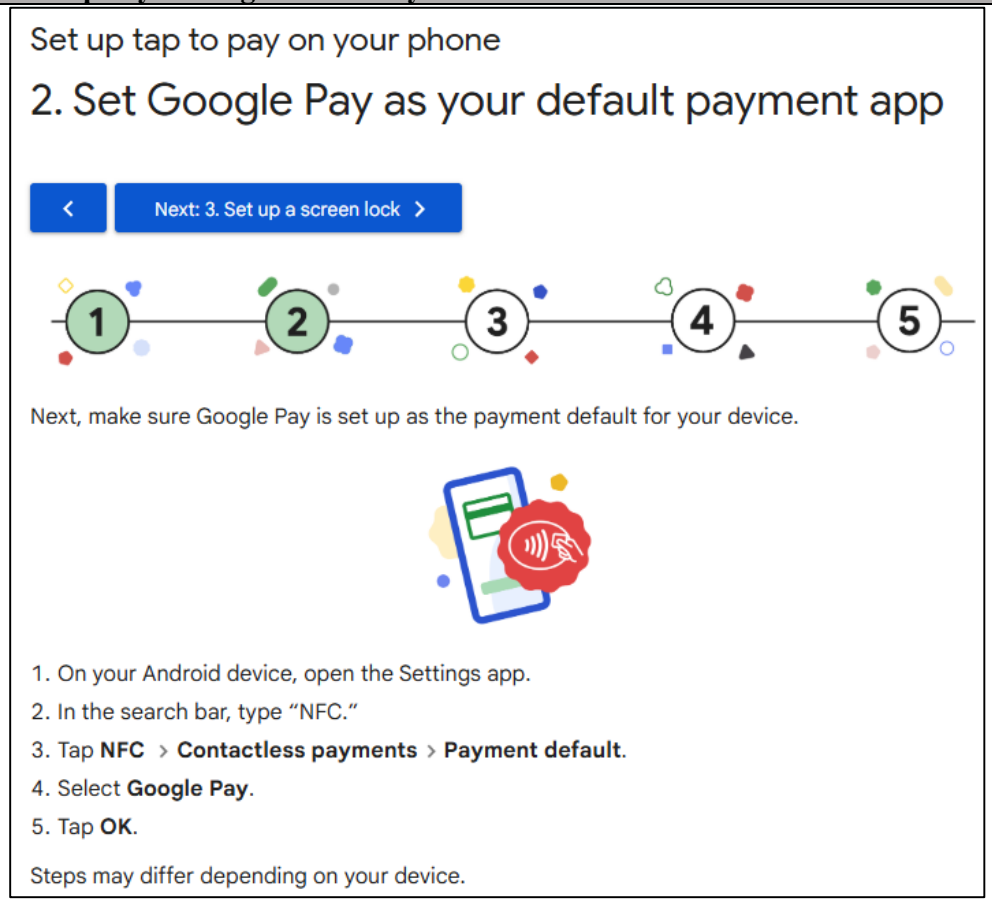
supplement these contentions after further investigation and discovery from Samsung and non-parties. Such supplemental information may include, but is not limited to, design specifications, deposition testimony, testing information, reference designs, implementation and utilization information, source code, and/or schematics. Telcom also reserves the right to accuse different products or find alternative literal and/or equivalent infringing elements in Samsung's products based on further investigation and discovery or other circumstances. Any elements found not to be literally infringed are infringed under the doctrine of equivalents because the differences between the claimed inventions and the Accused Products, if any, are insubstantial. In addition, Samsung has not yet advised Telcom of any non-infringement arguments as to any claim or claim element. If and when Samsung does so, Telcom reserves the right to seek leave of the Court to address such arguments, including by providing any appropriate additional discussion pertaining to the application of the doctrine of equivalents with respect to Samsung's argument concerning non-infringement.

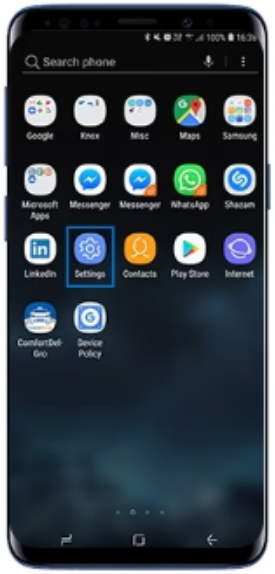
Claim	Exemplary Infringement Analysis[1]
	 https://www.t-mobile.com/support/tutorials/device/samsung/galaxy-s10/topic/settings/how-to-set-up-google-pay

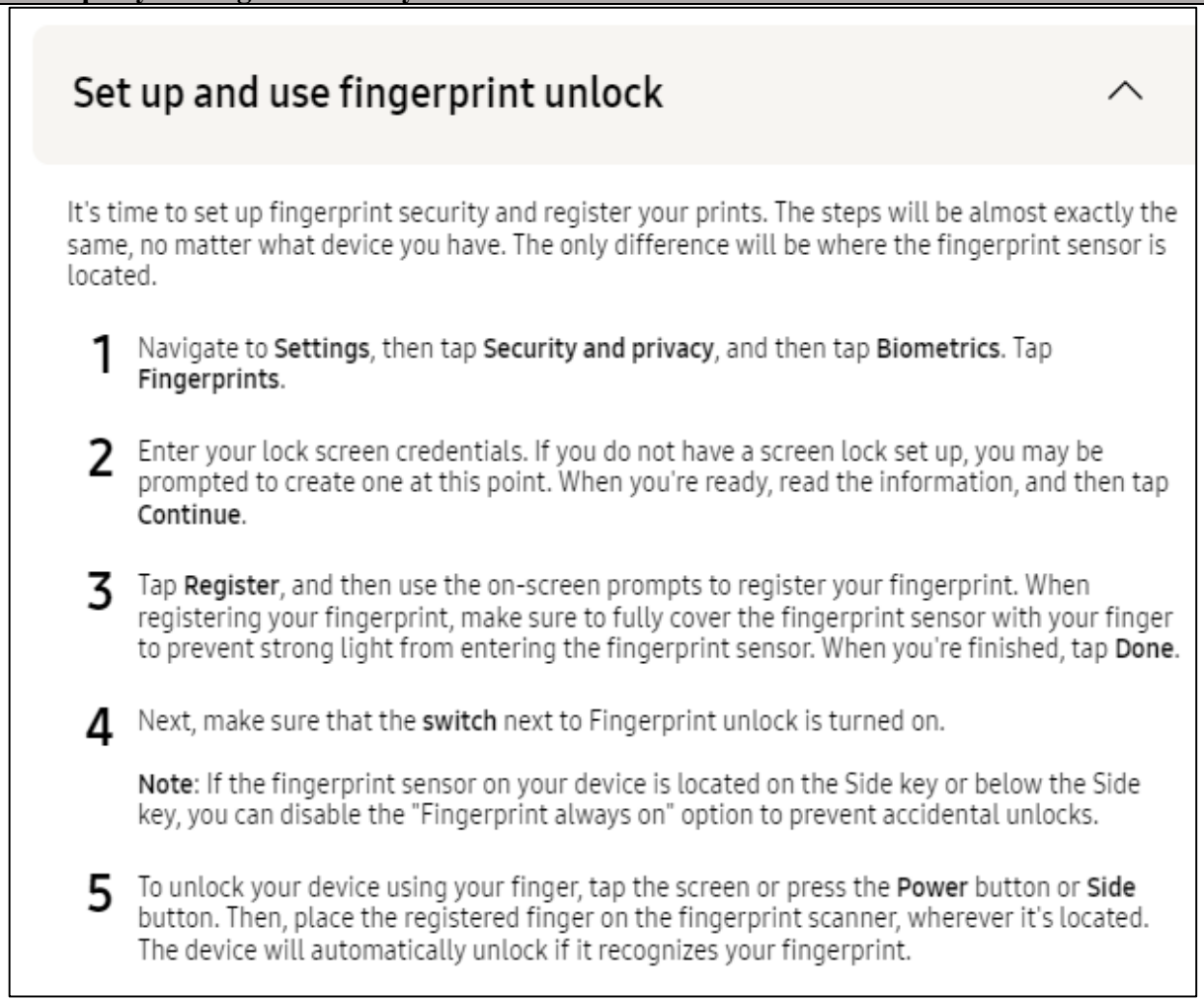
Claim	Exemplary Infringement Analysis[1]



https://www.samsung.com/us/support/answer/ANS10002548/

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/14187052?sjid=3604572701579461674-NA Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[1.a.] sensing by the device, using a	The Accused Products use a method that involves "sensing by the device, using a device-based sensor, a parameter that is associated with the device, an environment of the device and/or a user of the device."

Claim	Exemplary Infringement Analysis[1]
device-based sensor, a parameter that is associated with the device, an environment of the device and/or a user of the device;	On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, using a Samsung smartphone to conduct financial transactions via Samsung Pay and/or Google Pay includes sensing by the device, using a device-based sensor such as face scanner, a fingerprint scanner, or iris scanner, a parameter that is associated with the device, an environment of the device and/or a user of the device. Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

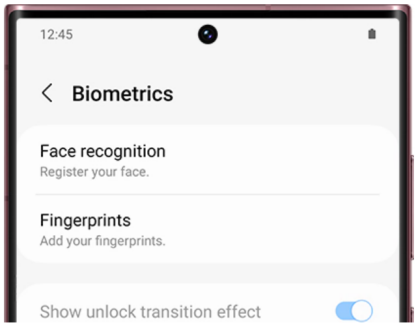
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

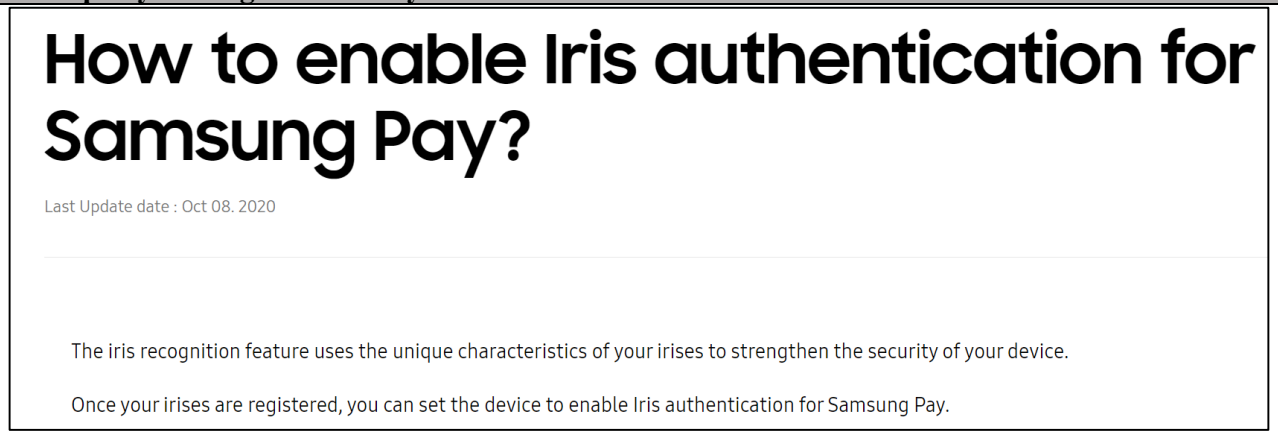
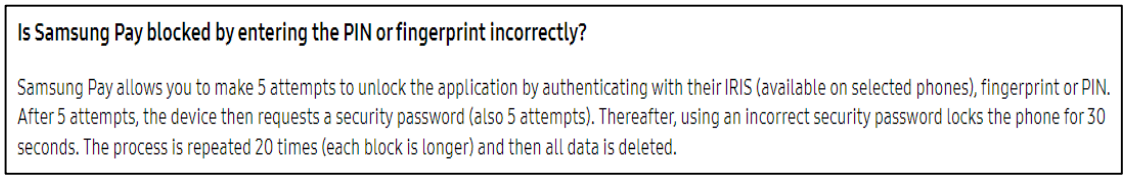
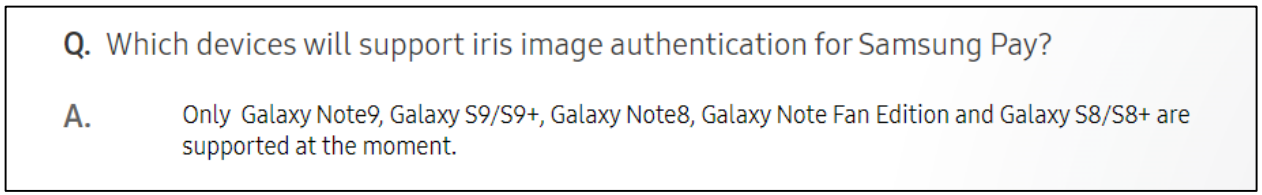
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.

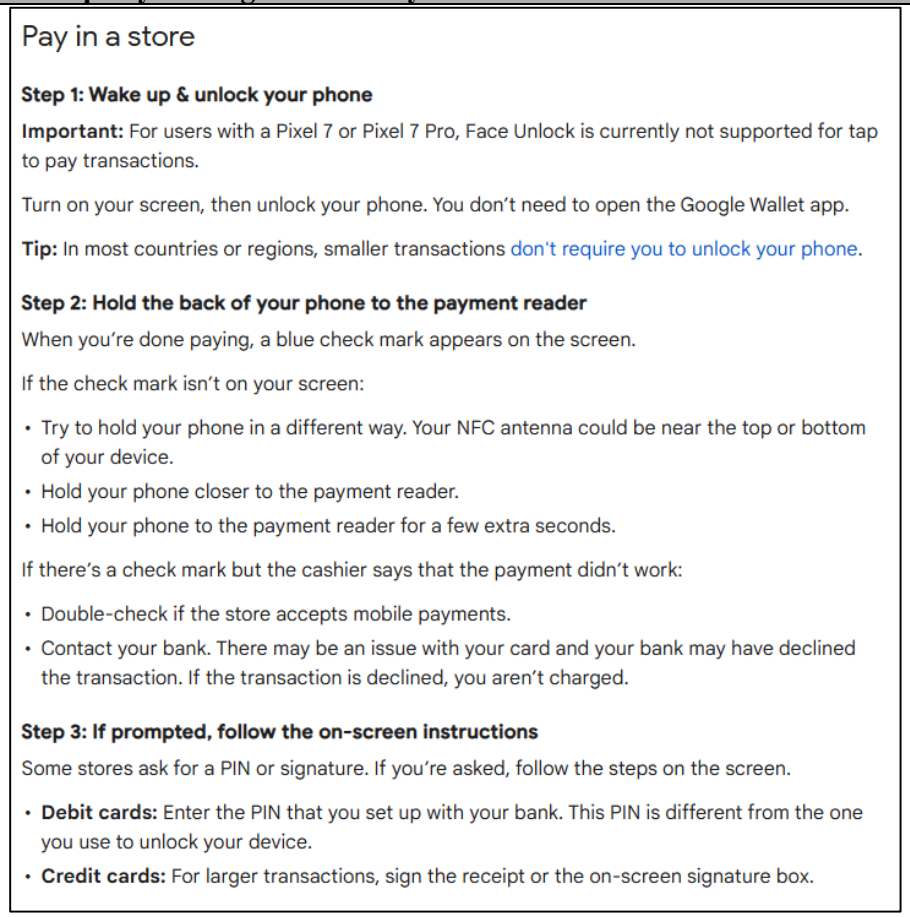


https://www.samsung.com/us/support/answer/ANS00062630/

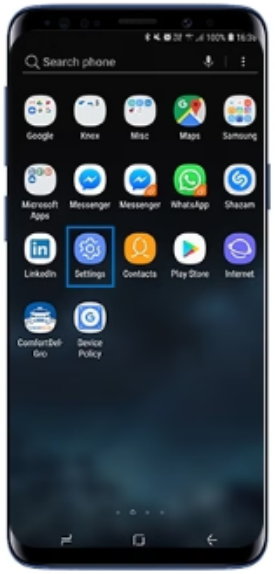
Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/  https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

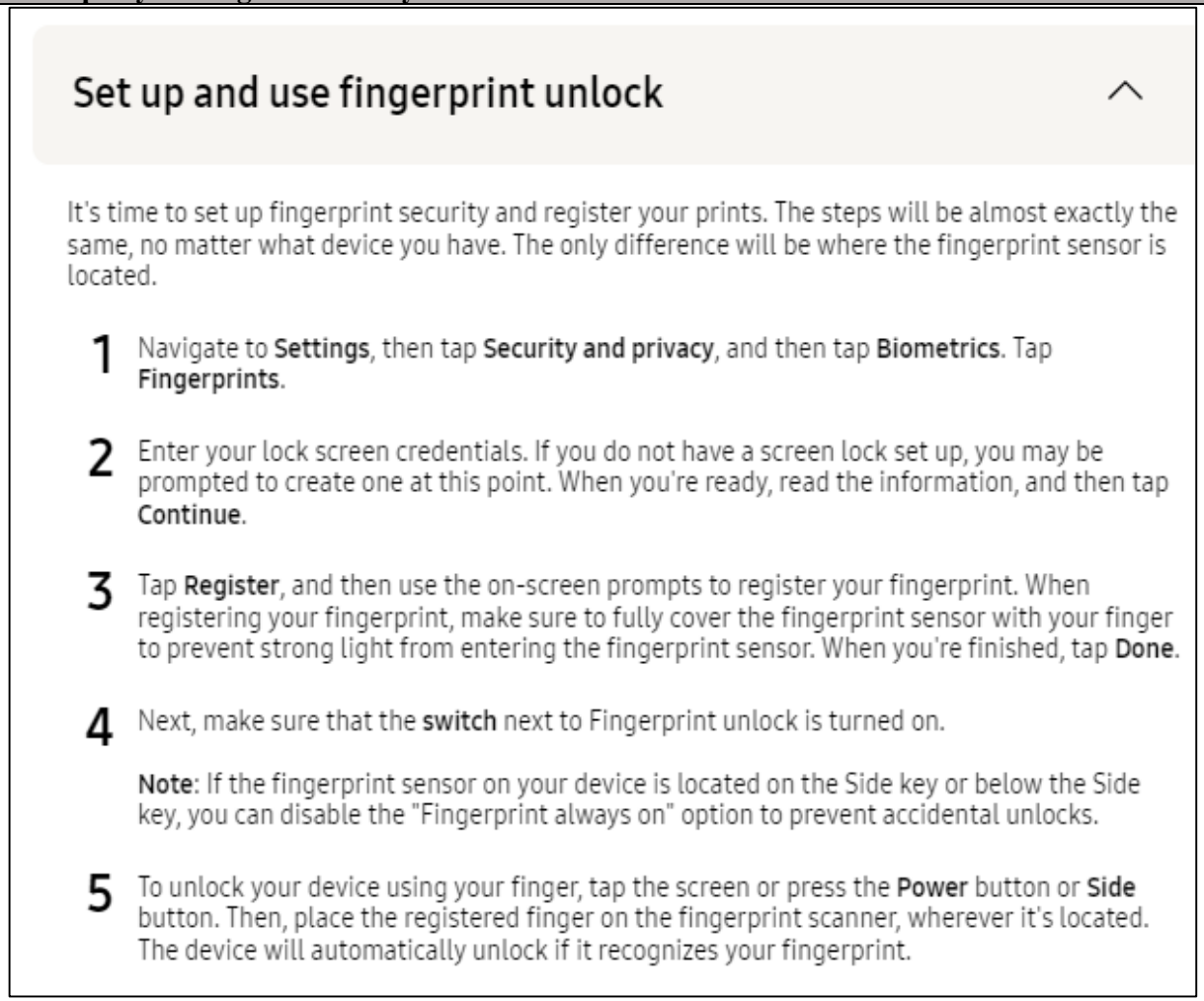
Claim	Exemplary Infringement Analysis[1]
	Where you can use Google Wallet **Important:** To make contactless payments, Near Field Communication (NFC) must be on. To turn on NFC, check your phone settings app. To use tap to pay on Pixel Fold or another foldable device, fold your device. You can pay with Google Wallet wherever you find the contactless or Google Pay symbols. They're located on the payment terminal screen or cash register at checkout. You can buy items with your phone or pay for transit on trains and buses on contactless terminals with either of these logos:  *Google Pay symbol* *Contactless symbol* https://support.google.com/wallet/answer/12060043?hl=en

Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]
	 Pay in a store **Step 1: Wake up & unlock your phone** **Important:** For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions. Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app. **Tip:** In most countries or regions, smaller transactions don't require you to unlock your phone. **Step 2: Hold the back of your phone to the payment reader** When you're done paying, a blue check mark appears on the screen. If the check mark isn't on your screen: • Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device. • Hold your phone closer to the payment reader. • Hold your phone to the payment reader for a few extra seconds. If there's a check mark but the cashier says that the payment didn't work: • Double-check if the store accepts mobile payments. • Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged. **Step 3: If prompted, follow the on-screen instructions** Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen. • **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device. • **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box. https://support.google.com/wallet/answer/12060043?hl=en# Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[1.b.] determining by the device a value of	The Accused Products use a method that involves "determining by the device a value of the parameter that is sensed."

Claim	Exemplary Infringement Analysis[1]
the parameter that is sensed; and	On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, using a Samsung smartphone to conduct financial transactions via Samsung Pay and/or Google Pay includes determining by the device a value of the parameter, such as a facial recognition, fingerprint, or iris, that is sensed. **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ **Q.** What do I need to start using Samsung Pay? **A.** To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay **Q.** Which devices will support iris image authentication for Samsung Pay? **A.** Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 Set up and use fingerprint unlock It's time to set up fingerprint security and register your prints. The steps will be almost exactly the same, no matter what device you have. The only difference will be where the fingerprint sensor is located. 1 Navigate to **Settings**, then tap **Security and privacy**, and then tap **Biometrics**. Tap **Fingerprints**. 2 Enter your lock screen credentials. If you do not have a screen lock set up, you may be prompted to create one at this point. When you're ready, read the information, and then tap **Continue**. 3 Tap **Register**, and then use the on-screen prompts to register your fingerprint. When registering your fingerprint, make sure to fully cover the fingerprint sensor with your finger to prevent strong light from entering the fingerprint sensor. When you're finished, tap **Done**. 4 Next, make sure that the **switch** next to Fingerprint unlock is turned on. **Note**: If the fingerprint sensor on your device is located on the Side key or below the Side key, you can disable the "Fingerprint always on" option to prevent accidental unlocks. 5 To unlock your device using your finger, tap the screen or press the **Power** button or **Side** button. Then, place the registered finger on the fingerprint scanner, wherever it's located. The device will automatically unlock if it recognizes your fingerprint. https://www.samsung.com/us/support/answer/ANS10001613/

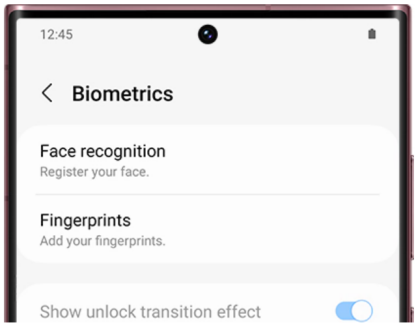
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

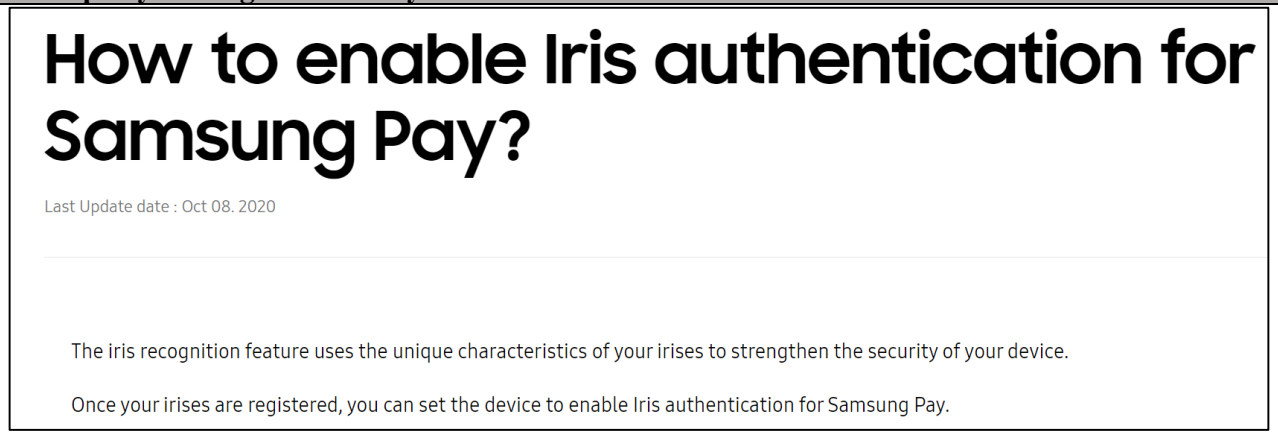
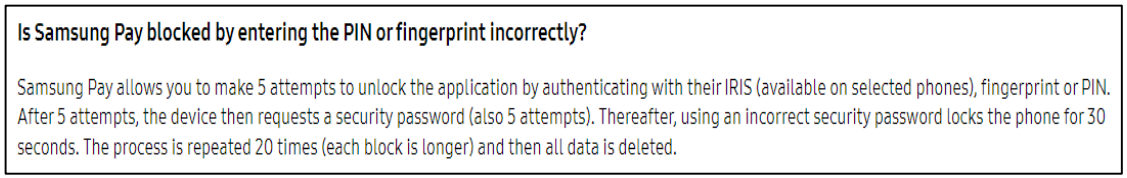
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]

Hello,

Welcome to the Google Wallet community.

Set up screen lock for tap to pay transactions

Important: Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment.

To make contactless payments with Google Wallet, you must use a screen lock on your device for your security.

You can unlock Google Wallet with several methods:

- PIN
- Pattern
- Password
- Fingerprint
- Iris scan
- 3D face unlock

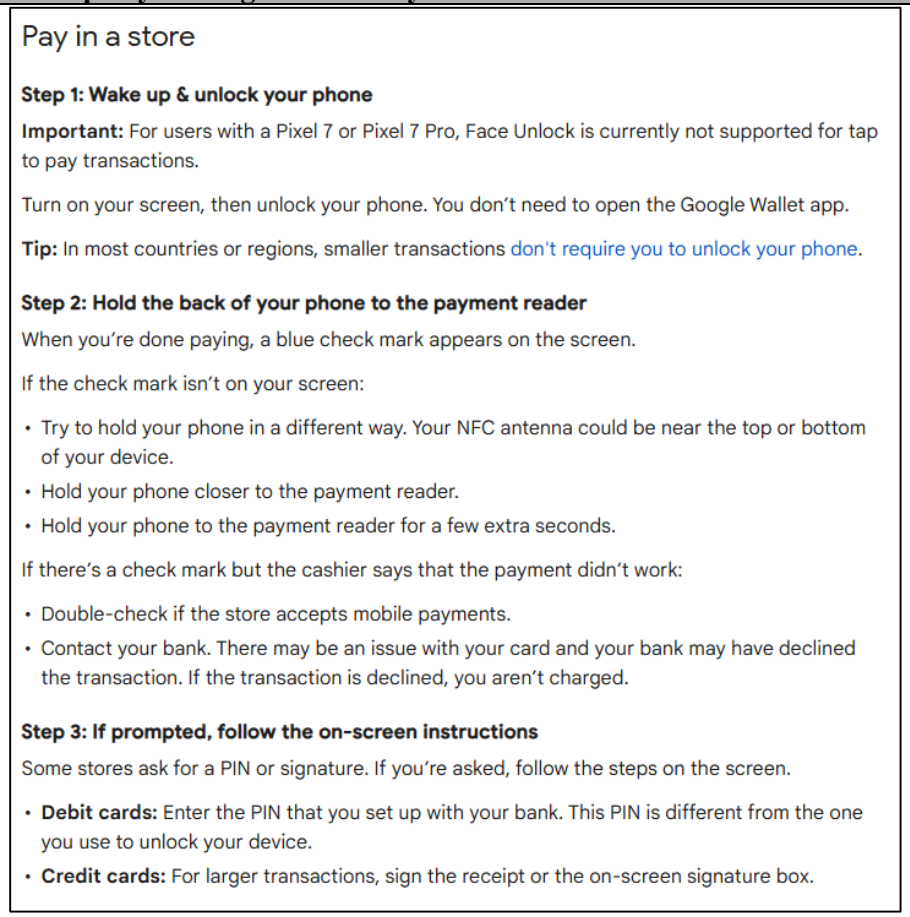
Tip: Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock.

Set or change a screen lock

1. Open your phone Settings app.
2. Tap **Security**.
    - If you don't find "Security," you can get help at your phone manufacturer support site.
3. Tap **Screen lock**.
    - If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one.
4. Tap the option you'd like to use. Follow the on-screen instructions.

https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]



Pay in a store

Step 1: Wake up & unlock your phone

Important: For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions.

Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app.

Tip: In most countries or regions, smaller transactions don't require you to unlock your phone.

Step 2: Hold the back of your phone to the payment reader

When you're done paying, a blue check mark appears on the screen.

If the check mark isn't on your screen:

- Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device.
- Hold your phone closer to the payment reader.
- Hold your phone to the payment reader for a few extra seconds.

If there's a check mark but the cashier says that the payment didn't work:

- Double-check if the store accepts mobile payments.
- Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged.

Step 3: If prompted, follow the on-screen instructions

Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen.

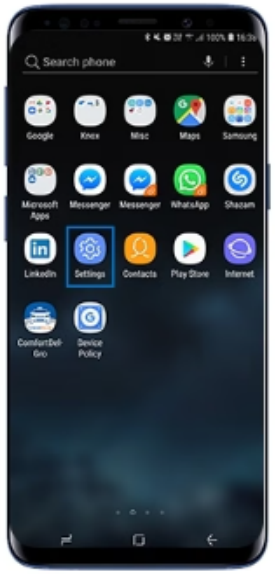
- **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device.
- **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box.

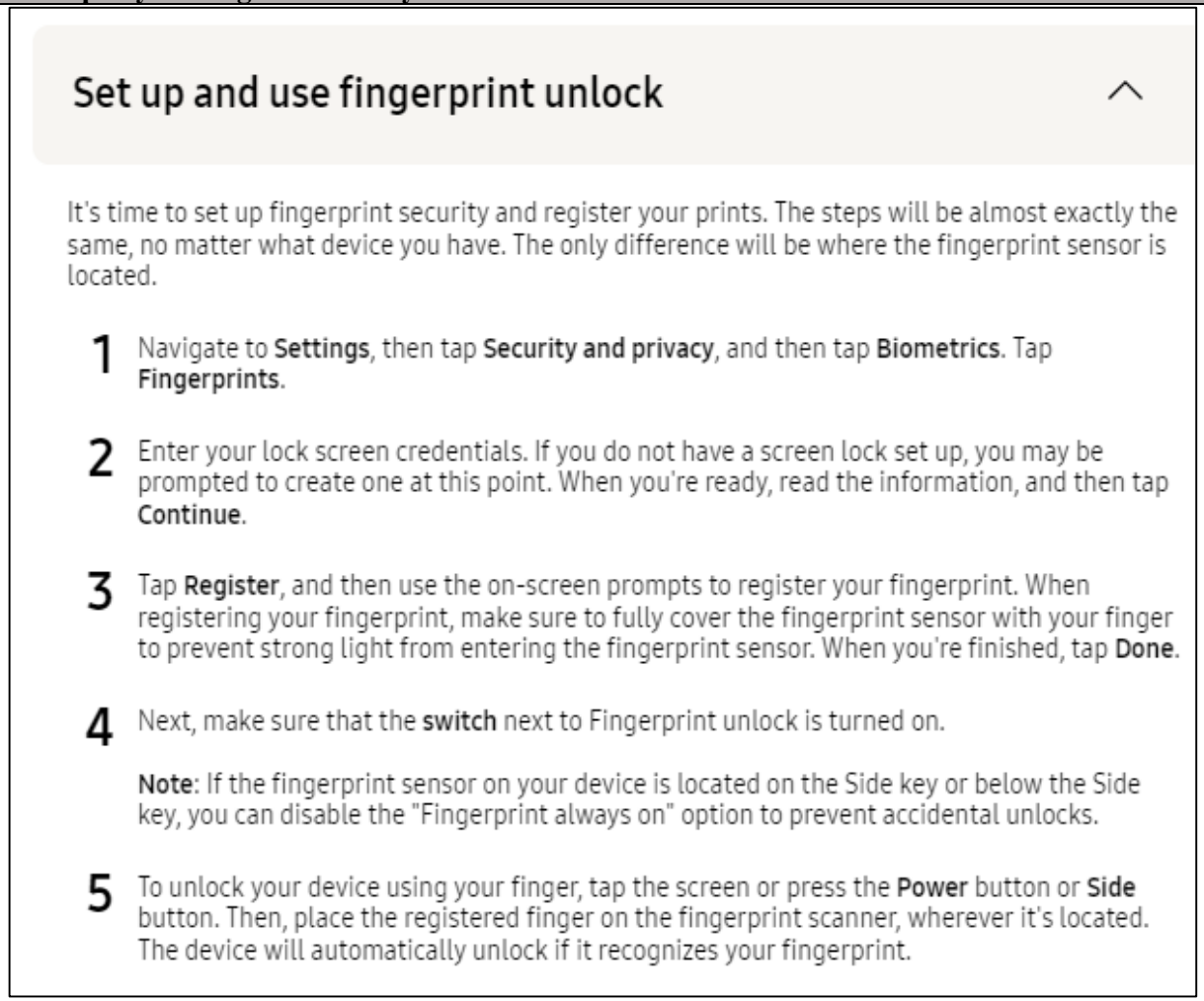
https://support.google.com/wallet/answer/12060043?hl=en#

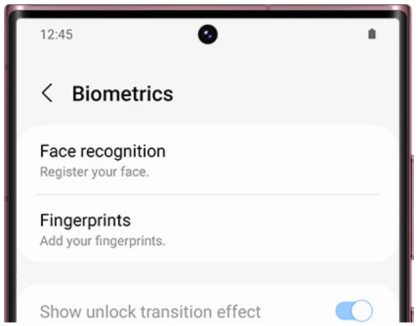
Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

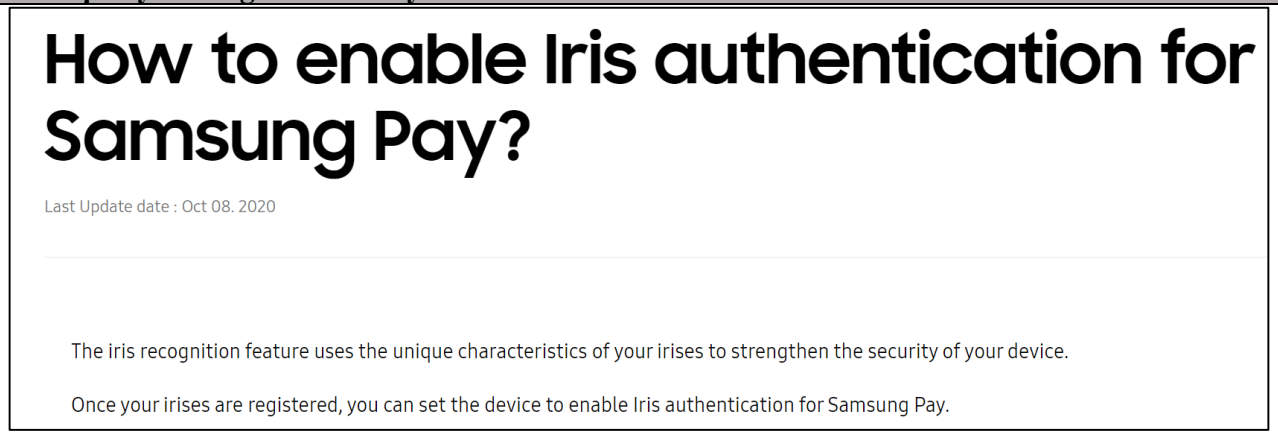
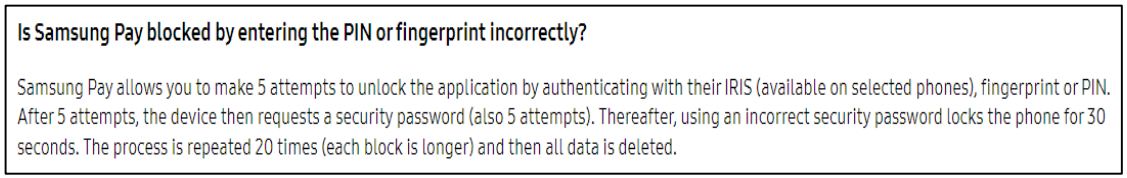
Claim	Exemplary Infringement Analysis[1]
[1.c.] responsive to the value that is determined by the device for the parameter that is sensed satisfying a threshold criterion, enabling by the device a number of functions of the device and disabling by the device a function of the device;	The Accused Products use a method that involves, "responsive to the value that is determined by the device for the parameter that is sensed satisfying a threshold criterion, enabling by the device a number of functions of the device and disabling by the device a function of the device." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, using a Samsung smartphone to conduct financial transactions via Samsung Pay and/or Google Pay includes, responsive to the value that is determined by the Samsung smartphone for the parameter that is sensed satisfying a threshold criterion, such as facial recognition, a fingerprint, or iris recognition, enabling a number of functions of the smartphone, such as unlocking the smartphone or an application, and disabling a function of the smartphone, such as disabling the lock function. **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ Q. What do I need to start using Samsung Pay? A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay

Claim	Exemplary Infringement Analysis[1]
	Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/ **An extra layer of security with Samsung Knox** Samsung Wallet is protected by Samsung Knox, Samsung's mobile security platform. Samsung Knox includes fingerprint recognition and encryption of your data to make sure your it is secure. https://www.samsung.com/us/samsung-pay/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 **Set up and use fingerprint unlock** It's time to set up fingerprint security and register your prints. The steps will be almost exactly the same, no matter what device you have. The only difference will be where the fingerprint sensor is located. 1 Navigate to **Settings**, then tap **Security and privacy**, and then tap **Biometrics**. Tap **Fingerprints**. 2 Enter your lock screen credentials. If you do not have a screen lock set up, you may be prompted to create one at this point. When you're ready, read the information, and then tap **Continue**. 3 Tap **Register**, and then use the on-screen prompts to register your fingerprint. When registering your fingerprint, make sure to fully cover the fingerprint sensor with your finger to prevent strong light from entering the fingerprint sensor. When you're finished, tap **Done**. 4 Next, make sure that the **switch** next to Fingerprint unlock is turned on. **Note**: If the fingerprint sensor on your device is located on the Side key or below the Side key, you can disable the "Fingerprint always on" option to prevent accidental unlocks. 5 To unlock your device using your finger, tap the screen or press the **Power** button or **Side** button. Then, place the registered finger on the fingerprint scanner, wherever it's located. The device will automatically unlock if it recognizes your fingerprint. https://www.samsung.com/us/support/answer/ANS10001613/

Claim	Exemplary Infringement Analysis[1]
	Set up Facial recognition **Note:** To use Face recognition, you need to set a PIN, Pattern, or Password first. Your face is unique to you, which makes it one of the best security features in your arsenal. 1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**. 2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up. 3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process. 4. When you're done, adjust your desired settings.  https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]

Pay in a store

Step 1: Wake up & unlock your phone

Important: For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions.

Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app.

Tip: In most countries or regions, smaller transactions don't require you to unlock your phone.

Step 2: Hold the back of your phone to the payment reader

When you're done paying, a blue check mark appears on the screen.

If the check mark isn't on your screen:

- Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device.
- Hold your phone closer to the payment reader.
- Hold your phone to the payment reader for a few extra seconds.

If there's a check mark but the cashier says that the payment didn't work:

- Double-check if the store accepts mobile payments.
- Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged.

Step 3: If prompted, follow the on-screen instructions

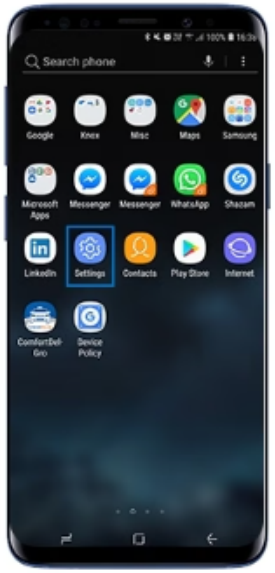
Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen.

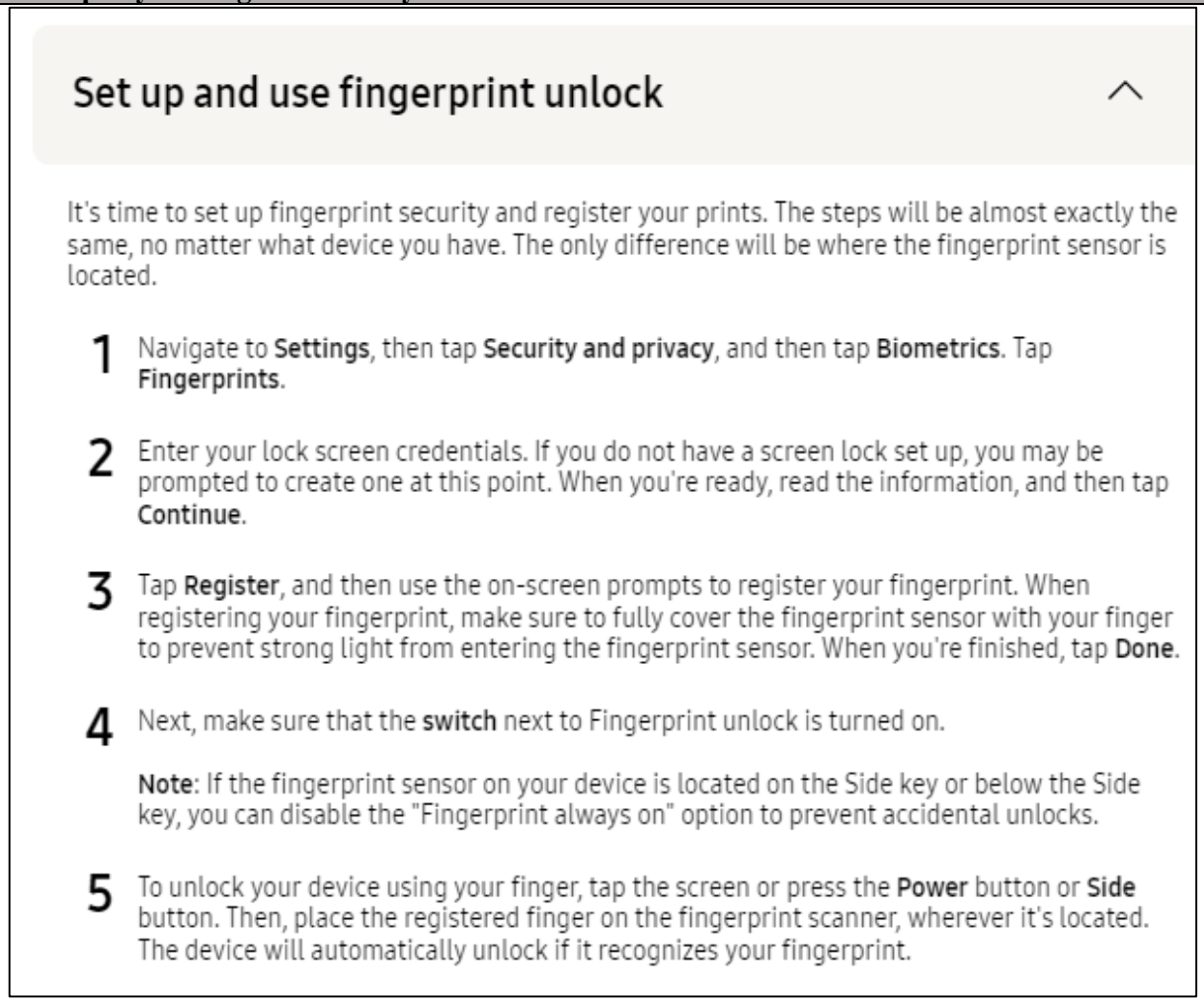
- **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device.
- **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box.

https://support.google.com/wallet/answer/12060043?hl=en#

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[1.d.] wherein the parameter that is sensed using the device-based sensor, comprises a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state; and	The Accused Products perform the method above, "wherein the parameter that is sensed using the device-based sensor, comprises a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, the parameter that is sensed using the Samsung smartphone's device-based sensor includes a physiological state via facial recognition, a fingerprint, or iris recognition. **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ **Q.** What do I need to start using Samsung Pay? **A.** To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay **Q.** Which devices will support iris image authentication for Samsung Pay? **A.** Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 **Set up and use fingerprint unlock** It's time to set up fingerprint security and register your prints. The steps will be almost exactly the same, no matter what device you have. The only difference will be where the fingerprint sensor is located. 1 Navigate to **Settings**, then tap **Security and privacy**, and then tap **Biometrics**. Tap **Fingerprints**. 2 Enter your lock screen credentials. If you do not have a screen lock set up, you may be prompted to create one at this point. When you're ready, read the information, and then tap **Continue**. 3 Tap **Register**, and then use the on-screen prompts to register your fingerprint. When registering your fingerprint, make sure to fully cover the fingerprint sensor with your finger to prevent strong light from entering the fingerprint sensor. When you're finished, tap **Done**. 4 Next, make sure that the **switch** next to Fingerprint unlock is turned on. **Note**: If the fingerprint sensor on your device is located on the Side key or below the Side key, you can disable the "Fingerprint always on" option to prevent accidental unlocks. 5 To unlock your device using your finger, tap the screen or press the **Power** button or **Side** button. Then, place the registered finger on the fingerprint scanner, wherever it's located. The device will automatically unlock if it recognizes your fingerprint. https://www.samsung.com/us/support/answer/ANS10001613/

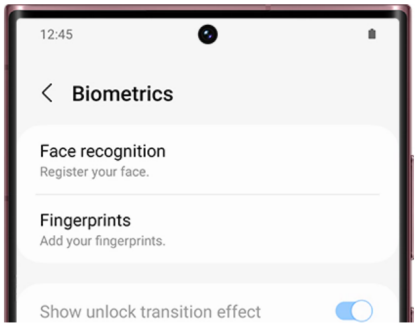
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

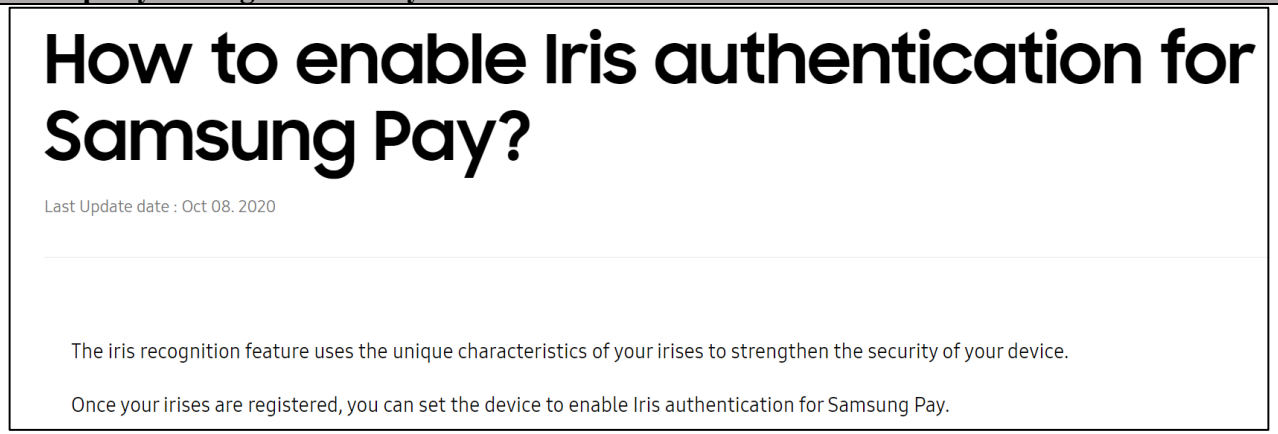
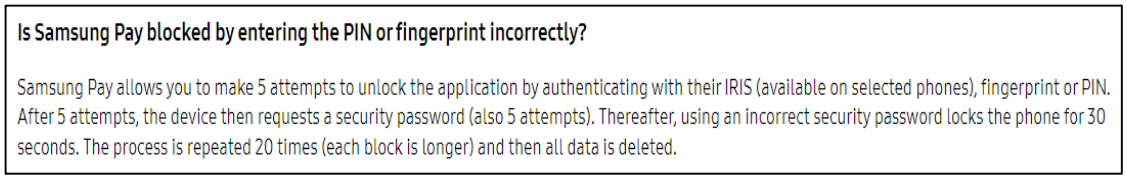
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]

Pay in a store

Step 1: Wake up & unlock your phone

Important: For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions.

Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app.

Tip: In most countries or regions, smaller transactions don't require you to unlock your phone.

Step 2: Hold the back of your phone to the payment reader

When you're done paying, a blue check mark appears on the screen.

If the check mark isn't on your screen:

- Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device.
- Hold your phone closer to the payment reader.
- Hold your phone to the payment reader for a few extra seconds.

If there's a check mark but the cashier says that the payment didn't work:

- Double-check if the store accepts mobile payments.
- Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged.

Step 3: If prompted, follow the on-screen instructions

Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen.

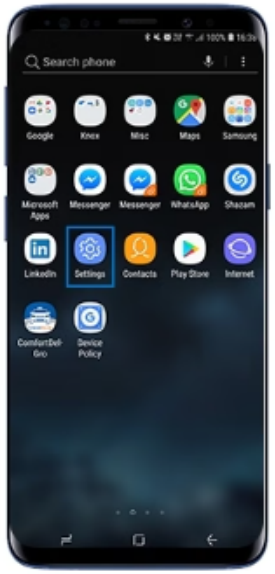
- **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device.
- **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box.

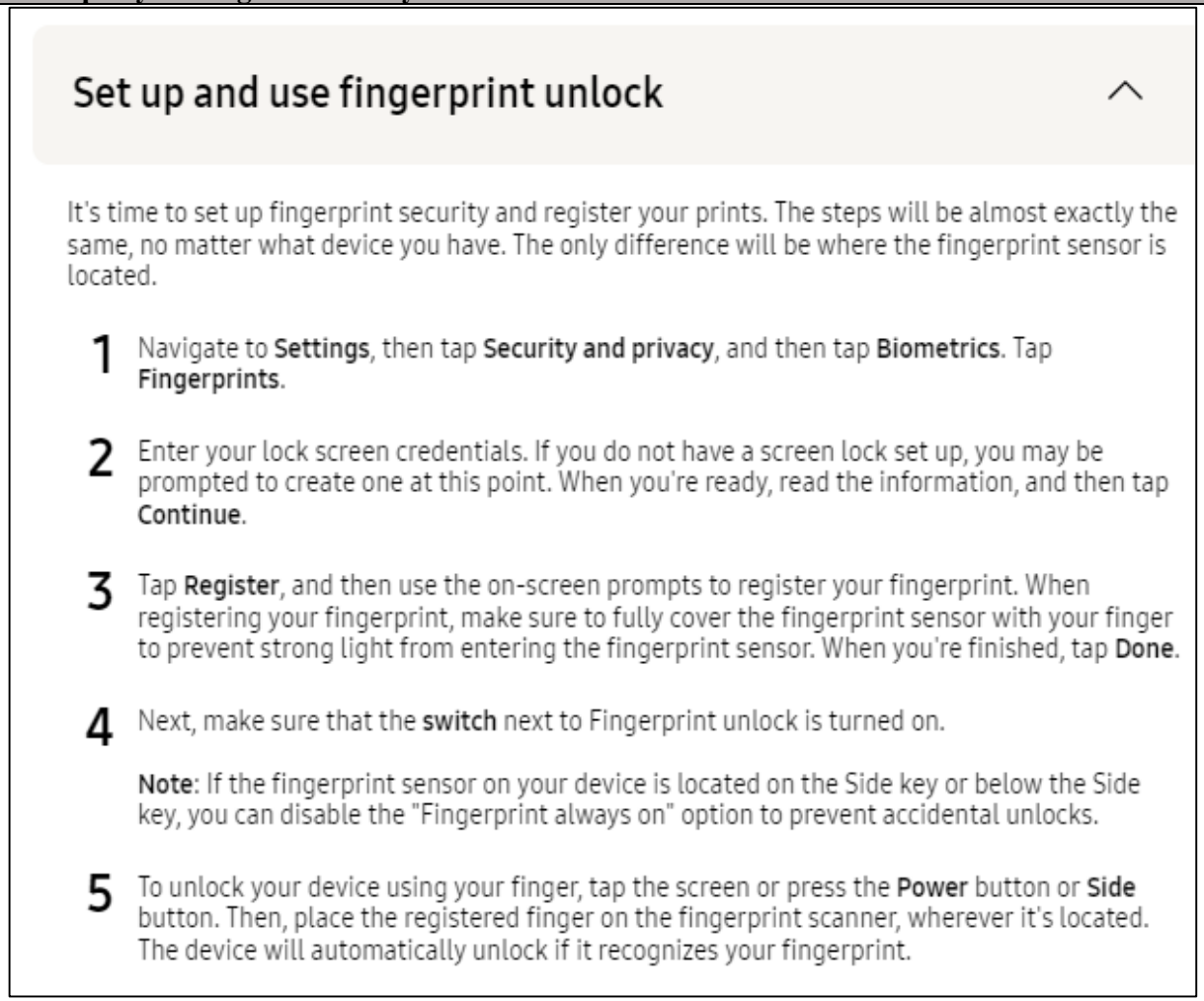
https://support.google.com/wallet/answer/12060043?hl=en#

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[1.e.] wherein the device comprises a smartphone.	The Accused Products perform the method above, "wherein the device comprises a smartphone." For example, Samsung-branded smartphones capable of using Samsung Pay and/or Google Pay are smartphones. **Galaxy Z Series** Galaxy Z Fold6 | Z Flip6 Galaxy Z Fold5 | Z Flip5 Galaxy Z Fold4 | Z Flip4 Galaxy Z Fold3 | Z Flip3 5G Galaxy Z Fold2 5G* Galaxy Z Flip* Galaxy Fold* **Galaxy Note Series** Galaxy Note20 | Note20 Ultra 5G* Galaxy Note10 Lite Galaxy Note10 | Note10+* Galaxy Note9* Galaxy Note8* Galaxy Note Fan Edition* Galaxy Note5* **Galaxy S Series** Galaxy S24 | S24+ | S24 Ultra Galaxy S23 FE 5G Galaxy S23 | S23+ | S23 Ultra 5G Galaxy S22 | S22+ | S22 Ultra 5G Galaxy S21 FE 5G Galaxy S21 | S21+ | S21 Ultra 5G Galaxy S20 FE | S20 FE 5G Galaxy S20 | S20+ | S20 Ultra* Galaxy S10 Lite Galaxy S10e | S10 | S10+* Galaxy S9 | S9+* Galaxy S8 | S8+* Galaxy S7 edge | S7* Galaxy S6 edge+*

Claim	Exemplary Infringement Analysis[1]
	See https://www.samsung.com/my/samsung-pay/supported-devices/ Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[2.] The method of claim 1, wherein said enabling by the device a number of functions of the device comprises enabling by the device a number of functions of the device that is greater than or equal to one.	The Accused Products use a method that involves "wherein said enabling by the device a number of functions of the device comprises enabling by the device a number of functions of the device that is greater than or equal to one." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, using a Samsung smartphone to conduct financial transactions via Samsung Pay and/or Google Pay includes enabling a number of functions of the Samsung smartphone that is greater than or equal to one, including unlocking the Samsung smartphone or an application. **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ **Q.** What do I need to start using Samsung Pay? ^ **A.** To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay

Claim	Exemplary Infringement Analysis[1]
	Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/ Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 Set up and use fingerprint unlock It's time to set up fingerprint security and register your prints. The steps will be almost exactly the same, no matter what device you have. The only difference will be where the fingerprint sensor is located. 1 Navigate to **Settings**, then tap **Security and privacy**, and then tap **Biometrics**. Tap **Fingerprints**. 2 Enter your lock screen credentials. If you do not have a screen lock set up, you may be prompted to create one at this point. When you're ready, read the information, and then tap **Continue**. 3 Tap **Register**, and then use the on-screen prompts to register your fingerprint. When registering your fingerprint, make sure to fully cover the fingerprint sensor with your finger to prevent strong light from entering the fingerprint sensor. When you're finished, tap **Done**. 4 Next, make sure that the **switch** next to Fingerprint unlock is turned on. **Note**: If the fingerprint sensor on your device is located on the Side key or below the Side key, you can disable the "Fingerprint always on" option to prevent accidental unlocks. 5 To unlock your device using your finger, tap the screen or press the **Power** button or **Side** button. Then, place the registered finger on the fingerprint scanner, wherever it's located. The device will automatically unlock if it recognizes your fingerprint. https://www.samsung.com/us/support/answer/ANS10001613/

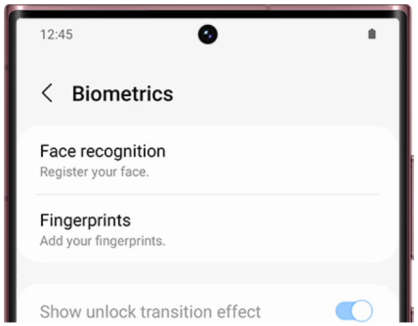
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



https://www.samsung.com/us/support/answer/ANS00062630/

How to enable Iris authentication for Samsung Pay?

Last Update date : Oct 08. 2020

The iris recognition feature uses the unique characteristics of your irises to strengthen the security of your device.

Once your irises are registered, you can set the device to enable Iris authentication for Samsung Pay.

Claim	Exemplary Infringement Analysis[1]

https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/

Is Samsung Pay blocked by entering the PIN or fingerprint incorrectly?

Samsung Pay allows you to make 5 attempts to unlock the application by authenticating with their IRIS (available on selected phones), fingerprint or PIN. After 5 attempts, the device then requests a security password (also 5 attempts). Thereafter, using an incorrect security password locks the phone for 30 seconds. The process is repeated 20 times (each block is longer) and then all data is deleted.

https://www.samsung.com/uk/samsung-pay/faq/

Hello,

Welcome to the Google Wallet community.

Set up screen lock for tap to pay transactions
Important: Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment.
To make contactless payments with Google Wallet, you must use a screen lock on your device for your security.
You can unlock Google Wallet with several methods:

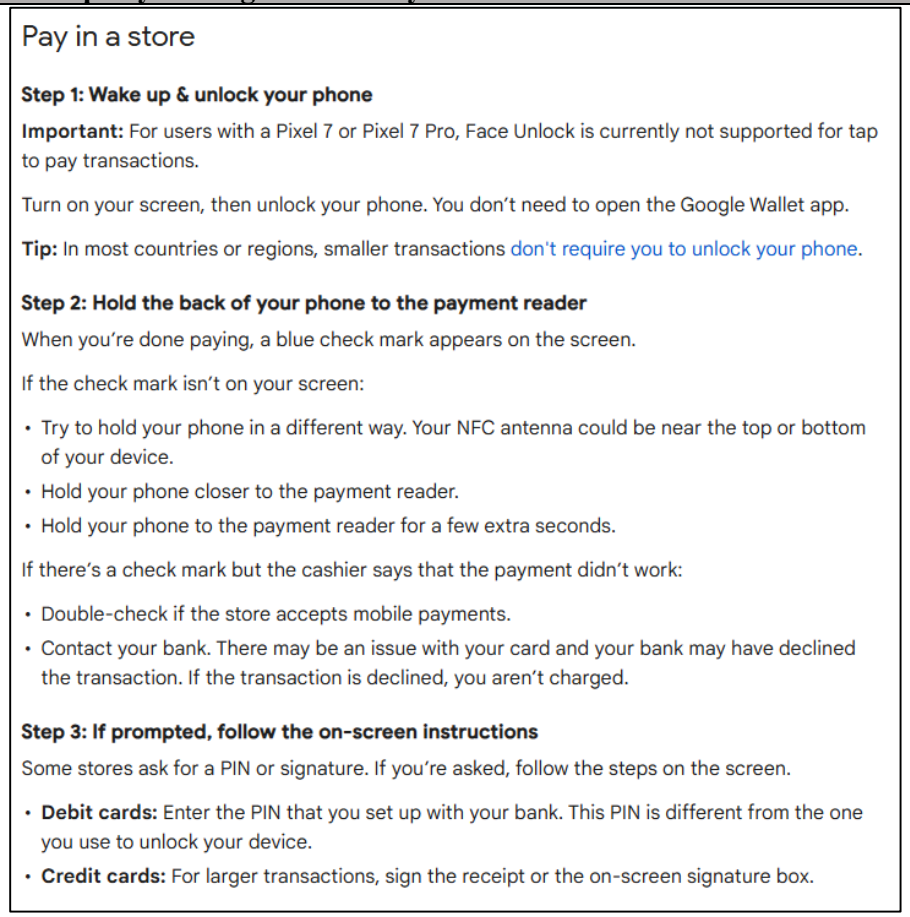
- PIN
- Pattern
- Password
- Fingerprint
- Iris scan
- 3D face unlock

Tip: Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock.
Set or change a screen lock

1. Open your phone Settings app.
2. Tap **Security**.
   - If you don't find "Security," you can get help at your phone manufacturer support site.
3. Tap **Screen lock**.
   - If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one.
4. Tap the option you'd like to use. Follow the on-screen instructions.

https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]



Pay in a store

Step 1: Wake up & unlock your phone

Important: For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions.

Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app.

Tip: In most countries or regions, smaller transactions don't require you to unlock your phone.

Step 2: Hold the back of your phone to the payment reader

When you're done paying, a blue check mark appears on the screen.

If the check mark isn't on your screen:

- Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device.
- Hold your phone closer to the payment reader.
- Hold your phone to the payment reader for a few extra seconds.

If there's a check mark but the cashier says that the payment didn't work:

- Double-check if the store accepts mobile payments.
- Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged.

Step 3: If prompted, follow the on-screen instructions

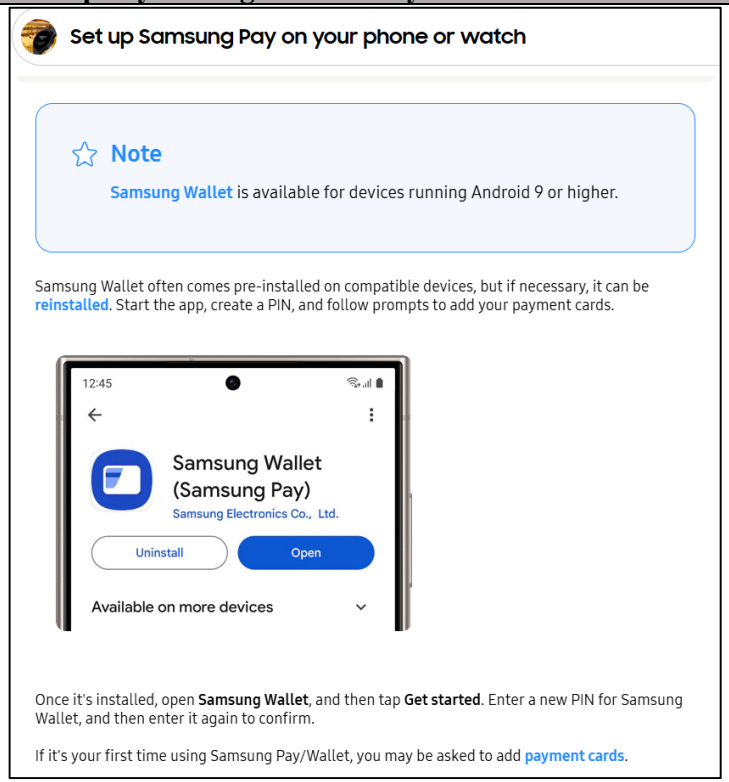
Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen.

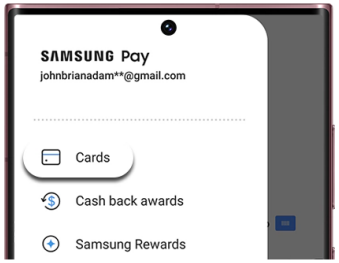
- **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device.
- **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box.

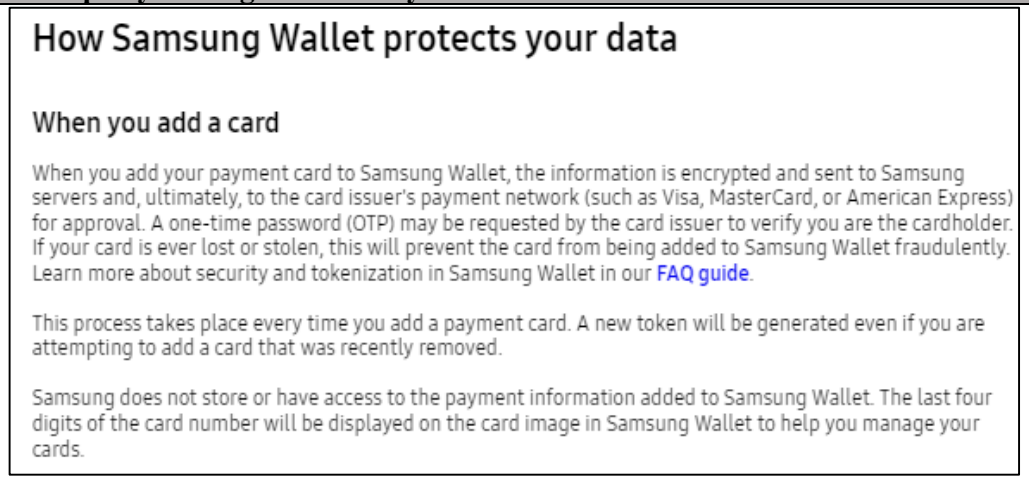
https://support.google.com/wallet/answer/12060043?hl=en#

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[3.a.] The method of claim 1, further comprising: while said number of functions is enabled by having sensed by the device the parameter and by having determined by the device that the value of the parameter that is sensed satisfies the threshold criterion, requesting by the device from a second device an authorization to enable a function for conducting a financial transaction by the device;	The Accused Products use a method that involves "while said number of functions is enabled by having sensed by the device the parameter and by having determined by the device that the value of the parameter that is sensed satisfies the threshold criterion, requesting by the device from a second device an authorization to enable a function for conducting a financial transaction by the device." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, while the Samsung smartphone or application is unlocked (e.g., a number of functions is enabled) and responsive to recognizing, for example, facial recognition, iris recognition, or a fingerprint (e.g., by having determined by the device that the value of the parameter that is sensed satisfies the threshold criterion), the user may set up a payment method in Samsung Pay and/or Google Pay by, for example, adding a credit card (e.g., requesting an authorization to establish a function to conduct a financial transaction). To add a credit card, the Samsung smartphone transmits to the base station (a second device) data requesting authorization to use the credit card in future transactions. **Q.** What do I need to start using Samsung Pay? **A.** To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay **Q.** Which devices will support iris image authentication for Samsung Pay? **A.** Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 How Samsung Wallet protects your data When you add a card When you add your payment card to Samsung Wallet, the information is encrypted and sent to Samsung servers and, ultimately, to the card issuer's payment network (such as Visa, MasterCard, or American Express) for approval. A one-time password (OTP) may be requested by the card issuer to verify you are the cardholder. If your card is ever lost or stolen, this will prevent the card from being added to Samsung Wallet fraudulently. Learn more about security and tokenization in Samsung Wallet in our FAQ guide. This process takes place every time you add a payment card. A new token will be generated even if you are attempting to add a card that was recently removed. Samsung does not store or have access to the payment information added to Samsung Wallet. The last four digits of the card number will be displayed on the card image in Samsung Wallet to help you manage your cards. https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]

If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps:

1. Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card.

   You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card.

   Please note: The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct.

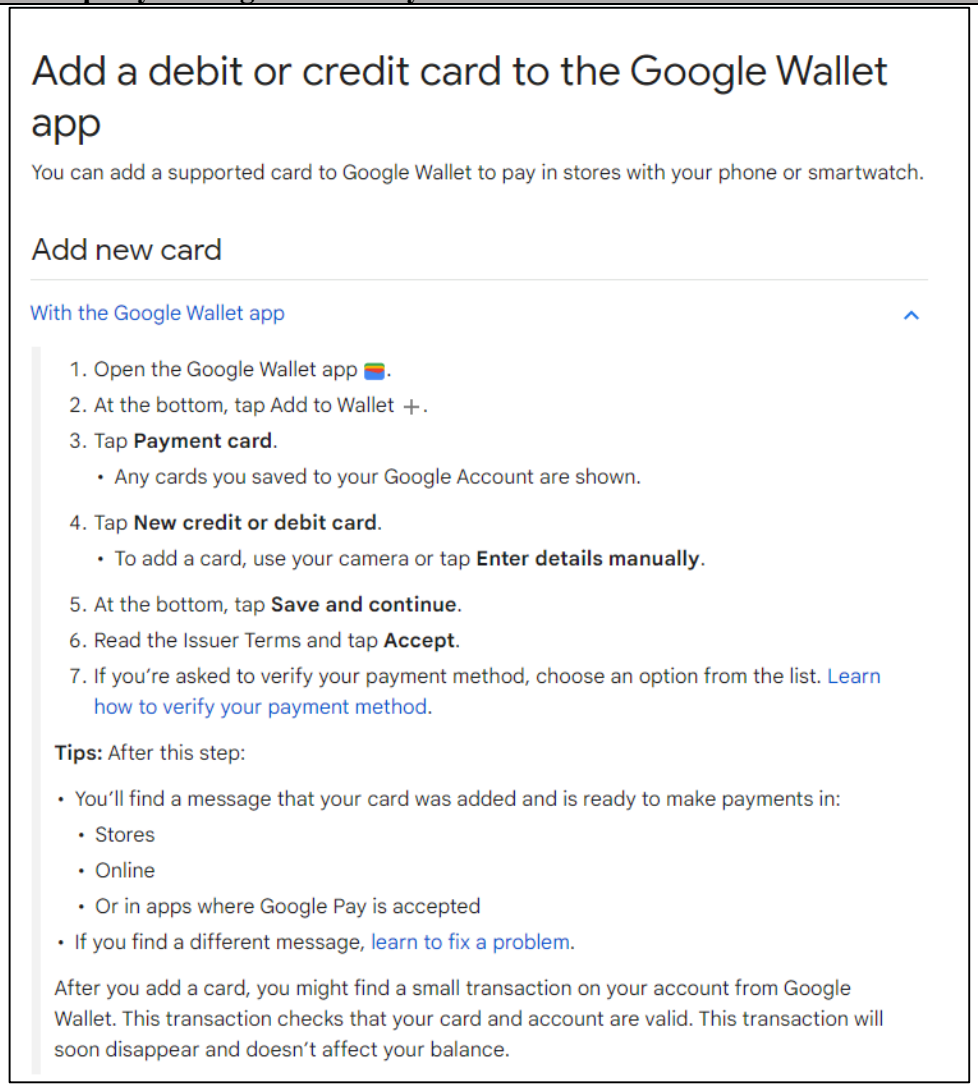
2. Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up.

3. You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen.

https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]



Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

1. Open the Google Wallet app.
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

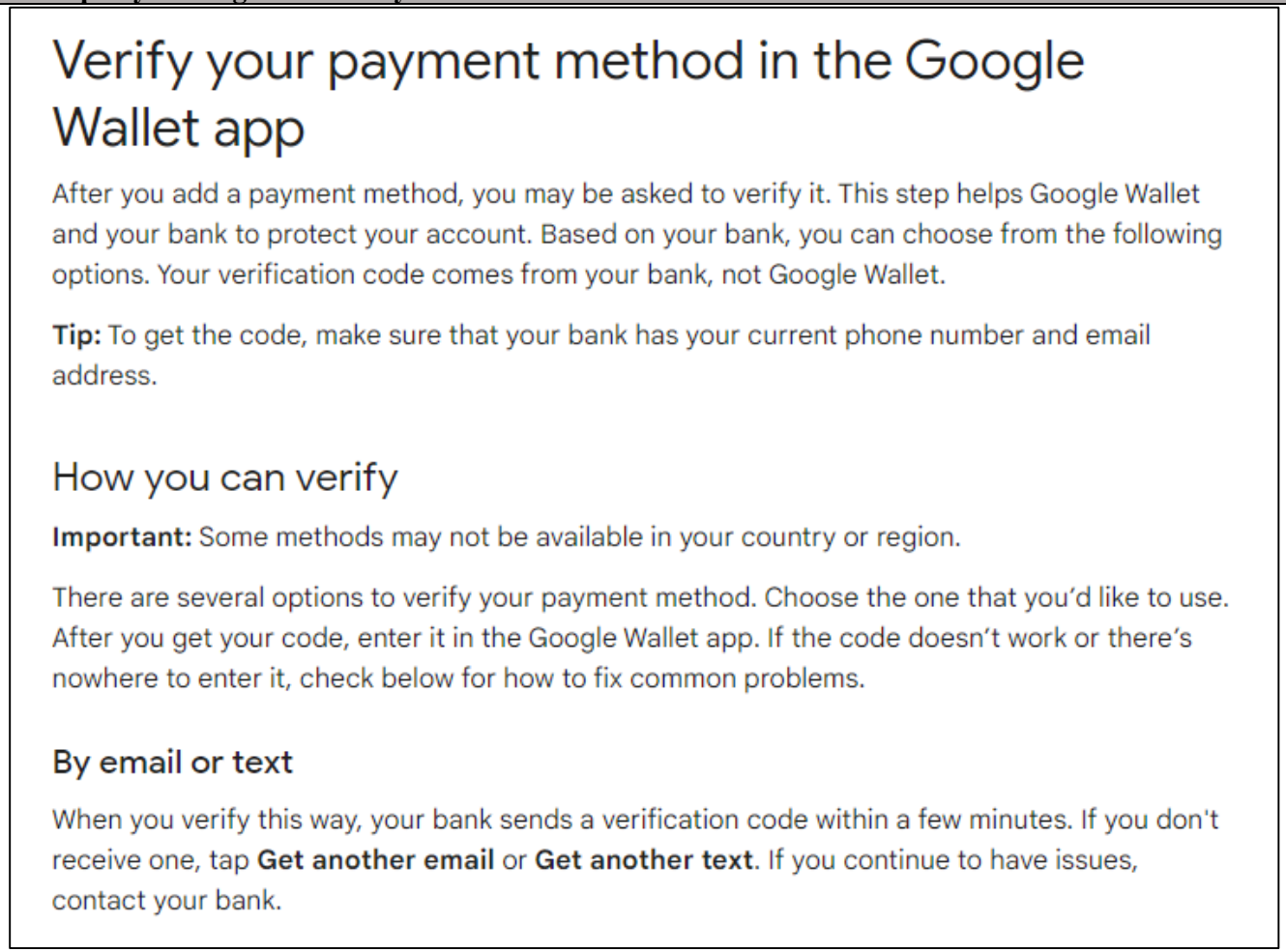
Tips: After this step:

- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

Claim	Exemplary Infringement Analysis[1]



Verify your payment method in the Google Wallet app

After you add a payment method, you may be asked to verify it. This step helps Google Wallet and your bank to protect your account. Based on your bank, you can choose from the following options. Your verification code comes from your bank, not Google Wallet.

Tip: To get the code, make sure that your bank has your current phone number and email address.

How you can verify

Important: Some methods may not be available in your country or region.

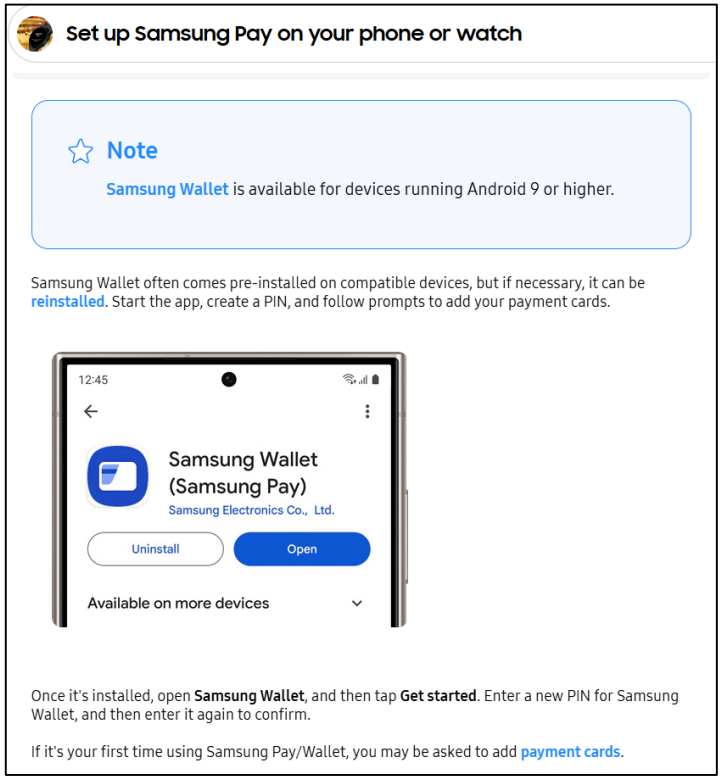
There are several options to verify your payment method. Choose the one that you'd like to use. After you get your code, enter it in the Google Wallet app. If the code doesn't work or there's nowhere to enter it, check below for how to fix common problems.

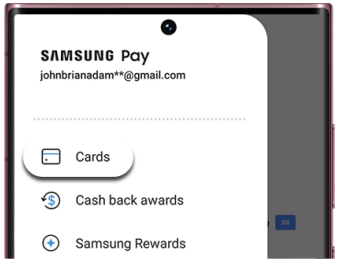
By email or text

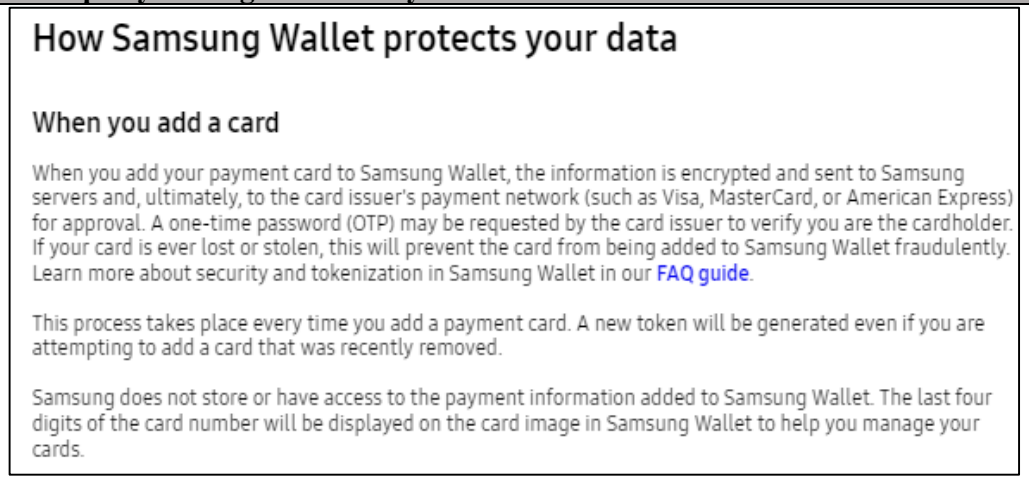
When you verify this way, your bank sends a verification code within a few minutes. If you don't receive one, tap **Get another email** or **Get another text**. If you continue to have issues, contact your bank.

https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

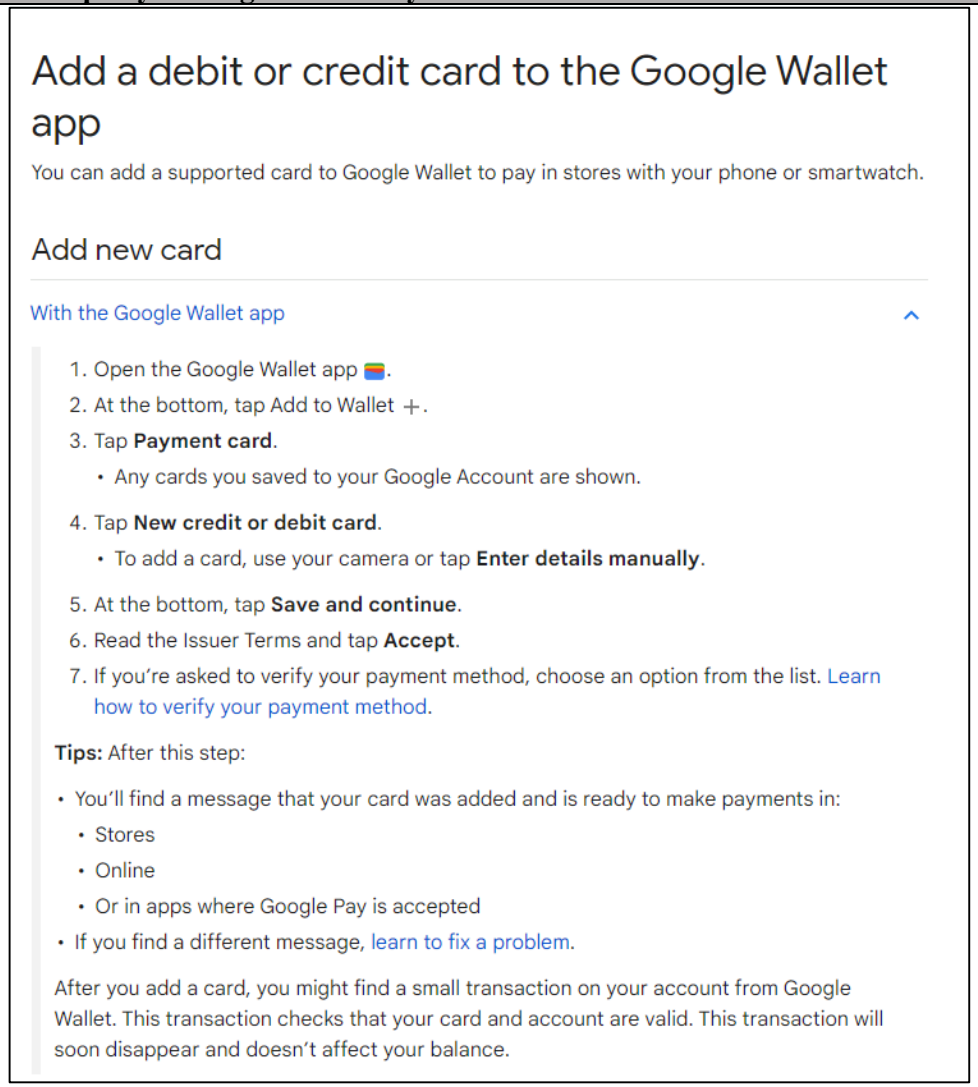
Claim	Exemplary Infringement Analysis[1]
[3.b.] responsive to the requesting, receiving by the device from the second device the authorization to enable the function for conducting the financial transaction; and	The Accused Products use a method that involves, "responsive to the requesting, receiving by the device from the second device the authorization to enable the function for conducting the financial transaction." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, in response to requesting authorization, the Samsung smartphone receives the authorization from the card issuer (via the base station (second device)) if the card is eligible for Samsung Pay and/or Google Pay. The authorization establishes the ability to conduct a financial transaction using Samsung Pay and/or Google Pay.  https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 How Samsung Wallet protects your data When you add a card When you add your payment card to Samsung Wallet, the information is encrypted and sent to Samsung servers and, ultimately, to the card issuer's payment network (such as Visa, MasterCard, or American Express) for approval. A one-time password (OTP) may be requested by the card issuer to verify you are the cardholder. If your card is ever lost or stolen, this will prevent the card from being added to Samsung Wallet fraudulently. Learn more about security and tokenization in Samsung Wallet in our FAQ guide. This process takes place every time you add a payment card. A new token will be generated even if you are attempting to add a card that was recently removed. Samsung does not store or have access to the payment information added to Samsung Wallet. The last four digits of the card number will be displayed on the card image in Samsung Wallet to help you manage your cards. https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]
	If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps: 1 Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card. You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card. **Please note:** The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct. 2 Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up. 3 You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen. https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]



Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

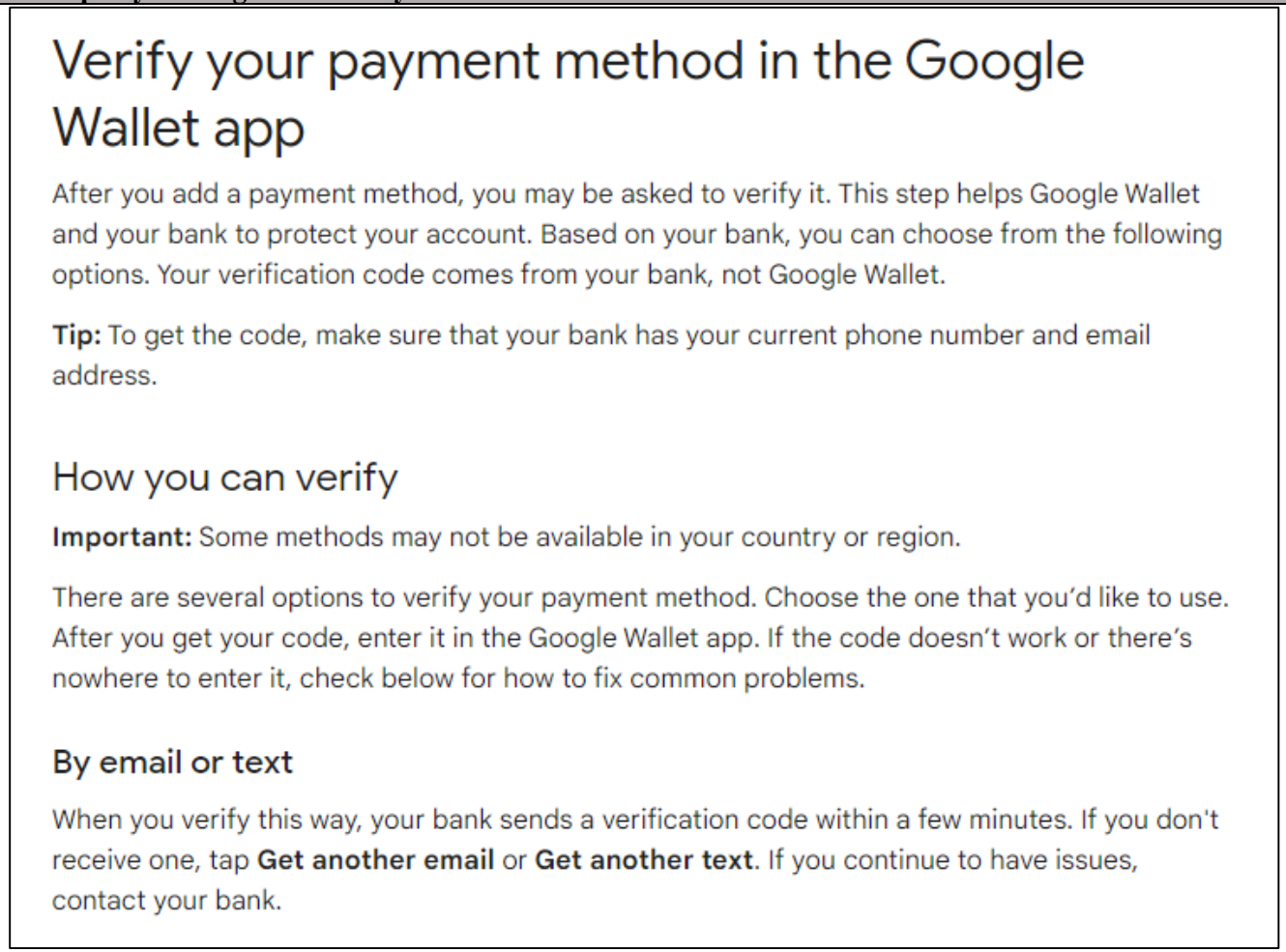
1. Open the Google Wallet app .
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

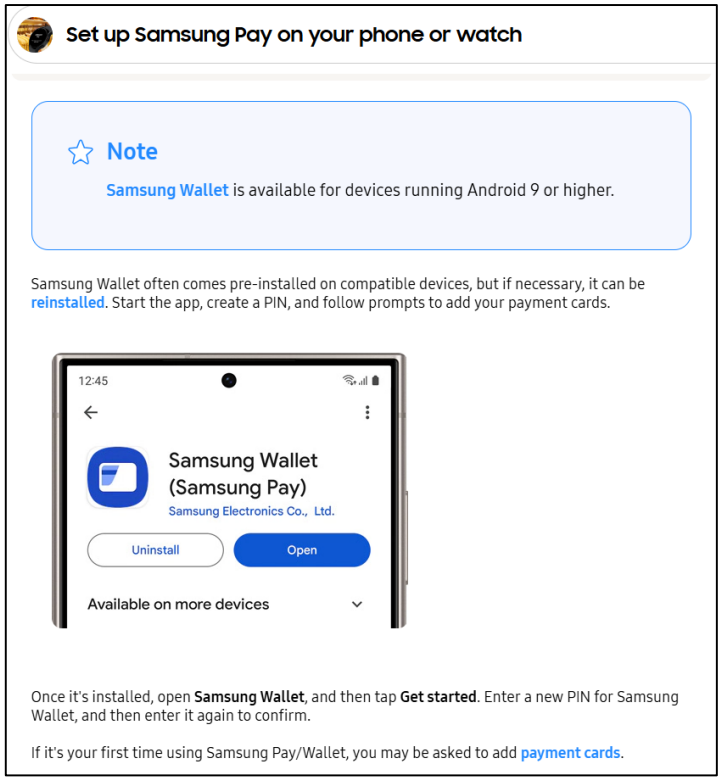
Tips: After this step:

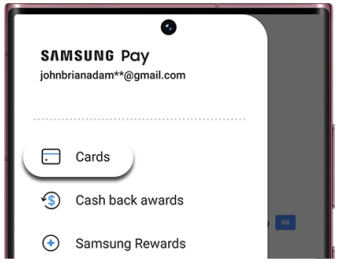
- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

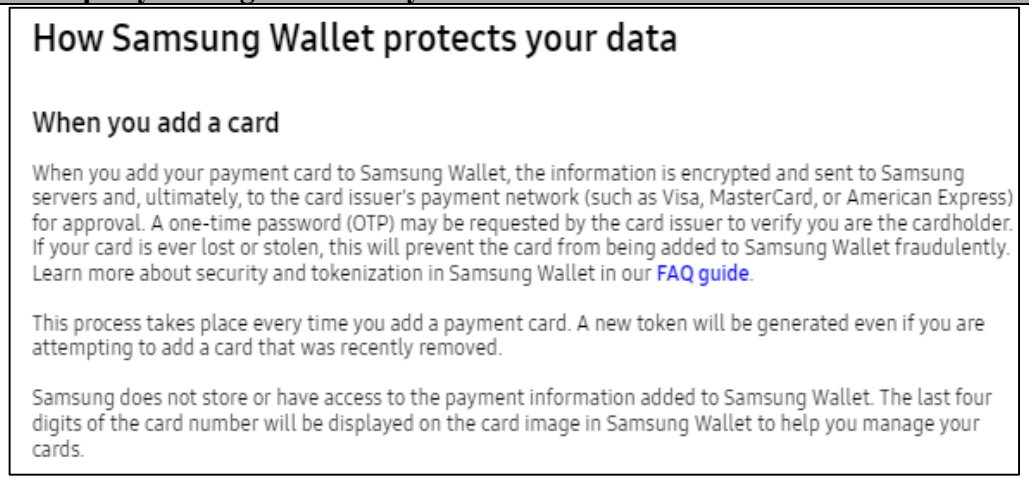
After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

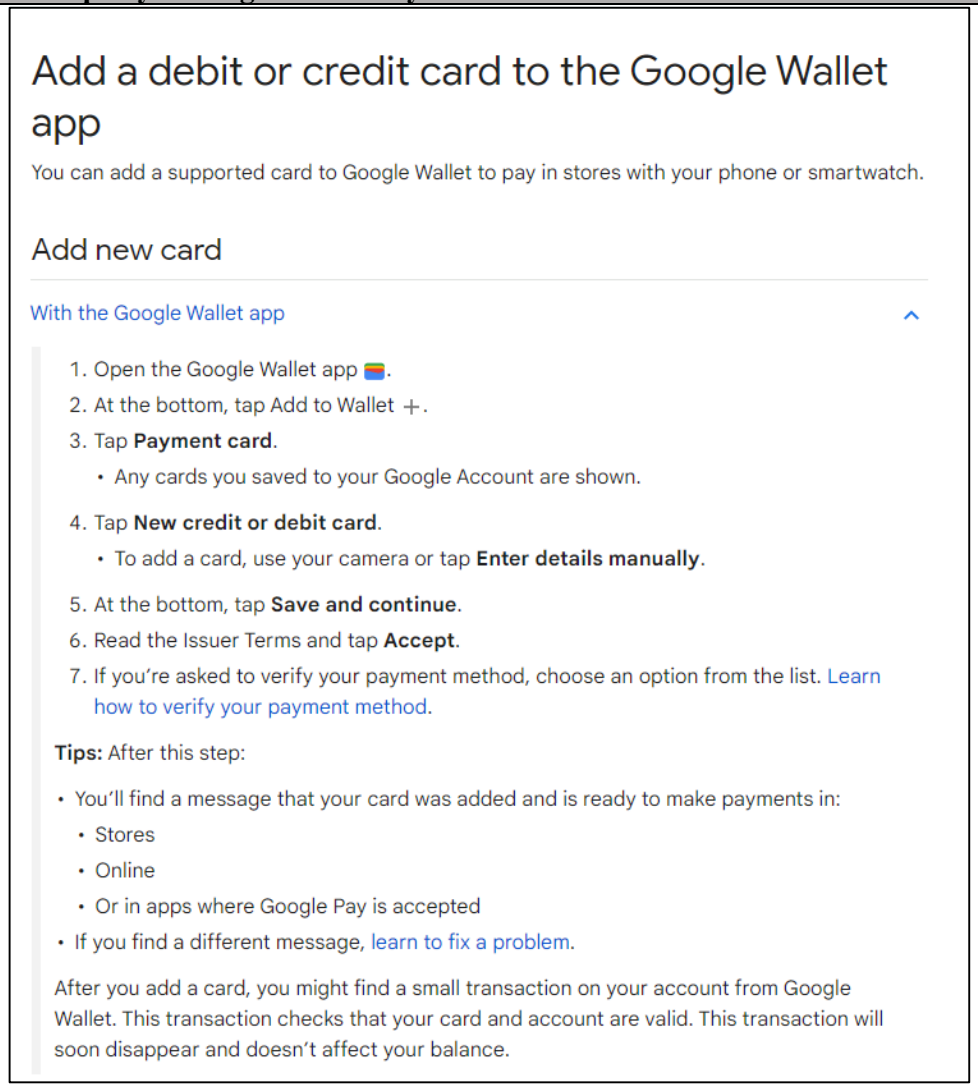
Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[3.c.] responsive to receiving the authorization, enabling at the device the function for conducting the financial transaction.	The Accused Products use a method that involves, "responsive to receiving the authorization, enabling at the device the function for conducting the financial transaction." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, once the Samsung smartphone has received the authorization, the Samsung smartphone user may conduct financial transactions using Samsung Pay and/or Google Pay.  https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]



Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

1. Open the Google Wallet app.
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

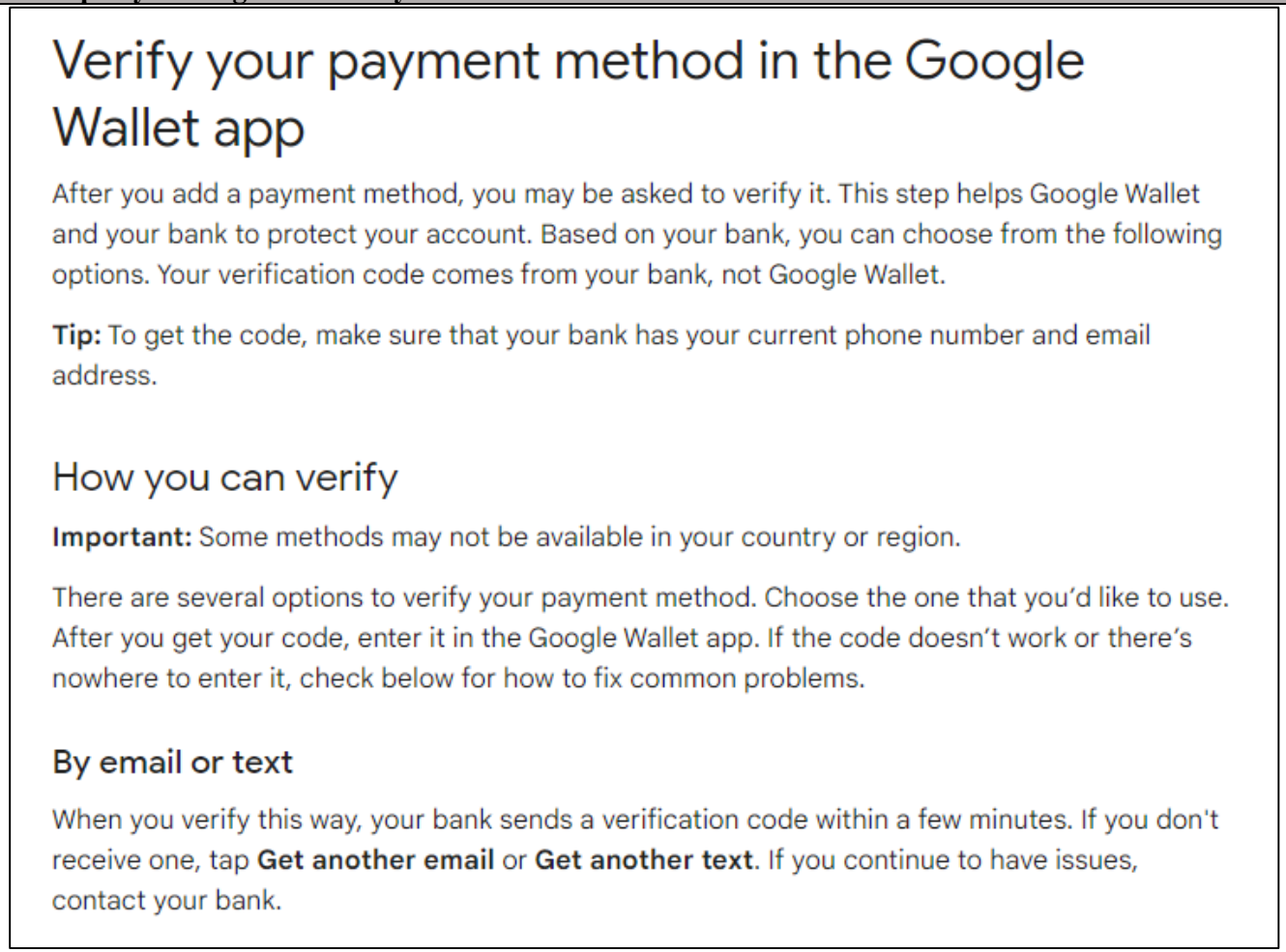
Tips: After this step:

- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

Claim	Exemplary Infringement Analysis[1]



Verify your payment method in the Google Wallet app

After you add a payment method, you may be asked to verify it. This step helps Google Wallet and your bank to protect your account. Based on your bank, you can choose from the following options. Your verification code comes from your bank, not Google Wallet.

Tip: To get the code, make sure that your bank has your current phone number and email address.

How you can verify

Important: Some methods may not be available in your country or region.

There are several options to verify your payment method. Choose the one that you'd like to use. After you get your code, enter it in the Google Wallet app. If the code doesn't work or there's nowhere to enter it, check below for how to fix common problems.

By email or text

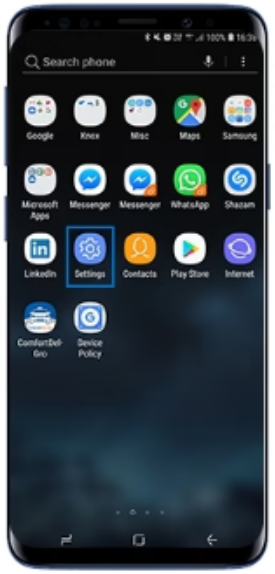
When you verify this way, your bank sends a verification code within a few minutes. If you don't receive one, tap **Get another email** or **Get another text**. If you continue to have issues, contact your bank.

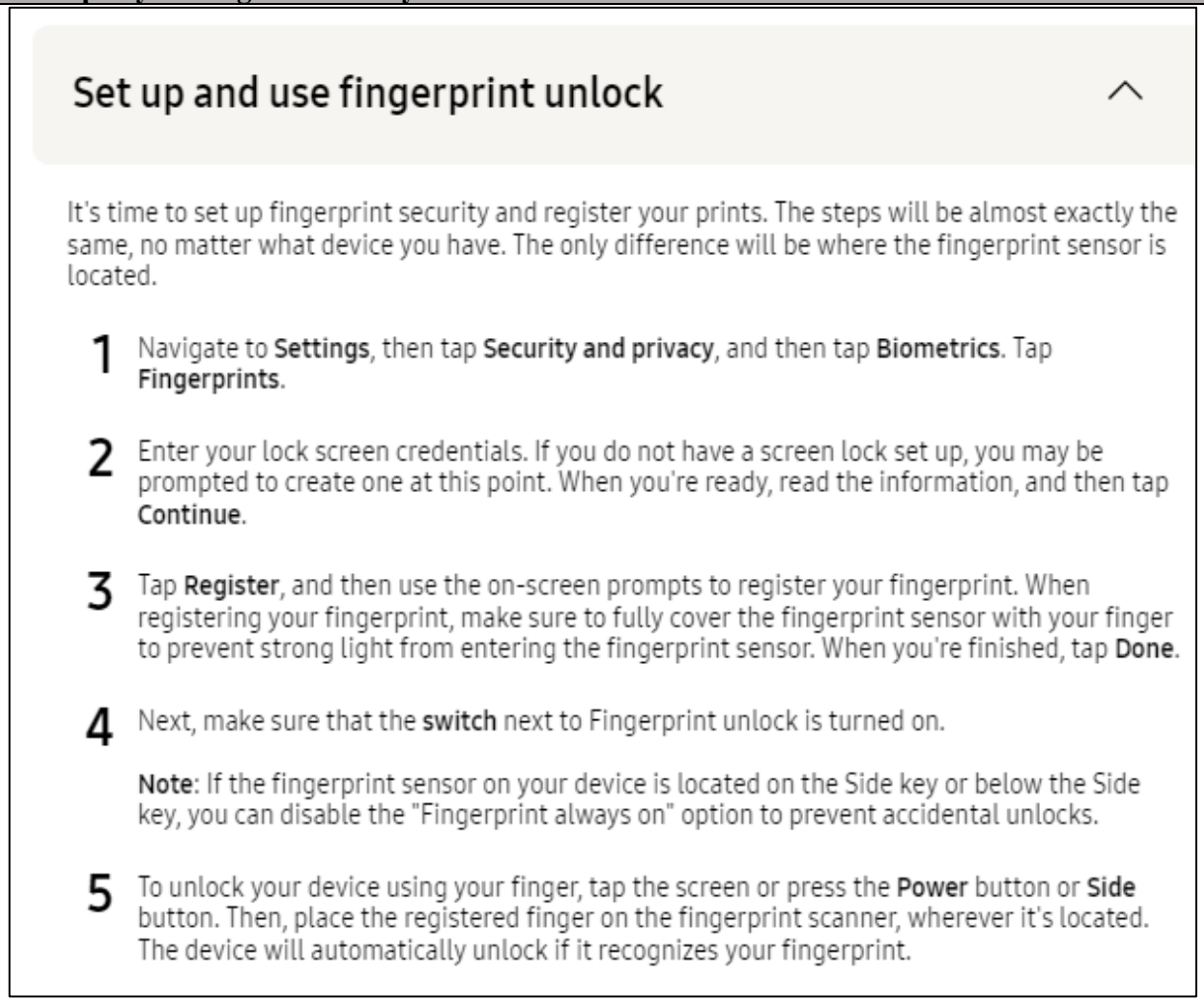
https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[4.] The method of claim 3, responsive to the device satisfying a proximity condition relative to an entity and responsive to the device sensing the parameter and determining the value that is associated with parameter that is sensed satisfies the threshold criterion, using by the device the function for conducting the financial transaction and conducting by the device the financial transaction by paying for a product.	The Accused Products use a method that involves, "responsive to the device satisfying a proximity condition relative to an entity and responsive to the device sensing the parameter and determining the value that is associated with parameter that is sensed satisfies the threshold criterion, using by the device the function for conducting the financial transaction and conducting by the device the financial transaction by paying for a product." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, using a Samsung smartphone to conduct a financial transaction via Samsung Pay and/or Google Pay includes using Samsung Pay and/or Google Pay (the function that was established) to conduct the financial transaction by paying for a product. Use of the function (Samsung Pay and/or Google Pay functionality) to pay for a product is in response to satisfaction of a proximity condition between the Samsung smartphone and a point-of-sale terminal (the entity) and in response to sensing the physiological parameter value and determining that the sensed physiological parameter satisfies a criterion. The proximity criterion is satisfied by the Samsung smartphone being within range of the point-of-sale terminal for NFC communications. Also, conducting the transaction via Samsung Pay and/or Google Pay includes recognizing and accepting a facial recognition, fingerprint, or iris associated with the user. **How does Samsung Pay work?** Samsung Pay uses Near Field Communication (NFC) to make contactless mobile payments. **How do I make in-store purchases with Samsung Pay?** - Start by either swiping-up from the home button or opening the Samsung Pay app from your home screen. - Next, select the card you want to pay with. - You can authenticate by IRIS (available on selected phones), fingerprint or pin. - Hover your phone about 2-4 cm over the card reader where you'd usually tap your physical card to complete the transaction. https://www.samsung.com/uk/samsung-pay/faq/ Near Field Communication (NFC) technology allows users to make secure transactions, exchange digital content, and connect electronic devices with a touch. NFC transmissions are short range (from a touch to a few centimetres) and require the devices to be in close proximity. NFC is the technology in contactless cards, and the most common use of NFC technology in your smartphone is making easy payments with Samsung Pay. NFC can also be used to quickly connect with wireless devices and transfer data with Android Beam. https://www.samsung.com/uk/support/mobile-devices/what-is-nfc-and-how-do-i-use-it/

Claim	Exemplary Infringement Analysis[1]
	Q. What do I need to start using Samsung Pay? A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

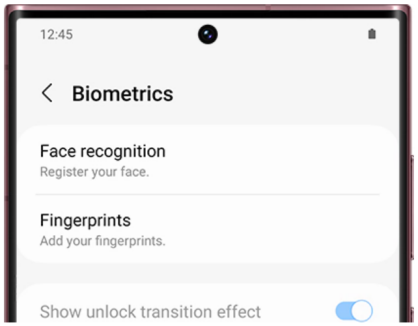
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

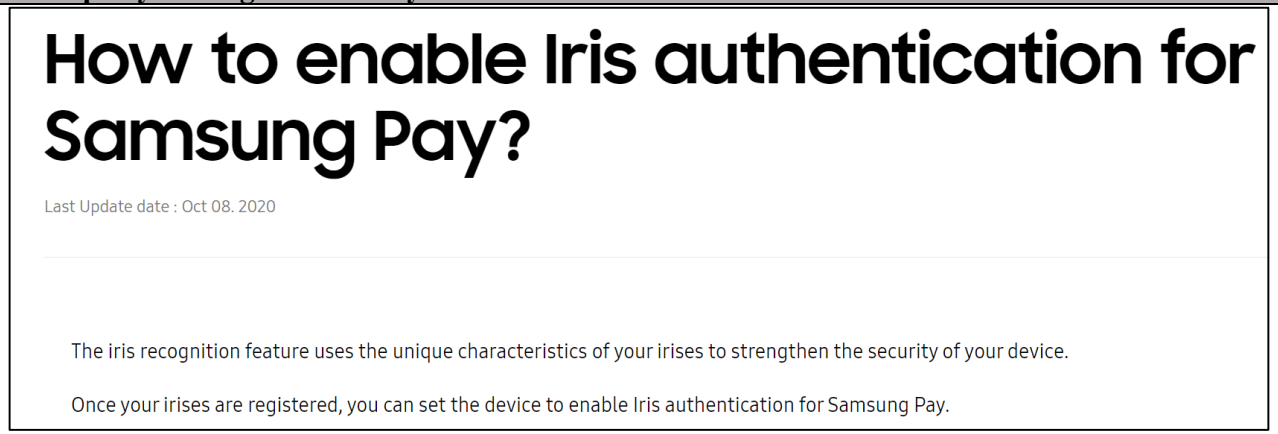
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

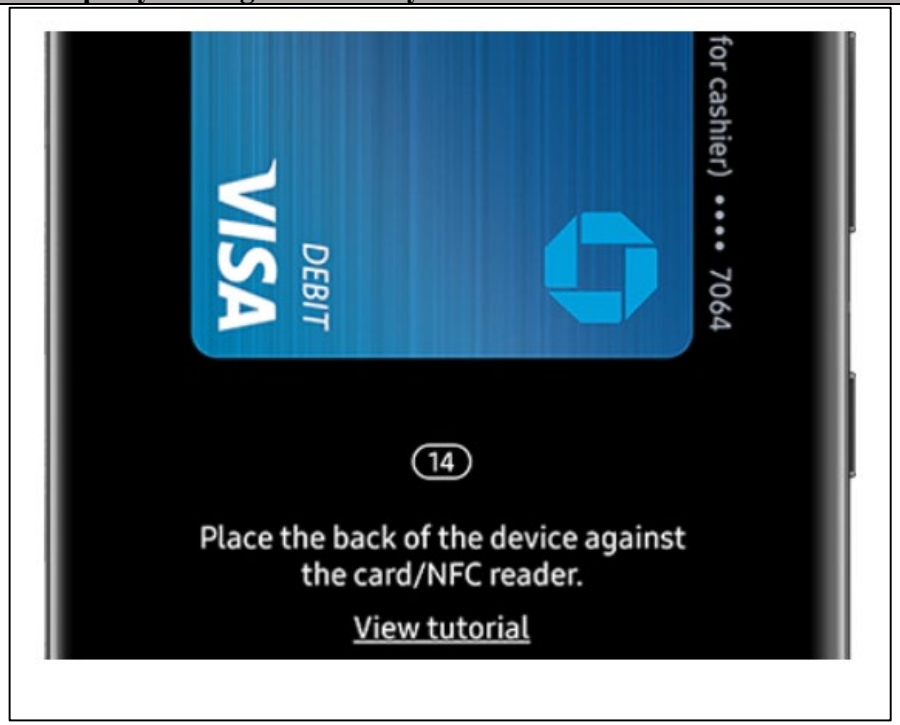
Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS00045102/

Claim	Exemplary Infringement Analysis[1]
	Where you can use Google Wallet **Important:** To make contactless payments, Near Field Communication (NFC) must be on. To turn on NFC, check your phone settings app. To use tap to pay on Pixel Fold or another foldable device, fold your device. You can pay with Google Wallet wherever you find the contactless or Google Pay symbols. They're located on the payment terminal screen or cash register at checkout. You can buy items with your phone or pay for transit on trains and buses on contactless terminals with either of these logos:   *Google Pay symbol* *Contactless symbol* https://support.google.com/wallet/answer/12060043?hl=en

Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]

Pay in a store

Step 1: Wake up & unlock your phone

Important: For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions.

Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app.

Tip: In most countries or regions, smaller transactions don't require you to unlock your phone.

Step 2: Hold the back of your phone to the payment reader

When you're done paying, a blue check mark appears on the screen.

If the check mark isn't on your screen:

- Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device.
- Hold your phone closer to the payment reader.
- Hold your phone to the payment reader for a few extra seconds.

If there's a check mark but the cashier says that the payment didn't work:

- Double-check if the store accepts mobile payments.
- Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged.

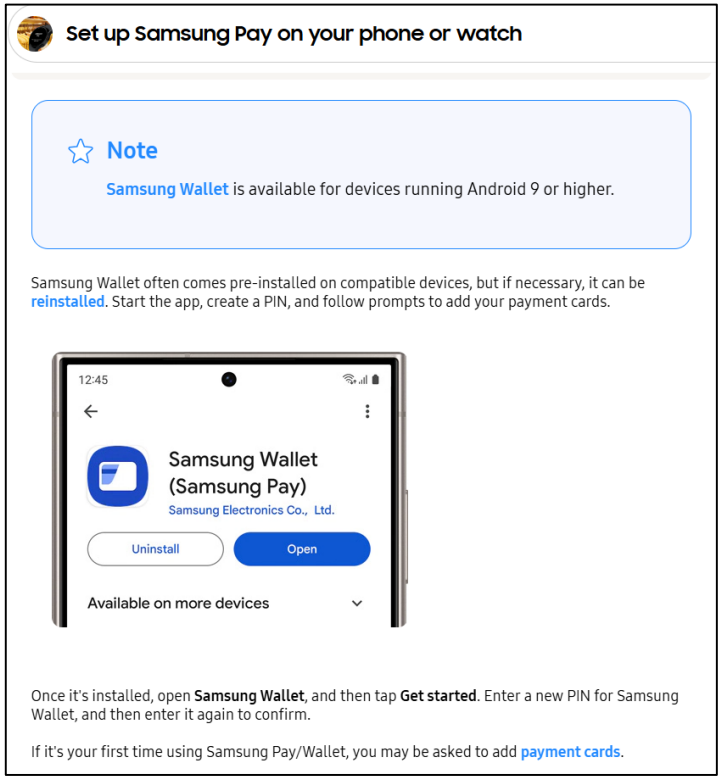
Step 3: If prompted, follow the on-screen instructions

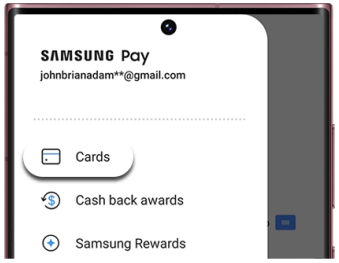
Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen.

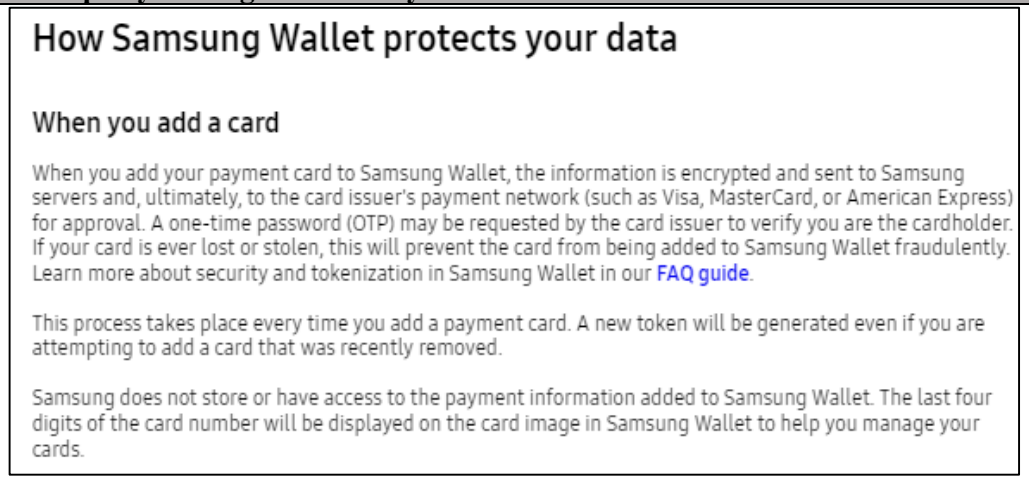
- **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device.
- **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box.

https://support.google.com/wallet/answer/12060043?hl=en#

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[5.] The method of claim 3, further comprising: enabling at the second device a function for conducting the financial transaction.	The Accused Products perform a method including "enabling at the second device a function for conducting the financial transaction." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, using a Samsung smartphone to conduct a financial transaction via Samsung Pay and/or Google Pay includes enabling at the base station (the second device) a confirmation that Samsung Pay and/or Google Pay has been established on the Samsung smartphone (a function for conducting the financial transaction).  https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 How Samsung Wallet protects your data When you add a card When you add your payment card to Samsung Wallet, the information is encrypted and sent to Samsung servers and, ultimately, to the card issuer's payment network (such as Visa, MasterCard, or American Express) for approval. A one-time password (OTP) may be requested by the card issuer to verify you are the cardholder. If your card is ever lost or stolen, this will prevent the card from being added to Samsung Wallet fraudulently. Learn more about security and tokenization in Samsung Wallet in our FAQ guide. This process takes place every time you add a payment card. A new token will be generated even if you are attempting to add a card that was recently removed. Samsung does not store or have access to the payment information added to Samsung Wallet. The last four digits of the card number will be displayed on the card image in Samsung Wallet to help you manage your cards. https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]

If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps:

1. Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card.

   You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card.

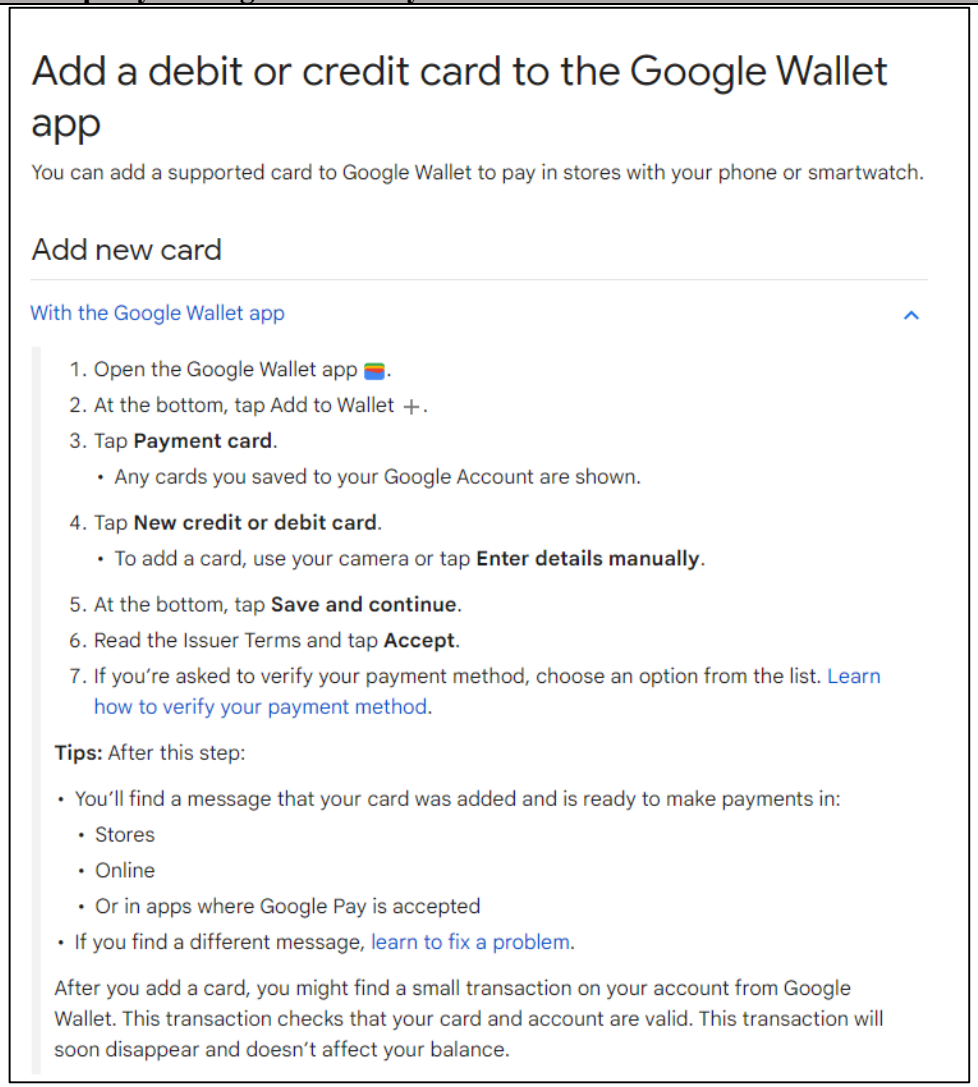
   Please note: The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct.

2. Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up.

3. You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen.

https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]



Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

1. Open the Google Wallet app.
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

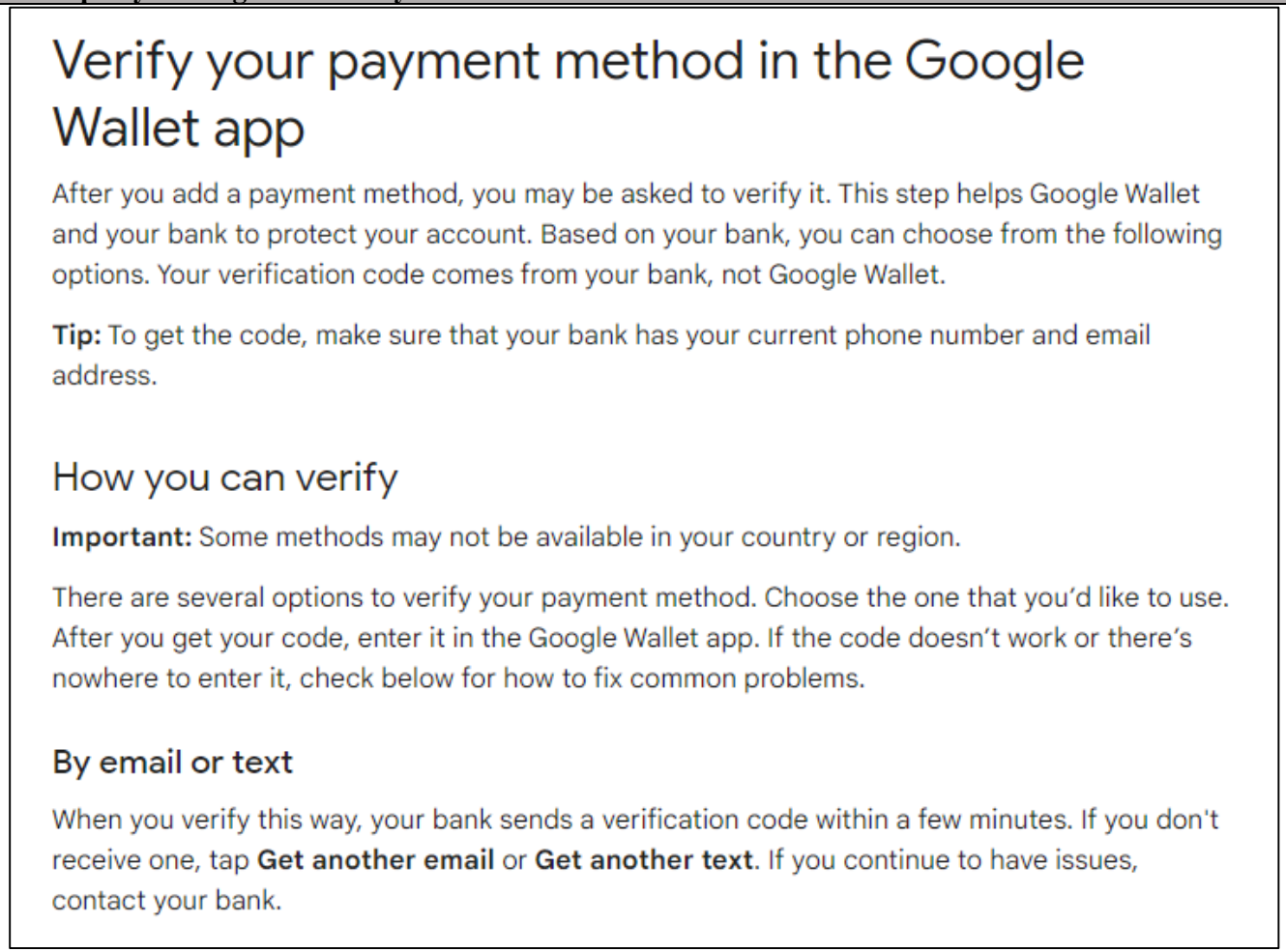
Tips: After this step:

- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

Claim	Exemplary Infringement Analysis[1]



Verify your payment method in the Google Wallet app

After you add a payment method, you may be asked to verify it. This step helps Google Wallet and your bank to protect your account. Based on your bank, you can choose from the following options. Your verification code comes from your bank, not Google Wallet.

Tip: To get the code, make sure that your bank has your current phone number and email address.

How you can verify

Important: Some methods may not be available in your country or region.

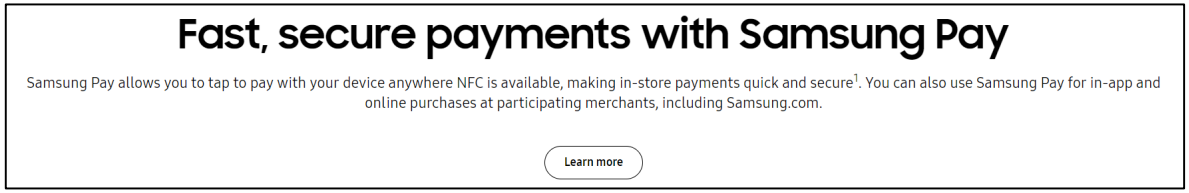
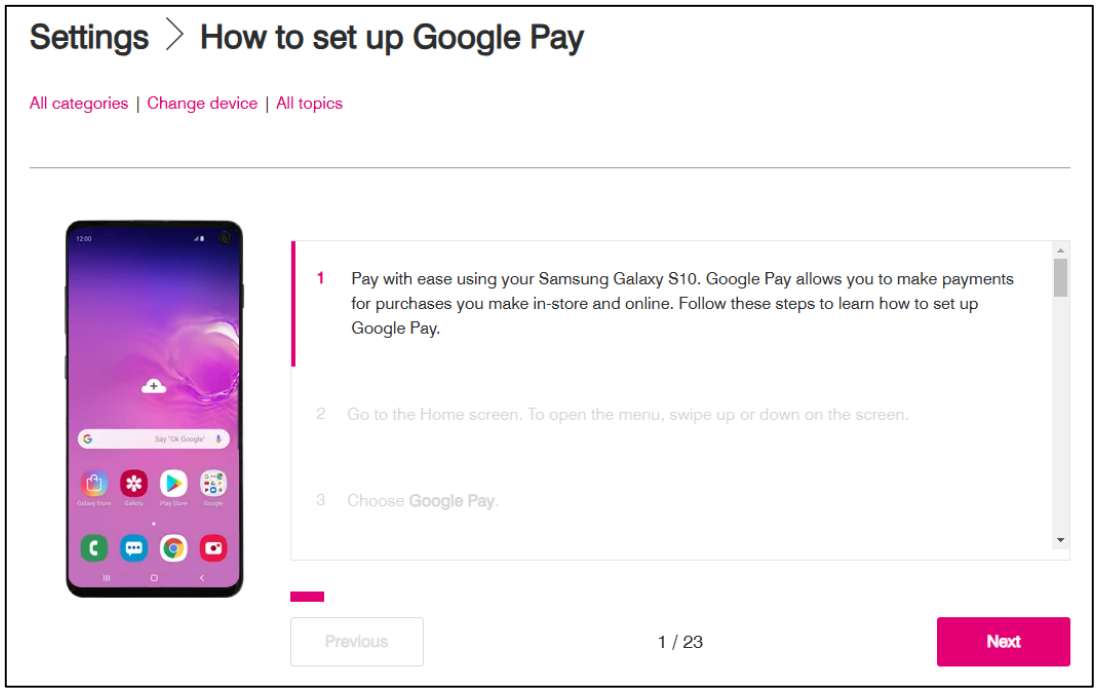
There are several options to verify your payment method. Choose the one that you'd like to use. After you get your code, enter it in the Google Wallet app. If the code doesn't work or there's nowhere to enter it, check below for how to fix common problems.

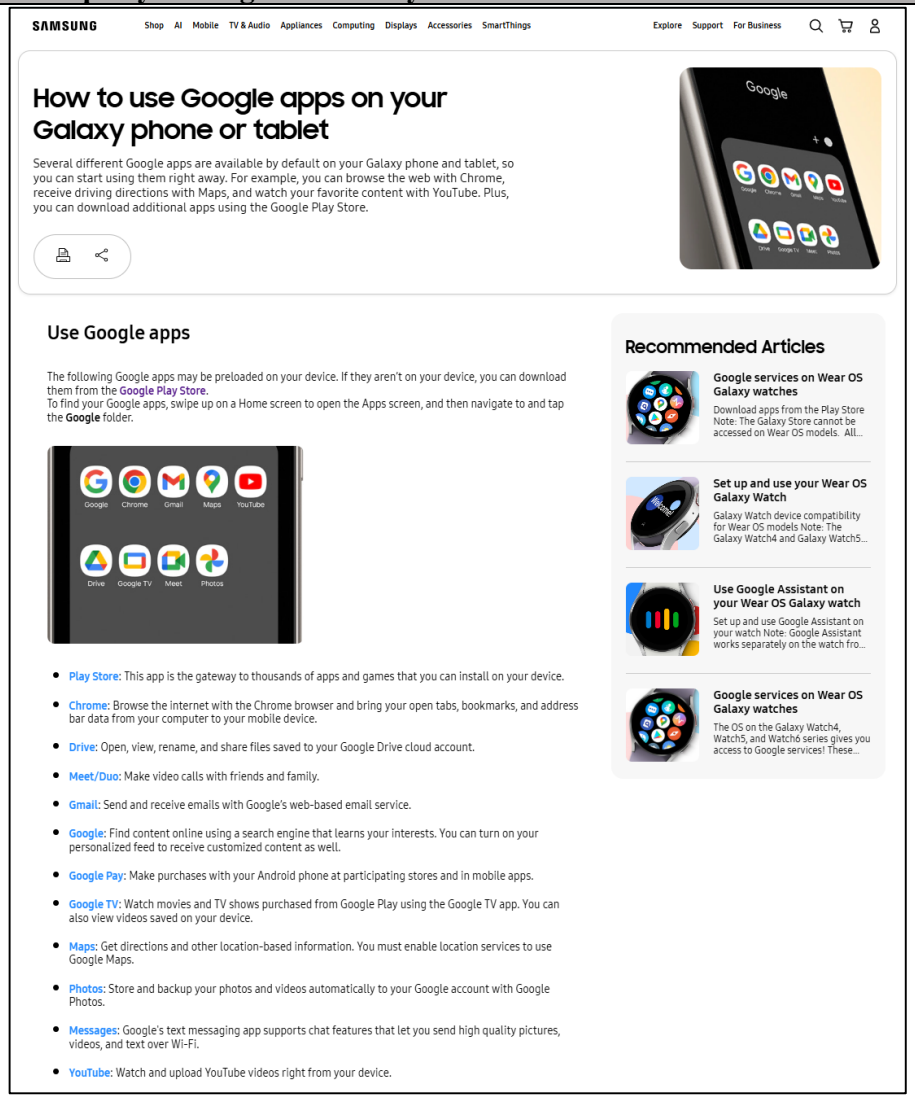
By email or text

When you verify this way, your bank sends a verification code within a few minutes. If you don't receive one, tap **Get another email** or **Get another text**. If you continue to have issues, contact your bank.

https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[6.p.] A device that is configured to perform operations comprising:	Each of the Accused Products is a "device that is configured to perform operations." For example, operating a Samsung-branded smartphone to conduct a transaction via Samsung Pay and/or Google Pay satisfies claim 6.  https://www.samsung.com/us/apps/samsung-wallet/  https://www.t-mobile.com/support/tutorials/device/samsung/galaxy-s10/topic/settings/how-to-set-up-google-pay

Claim	Exemplary Infringement Analysis[1]
	

SAMSUNG Shop AI Mobile TV & Audio Appliances Computing Displays Accessories SmartThings Explore Support For Business

How to use Google apps on your Galaxy phone or tablet

Several different Google apps are available by default on your Galaxy phone and tablet, so you can start using them right away. For example, you can browse the web with Chrome, receive driving directions with Maps, and watch your favorite content with YouTube. Plus, you can download additional apps using the Google Play Store.

Use Google apps

The following Google apps may be preloaded on your device. If they aren't on your device, you can download them from the Google Play Store.
To find your Google apps, swipe up on a Home screen to open the Apps screen, and then navigate to and tap the **Google** folder.

- Play Store: This app is the gateway to thousands of apps and games that you can install on your device.
- Chrome: Browse the internet with the Chrome browser and bring your open tabs, bookmarks, and address bar data from your computer to your mobile device.
- Drive: Open, view, rename, and share files saved to your Google Drive cloud account.
- Meet/Duo: Make video calls with friends and family.
- Gmail: Send and receive emails with Google's web-based email service.
- Google: Find content online using a search engine that learns your interests. You can turn on your personalized feed to receive customized content as well.
- Google Pay: Make purchases with your Android phone at participating stores and in mobile apps.
- Google TV: Watch movies and TV shows purchased from Google Play using the Google TV app. You can also view videos saved on your device.
- Maps: Get directions and other location-based information. You must enable location services to use Google Maps.
- Photos: Store and backup your photos and videos automatically to your Google account with Google Photos.
- Messages: Google's text messaging app supports chat features that let you send high quality pictures, videos, and text over Wi-Fi.
- YouTube: Watch and upload YouTube videos right from your device.

Recommended Articles

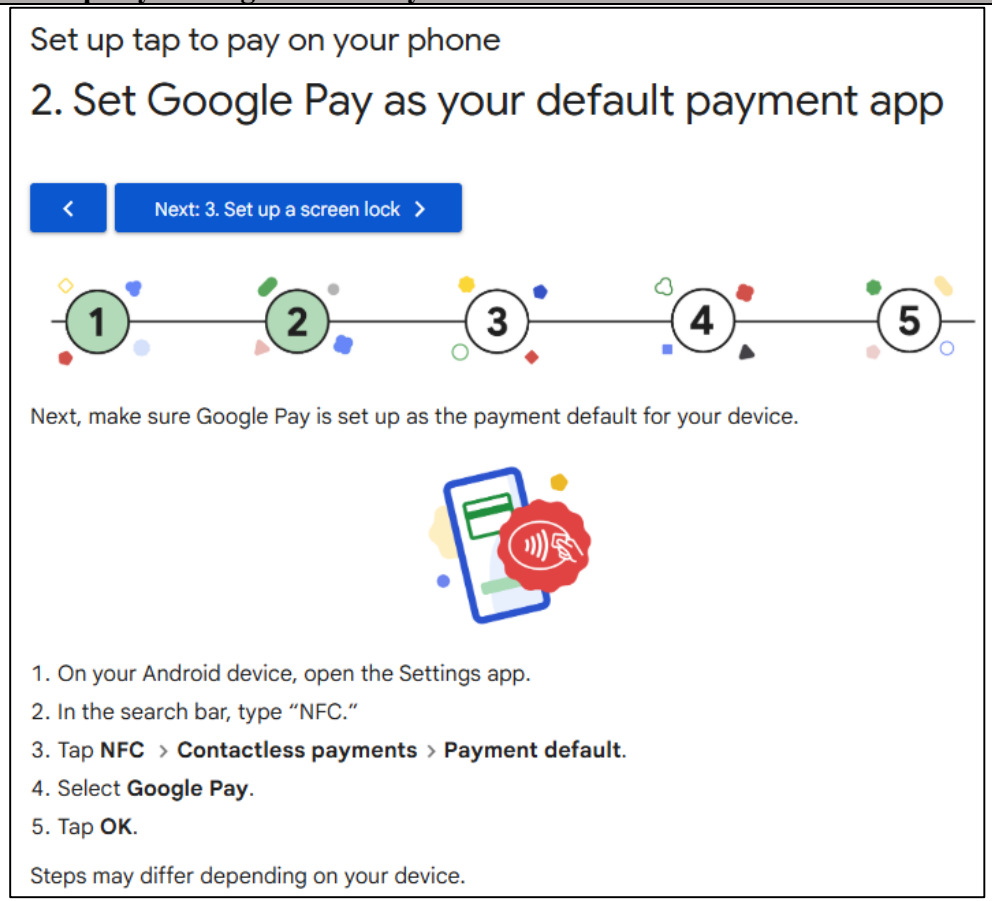
Google services on Wear OS Galaxy watches
Download apps from the Play Store Note: The Galaxy Store cannot be accessed on Wear OS models. All...

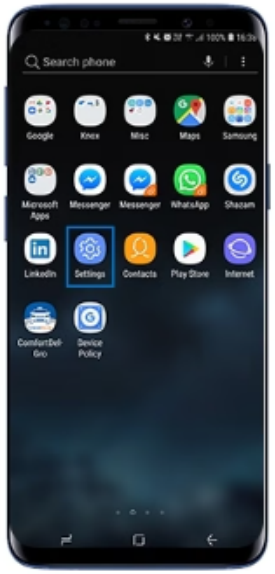
Set up and use your Wear OS Galaxy Watch
Galaxy Watch device compatibility for Wear OS models Note: The Galaxy Watch4 and Galaxy Watch5...

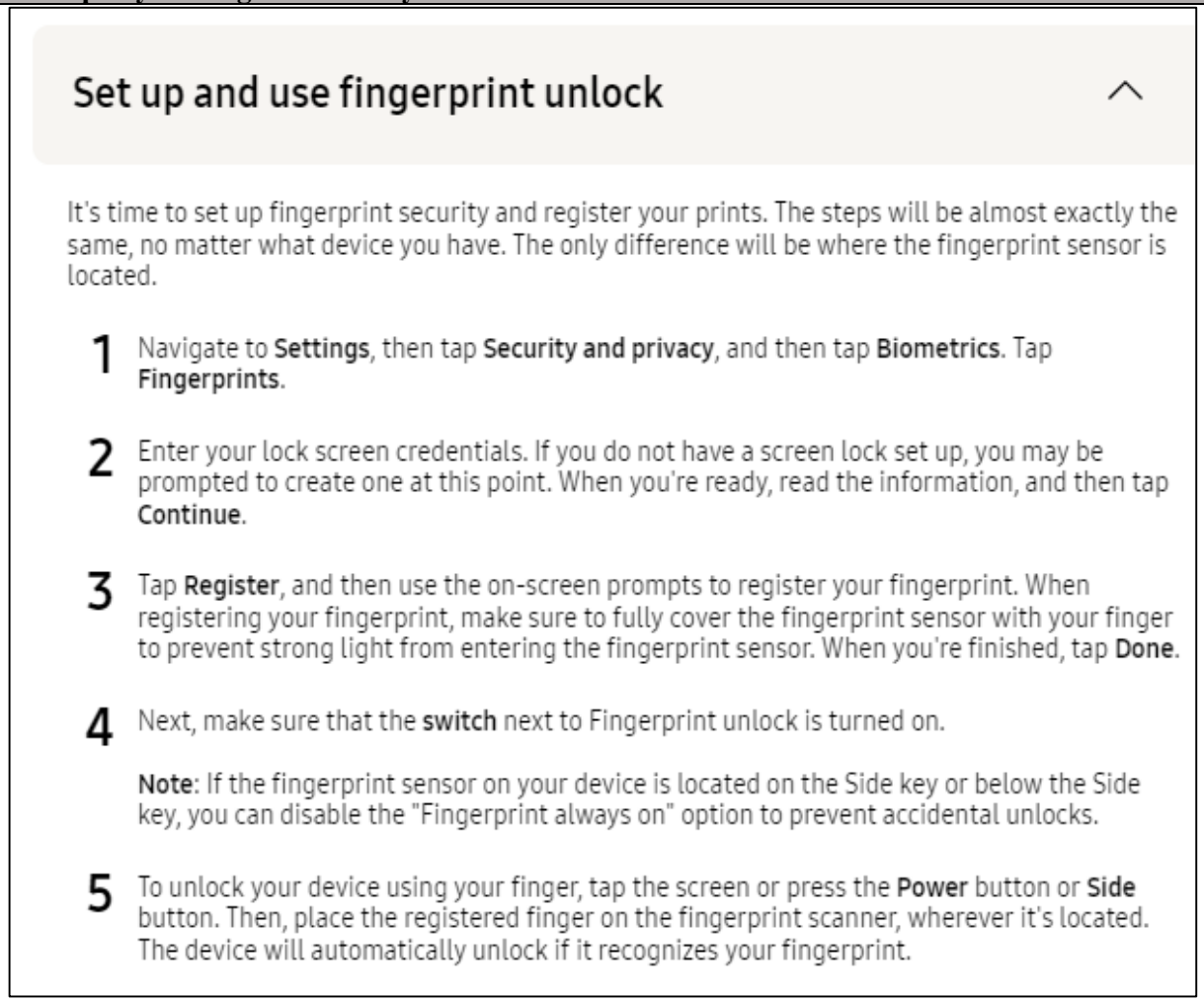
Use Google Assistant on your Wear OS Galaxy watch
Set up and use Google Assistant on your watch Note: Google Assistant works separately on the watch fro...

Google services on Wear OS Galaxy watches
The OS on the Galaxy Watch4, Watch5, and Watch6 series gives you access to Google services! These...

https://www.samsung.com/us/support/answer/ANS10002548/

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/14187052?sjid=3604572701579461674-NA Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[6.a.] sensing by the device, using a	The Accused Products are configured to perform operations including "sensing by the device, using a device-based sensor, a parameter that is associated with the device, an environment of the device and/or a user of the device."

Claim	Exemplary Infringement Analysis[1]
device-based sensor, a parameter that is associated with the device, an environment of the device and/or a user of the device;	On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including sensing by the device, using a device-based sensor such as facial recognition, a fingerprint, or iris scanner, a parameter that is associated with the device, an environment of the device and/or a user of the device. Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

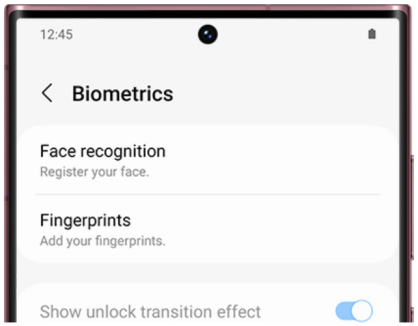
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



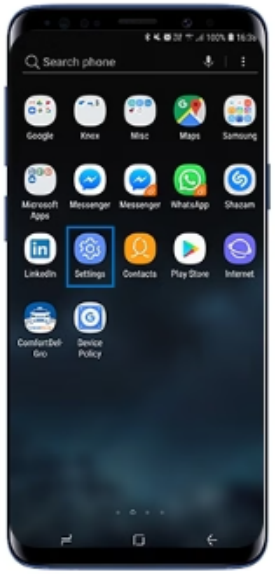
https://www.samsung.com/us/support/answer/ANS00062630/

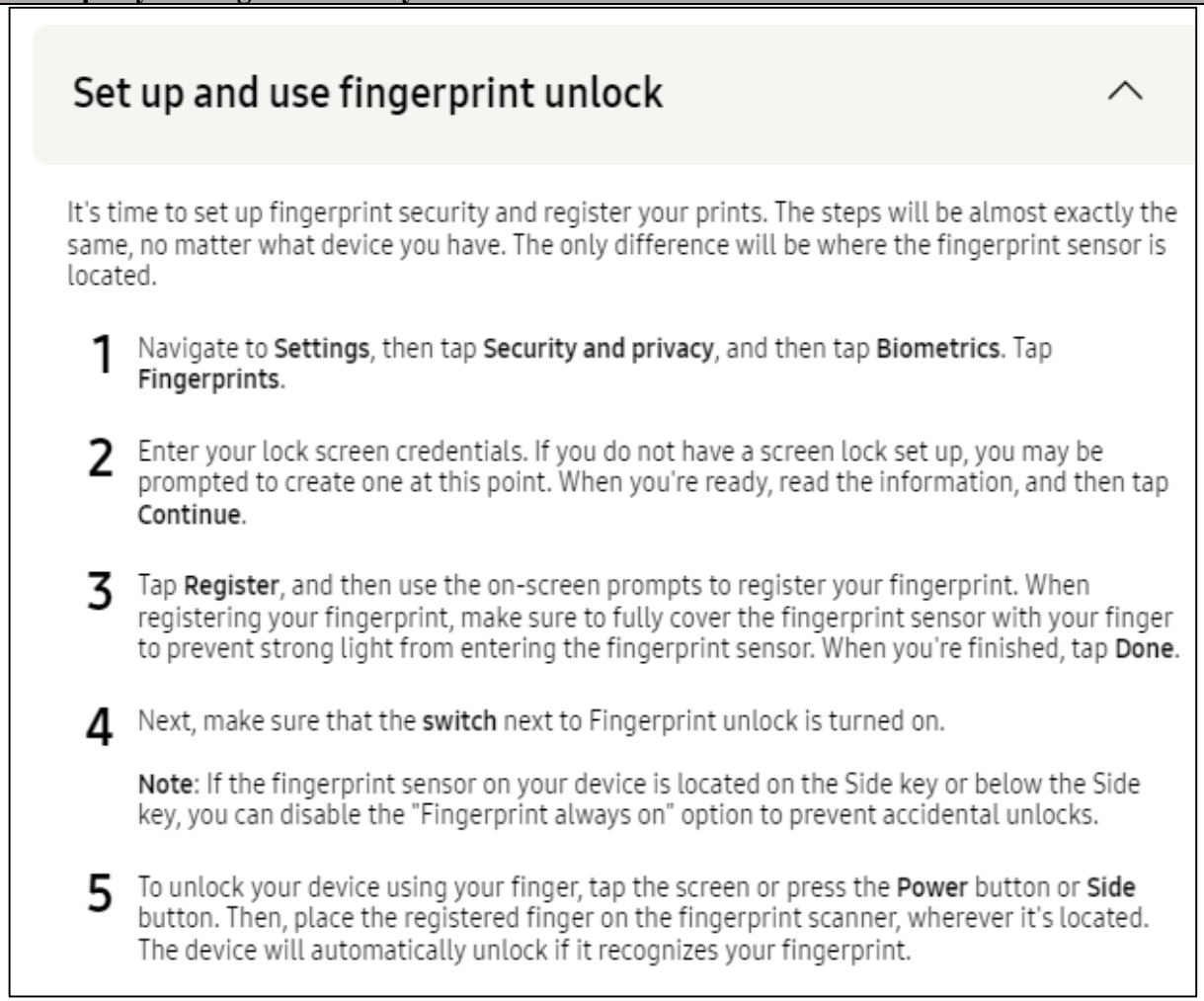
Claim	Exemplary Infringement Analysis[1]
	How to enable Iris authentication for Samsung Pay? Last Update date : Oct 08. 2020 The iris recognition feature uses the unique characteristics of your irises to strengthen the security of your device. Once your irises are registered, you can set the device to enable Iris authentication for Samsung Pay. https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/ **Q.** Which devices will support iris image authentication for Samsung Pay? **A.** Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]
	Pay in a store **Step 1: Wake up & unlock your phone** **Important:** For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions. Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app. **Tip:** In most countries or regions, smaller transactions don't require you to unlock your phone. **Step 2: Hold the back of your phone to the payment reader** When you're done paying, a blue check mark appears on the screen. If the check mark isn't on your screen: • Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device. • Hold your phone closer to the payment reader. • Hold your phone to the payment reader for a few extra seconds. If there's a check mark but the cashier says that the payment didn't work: • Double-check if the store accepts mobile payments. • Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged. **Step 3: If prompted, follow the on-screen instructions** Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen. • **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device. • **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box. https://support.google.com/wallet/answer/12060043?hl=en# Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[6.b.] determining by the device a value of	The Accused Products are configured to perform operations including "determining by the device a value of the parameter that is sensed."

Claim	Exemplary Infringement Analysis[1]
the parameter that is sensed; and	On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including determining by the device a value of the parameter, such as a facial recognition, fingerprint, or iris, that is sensed. **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ **Q.** What do I need to start using Samsung Pay? **A.** To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay **Q.** Which devices will support iris image authentication for Samsung Pay? **A.** Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

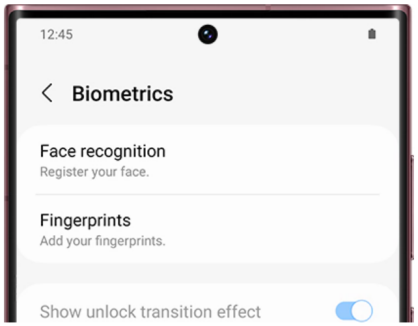
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

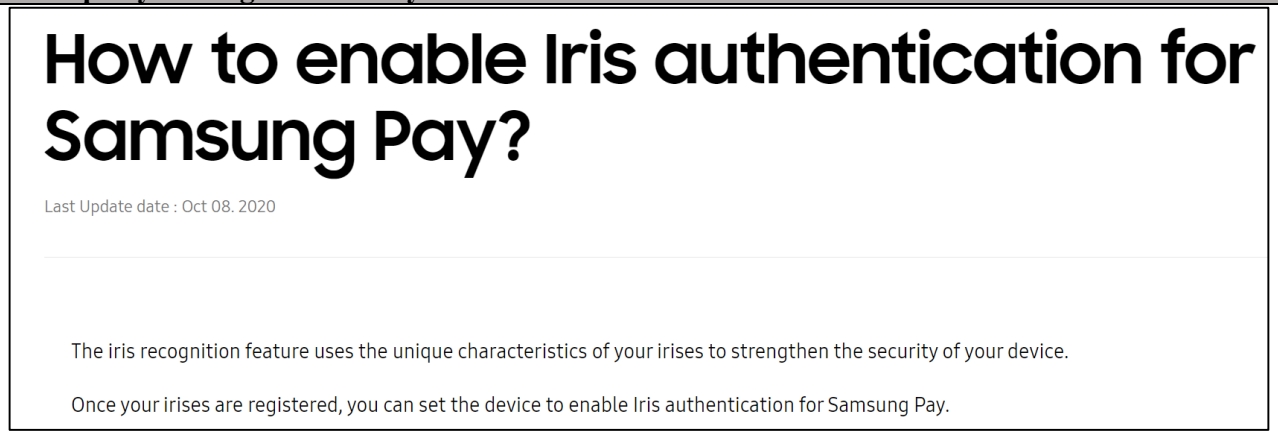
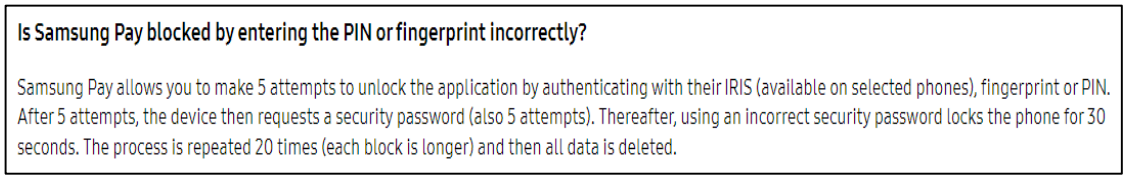
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]

Hello,

Welcome to the Google Wallet community.

Set up screen lock for tap to pay transactions

Important: Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment.

To make contactless payments with Google Wallet, you must use a screen lock on your device for your security.

You can unlock Google Wallet with several methods:

- PIN
- Pattern
- Password
- Fingerprint
- Iris scan
- 3D face unlock

Tip: Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock.

Set or change a screen lock

1. Open your phone Settings app.
2. Tap **Security**.
    - If you don't find "Security," you can get help at your phone manufacturer support site.
3. Tap **Screen lock**.
    - If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one.
4. Tap the option you'd like to use. Follow the on-screen instructions.

https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]

Pay in a store

Step 1: Wake up & unlock your phone

Important: For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions.

Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app.

Tip: In most countries or regions, smaller transactions don't require you to unlock your phone.

Step 2: Hold the back of your phone to the payment reader

When you're done paying, a blue check mark appears on the screen.

If the check mark isn't on your screen:

- Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device.
- Hold your phone closer to the payment reader.
- Hold your phone to the payment reader for a few extra seconds.

If there's a check mark but the cashier says that the payment didn't work:

- Double-check if the store accepts mobile payments.
- Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged.

Step 3: If prompted, follow the on-screen instructions

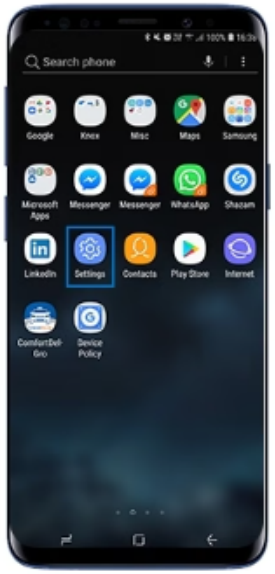
Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen.

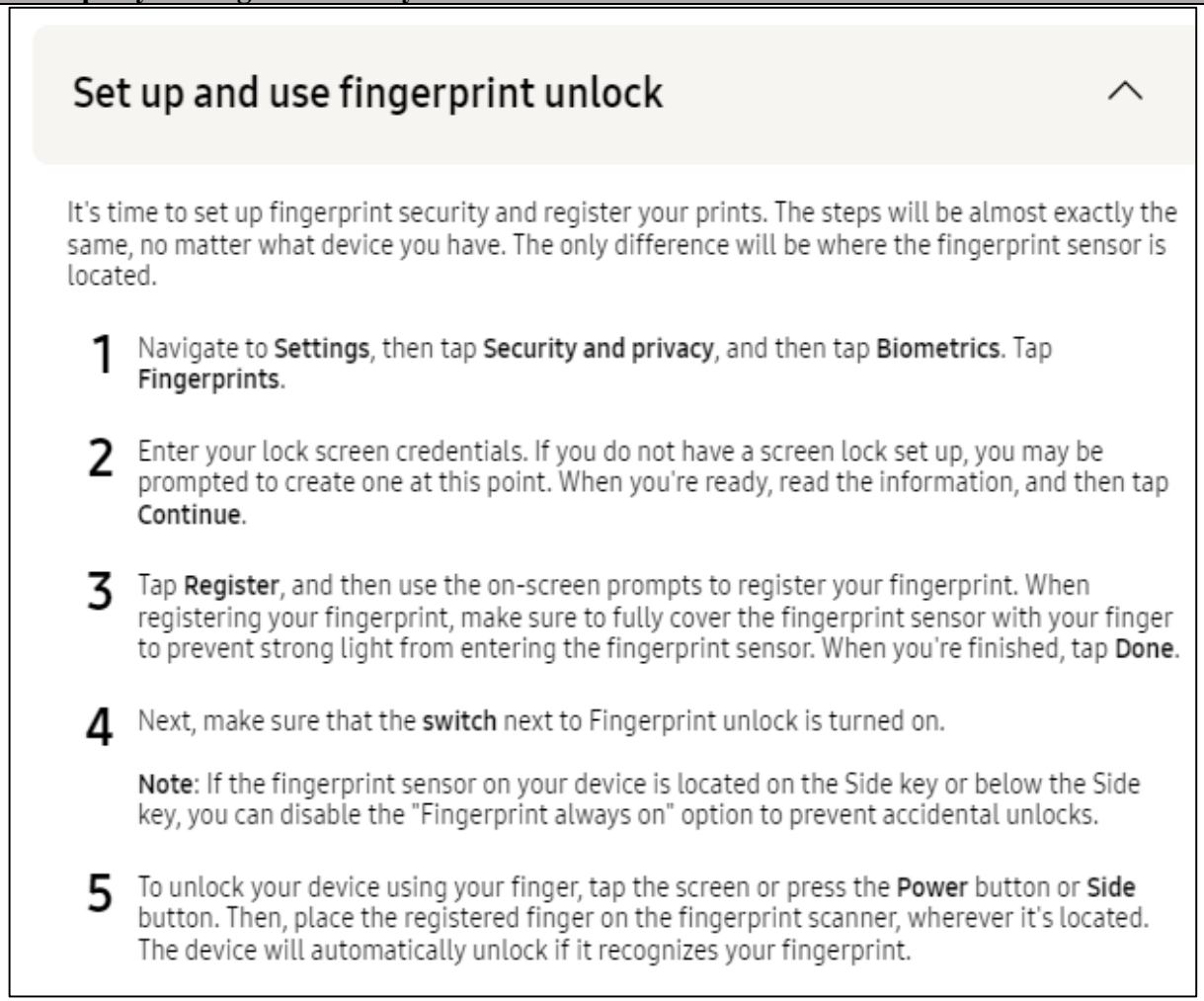
- **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device.
- **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box.

https://support.google.com/wallet/answer/12060043?hl=en#

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[6.c.] responsive to the value that is determined by the device for the parameter that is sensed satisfying a threshold criterion, enabling by the device a number of functions of the device and disabling by the device a function of the device;	The Accused Products are configured to perform operations including, "responsive to the value that is determined by the device for the parameter that is sensed satisfying a threshold criterion, enabling by the device a number of functions of the device and disabling by the device a function of the device." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including, responsive to the value that is determined by the Samsung smartphone for the parameter that is sensed satisfying a threshold criterion, such as facial recognition, a fingerprint, or iris recognition, enabling a number of functions of the smartphone, such as unlocking the smartphone or an application, and disabling a function of the device, such as disabling the lock function. **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ Q. What do I need to start using Samsung Pay? A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay

Claim	Exemplary Infringement Analysis[1]
	Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/ Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 Set up and use fingerprint unlock It's time to set up fingerprint security and register your prints. The steps will be almost exactly the same, no matter what device you have. The only difference will be where the fingerprint sensor is located. 1 Navigate to **Settings**, then tap **Security and privacy**, and then tap **Biometrics**. Tap **Fingerprints**. 2 Enter your lock screen credentials. If you do not have a screen lock set up, you may be prompted to create one at this point. When you're ready, read the information, and then tap **Continue**. 3 Tap **Register**, and then use the on-screen prompts to register your fingerprint. When registering your fingerprint, make sure to fully cover the fingerprint sensor with your finger to prevent strong light from entering the fingerprint sensor. When you're finished, tap **Done**. 4 Next, make sure that the **switch** next to Fingerprint unlock is turned on. **Note**: If the fingerprint sensor on your device is located on the Side key or below the Side key, you can disable the "Fingerprint always on" option to prevent accidental unlocks. 5 To unlock your device using your finger, tap the screen or press the **Power** button or **Side** button. Then, place the registered finger on the fingerprint scanner, wherever it's located. The device will automatically unlock if it recognizes your fingerprint. https://www.samsung.com/us/support/answer/ANS10001613/

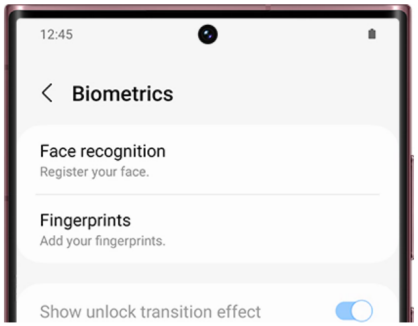
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

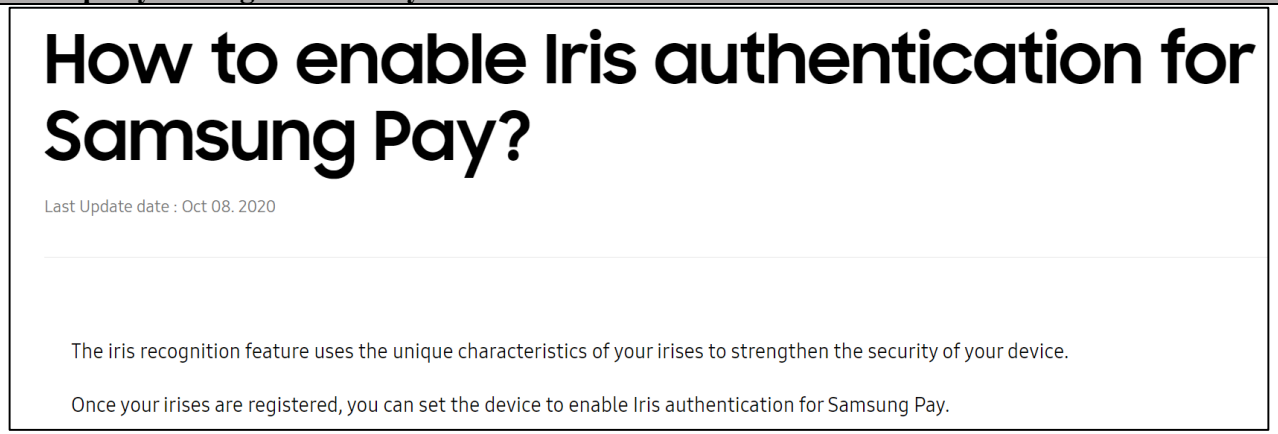
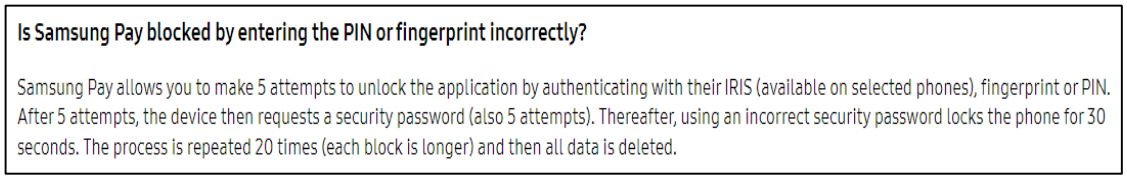
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]

Hello,

Welcome to the Google Wallet community.

Set up screen lock for tap to pay transactions

Important: Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment.

To make contactless payments with Google Wallet, you must use a screen lock on your device for your security.

You can unlock Google Wallet with several methods:

- PIN
- Pattern
- Password
- Fingerprint
- Iris scan
- 3D face unlock

Tip: Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock.

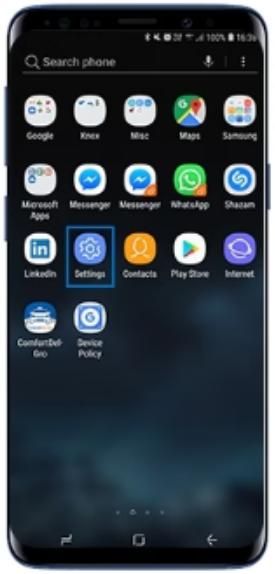
Set or change a screen lock

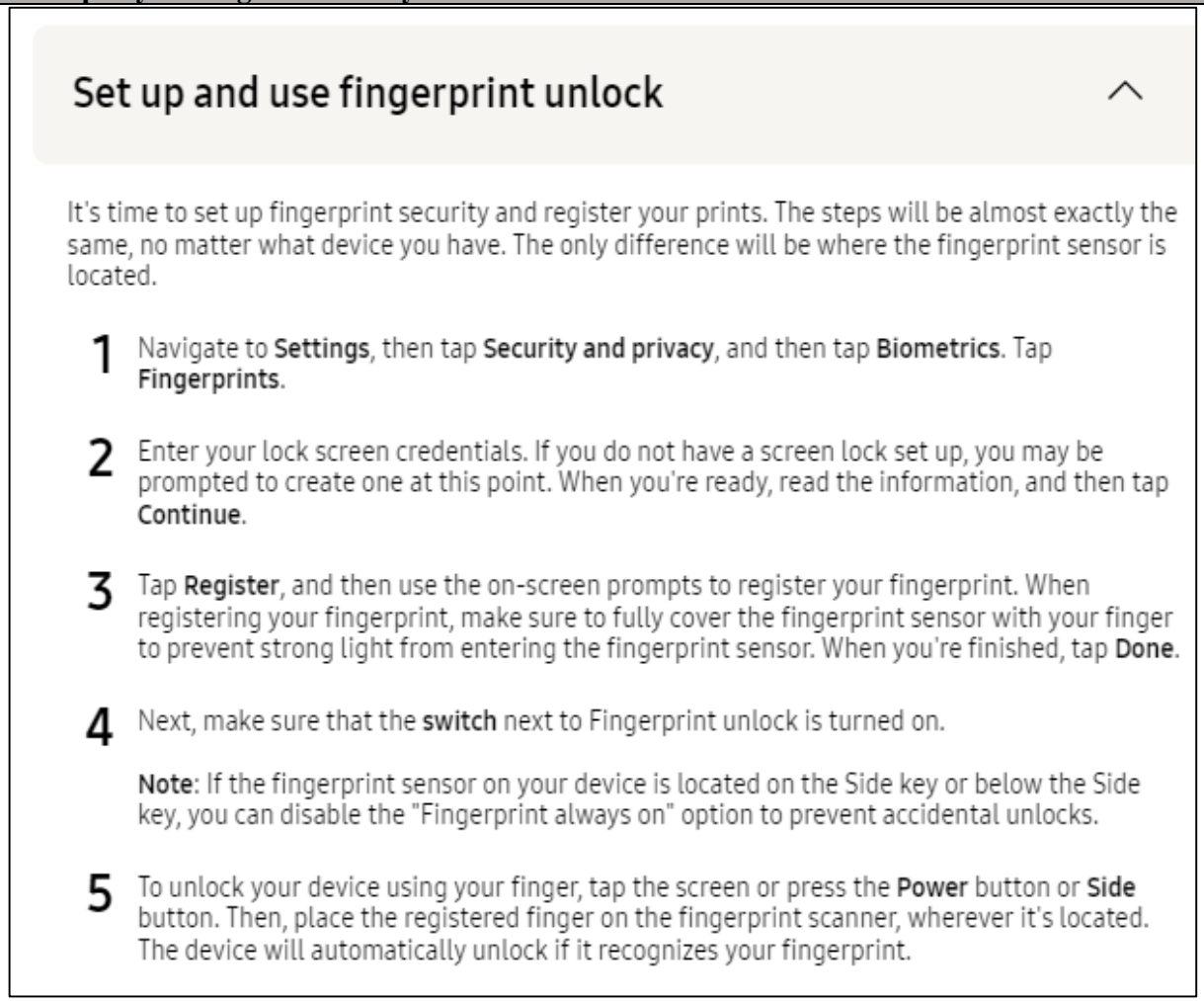
1. Open your phone Settings app.
2. Tap **Security**.
    - If you don't find "Security," you can get help at your phone manufacturer support site.
3. Tap **Screen lock**.
    - If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one.
4. Tap the option you'd like to use. Follow the on-screen instructions.

https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]
	Pay in a store **Step 1: Wake up & unlock your phone** **Important:** For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions. Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app. **Tip:** In most countries or regions, smaller transactions don't require you to unlock your phone. **Step 2: Hold the back of your phone to the payment reader** When you're done paying, a blue check mark appears on the screen. If the check mark isn't on your screen: • Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device. • Hold your phone closer to the payment reader. • Hold your phone to the payment reader for a few extra seconds. If there's a check mark but the cashier says that the payment didn't work: • Double-check if the store accepts mobile payments. • Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged. **Step 3: If prompted, follow the on-screen instructions** Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen. • **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device. • **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box. https://support.google.com/wallet/answer/12060043?hl=en# Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[6.d.] wherein the parameter that is	The Accused Products are configured to perform operations including, "wherein the parameter that is sensed using the device-based sensor, comprises a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a

Claim	Exemplary Infringement Analysis[1]
sensed using the device-based sensor, comprises a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state; and	level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, the parameter that is sensed using the Samsung smartphone's device-based sensor includes a physiological state via facial recognition, a fingerprint, or iris recognition. **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ Q. What do I need to start using Samsung Pay? A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

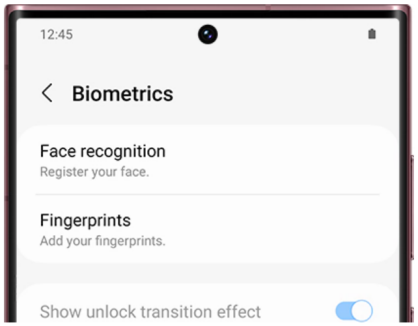
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

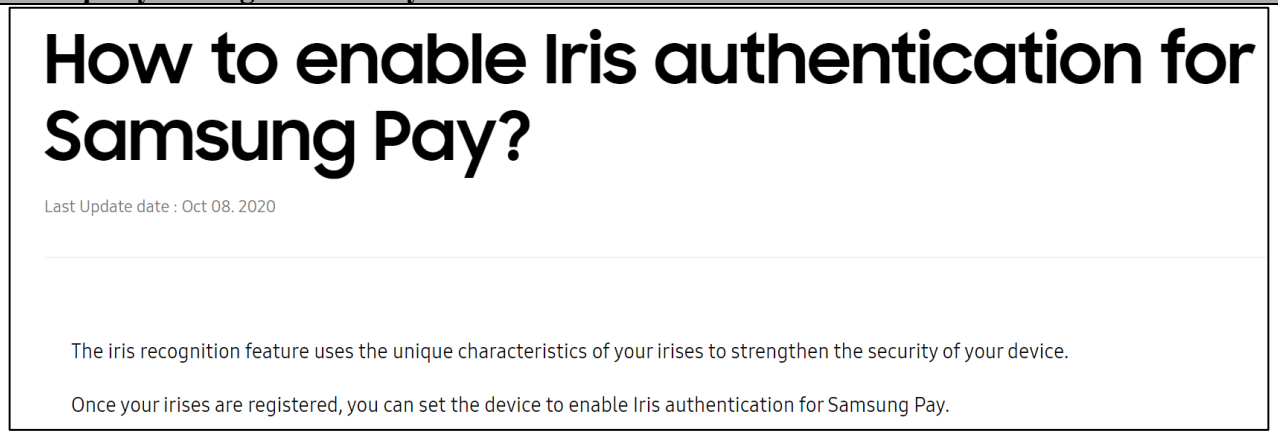
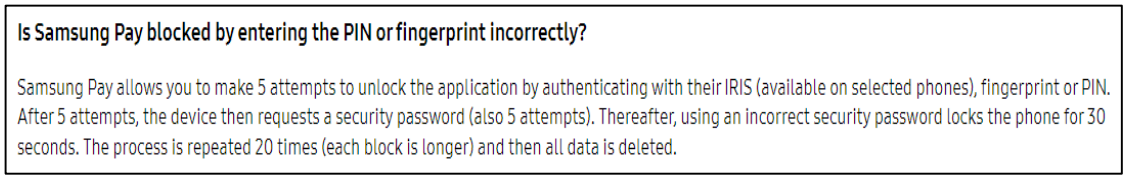
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]

Hello,

Welcome to the Google Wallet community.

Set up screen lock for tap to pay transactions

Important: Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment.

To make contactless payments with Google Wallet, you must use a screen lock on your device for your security.

You can unlock Google Wallet with several methods:

- PIN
- Pattern
- Password
- Fingerprint
- Iris scan
- 3D face unlock

Tip: Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock.

Set or change a screen lock

1. Open your phone Settings app.
2. Tap **Security**.
    - If you don't find "Security," you can get help at your phone manufacturer support site.
3. Tap **Screen lock**.
    - If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one.
4. Tap the option you'd like to use. Follow the on-screen instructions.

https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]

Pay in a store

Step 1: Wake up & unlock your phone

Important: For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions.

Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app.

Tip: In most countries or regions, smaller transactions don't require you to unlock your phone.

Step 2: Hold the back of your phone to the payment reader

When you're done paying, a blue check mark appears on the screen.

If the check mark isn't on your screen:

- Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device.
- Hold your phone closer to the payment reader.
- Hold your phone to the payment reader for a few extra seconds.

If there's a check mark but the cashier says that the payment didn't work:

- Double-check if the store accepts mobile payments.
- Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged.

Step 3: If prompted, follow the on-screen instructions

Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen.

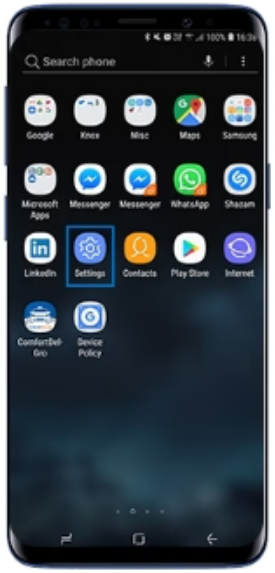
- **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device.
- **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box.

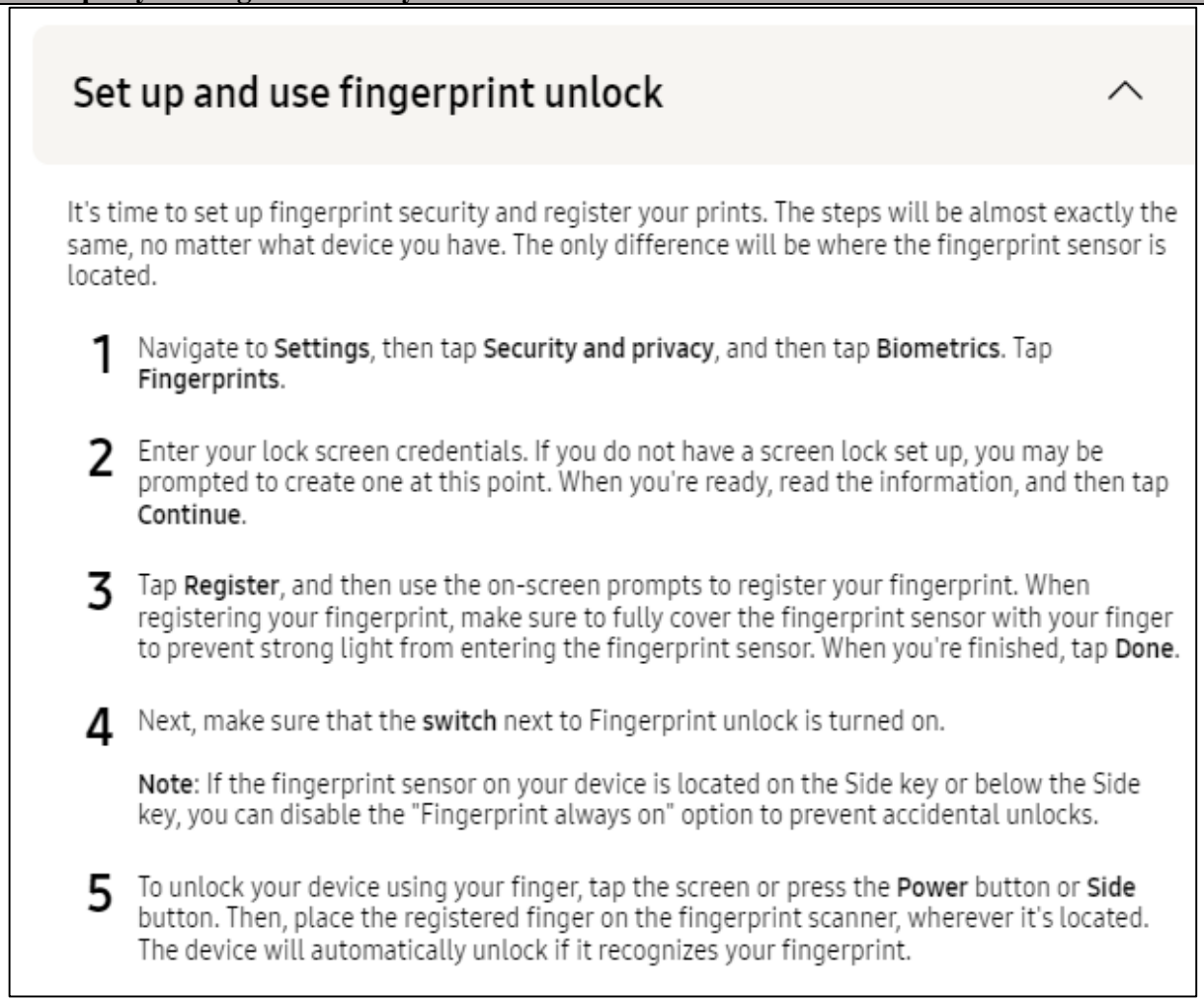
https://support.google.com/wallet/answer/12060043?hl=en#

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[6.e.] wherein the device comprises a smartphone.	The Accused Products are configured to perform operations including "wherein the device comprises a smartphone." For example, Samsung-branded smartphones capable of using Samsung Pay and/or Google Pay are smartphones. **Galaxy Z Series** Galaxy Z Fold6 | Z Flip6 Galaxy Z Fold5 | Z Flip5 Galaxy Z Fold4 | Z Flip4 Galaxy Z Fold3 | Z Flip3 5G Galaxy Z Fold2 5G* Galaxy Z Flip* Galaxy Fold* **Galaxy Note Series** Galaxy Note20 | Note20 Ultra 5G* Galaxy Note10 Lite Galaxy Note10 | Note10+* Galaxy Note9* Galaxy Note8* Galaxy Note Fan Edition* Galaxy Note5* **Galaxy S Series** Galaxy S24 | S24+ | S24 Ultra Galaxy S23 FE 5G Galaxy S23 | S23+ | S23 Ultra 5G Galaxy S22 | S22+ | S22 Ultra 5G Galaxy S21 FE 5G Galaxy S21 | S21+ | S21 Ultra 5G Galaxy S20 FE | S20 FE 5G Galaxy S20 | S20+ | S20 Ultra* Galaxy S10 Lite Galaxy S10e | S10 | S10+* Galaxy S9 | S9+* Galaxy S8 | S8+* Galaxy S7 edge | S7* Galaxy S6 edge+* *See* https://www.samsung.com/my/samsung-pay/supported-devices/

Claim	Exemplary Infringement Analysis[1]
	Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[7.] The device of claim 6, wherein said enabling by the device a number of functions of the device comprises enabling by the device a number of functions of the device that is greater than or equal to one.	The Accused Products are configured to perform operations including "wherein said enabling by the device a number of functions of the device comprises enabling by the device a number of functions of the device that is greater than or equal to one." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including enabling a number of functions of the Samsung smartphone that is greater than or equal to one, including unlocking the Samsung smartphone or an application. **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ Q. What do I need to start using Samsung Pay? A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay

Claim	Exemplary Infringement Analysis[1]
	Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/ Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

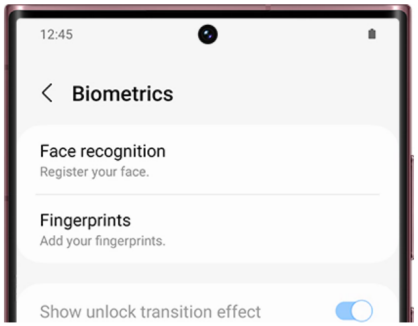
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

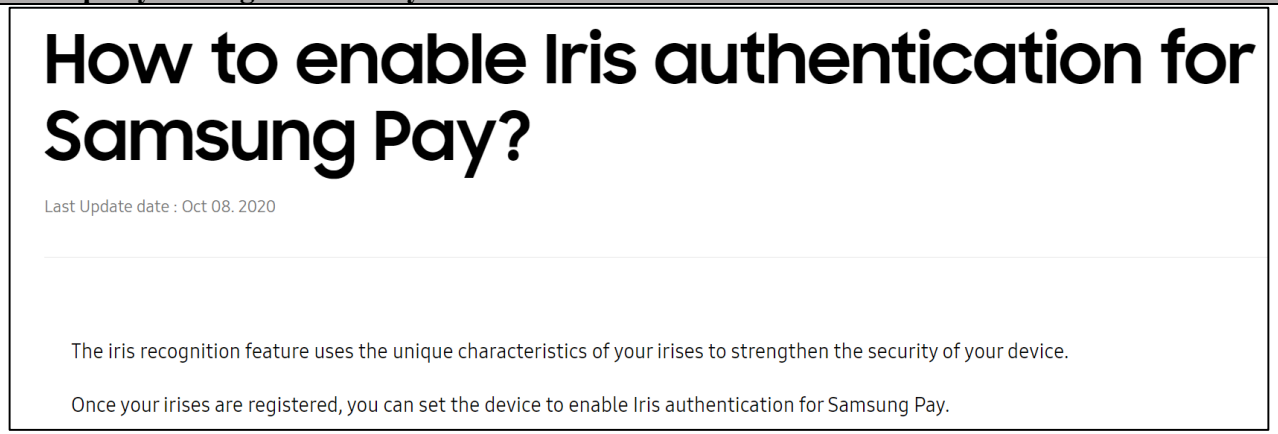
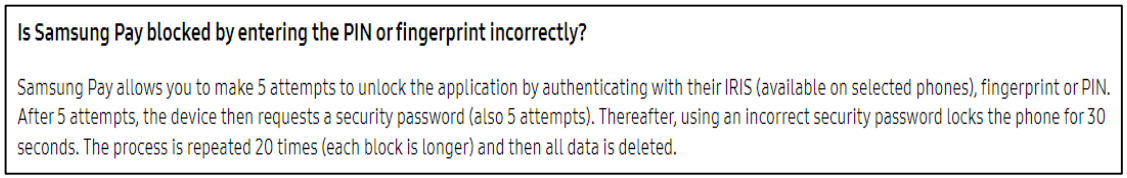
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]

Hello,

Welcome to the Google Wallet community.

Set up screen lock for tap to pay transactions

Important: Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment.

To make contactless payments with Google Wallet, you must use a screen lock on your device for your security.

You can unlock Google Wallet with several methods:

- PIN
- Pattern
- Password
- Fingerprint
- Iris scan
- 3D face unlock

Tip: Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock.

Set or change a screen lock

1. Open your phone Settings app.
2. Tap **Security**.
    - If you don't find "Security," you can get help at your phone manufacturer support site.
3. Tap **Screen lock**.
    - If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one.
4. Tap the option you'd like to use. Follow the on-screen instructions.

https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]

Pay in a store

Step 1: Wake up & unlock your phone

Important: For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions.

Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app.

Tip: In most countries or regions, smaller transactions don't require you to unlock your phone.

Step 2: Hold the back of your phone to the payment reader

When you're done paying, a blue check mark appears on the screen.

If the check mark isn't on your screen:

- Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device.
- Hold your phone closer to the payment reader.
- Hold your phone to the payment reader for a few extra seconds.

If there's a check mark but the cashier says that the payment didn't work:

- Double-check if the store accepts mobile payments.
- Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged.

Step 3: If prompted, follow the on-screen instructions

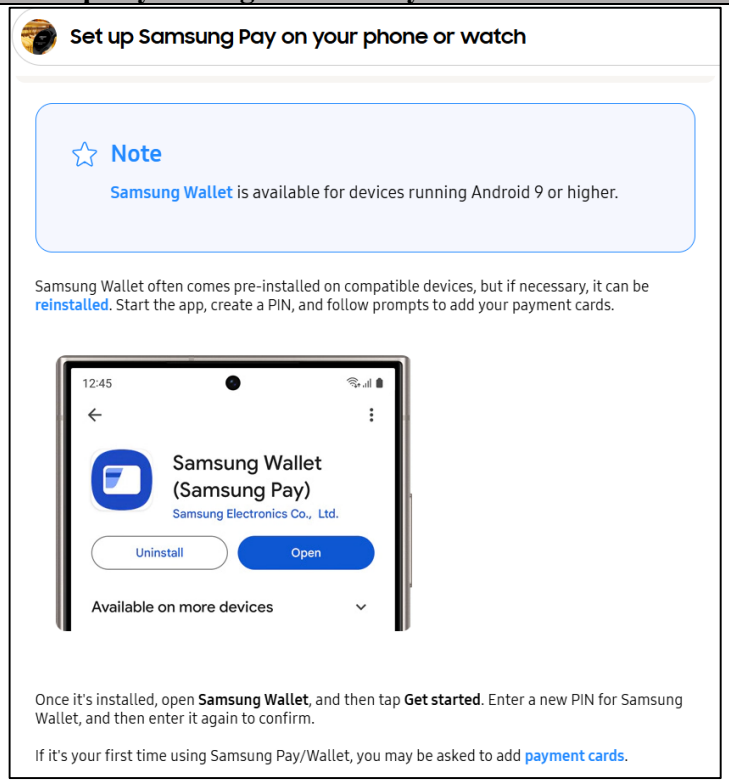
Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen.

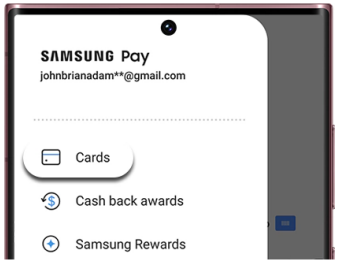
- **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device.
- **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box.

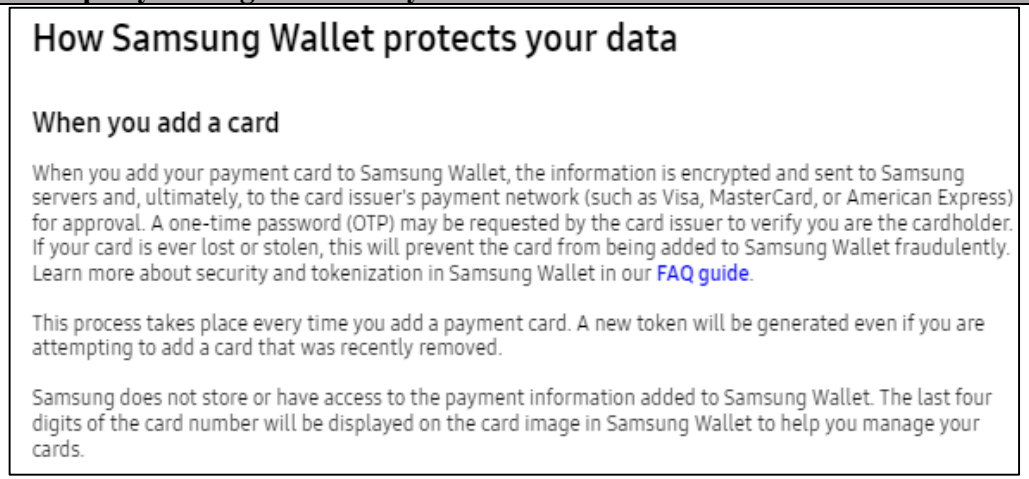
https://support.google.com/wallet/answer/12060043?hl=en#

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[8.a.] The device of claim 6, further comprising: while said number of functions is enabled by having sensed the parameter and by having determined by the device that the value of the parameter that is sensed satisfies the threshold criterion, requesting by the device from a second device an authorization to enable a function for conducting a financial transaction by the device;	The Accused Products are configured to perform operations including "while said number of functions is enabled by having sensed the parameter and by having determined by the device that the value of the parameter that is sensed satisfies the threshold criterion, requesting by the device from a second device an authorization to enable a function for conducting a financial transaction by the device." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, while the Samsung smartphone or application is unlocked (e.g., a number of functions is enabled) and responsive to recognizing, for example, facial recognition, iris recognition, or a fingerprint (e.g., by having determined by the device that the value of the parameter that is sensed satisfies the threshold criterion), the user may set up a payment method in Samsung Pay and/or Google Pay by, for example, adding a credit card (e.g., requesting an authorization to establish a function to conduct a financial transaction). To add a credit card, the Samsung smartphone transmits to the base station (a second device) data requesting authorization to use the credit card in future transactions. Q. What do I need to start using Samsung Pay? ^ A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]

If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps:

1. Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card.

   You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card.

   Please note: The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct.

2. Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up.

3. You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen.

https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]

Hello,

Welcome to the Google Wallet community.

Set up screen lock for tap to pay transactions

Important: Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment.

To make contactless payments with Google Wallet, you must use a screen lock on your device for your security.

You can unlock Google Wallet with several methods:

- PIN
- Pattern
- Password
- Fingerprint
- Iris scan
- 3D face unlock

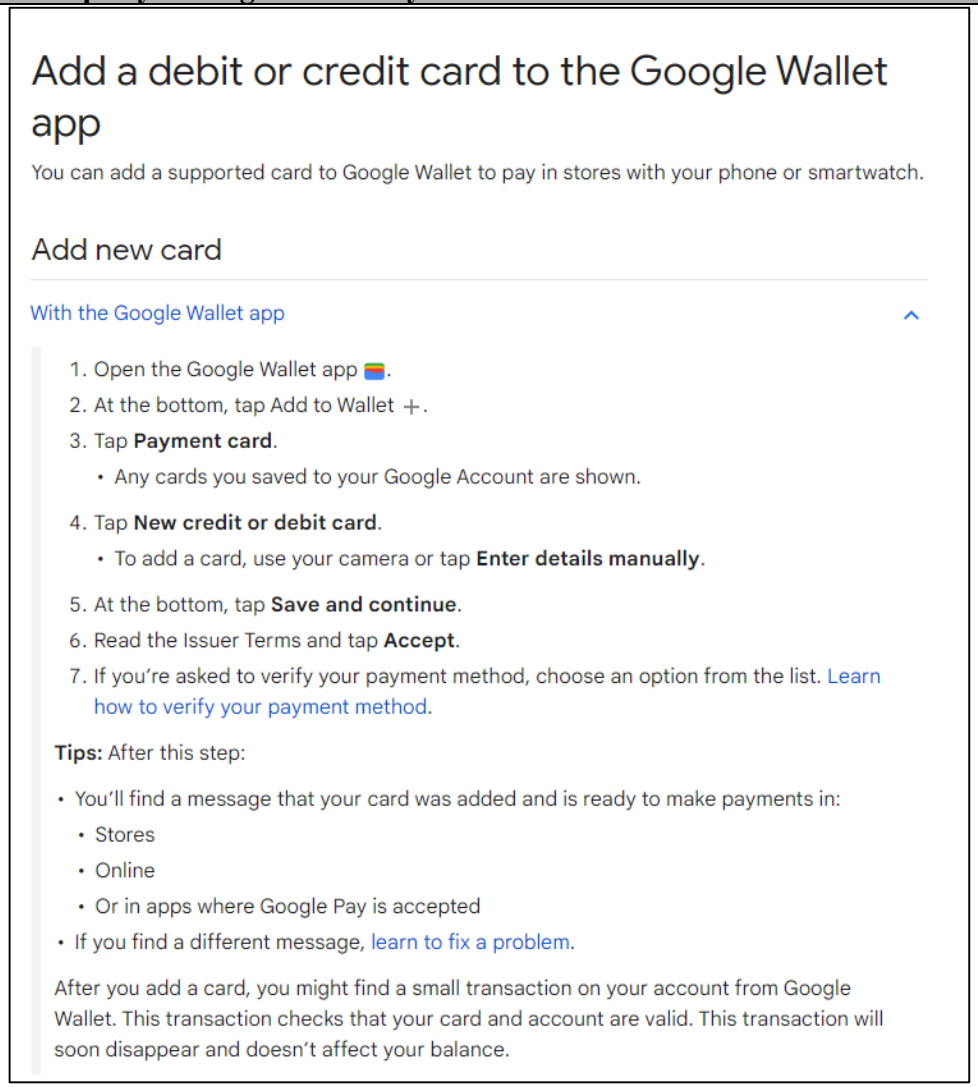
Tip: Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock.

Set or change a screen lock

1. Open your phone Settings app.
2. Tap **Security**.
    - If you don't find "Security," you can get help at your phone manufacturer support site.
3. Tap **Screen lock**.
    - If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one.
4. Tap the option you'd like to use. Follow the on-screen instructions.

https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]



Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

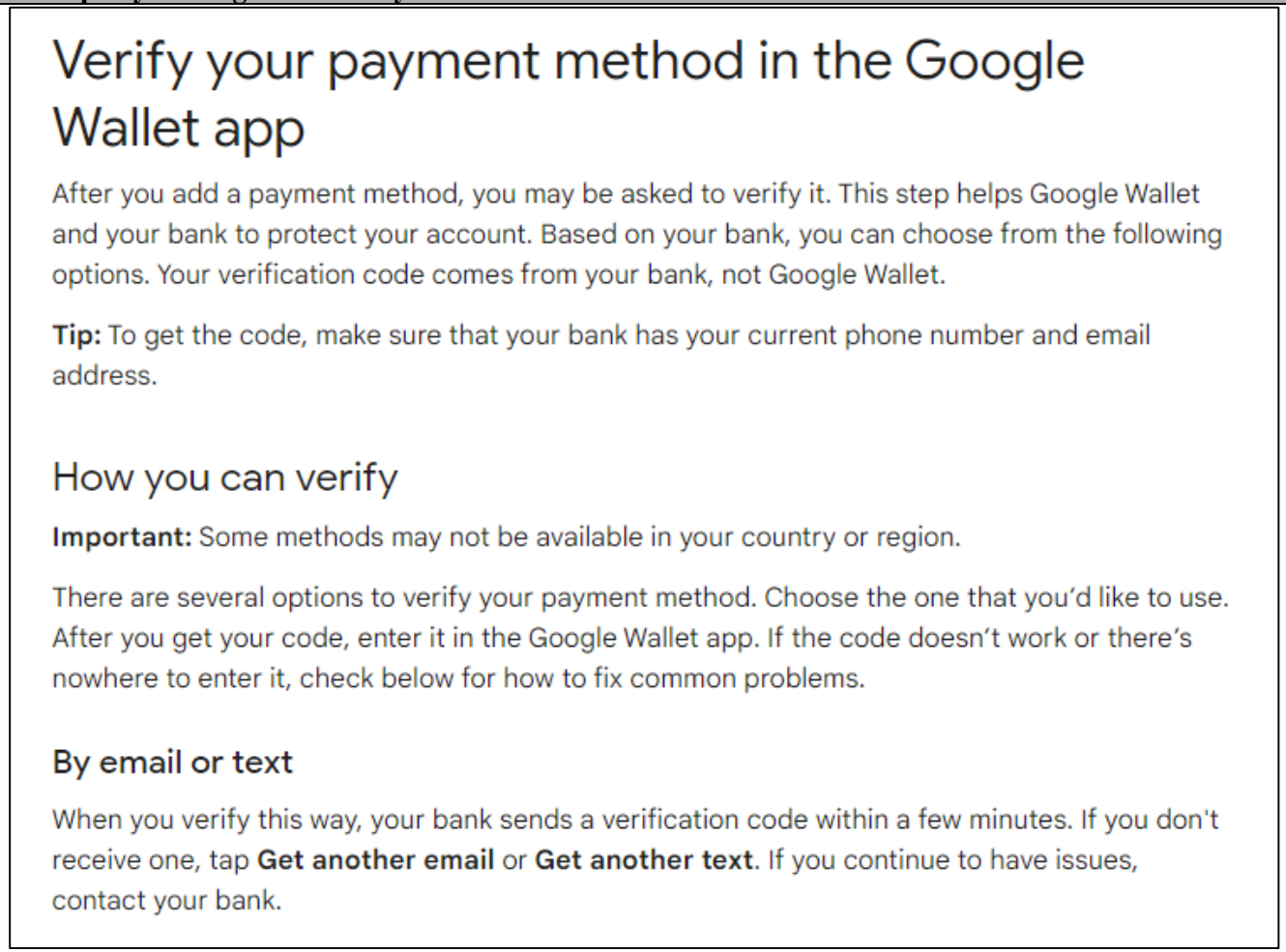
1. Open the Google Wallet app.
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

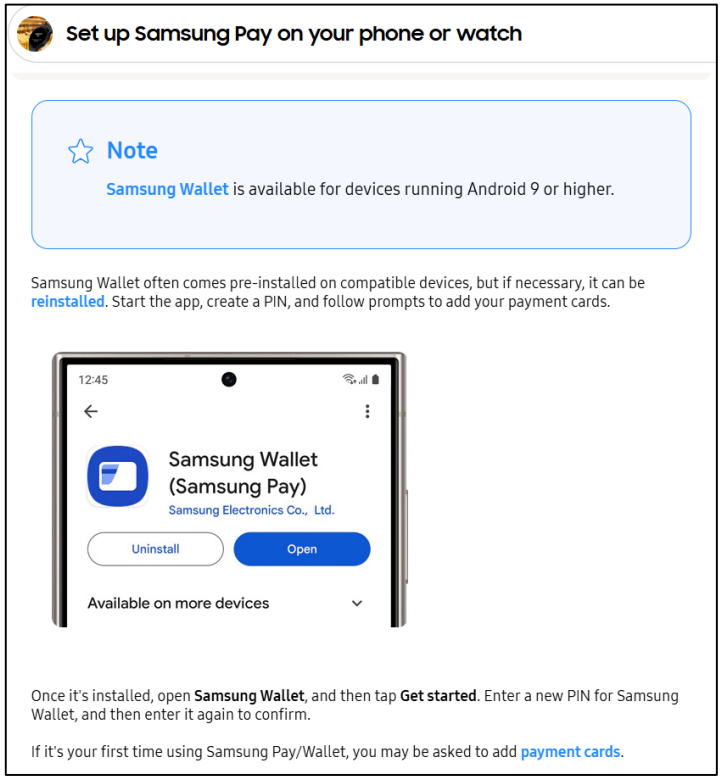
Tips: After this step:

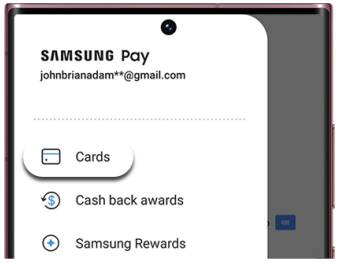
- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

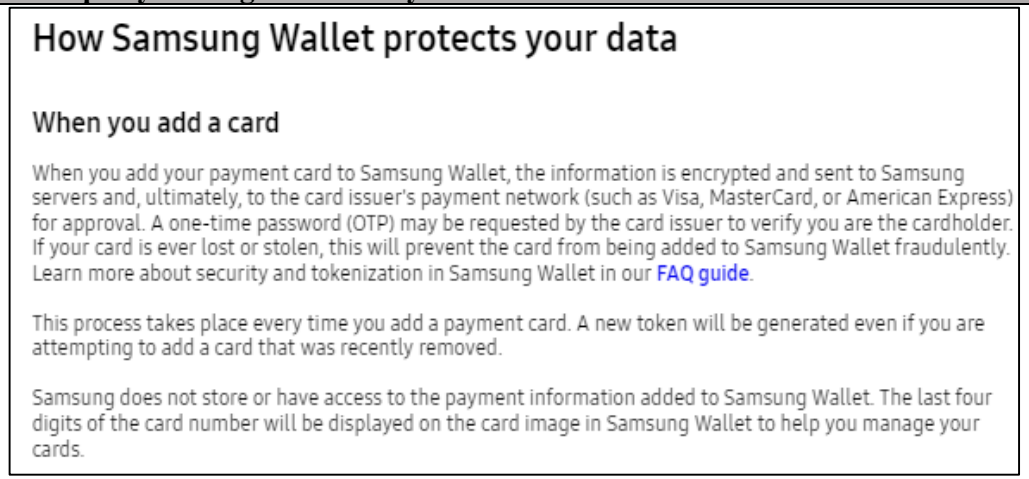
After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

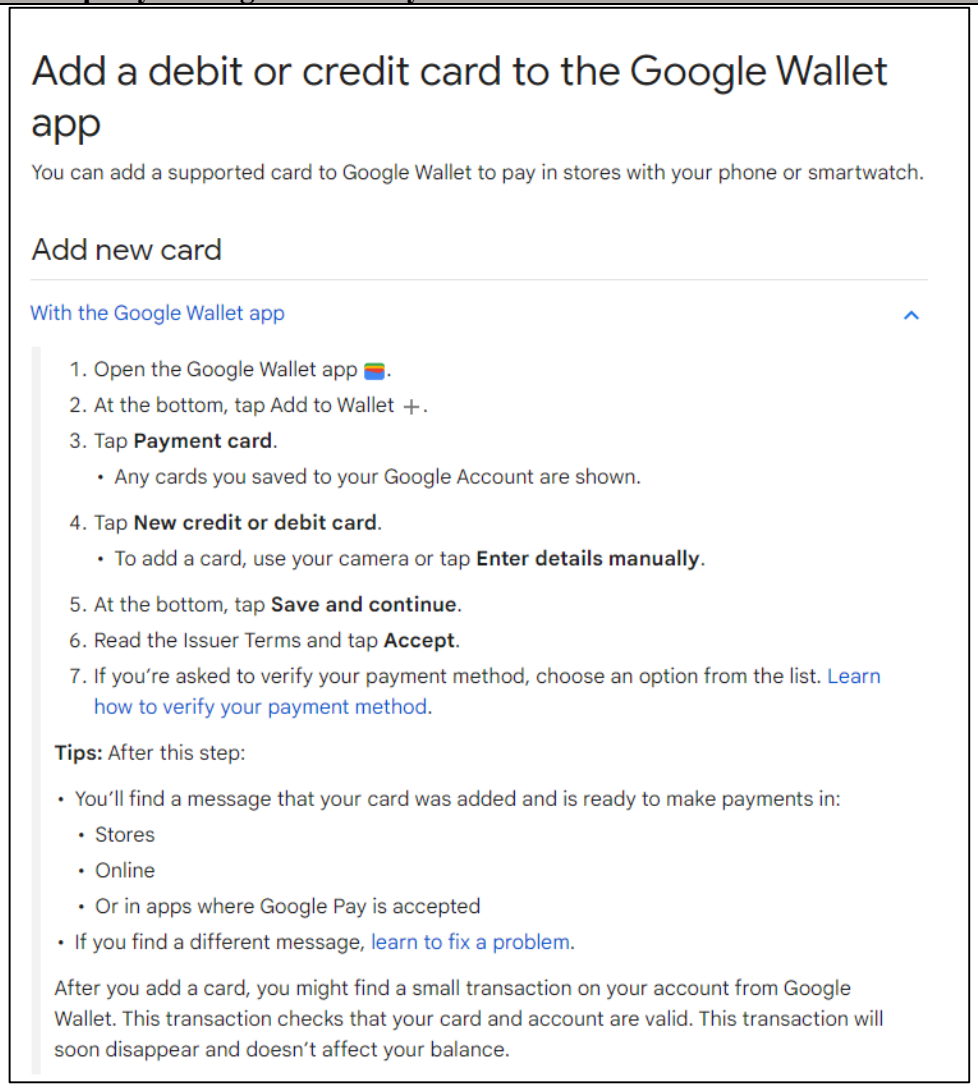
Claim	Exemplary Infringement Analysis[1]
[8.b.] responsive to the requesting, receiving from the second device the authorization to enable the function for conducting the financial transaction; and	The Accused Products configured to perform operations including "responsive to the requesting, receiving from the second device the authorization to establish the function to conduct the financial transaction." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, in response to requesting authorization, the Samsung smartphone receives the authorization from the card issuer (via the base station (second device)) if the card is eligible for Samsung Pay and/or Google Pay. The authorization establishes the ability to conduct a financial transaction using Samsung Pay and/or Google Pay.  https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]
	If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps: 1 Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card. You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card. **Please note:** The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct. 2 Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up. 3 You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen. https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]



Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

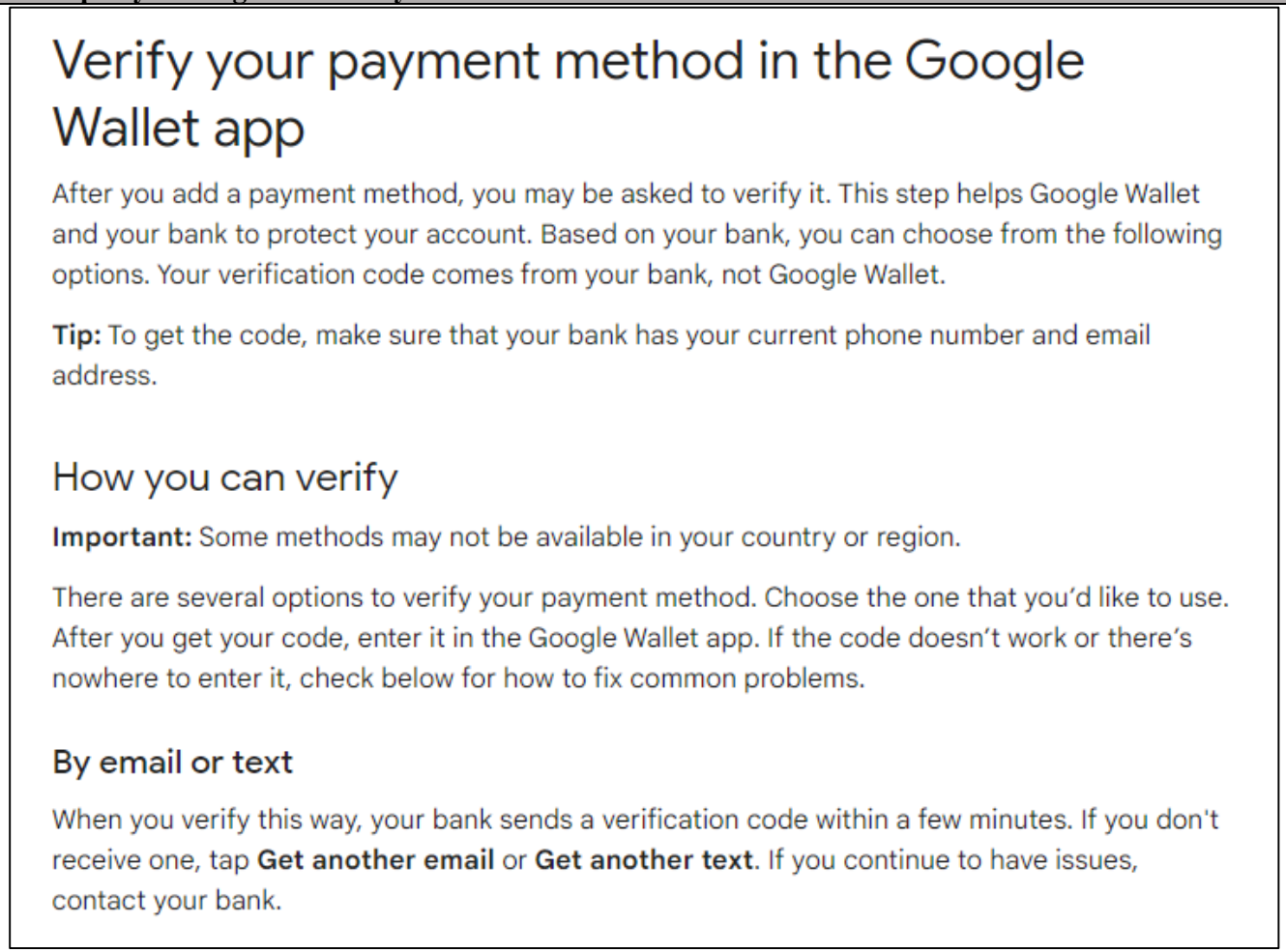
1. Open the Google Wallet app.
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

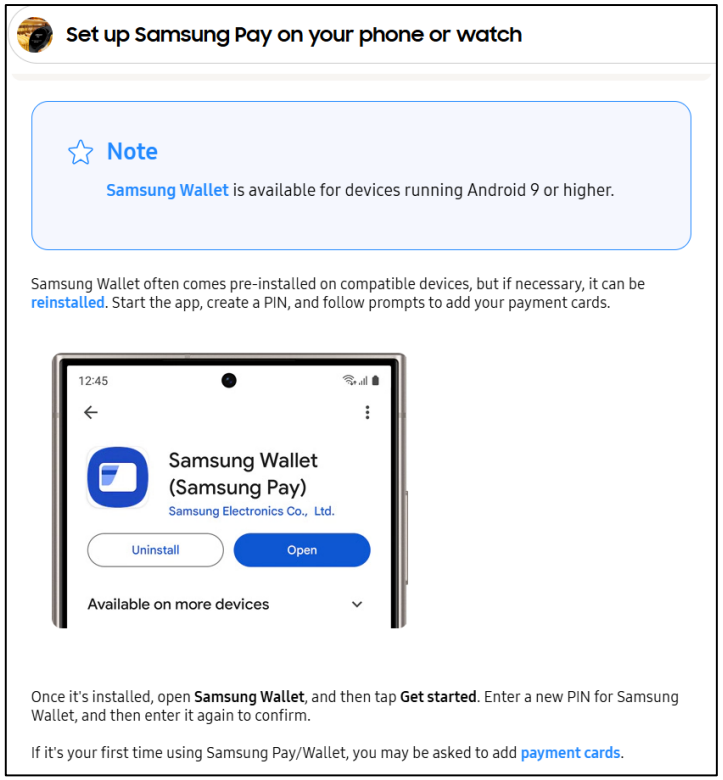
Tips: After this step:

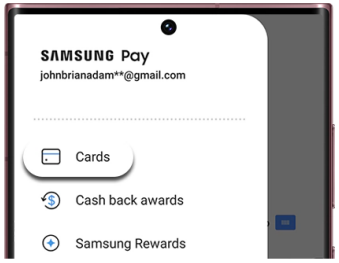
- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

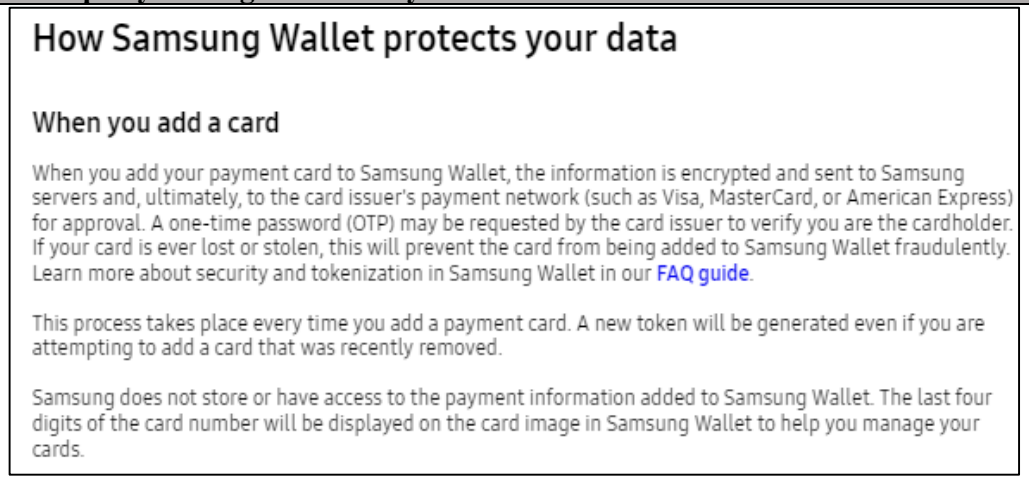
After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[8.c.] responsive to receiving the authorization, enabling the function for conducting the financial transaction.	The Accused Products configured to perform operations including "responsive to receiving the authorization, enabling the function to conduct the financial transaction." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, once the Samsung smartphone has received the authorization, the Samsung smartphone user may conduct financial transactions using Samsung Pay and/or Google Pay.  https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 How Samsung Wallet protects your data When you add a card When you add your payment card to Samsung Wallet, the information is encrypted and sent to Samsung servers and, ultimately, to the card issuer's payment network (such as Visa, MasterCard, or American Express) for approval. A one-time password (OTP) may be requested by the card issuer to verify you are the cardholder. If your card is ever lost or stolen, this will prevent the card from being added to Samsung Wallet fraudulently. Learn more about security and tokenization in Samsung Wallet in our FAQ guide. This process takes place every time you add a payment card. A new token will be generated even if you are attempting to add a card that was recently removed. Samsung does not store or have access to the payment information added to Samsung Wallet. The last four digits of the card number will be displayed on the card image in Samsung Wallet to help you manage your cards. https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]

If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps:

1. Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card.

   You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card.

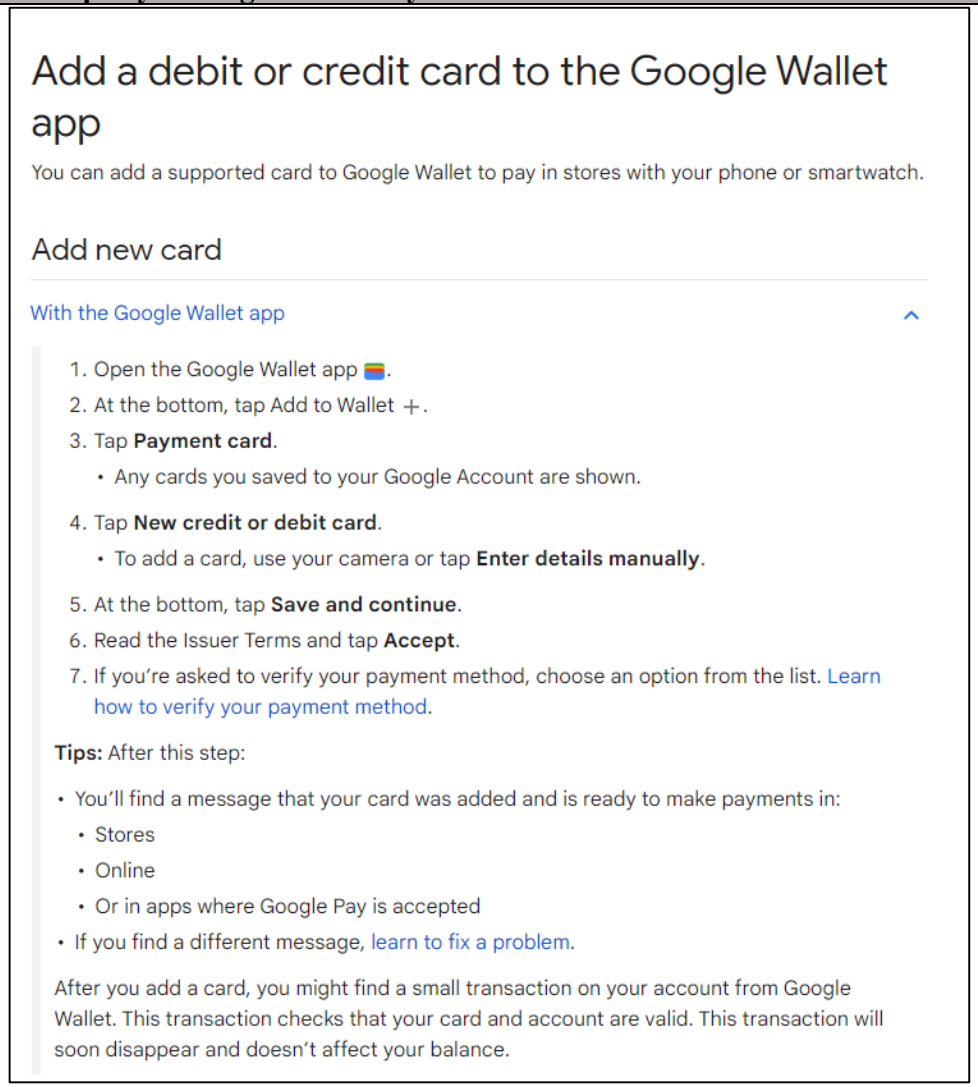
   Please note: The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct.

2. Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up.

3. You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen.

https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]



Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

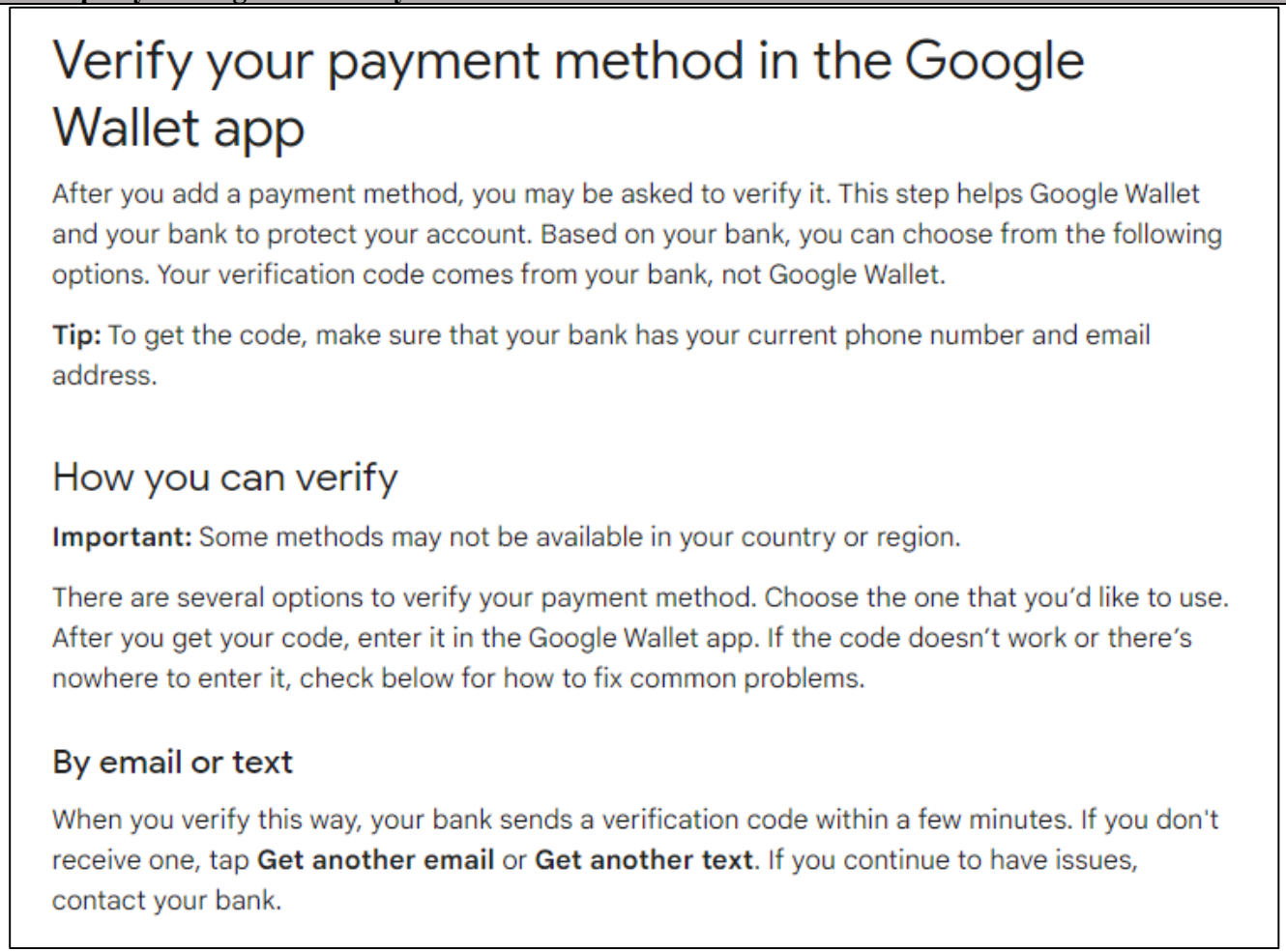
1. Open the Google Wallet app.
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

Tips: After this step:

- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[9.a] The device of claim 8, wherein the operations further comprise: detecting by the device that a proximity condition has been satisfied between the device and an entity;	The Accused Products are configured to perform operations including "wherein the operations further comprise: detecting by the device that a proximity condition has been satisfied between the device and an entity." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting a financial transaction via Samsung Pay and/or Google Pay is configured to perform operations including detecting by the Samsung smartphone that a proximity condition has been satisfied between the Samsung smartphone and an entity (the point-of-sale terminal). **How does Samsung Pay work?** Samsung Pay uses Near Field Communication (NFC) to make contactless mobile payments. **How do I make in-store purchases with Samsung Pay?** - Start by either swiping-up from the home button or opening the Samsung Pay app from your home screen. - Next, select the card you want to pay with. - You can authenticate by IRIS (available on selected phones), fingerprint or pin. - Hover your phone about 2-4 cm over the card reader where you'd usually tap your physical card to complete the transaction. https://www.samsung.com/uk/samsung-pay/faq/ Near Field Communication (NFC) technology allows users to make secure transactions, exchange digital content, and connect electronic devices with a touch. NFC transmissions are short range (from a touch to a few centimetres) and require the devices to be in close proximity. NFC is the technology in contactless cards, and the most common use of NFC technology in your smartphone is making easy payments with Samsung Pay. NFC can also be used to quickly connect with wireless devices and transfer data with Android Beam. https://www.samsung.com/uk/support/mobile-devices/what-is-nfc-and-how-do-i-use-it/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS00045102/

Claim	Exemplary Infringement Analysis[1]
	Where you can use Google Wallet **Important:** To make contactless payments, Near Field Communication (NFC) must be on. To turn on NFC, check your phone settings app. To use tap to pay on Pixel Fold or another foldable device, fold your device. You can pay with Google Wallet wherever you find the contactless or Google Pay symbols. They're located on the payment terminal screen or cash register at checkout. You can buy items with your phone or pay for transit on trains and buses on contactless terminals with either of these logos:   *Google Pay symbol* *Contactless symbol* https://support.google.com/wallet/answer/12060043?hl=en

Claim	Exemplary Infringement Analysis[1]

Pay in a store

Step 1: Wake up & unlock your phone

Important: For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions.

Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app.

Tip: In most countries or regions, smaller transactions don't require you to unlock your phone.

Step 2: Hold the back of your phone to the payment reader

When you're done paying, a blue check mark appears on the screen.

If the check mark isn't on your screen:

- Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device.
- Hold your phone closer to the payment reader.
- Hold your phone to the payment reader for a few extra seconds.

If there's a check mark but the cashier says that the payment didn't work:

- Double-check if the store accepts mobile payments.
- Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged.

Step 3: If prompted, follow the on-screen instructions

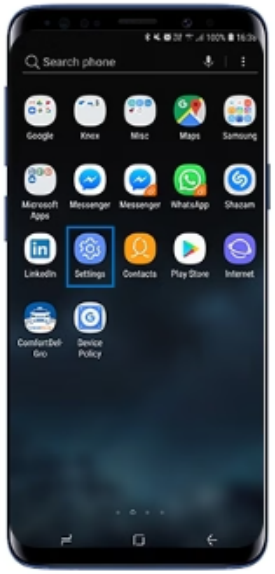
Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen.

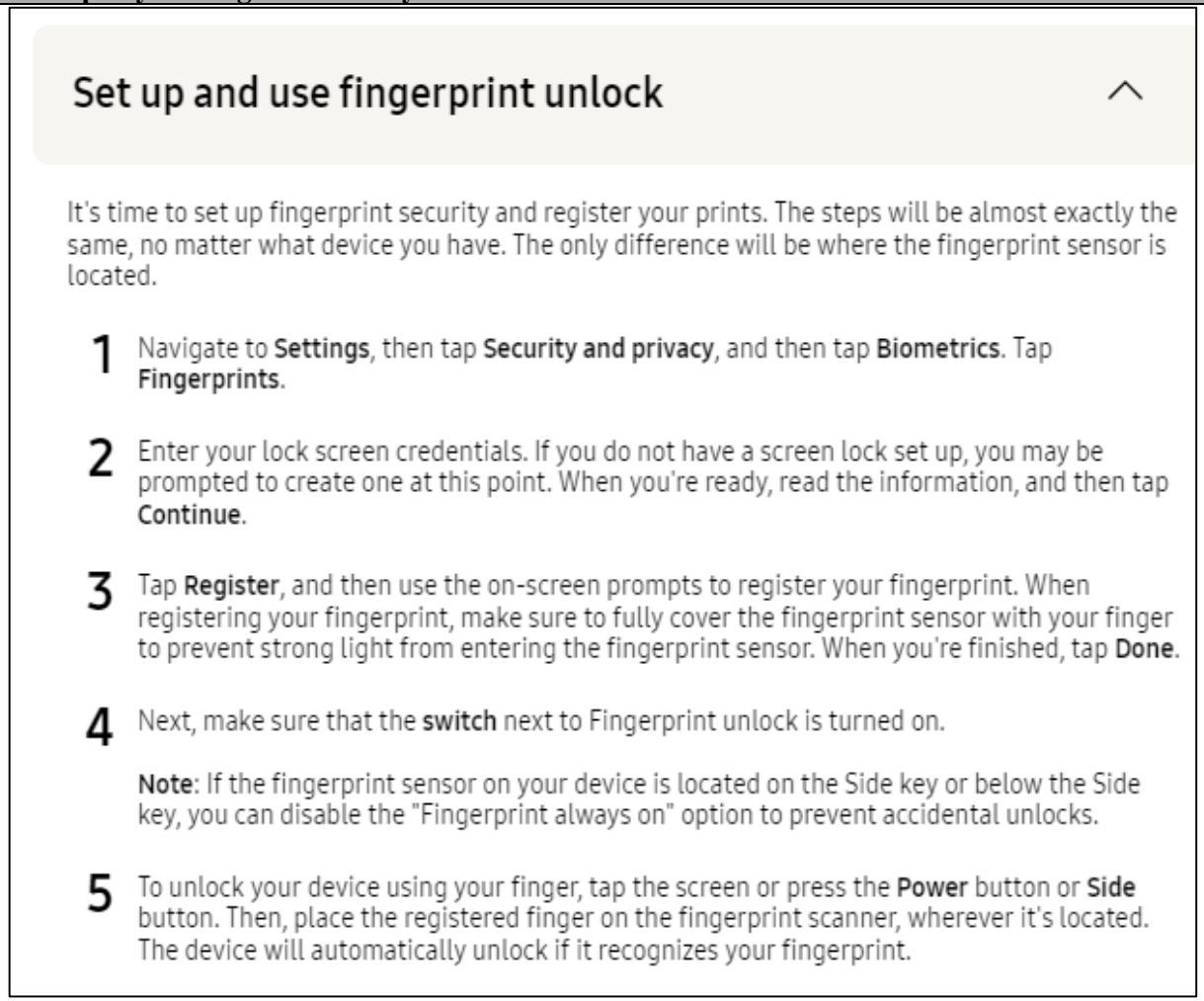
- **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device.
- **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box.

https://support.google.com/wallet/answer/12060043?hl=en#

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[9.b.] sensing by the device the parameter and determining by the device the value that is associated with the parameter that is sensed satisfies the threshold criterion; and;	The Accused Products are configured to perform operations including "sensing by the device the parameter and determining by the device the value that is associated with the parameter that is sensed satisfies the threshold criterion." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including sensing by the Samsung smartphone the parameter (facial recognition, an iris, or a fingerprint) and determining by the Samsung smartphone the value that is associated with the parameter that is sensed satisfies the threshold criterion (the facial recognition, an iris, or a fingerprint associated with the authorized user). Q. What do I need to start using Samsung Pay? A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

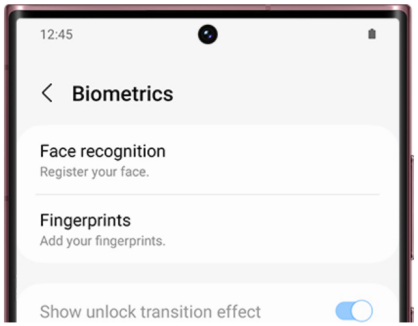
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

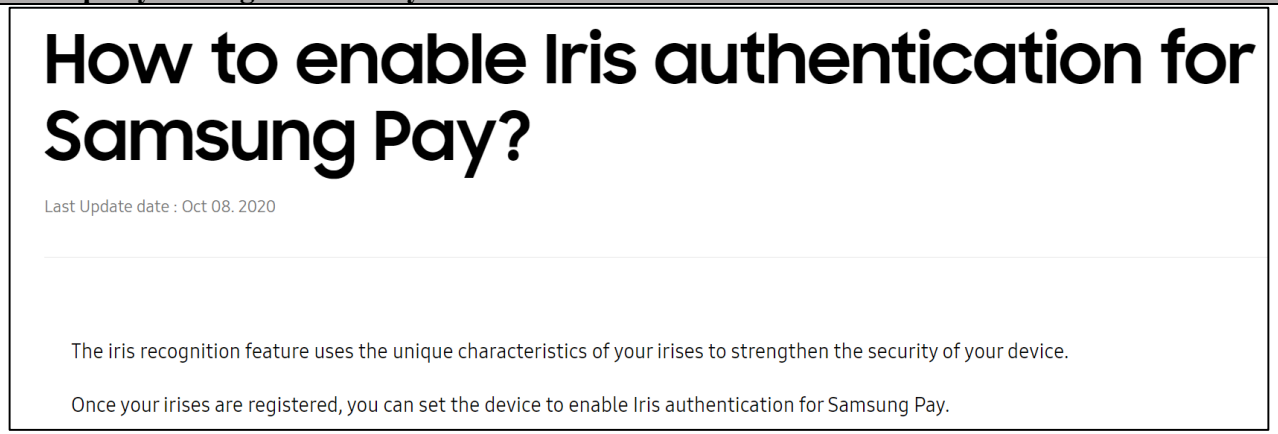
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/

Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]

Pay in a store

Step 1: Wake up & unlock your phone

Important: For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions.

Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app.

Tip: In most countries or regions, smaller transactions don't require you to unlock your phone.

Step 2: Hold the back of your phone to the payment reader

When you're done paying, a blue check mark appears on the screen.

If the check mark isn't on your screen:

- Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device.
- Hold your phone closer to the payment reader.
- Hold your phone to the payment reader for a few extra seconds.

If there's a check mark but the cashier says that the payment didn't work:

- Double-check if the store accepts mobile payments.
- Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged.

Step 3: If prompted, follow the on-screen instructions

Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen.

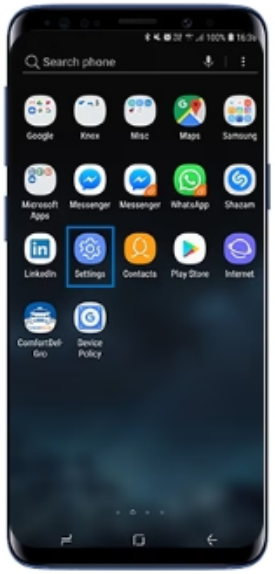
- **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device.
- **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box.

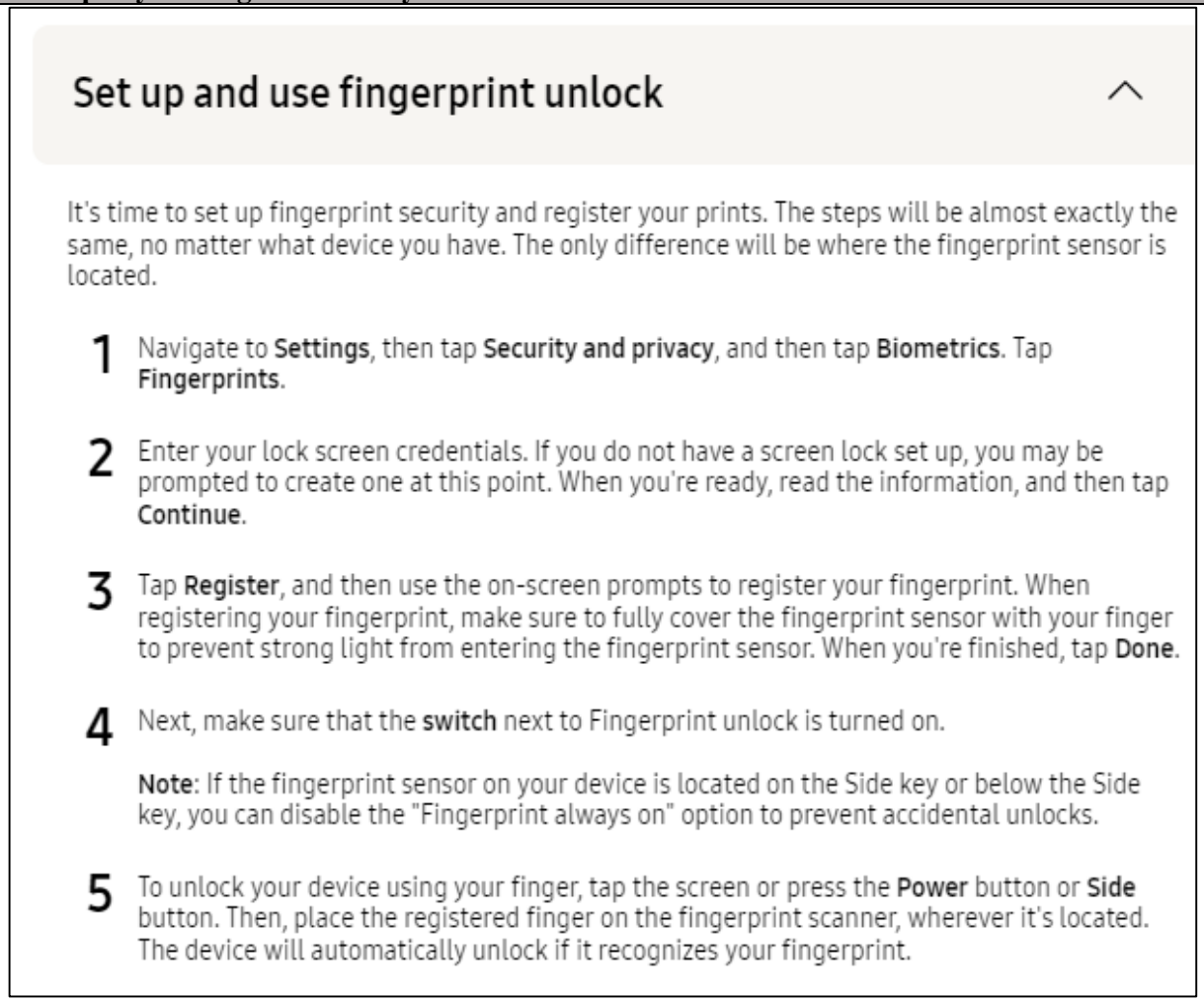
https://support.google.com/wallet/answer/12060043?hl=en#

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[9.c] responsive to the value that is associated with the parameter that is sensed satisfying the threshold criterion, using by the device the function for conducting the financial transaction and conducting by the device the financial transaction by paying for a product.	The Accused Products are configured to perform operations including "responsive to the value that is associated with the parameter that is sensed satisfying the threshold criterion, using by the device the function for conducting the financial transaction and conducting by the device the financial transaction by paying for a product." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, using a Samsung smartphone to conduct a financial transaction via Samsung Pay and/or Google Pay includes using Samsung Pay and/or Google Pay to conduct the financial transaction by paying for a product. Use of the function (Samsung Pay and/or Google Pay functionality) to pay for a product is response to sensing the physiological parameter value and determining that the sensed physiological parameter satisfies a criterion. Also, conducting the transaction via Samsung Pay and/or Google Pay includes recognizing and accepting a facial recognition, fingerprint, or iris associated with the user. **How does Samsung Pay work?** Samsung Pay uses Near Field Communication (NFC) to make contactless mobile payments. **How do I make in-store purchases with Samsung Pay?** - Start by either swiping-up from the home button or opening the Samsung Pay app from your home screen. - Next, select the card you want to pay with. - You can authenticate by IRIS (available on selected phones), fingerprint or pin. - Hover your phone about 2-4 cm over the card reader where you'd usually tap your physical card to complete the transaction. https://www.samsung.com/uk/samsung-pay/faq/ Near Field Communication (NFC) technology allows users to make secure transactions, exchange digital content, and connect electronic devices with a touch. NFC transmissions are short range (from a touch to a few centimetres) and require the devices to be in close proximity. NFC is the technology in contactless cards, and the most common use of NFC technology in your smartphone is making easy payments with Samsung Pay. NFC can also be used to quickly connect with wireless devices and transfer data with Android Beam. https://www.samsung.com/uk/support/mobile-devices/what-is-nfc-and-how-do-i-use-it/

Claim	Exemplary Infringement Analysis[1]
	Q. What do I need to start using Samsung Pay? **A.** To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay **Q.** Which devices will support iris image authentication for Samsung Pay? **A.** Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

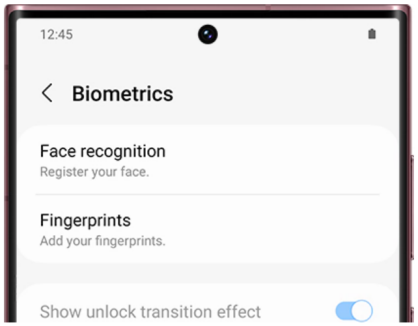
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

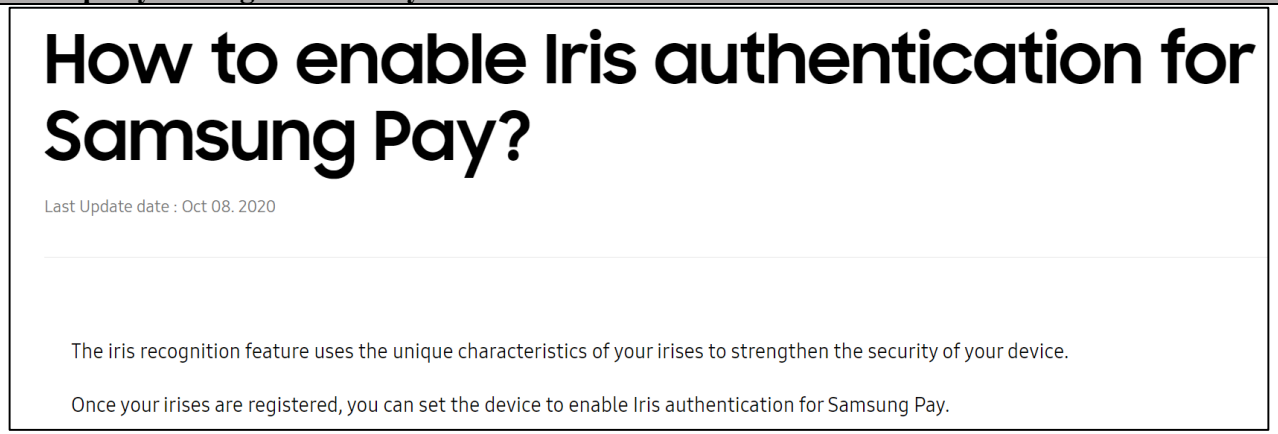
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



https://www.samsung.com/us/support/answer/ANS00062630/

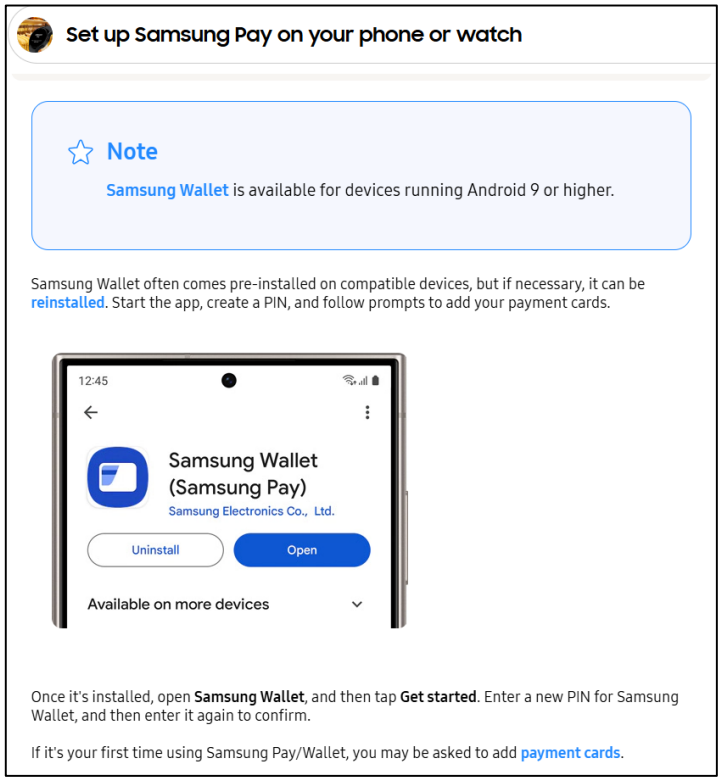
Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/

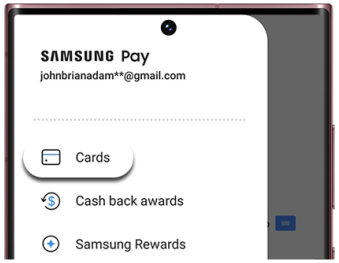
Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS00045102/

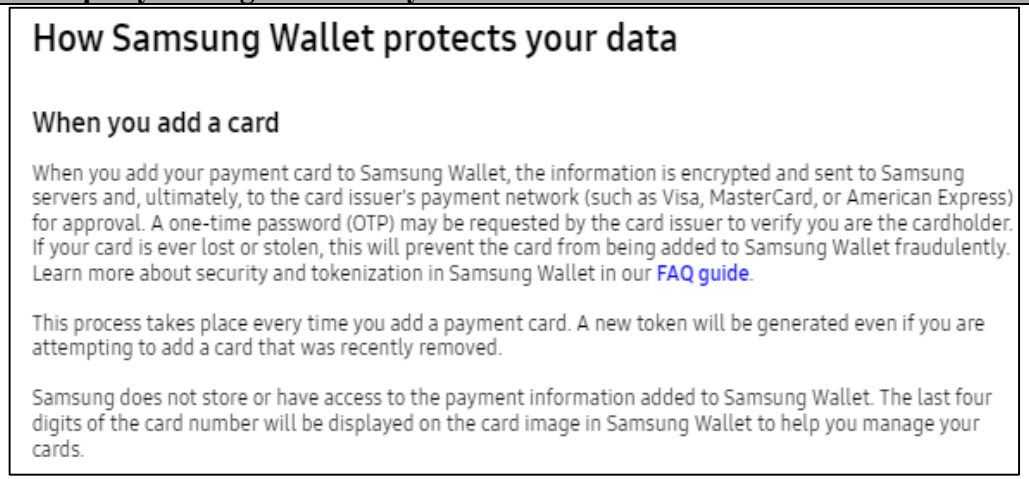
Claim	Exemplary Infringement Analysis[1]
	Where you can use Google Wallet **Important:** To make contactless payments, Near Field Communication (NFC) must be on. To turn on NFC, check your phone settings app. To use tap to pay on Pixel Fold or another foldable device, fold your device. You can pay with Google Wallet wherever you find the contactless or Google Pay symbols. They're located on the payment terminal screen or cash register at checkout. You can buy items with your phone or pay for transit on trains and buses on contactless terminals with either of these logos:   *Google Pay symbol* *Contactless symbol* https://support.google.com/wallet/answer/12060043?hl=en

Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]
	Pay in a store **Step 1: Wake up & unlock your phone** **Important:** For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions. Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app. **Tip:** In most countries or regions, smaller transactions don't require you to unlock your phone. **Step 2: Hold the back of your phone to the payment reader** When you're done paying, a blue check mark appears on the screen. If the check mark isn't on your screen: • Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device. • Hold your phone closer to the payment reader. • Hold your phone to the payment reader for a few extra seconds. If there's a check mark but the cashier says that the payment didn't work: • Double-check if the store accepts mobile payments. • Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged. **Step 3: If prompted, follow the on-screen instructions** Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen. • **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device. • **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box. https://support.google.com/wallet/answer/12060043?hl=en# Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[10.] The device of claim 8, wherein the	The Accused Products are configured to perform operations including "causing a function for conducting the financial transaction to be enabled at the second device."

Claim	Exemplary Infringement Analysis[1]
operations further comprise: causing a function for conducting the financial transaction to be enabled at the second device.	On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting a financial transaction via Samsung Pay and/or Google Pay is configured to perform operations including confirming to the card issuer via the base station (second device) that Samsung Pay and/or Google Pay has been established on the Samsung smartphone (a function for conducting the financial transaction).  https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]

If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps:

1. Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card.

   You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card.

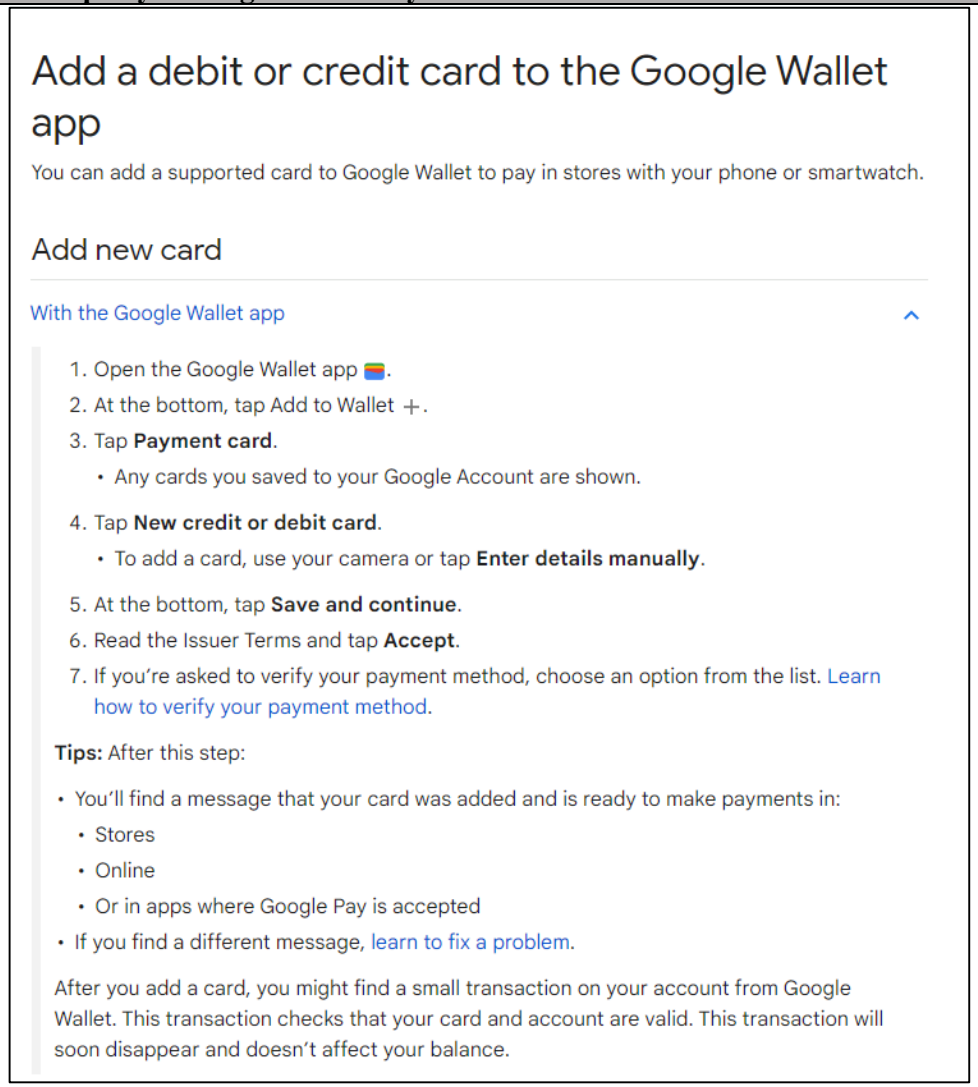
   Please note: The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct.

2. Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up.

3. You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen.

https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]



Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

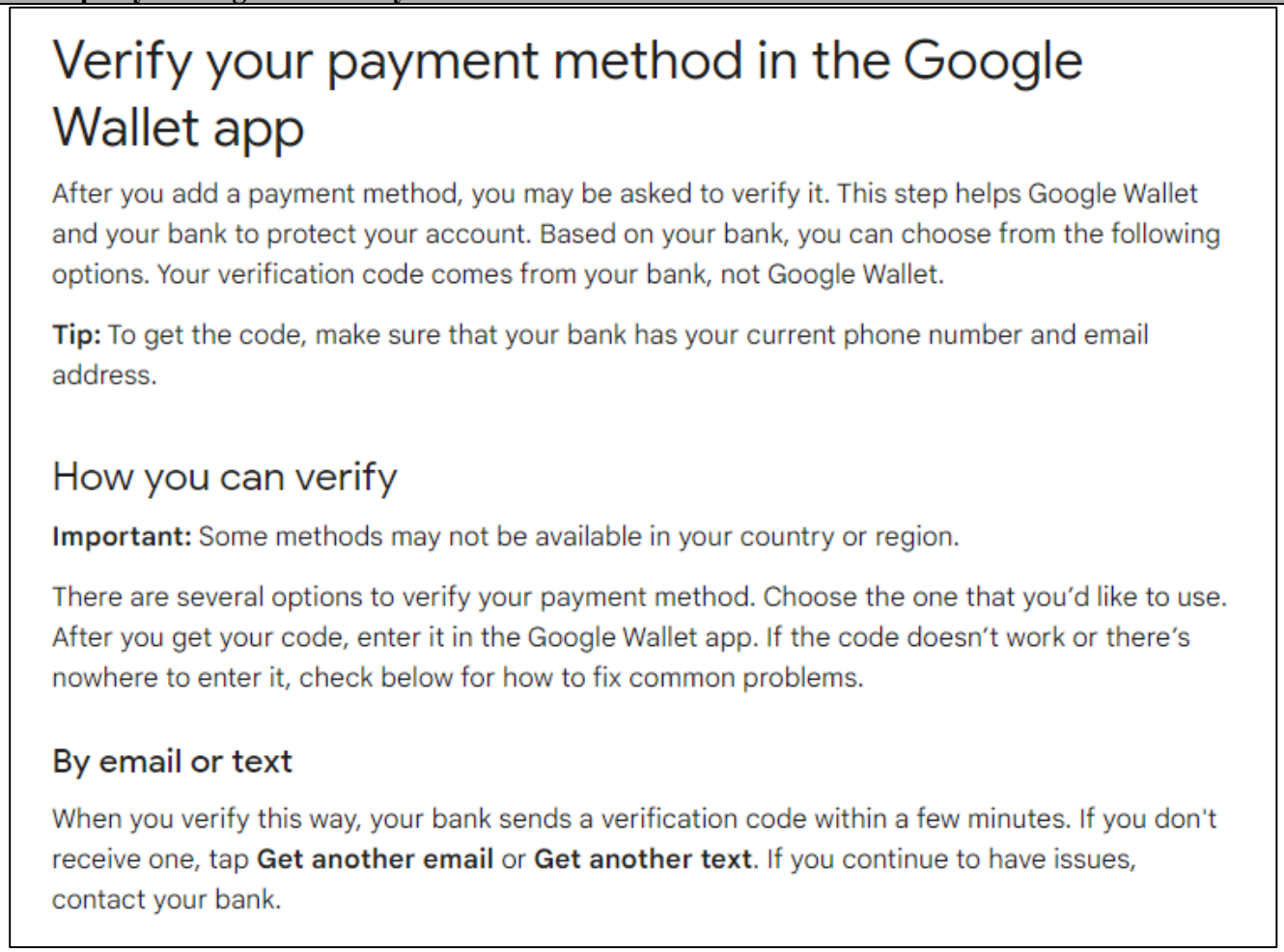
1. Open the Google Wallet app.
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

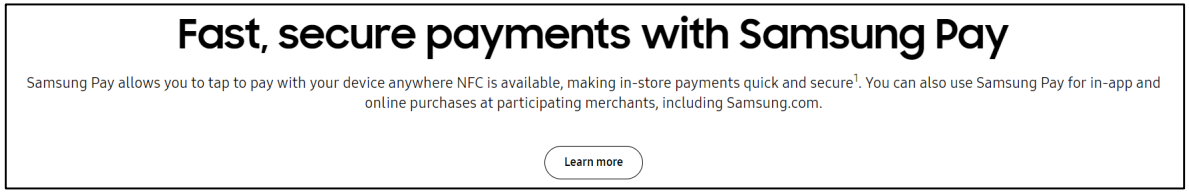
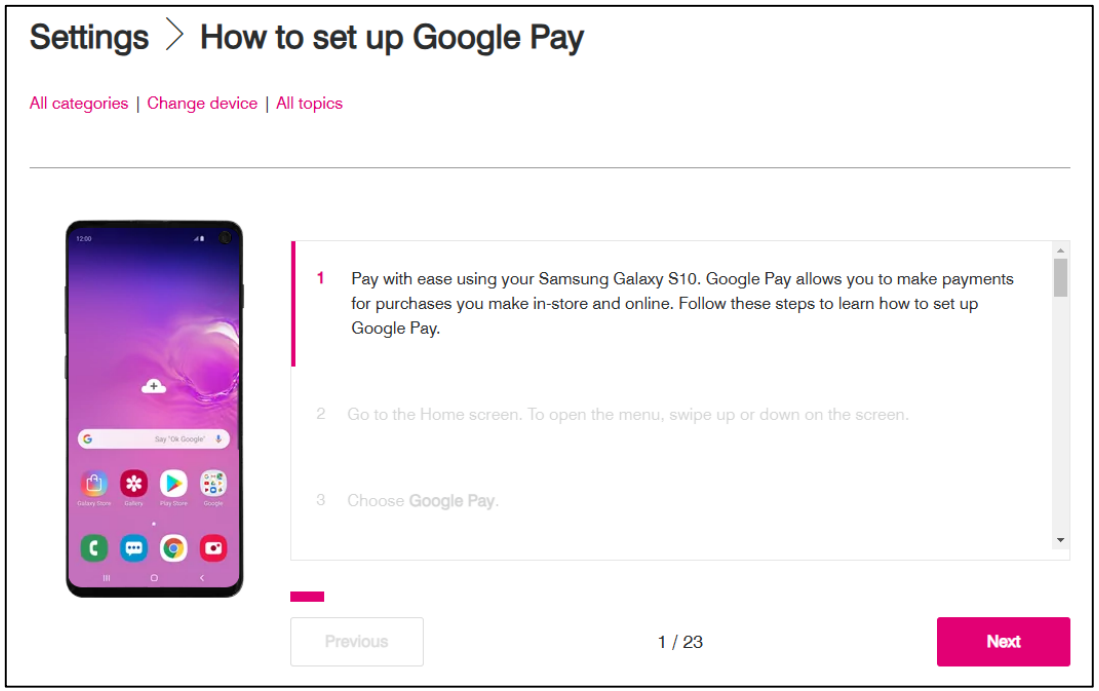
Tips: After this step:

- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

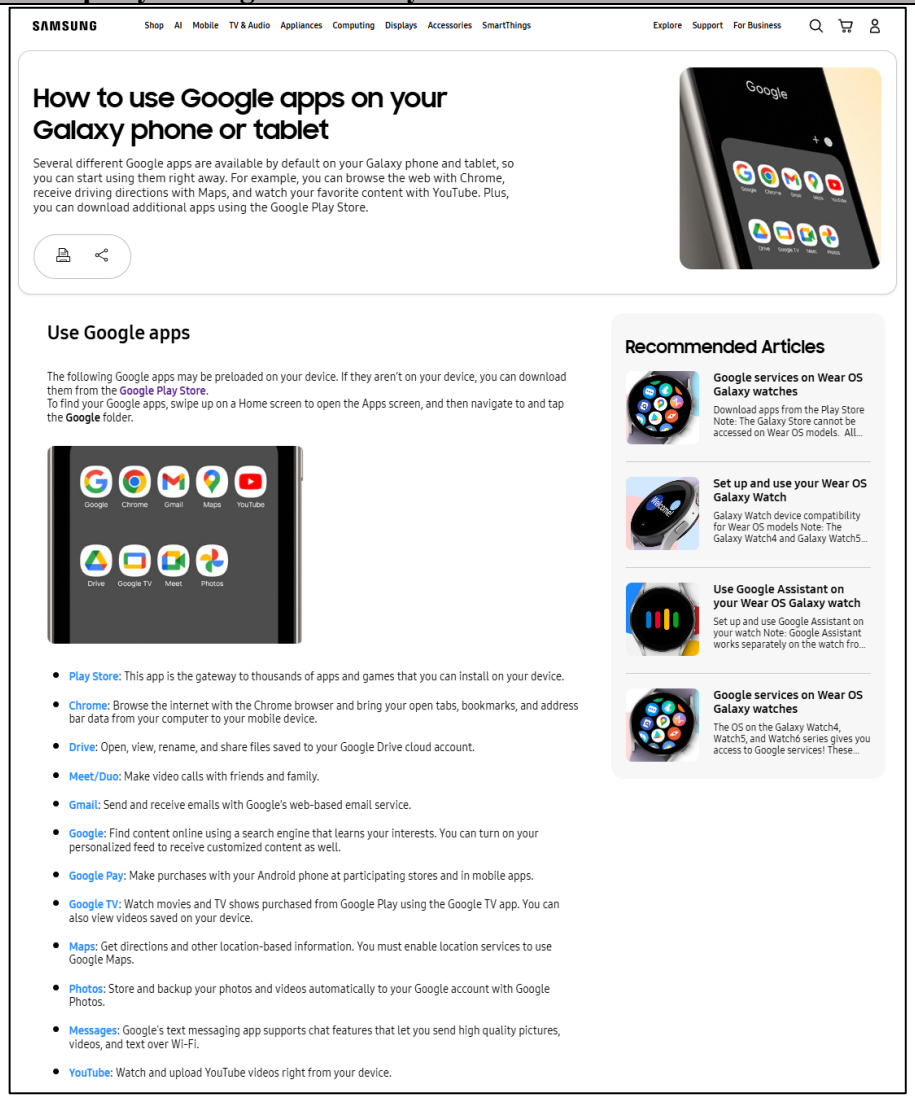
After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

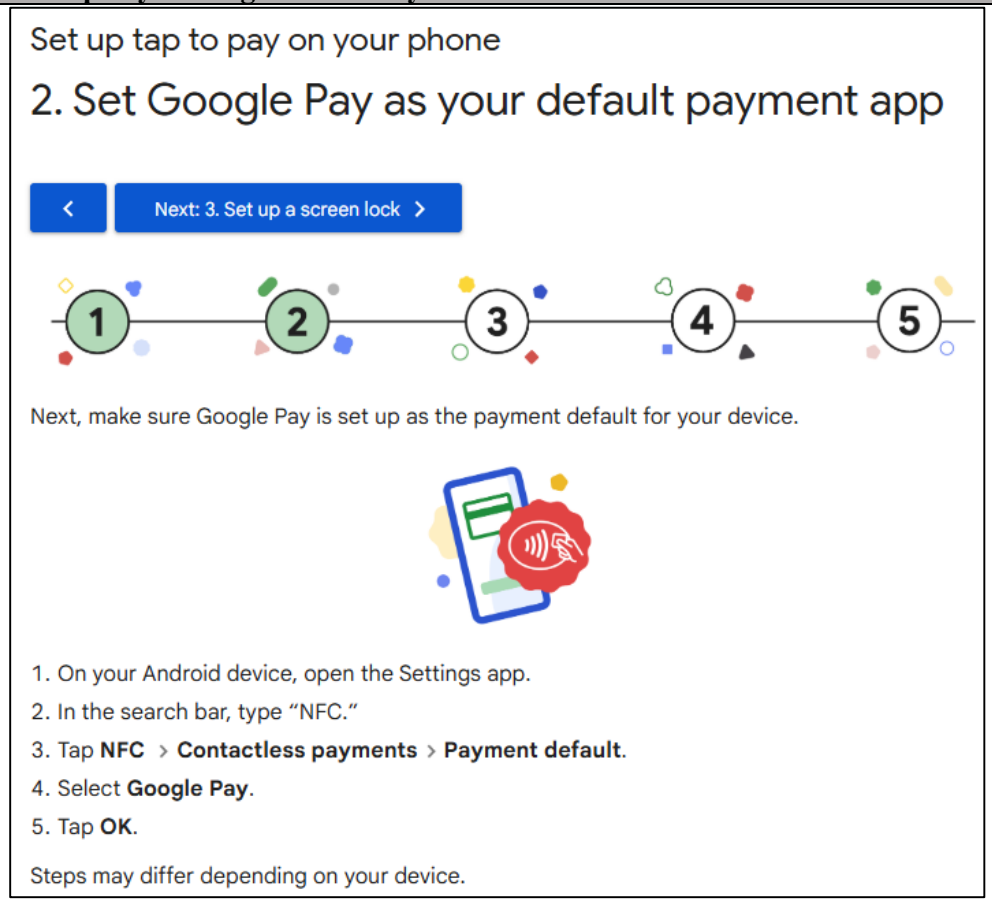
Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[11.p] A method of operating a wireless device, the method comprising:	The Accused Products are capable of performing "a method of operating a wireless device." For example, operating a Samsung-branded smartphone to conduct a transaction via Samsung Pay and/or Google Pay satisfies claim 11.  https://www.samsung.com/us/apps/samsung-wallet/  https://www.t-mobile.com/support/tutorials/device/samsung/galaxy-s10/topic/settings/how-to-set-up-google-pay

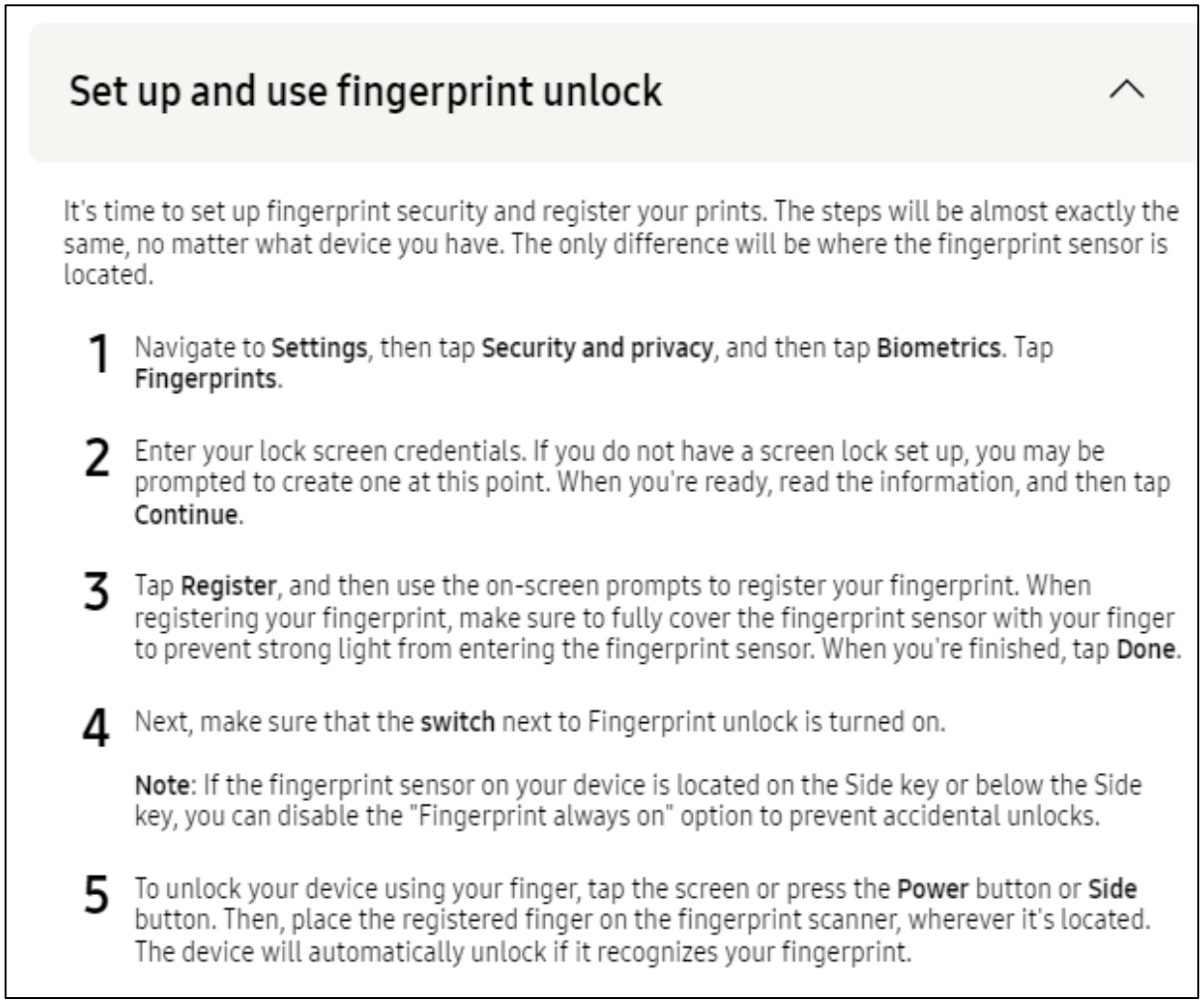
Claim	Exemplary Infringement Analysis[1]

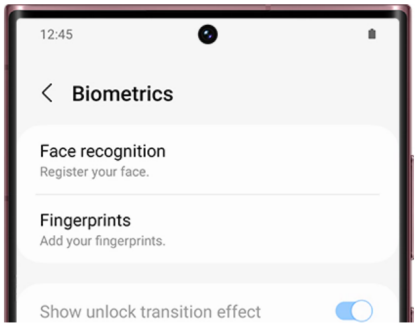


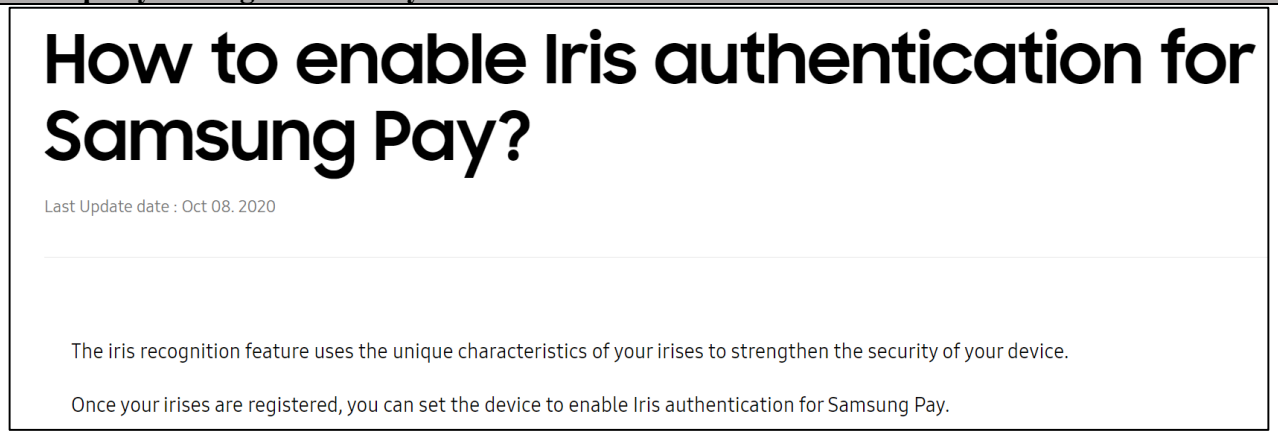
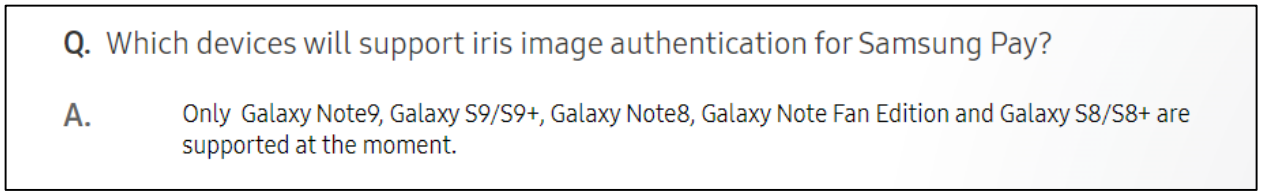
https://www.samsung.com/us/support/answer/ANS10002548/

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/14187052?sjid=3604572701579461674-NA Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[11.a] sensing by the wireless device, using a sensor of the wireless device, a parameter that is associated with the wireless device, an environment of the wireless device and/or a user of the wireless device;	The Accused Products use a method that involves "sensing by the wireless device, using a sensor of the wireless device, a parameter that is associated with the wireless device, an environment of the wireless device and/or a user of the wireless device;" On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, using a Samsung smartphone to conduct financial transactions via Samsung Pay and/or Google Pay includes sensing by the wireless device, using a sensor of the wireless device such as a facial recognition, fingerprint, or iris scanner, a parameter that is associated with the device, an environment of the device and/or a user of the device. Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

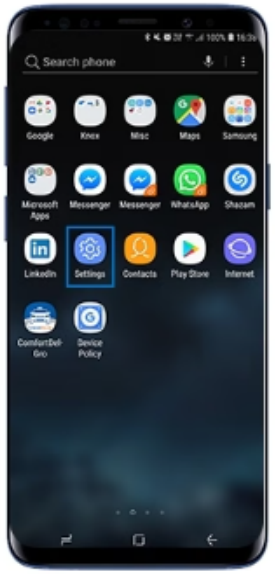
Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

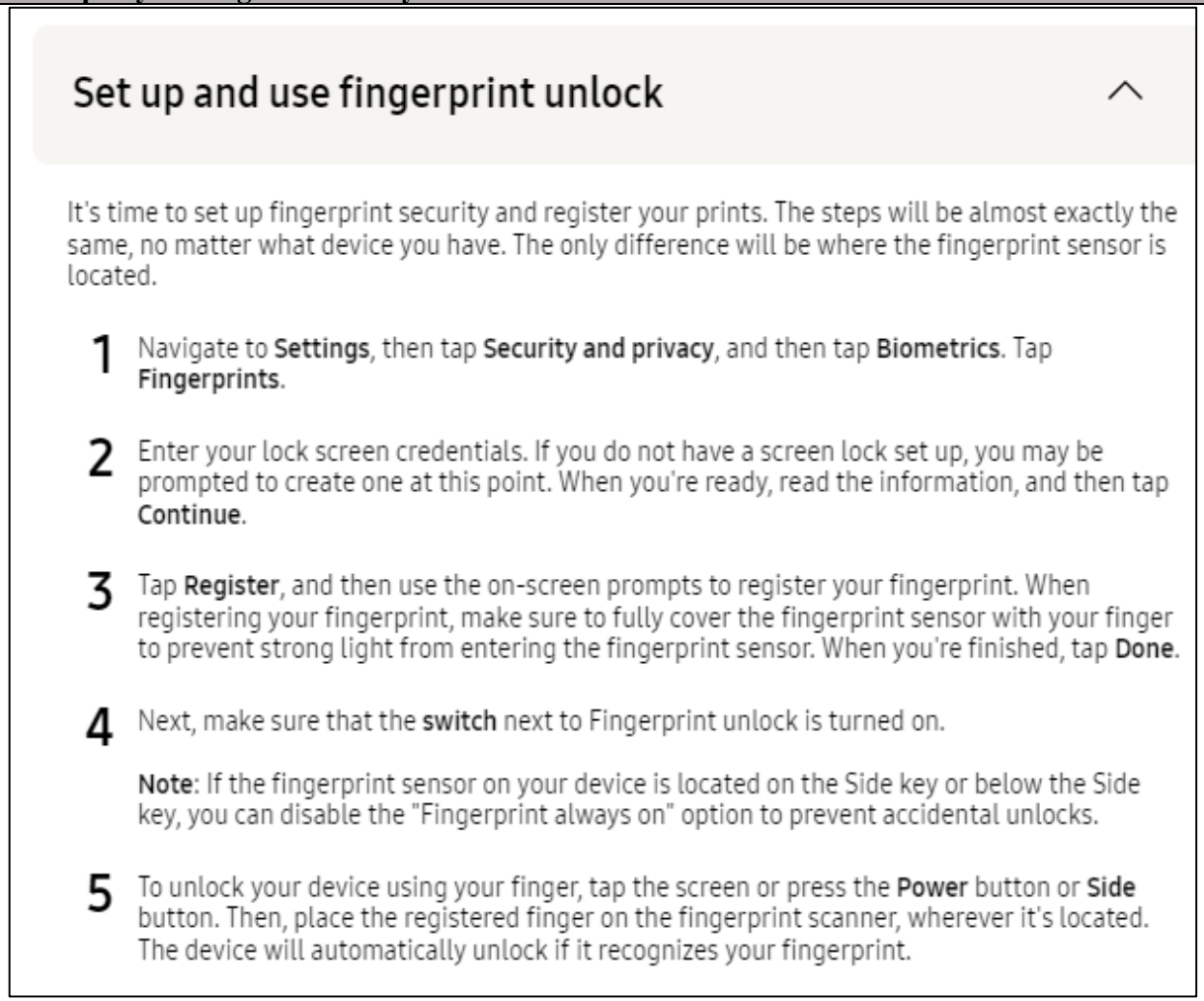
Claim	Exemplary Infringement Analysis[1]
	Set up Facial recognition **Note:** To use Face recognition, you need to set a PIN, Pattern, or Password first. Your face is unique to you, which makes it one of the best security features in your arsenal. 1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**. 2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up. 3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process. 4. When you're done, adjust your desired settings.  https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[11.b.] determining by the wireless device a value of the parameter that is sensed and determining by the wireless device	The Accused Products use a method that involves "determining by the wireless device a value of the parameter that is sensed and determining by the wireless device whether or not the value that is sensed satisfies a threshold criterion." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, using a Samsung smartphone to conduct financial transactions via Samsung Pay and/or Google Pay includes determining by the

Claim	Exemplary Infringement Analysis[1]
whether or not the value that is sensed satisfies a threshold criterion;	wireless device a value of the parameter that is sensed (a facial recognition, fingerprint, or iris) and determining by the wireless device whether or not the value that is sensed satisfies a threshold criterion (a facial recognition, fingerprint, or iris associated with the user). **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ Q. What do I need to start using Samsung Pay? A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

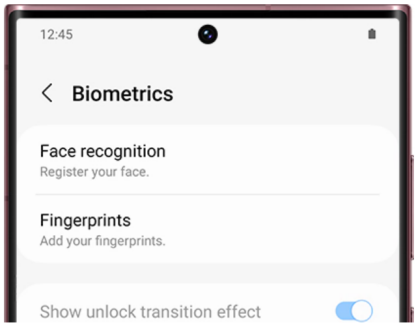
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

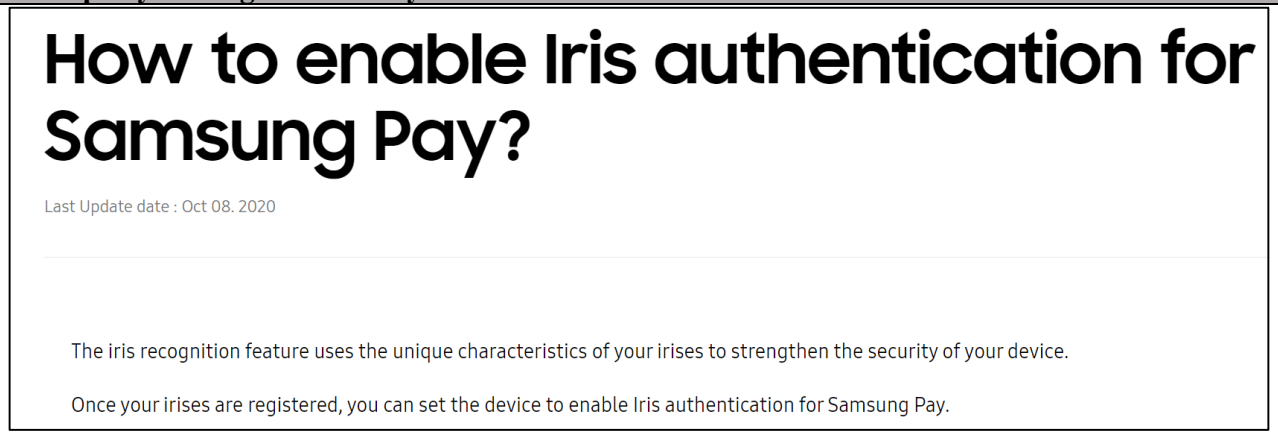
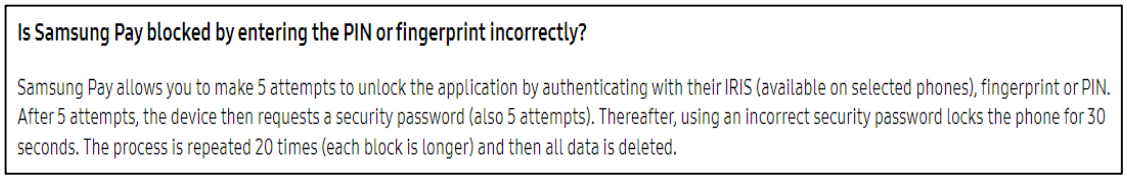
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

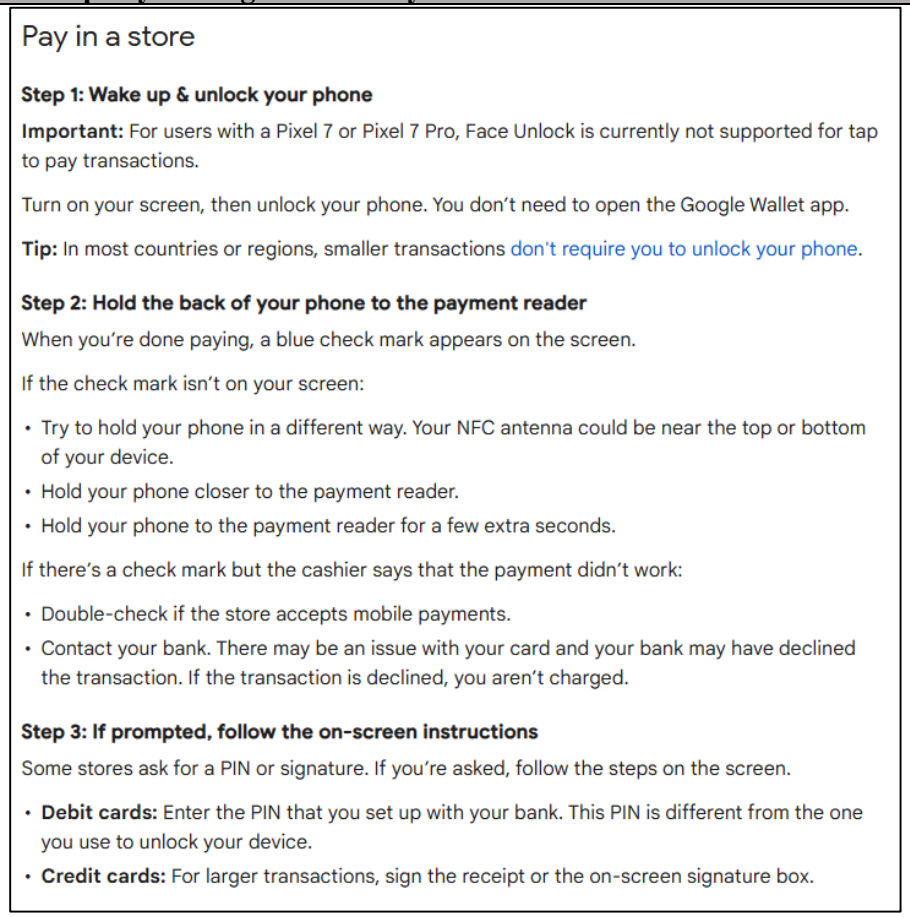
1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



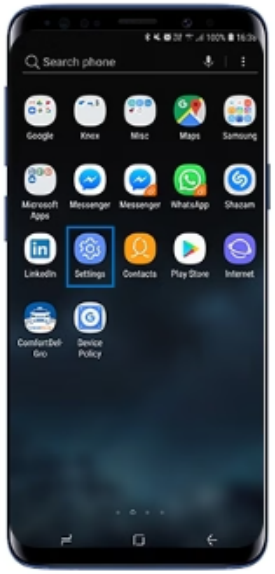
https://www.samsung.com/us/support/answer/ANS00062630/

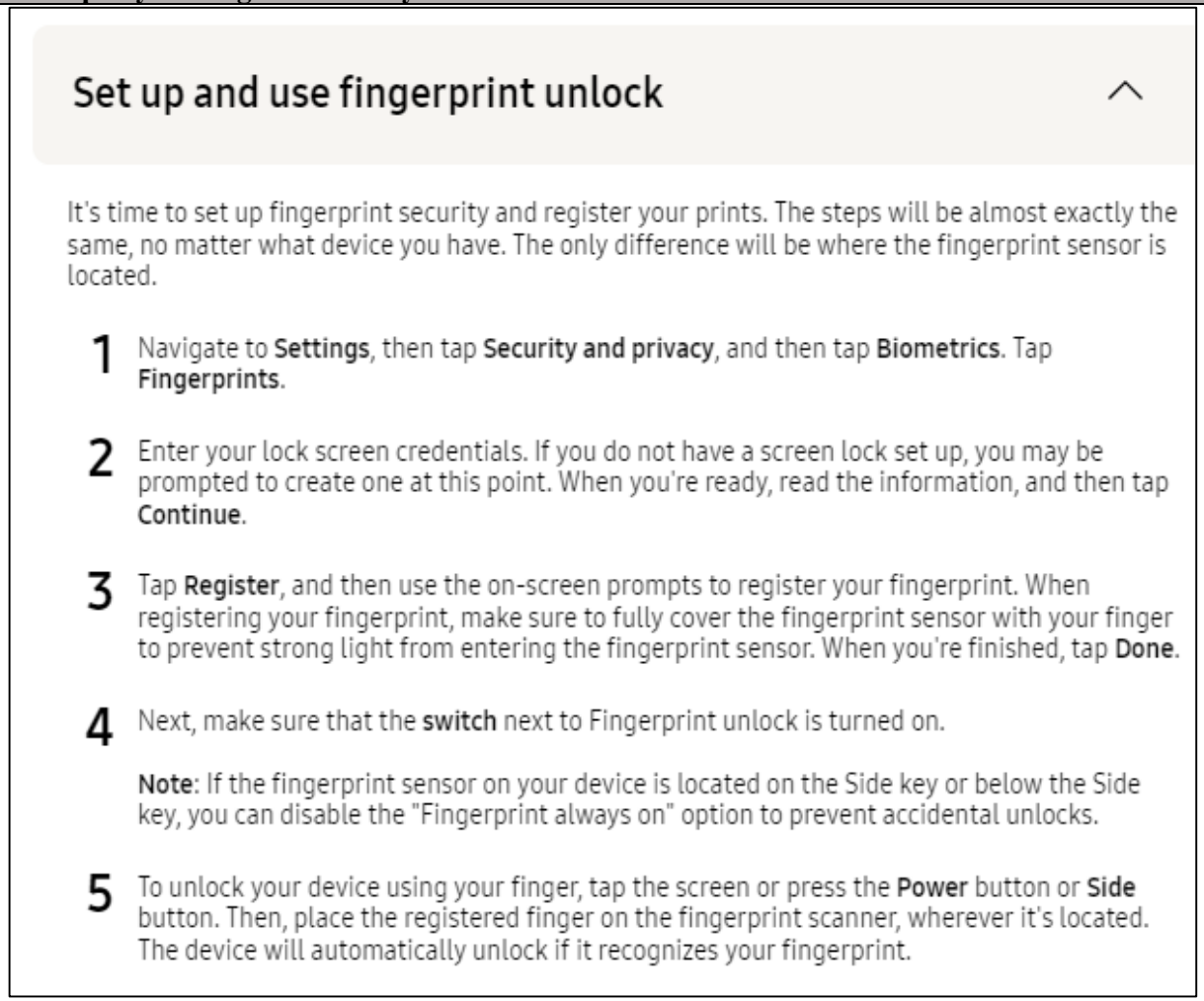
Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12060043?hl=en# Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[11.c.] responsive to the value that is	The Accused Products use a method that involves, "responsive to the value that is sensed satisfying the threshold criterion, enabling a number of functions of the wireless device and disabling a function of the wireless device."

Claim	Exemplary Infringement Analysis[1]
sensed satisfying the threshold criterion, enabling a number of functions of the wireless device and disabling a function of the wireless device;	On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, using a Samsung smartphone to conduct financial transactions via Samsung Pay and/or Google Pay includes, responsive to the value that is determined by the Samsung smartphone for the parameter that is sensed satisfying a threshold criterion, such as facial recognition, a fingerprint, or iris recognition, enabling a number of functions of the smartphone (e.g., unlocking the Samsung smartphone or an application) and disabling a function of the smartphone (locking the Samsung smartphone or application). **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ **Q.** What do I need to start using Samsung Pay? **A.** To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay **Q.** Which devices will support iris image authentication for Samsung Pay? **A.** Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

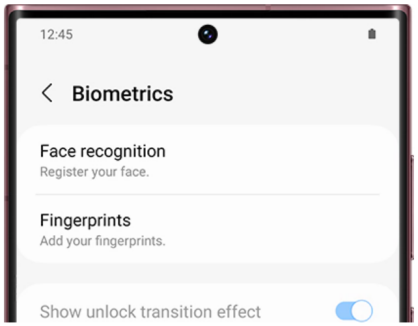
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

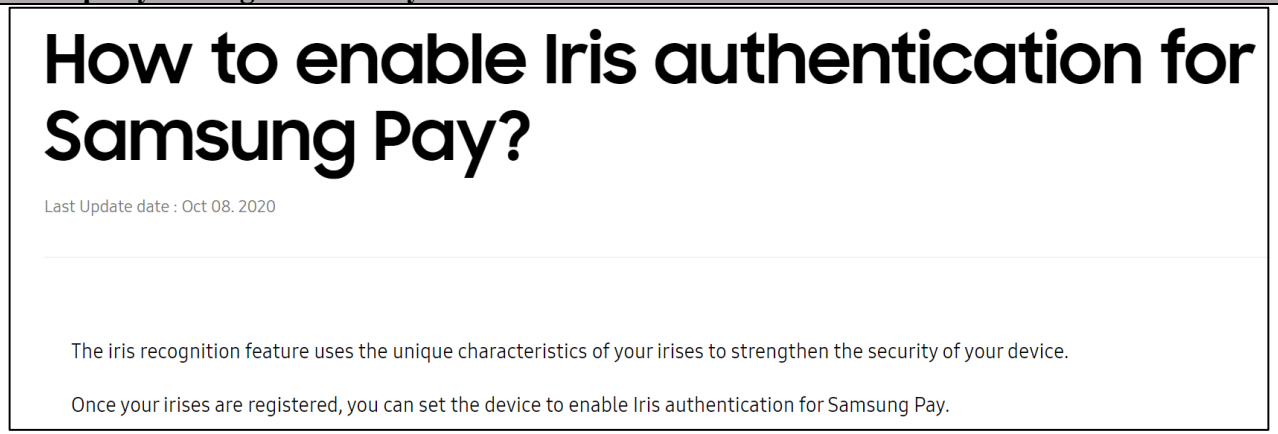
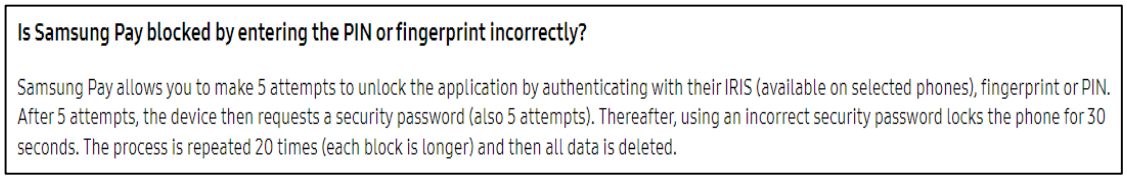
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]

Hello,

Welcome to the Google Wallet community.

Set up screen lock for tap to pay transactions

Important: Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment.

To make contactless payments with Google Wallet, you must use a screen lock on your device for your security.

You can unlock Google Wallet with several methods:

- PIN
- Pattern
- Password
- Fingerprint
- Iris scan
- 3D face unlock

Tip: Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock.

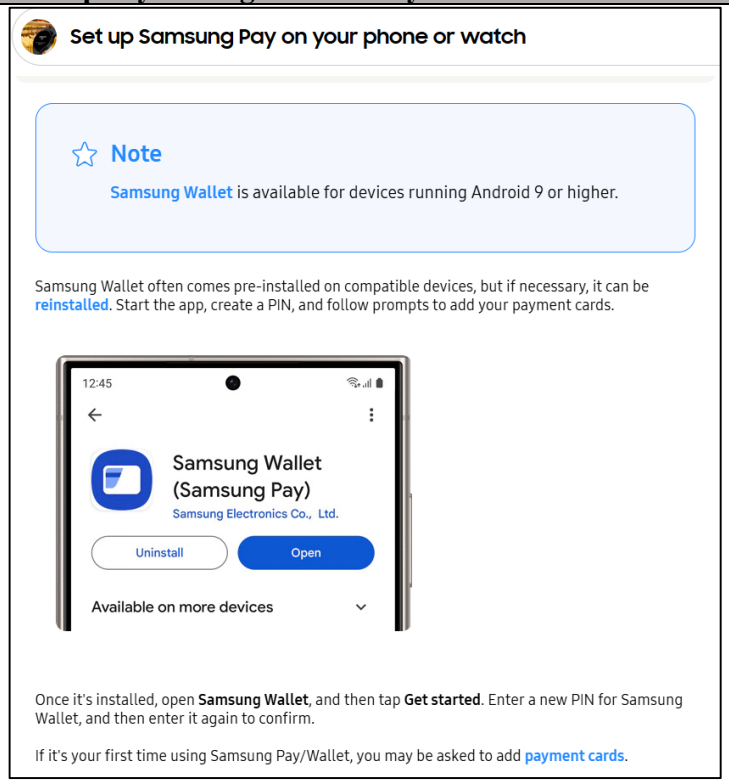
Set or change a screen lock

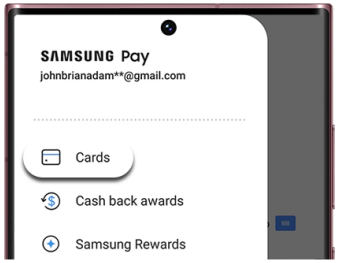
1. Open your phone Settings app.
2. Tap **Security**.
    - If you don't find "Security," you can get help at your phone manufacturer support site.
3. Tap **Screen lock**.
    - If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one.
4. Tap the option you'd like to use. Follow the on-screen instructions.

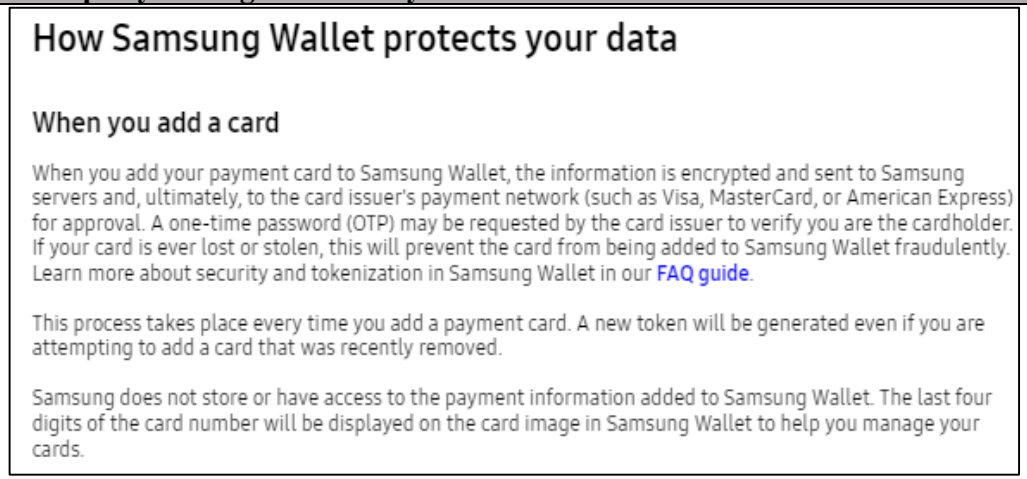
https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]
	Pay in a store **Step 1: Wake up & unlock your phone** **Important:** For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions. Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app. **Tip:** In most countries or regions, smaller transactions don't require you to unlock your phone. **Step 2: Hold the back of your phone to the payment reader** When you're done paying, a blue check mark appears on the screen. If the check mark isn't on your screen: • Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device. • Hold your phone closer to the payment reader. • Hold your phone to the payment reader for a few extra seconds. If there's a check mark but the cashier says that the payment didn't work: • Double-check if the store accepts mobile payments. • Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged. **Step 3: If prompted, follow the on-screen instructions** Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen. • **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device. • **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box. https://support.google.com/wallet/answer/12060043?hl=en# Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[11.d.] requesting by the wireless device	The Accused Products use a method that involves "requesting by the wireless device from a second device an authorization to enable a function for conducting a financial transaction."

Claim	Exemplary Infringement Analysis[1]
from a second device an authorization to enable a function for conducting a financial transaction;	On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, the user may set up a payment method in Samsung Pay and/or Google Pay by, for example, adding a credit card (e.g., requesting an authorization to establish a function to conduct a financial transaction). To add a credit card, the Samsung smartphone transmits to the base station (a second device) data requesting authorization to use the credit card in future transactions. **Q.** What do I need to start using Samsung Pay? **A.** To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay **Q.** Which devices will support iris image authentication for Samsung Pay? **A.** Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 How Samsung Wallet protects your data When you add a card When you add your payment card to Samsung Wallet, the information is encrypted and sent to Samsung servers and, ultimately, to the card issuer's payment network (such as Visa, MasterCard, or American Express) for approval. A one-time password (OTP) may be requested by the card issuer to verify you are the cardholder. If your card is ever lost or stolen, this will prevent the card from being added to Samsung Wallet fraudulently. Learn more about security and tokenization in Samsung Wallet in our FAQ guide. This process takes place every time you add a payment card. A new token will be generated even if you are attempting to add a card that was recently removed. Samsung does not store or have access to the payment information added to Samsung Wallet. The last four digits of the card number will be displayed on the card image in Samsung Wallet to help you manage your cards. https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]

If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps:

1. Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card.

   You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card.

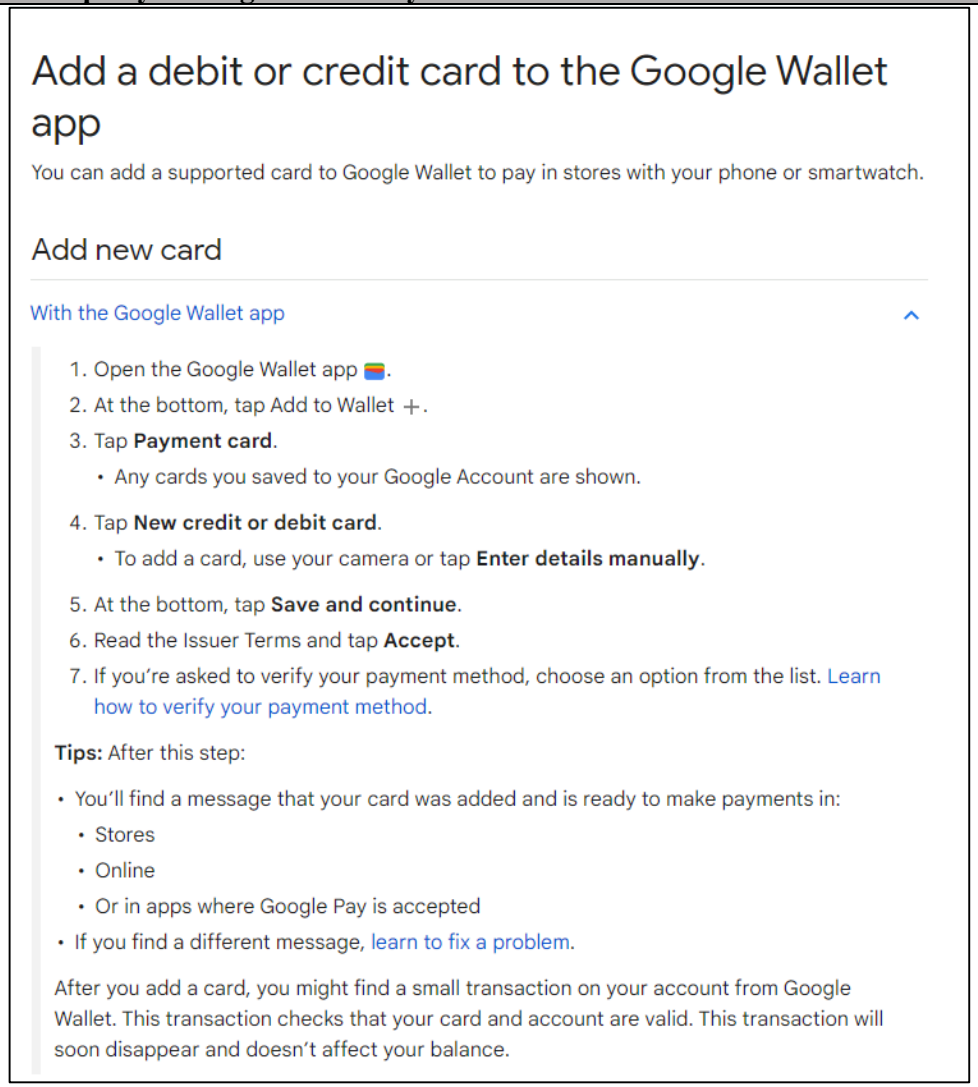
   Please note: The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct.

2. Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up.

3. You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen.

https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]



Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

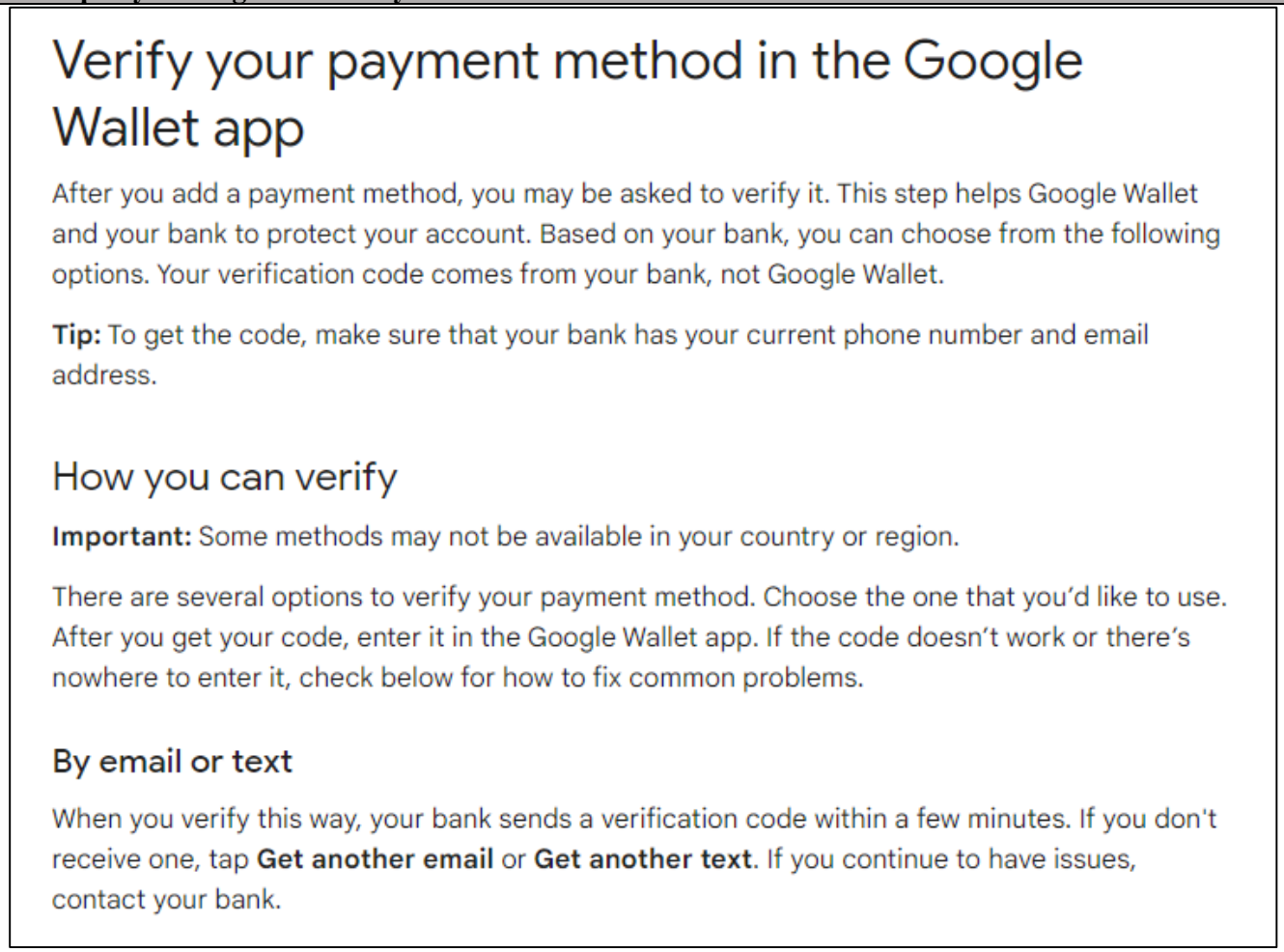
1. Open the Google Wallet app.
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

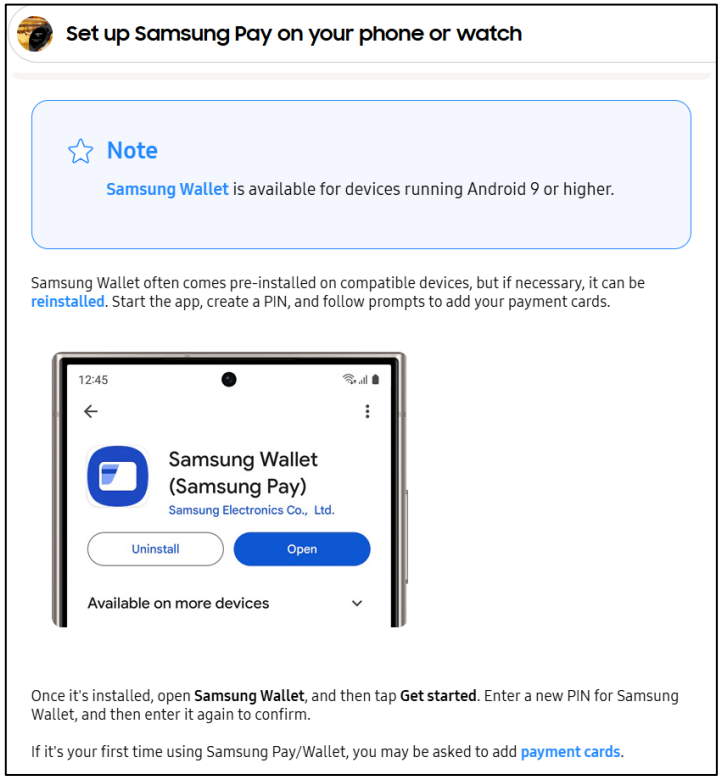
Tips: After this step:

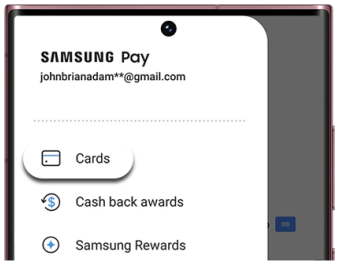
- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

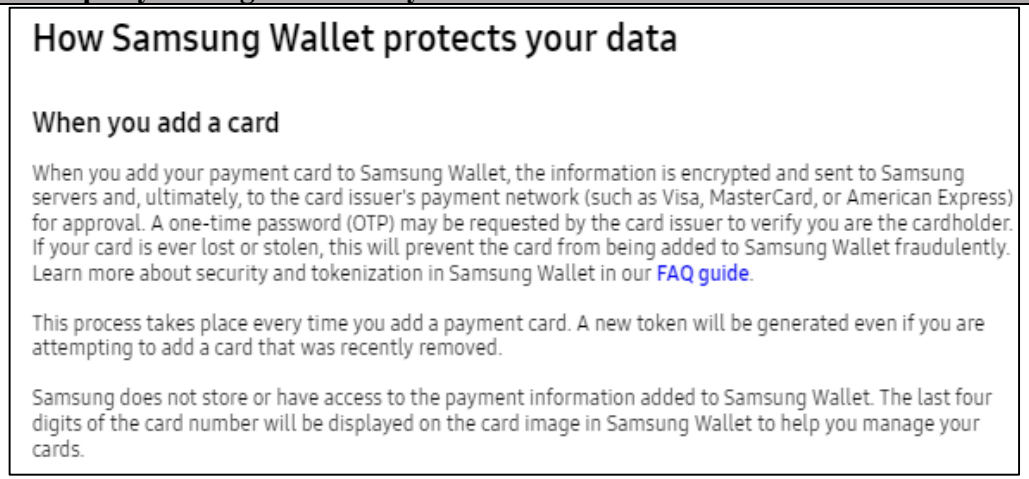
After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[11.e.] responsive to the requesting, receiving by the wireless device from the second device the authorization to enable the function for conducting the financial transaction;	The Accused Products use a method that involves, "responsive to the requesting, receiving by the wireless device from the second device the authorization to enable the function for conducting the financial transaction." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, in response to requesting authorization, the Samsung smartphone receives the authorization from the card issuer (via the base station (second device)) if the card is eligible for Samsung Pay and/or Google Pay. The authorization establishes the ability to conduct a financial transaction using Samsung Pay and/or Google Pay.  https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]

If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps:

1. Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card.

   You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card.

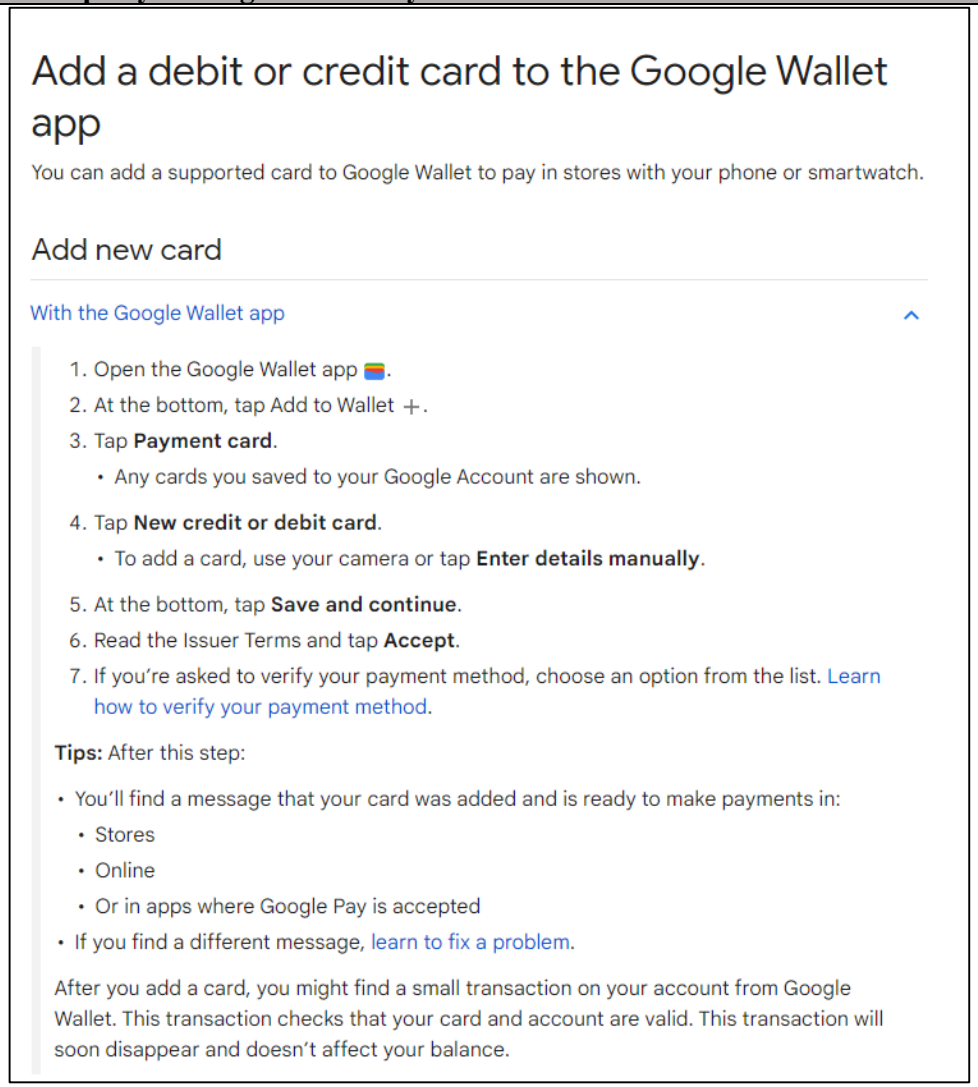
   Please note: The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct.

2. Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up.

3. You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen.

https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]



Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

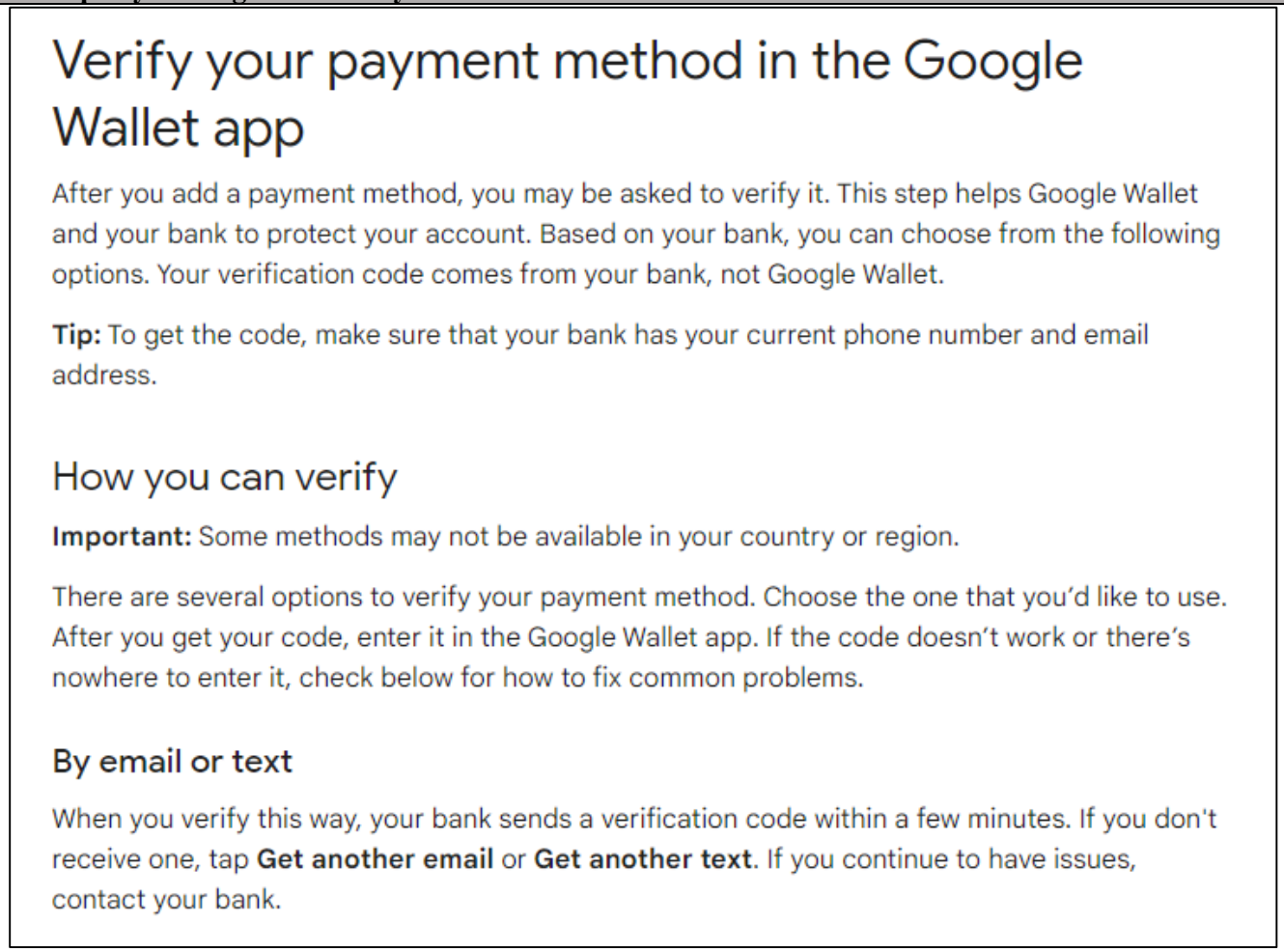
1. Open the Google Wallet app.
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

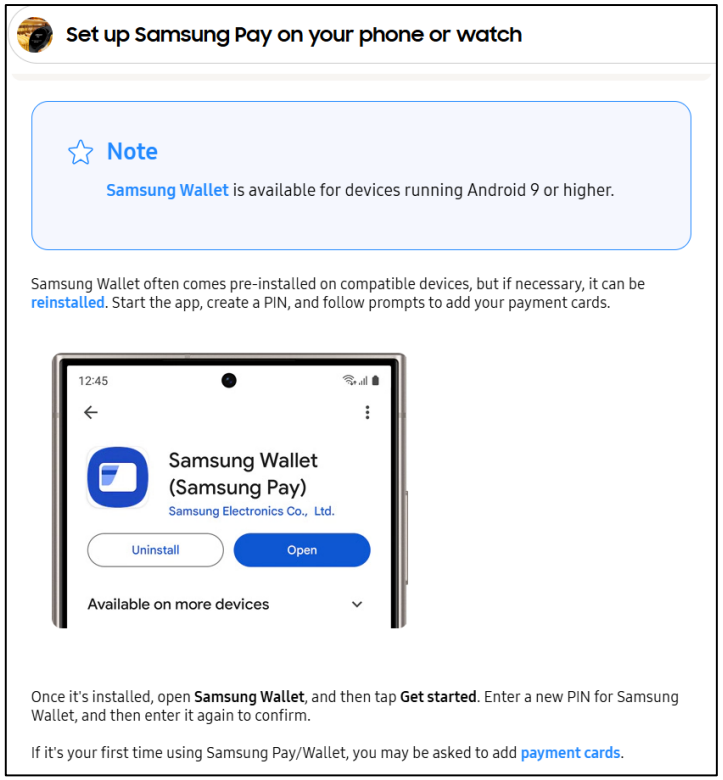
Tips: After this step:

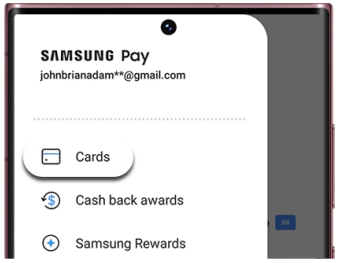
- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

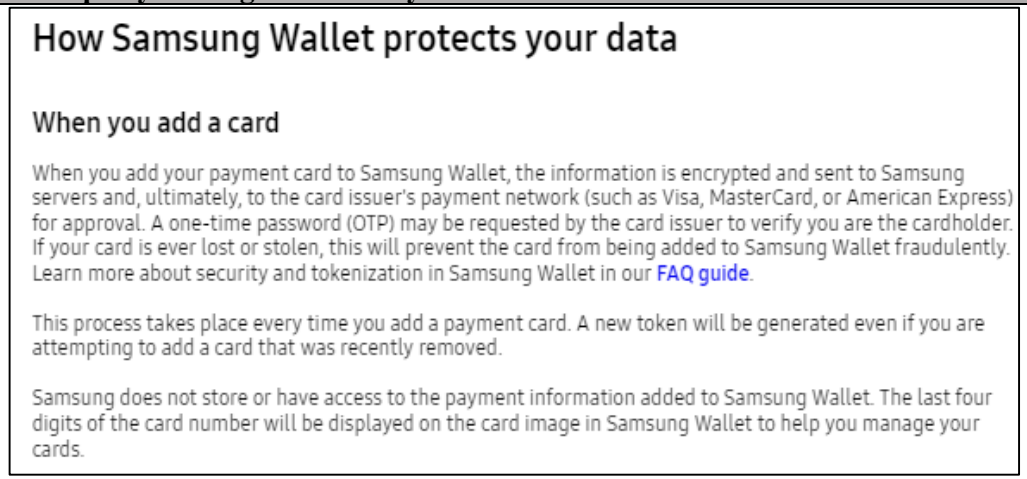
After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[11.f.] responsive to receiving the authorization, enabling at the wireless device the function for conducting the financial transaction; and	The Accused Products use a method that involves, "responsive to receiving the authorization, enabling at the wireless device the function for conducting the financial transaction." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, once the Samsung smartphone has received the authorization, the Samsung smartphone user may conduct financial transactions using Samsung Pay and/or Google Pay.  https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]

If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps:

1. Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card.

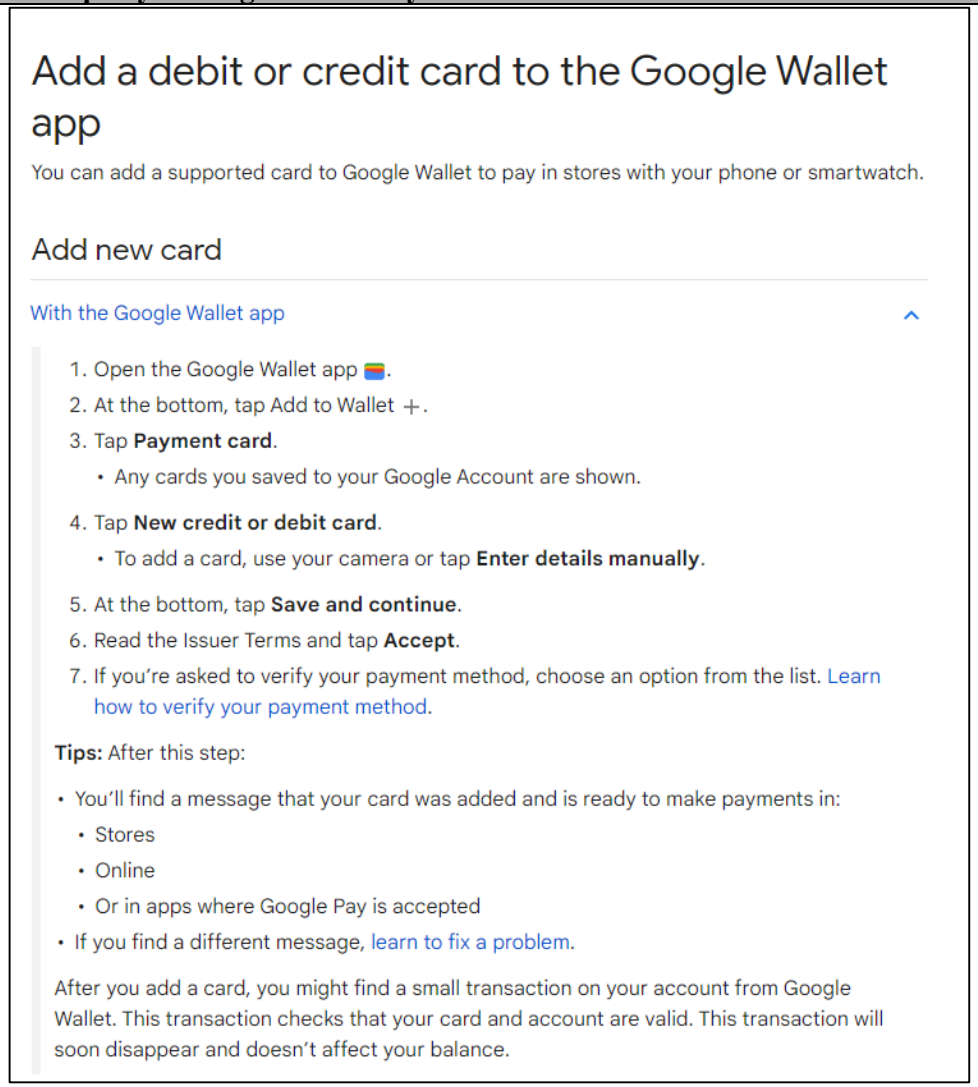
   You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card.

   Please note: The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct.

2. Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up.

3. You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen.

https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]
	

Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

1. Open the Google Wallet app .
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

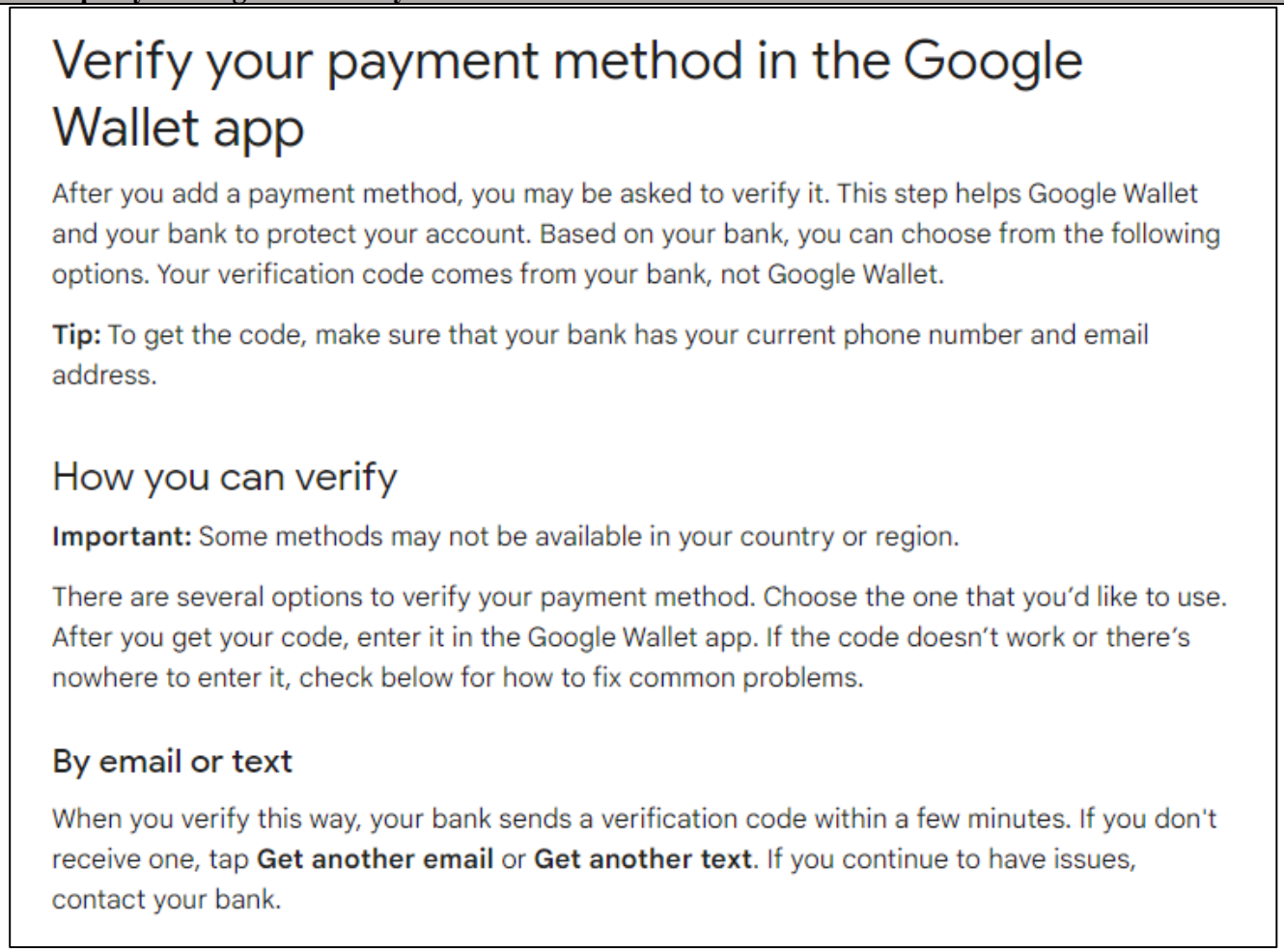
Tips: After this step:

- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

Claim	Exemplary Infringement Analysis[1]



Verify your payment method in the Google Wallet app

After you add a payment method, you may be asked to verify it. This step helps Google Wallet and your bank to protect your account. Based on your bank, you can choose from the following options. Your verification code comes from your bank, not Google Wallet.

Tip: To get the code, make sure that your bank has your current phone number and email address.

How you can verify

Important: Some methods may not be available in your country or region.

There are several options to verify your payment method. Choose the one that you'd like to use. After you get your code, enter it in the Google Wallet app. If the code doesn't work or there's nowhere to enter it, check below for how to fix common problems.

By email or text

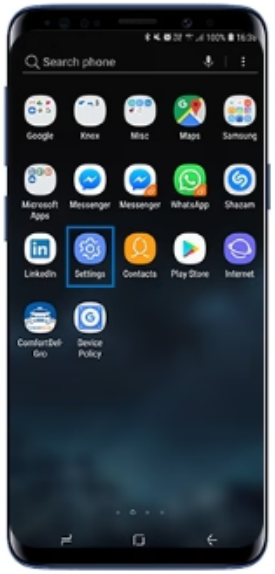
When you verify this way, your bank sends a verification code within a few minutes. If you don't receive one, tap **Get another email** or **Get another text**. If you continue to have issues, contact your bank.

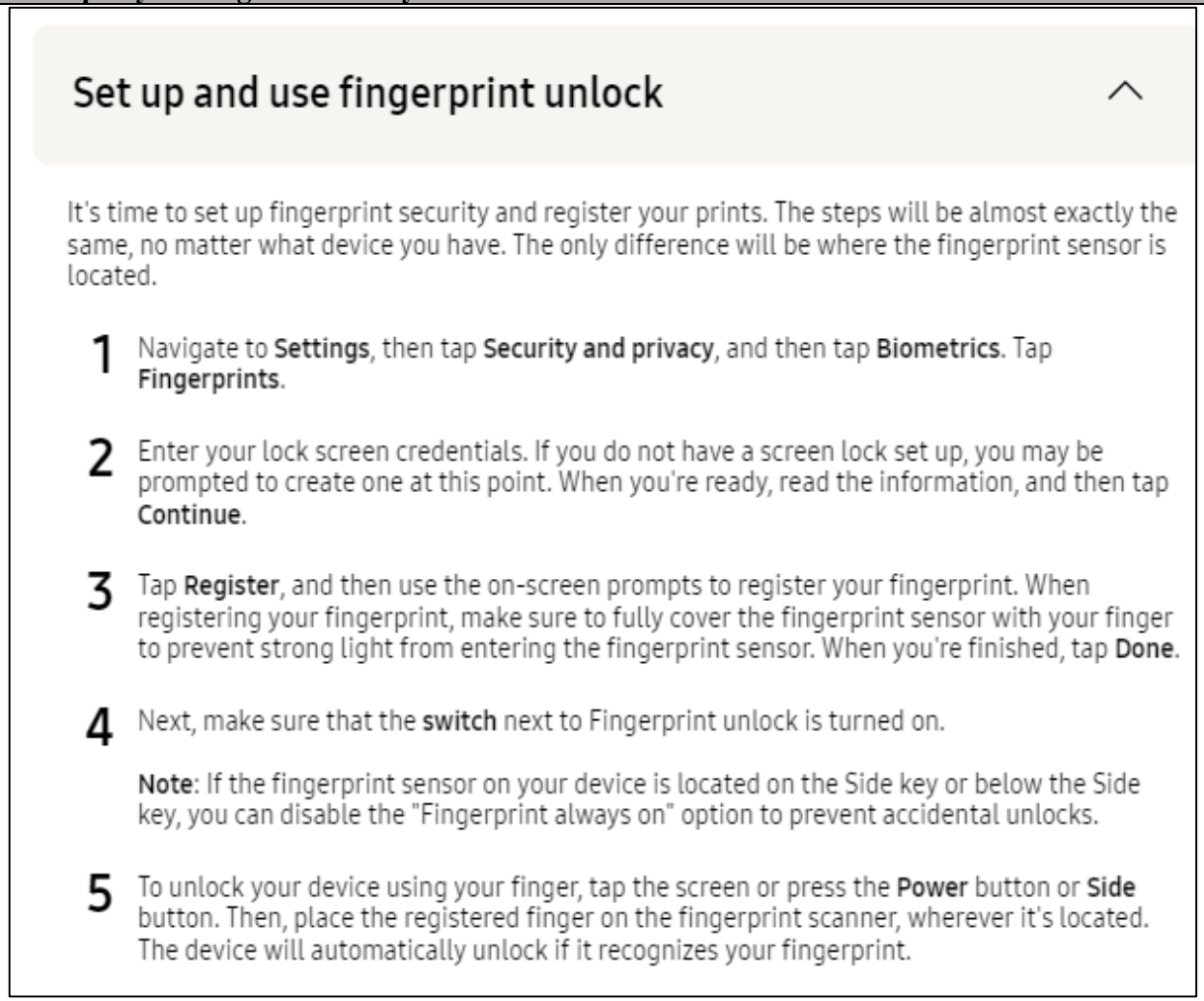
https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[11.g.] responsive to the wireless device satisfying a proximity condition relative to an entity and responsive to the wireless device sensing the parameter and determining that the value sensed satisfies the threshold criterion, using the function for conducting the financial transaction and conducting the financial transaction by paying for a product;	The Accused Products use a method that involves, "responsive to the wireless device satisfying a proximity condition relative to an entity and responsive to the wireless device sensing the parameter and determining that the value sensed satisfies the threshold criterion, using the function for conducting the financial transaction and conducting the financial transaction by paying for a product." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, using a Samsung smartphone to conduct a financial transaction via Samsung Pay and/or Google Pay includes using Samsung Pay and/or Google Pay (the function that was established) to conduct the financial transaction by paying for a product. Use of the function (Samsung Pay and/or Google Pay functionality) to pay for a product is in response to satisfaction of a proximity condition between the Samsung smartphone and a point-of-sale terminal (the entity) and in response to sensing the physiological parameter value and determining that the sensed physiological parameter satisfies a criterion. The proximity criterion is satisfied by the Samsung smartphone being within range of the point-of-sale terminal for NFC communications. Also, conducting the transaction via Samsung Pay and/or Google Pay includes recognizing and accepting a face, fingerprint, or iris associated with the user. **How does Samsung Pay work?** Samsung Pay uses Near Field Communication (NFC) to make contactless mobile payments. **How do I make in-store purchases with Samsung Pay?** - Start by either swiping-up from the home button or opening the Samsung Pay app from your home screen. - Next, select the card you want to pay with. - You can authenticate by IRIS (available on selected phones), fingerprint or pin. - Hover your phone about 2-4 cm over the card reader where you'd usually tap your physical card to complete the transaction. https://www.samsung.com/uk/samsung-pay/faq/ Near Field Communication (NFC) technology allows users to make secure transactions, exchange digital content, and connect electronic devices with a touch. NFC transmissions are short range (from a touch to a few centimetres) and require the devices to be in close proximity. NFC is the technology in contactless cards, and the most common use of NFC technology in your smartphone is making easy payments with Samsung Pay. NFC can also be used to quickly connect with wireless devices and transfer data with Android Beam. https://www.samsung.com/uk/support/mobile-devices/what-is-nfc-and-how-do-i-use-it/

Claim	Exemplary Infringement Analysis[1]
	Q. What do I need to start using Samsung Pay? A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

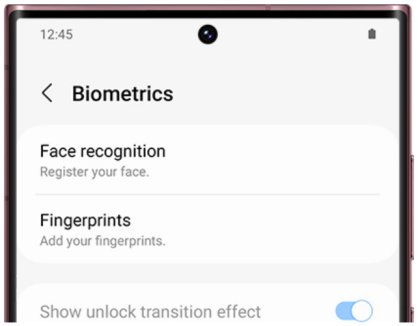
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

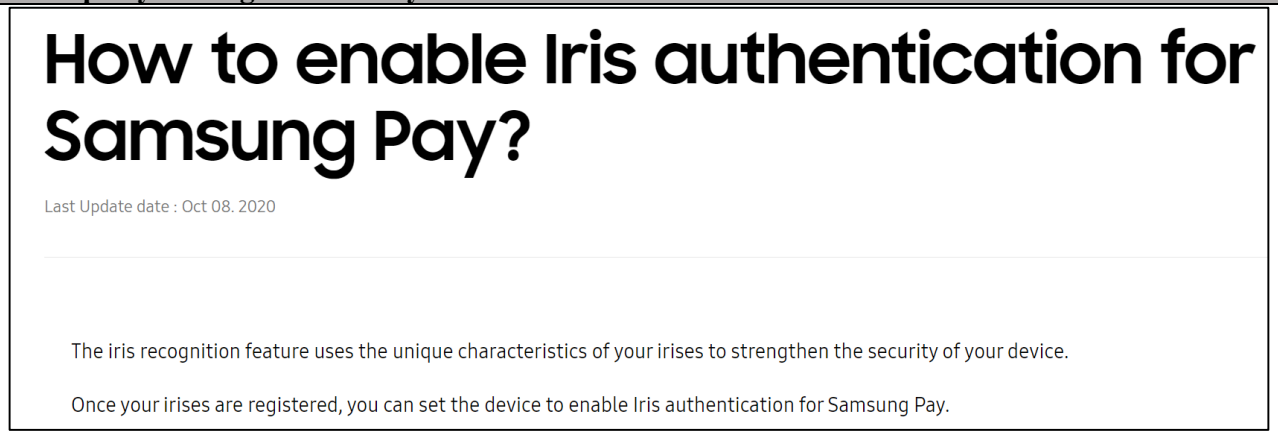
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS00045102/

Claim	Exemplary Infringement Analysis[1]
	Where you can use Google Wallet **Important:** To make contactless payments, Near Field Communication (NFC) must be on. To turn on NFC, check your phone settings app. To use tap to pay on Pixel Fold or another foldable device, fold your device. You can pay with Google Wallet wherever you find the contactless or Google Pay symbols. They're located on the payment terminal screen or cash register at checkout. You can buy items with your phone or pay for transit on trains and buses on contactless terminals with either of these logos:   *Google Pay symbol* *Contactless symbol* https://support.google.com/wallet/answer/12060043?hl=en

Claim	Exemplary Infringement Analysis[1]

Hello,

Welcome to the Google Wallet community.

Set up screen lock for tap to pay transactions

Important: Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment.

To make contactless payments with Google Wallet, you must use a screen lock on your device for your security.

You can unlock Google Wallet with several methods:

- PIN
- Pattern
- Password
- Fingerprint
- Iris scan
- 3D face unlock

Tip: Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock.

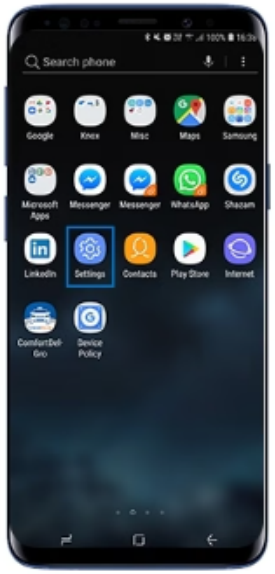
Set or change a screen lock

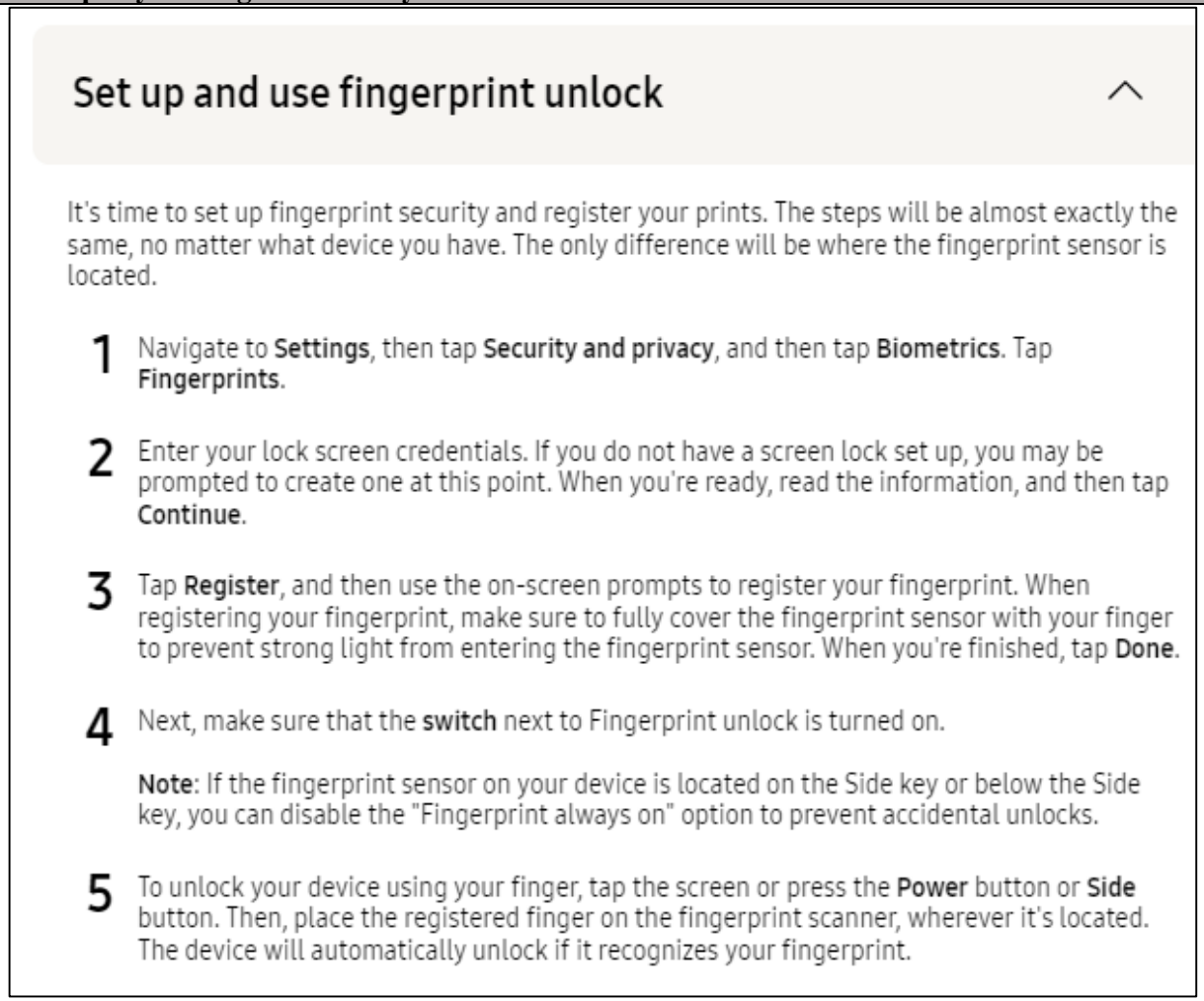
1. Open your phone Settings app.
2. Tap **Security**.
    - If you don't find "Security," you can get help at your phone manufacturer support site.
3. Tap **Screen lock**.
    - If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one.
4. Tap the option you'd like to use. Follow the on-screen instructions.

https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]
	Pay in a store **Step 1: Wake up & unlock your phone** **Important:** For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions. Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app. **Tip:** In most countries or regions, smaller transactions don't require you to unlock your phone. **Step 2: Hold the back of your phone to the payment reader** When you're done paying, a blue check mark appears on the screen. If the check mark isn't on your screen: • Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device. • Hold your phone closer to the payment reader. • Hold your phone to the payment reader for a few extra seconds. If there's a check mark but the cashier says that the payment didn't work: • Double-check if the store accepts mobile payments. • Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged. **Step 3: If prompted, follow the on-screen instructions** Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen. • **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device. • **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box. https://support.google.com/wallet/answer/12060043?hl=en# Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[11.h.] wherein the parameter that is	The Accused Products perform the method above, "wherein the parameter that is sensed, using the sensor of the wireless device, comprises a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of

Claim	Exemplary Infringement Analysis[1]
sensed, using the sensor of the wireless device, comprises a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state; and	brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, the parameter that is sensed using the Samsung smartphone's device-based sensor includes a physiological state via facial recognition, a fingerprint, or iris recognition. **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ Q. What do I need to start using Samsung Pay? A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

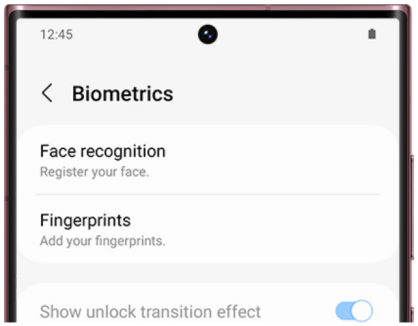
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

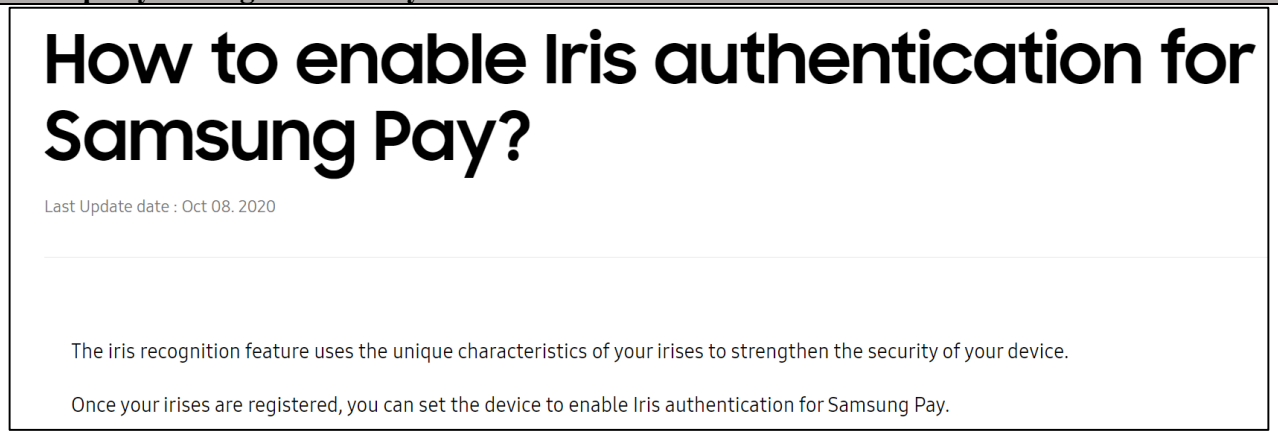
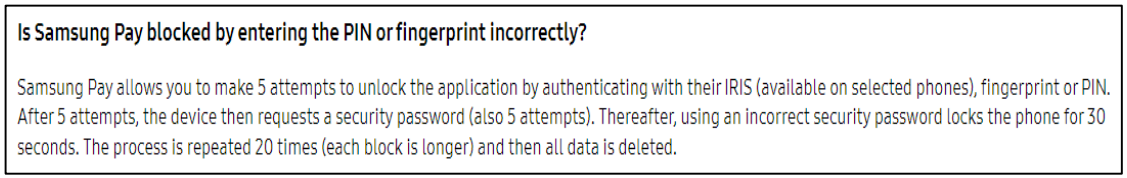
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.

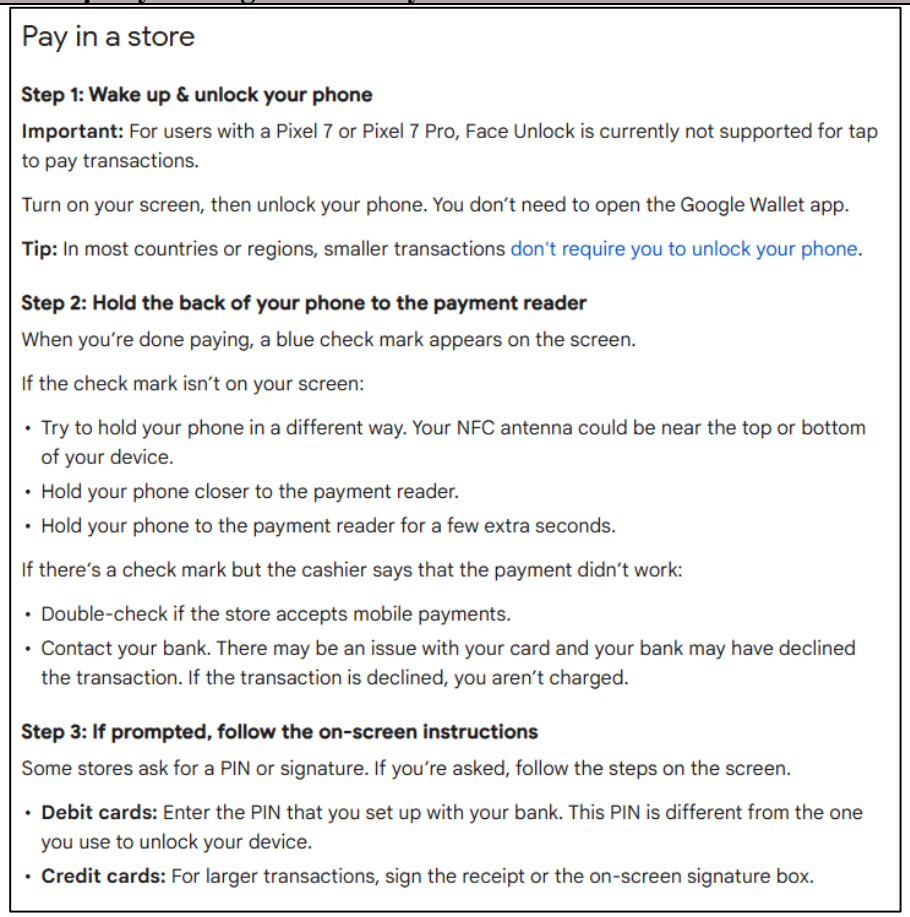


https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

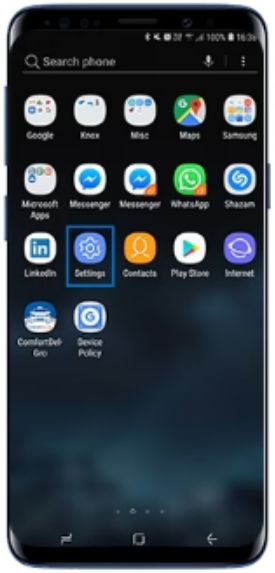
Claim	Exemplary Infringement Analysis[1]
	Where you can use Google Wallet **Important:** To make contactless payments, Near Field Communication (NFC) must be on. To turn on NFC, check your phone settings app. To use tap to pay on Pixel Fold or another foldable device, fold your device. You can pay with Google Wallet wherever you find the contactless or Google Pay symbols. They're located on the payment terminal screen or cash register at checkout. You can buy items with your phone or pay for transit on trains and buses on contactless terminals with either of these logos:   *Google Pay symbol* *Contactless symbol* https://support.google.com/wallet/answer/12060043?hl=en

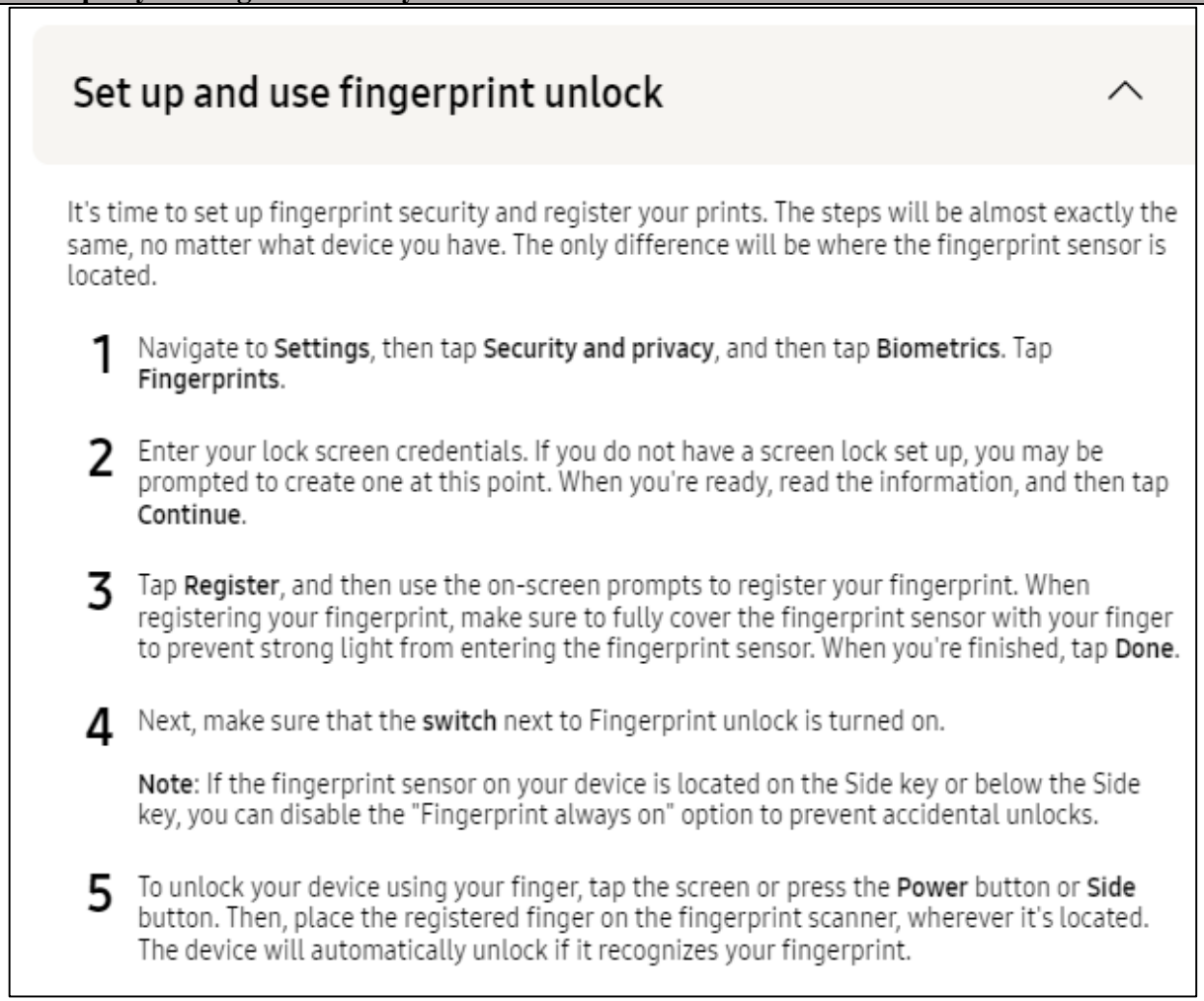
Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

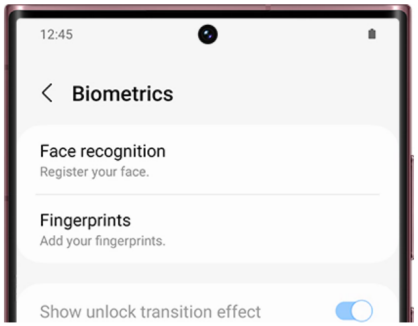
Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12060043?hl=en# Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[11.i.] wherein the wireless device	The Accused Products perform the method above, "wherein the device comprises a smartphone."

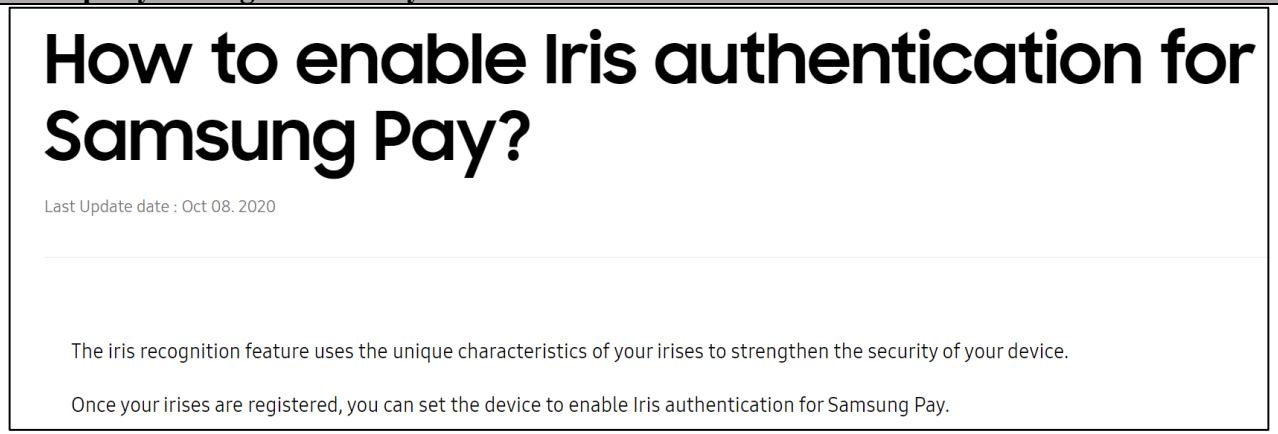
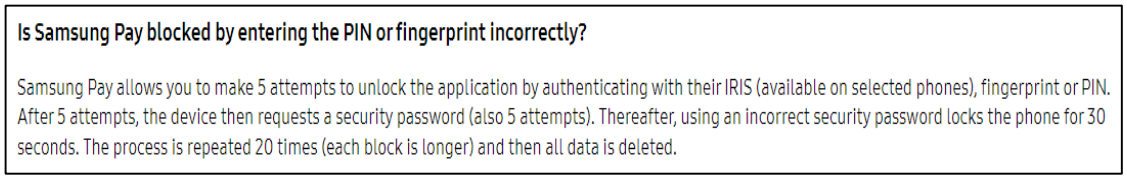
Claim	Exemplary Infringement Analysis[1]
comprises a smartphone.	For example, Samsung-branded smartphones capable of using Samsung Pay and/or Google Pay are smartphones. **Galaxy Z Series** Galaxy Z Fold6 | Z Flip6 Galaxy Z Fold5 | Z Flip5 Galaxy Z Fold4 | Z Flip4 Galaxy Z Fold3 | Z Flip3 5G Galaxy Z Fold2 5G* Galaxy Z Flip* Galaxy Fold* **Galaxy Note Series** Galaxy Note20 | Note20 Ultra 5G* Galaxy Note10 Lite Galaxy Note10 | Note10+* Galaxy Note9* Galaxy Note8* Galaxy Note Fan Edition* Galaxy Note5* **Galaxy S Series** Galaxy S24 | S24+ | S24 Ultra Galaxy S23 FE 5G Galaxy S23 | S23+ | S23 Ultra 5G Galaxy S22 | S22+ | S22 Ultra 5G Galaxy S21 FE 5G Galaxy S21 | S21+ | S21 Ultra 5G Galaxy S20 FE | S20 FE 5G Galaxy S20 | S20+ | S20 Ultra* Galaxy S10 Lite Galaxy S10e | S10 | S10+* Galaxy S9 | S9+* Galaxy S8 | S8+* Galaxy S7 edge | S7* Galaxy S6 edge+* *See* https://www.samsung.com/my/samsung-pay/supported-devices/

Claim	Exemplary Infringement Analysis[1]
	Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[12.] The method of claim 11, wherein said enabling a number of functions of the wireless device comprises enabling a number of functions of the wireless device that is greater than or equal to one.	The Accused Products use a method that involves "wherein said enabling by the device a number of functions of the wireless device comprises enabling by the wireless device a number of functions of the device that is greater than or equal to one." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, using a Samsung smartphone to conduct financial transactions via Samsung Pay and/or Google Pay includes enabling a number of functions of the Samsung smartphone that is greater than or equal to one, including unlocking the Samsung smartphone or an application. **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ Q. What do I need to start using Samsung Pay? A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay

Claim	Exemplary Infringement Analysis[1]
	Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/ Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

Claim	Exemplary Infringement Analysis[1]
	Set up Facial recognition **Note:** To use Face recognition, you need to set a PIN, Pattern, or Password first. Your face is unique to you, which makes it one of the best security features in your arsenal. 1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**. 2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up. 3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process. 4. When you're done, adjust your desired settings.  https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]

Pay in a store

Step 1: Wake up & unlock your phone

Important: For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions.

Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app.

Tip: In most countries or regions, smaller transactions don't require you to unlock your phone.

Step 2: Hold the back of your phone to the payment reader

When you're done paying, a blue check mark appears on the screen.

If the check mark isn't on your screen:

- Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device.
- Hold your phone closer to the payment reader.
- Hold your phone to the payment reader for a few extra seconds.

If there's a check mark but the cashier says that the payment didn't work:

- Double-check if the store accepts mobile payments.
- Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged.

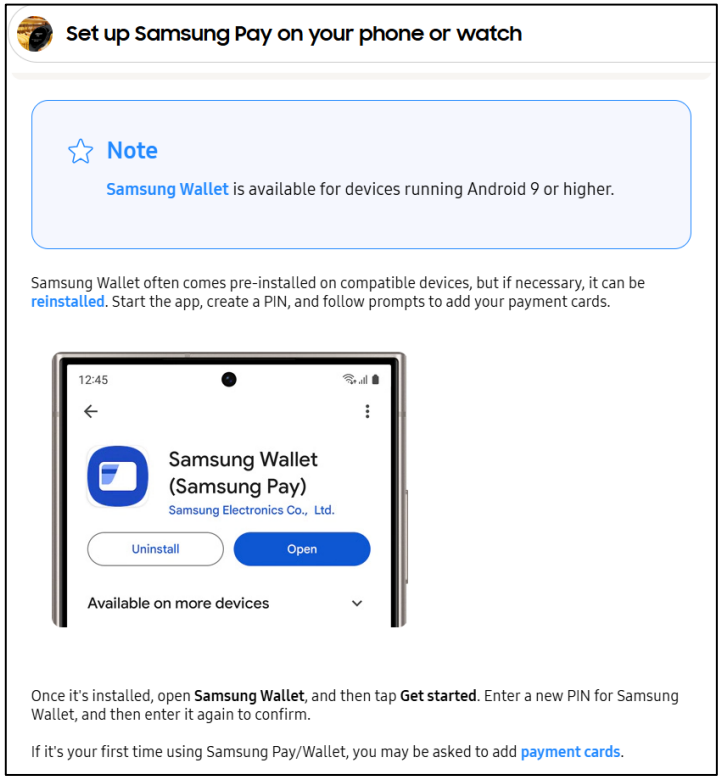
Step 3: If prompted, follow the on-screen instructions

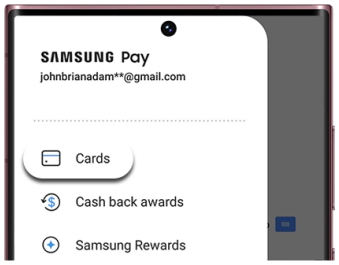
Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen.

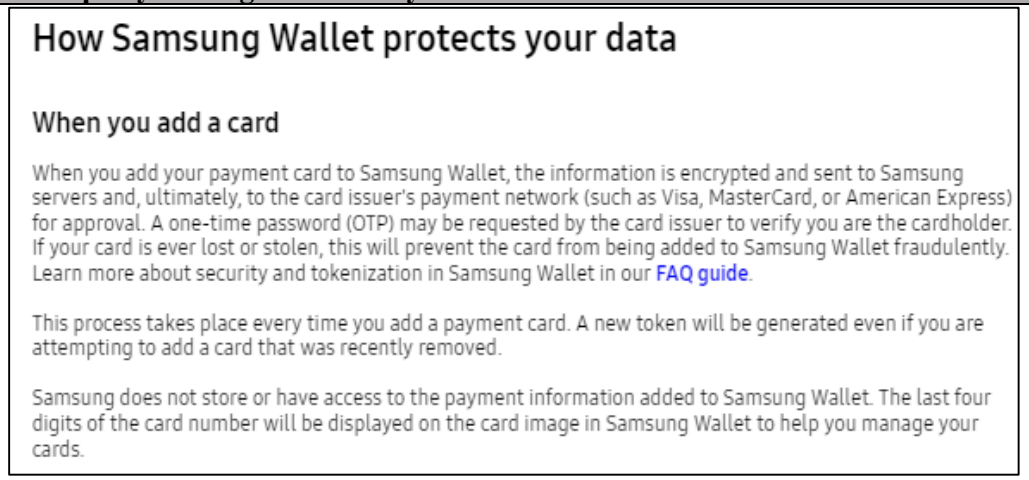
- **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device.
- **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box.

https://support.google.com/wallet/answer/12060043?hl=en#

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

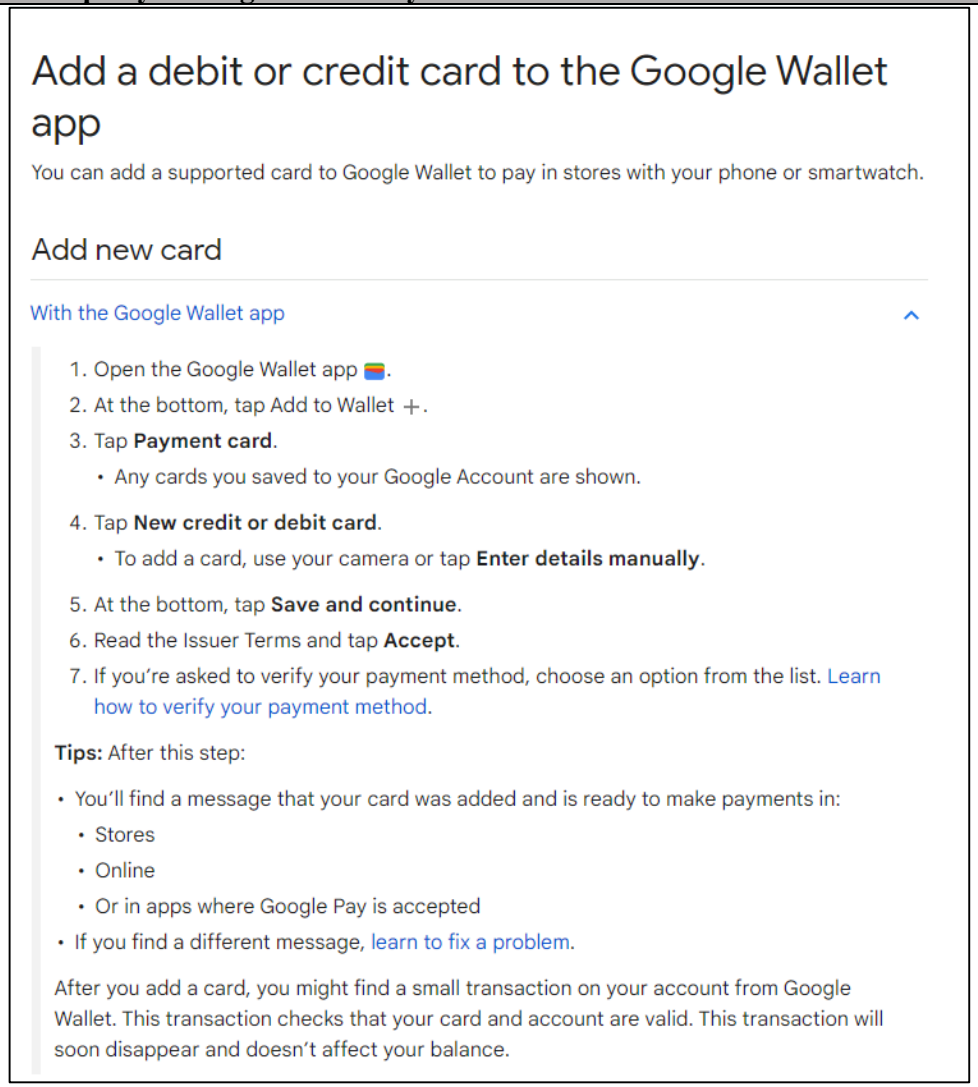
Claim	Exemplary Infringement Analysis[1]
[13.] The method of claim 11, further comprising: enabling at the second device a function for conducting the financial transaction.	The Accused Products perform a method including "enabling at the second device a function for conducting the financial transaction." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, using a Samsung smartphone to conduct a financial transaction via Samsung Pay and/or Google Pay includes enabling at the base station (the second device) a confirmation that Samsung Pay and/or Google Pay has been established on the Samsung smartphone (a function for conducting the financial transaction).  https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]
	If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps: 1 Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card. You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card. **Please note:** The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct. 2 Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up. 3 You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen. https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]



Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

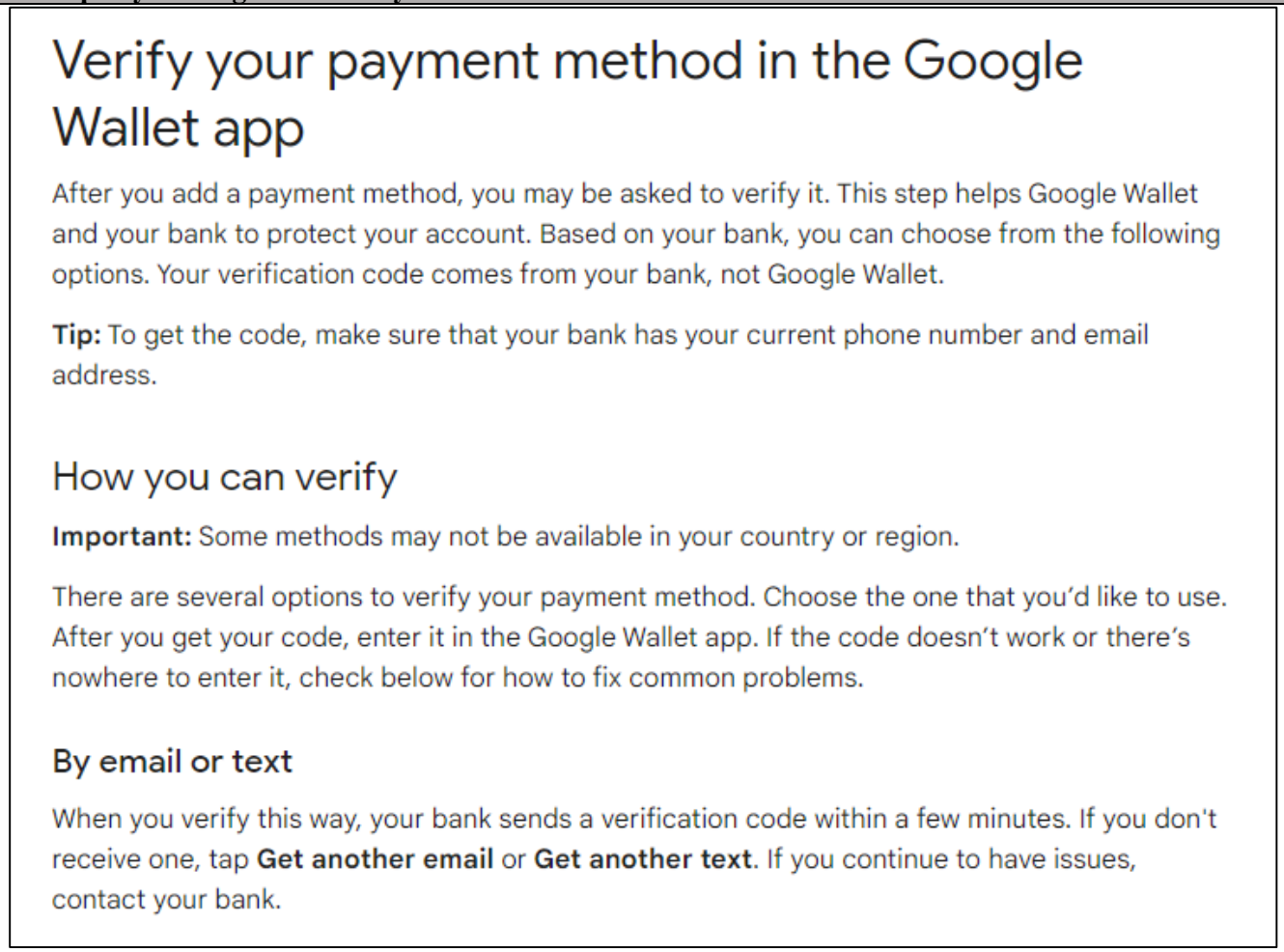
1. Open the Google Wallet app.
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

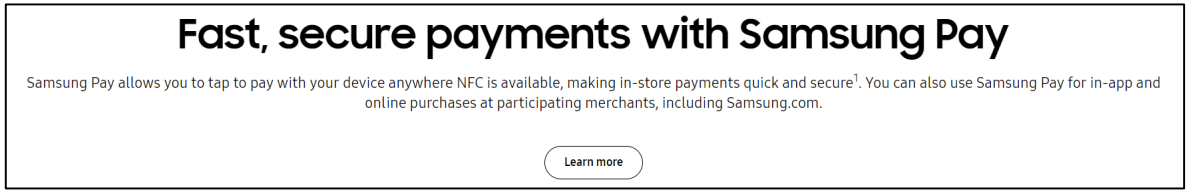
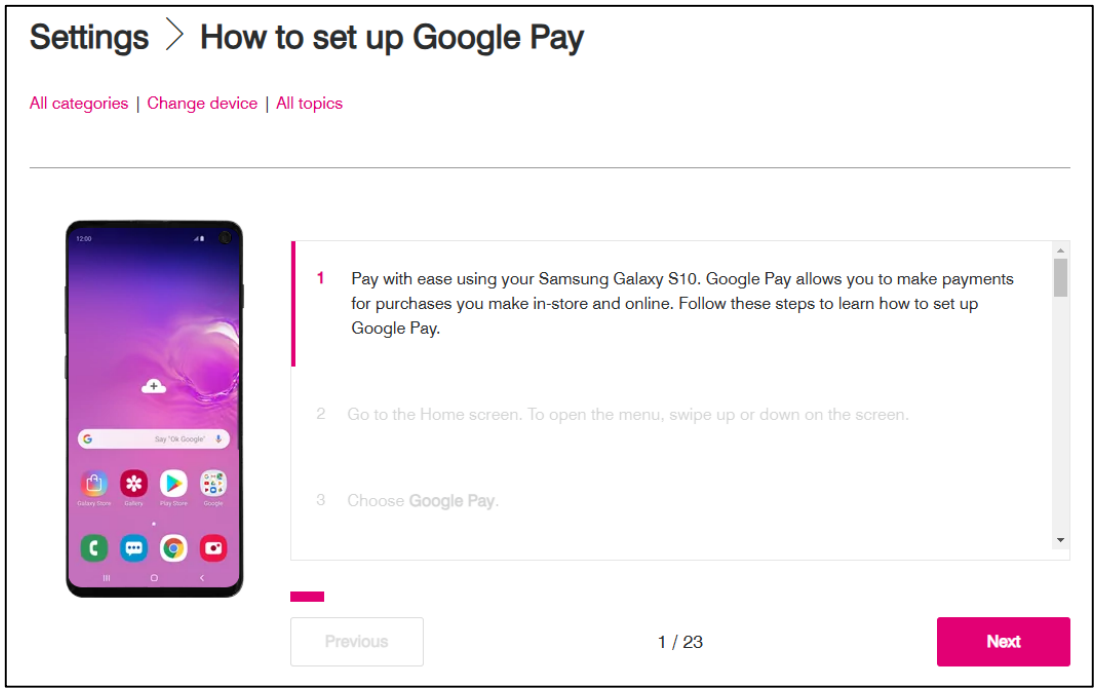
Tips: After this step:

- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

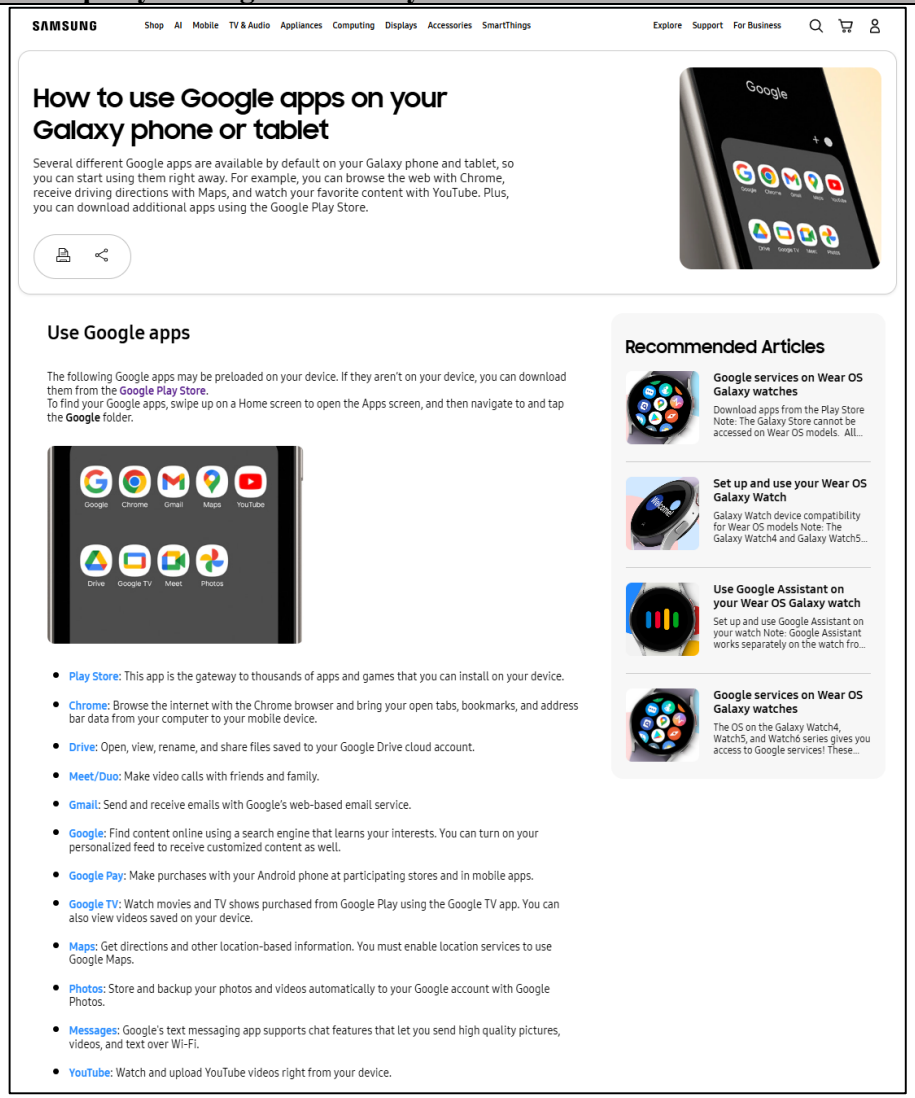
After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

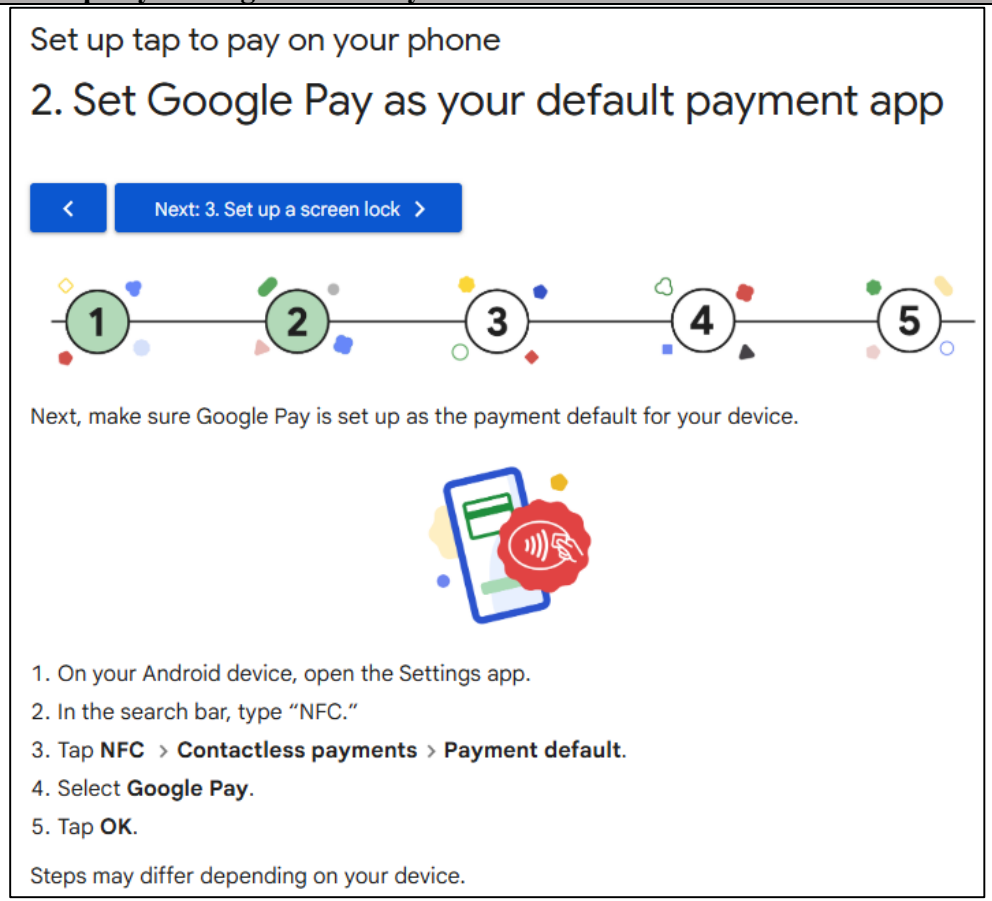
Claim	Exemplary Infringement Analysis[1]
[14.p.] A wireless device that is configured to perform operations comprising:	Each of the Accused Products are a "wireless device that is configured to perform operations." For example, operating a Samsung-branded smartphone to conduct a transaction via Samsung Pay and/or Google Pay satisfies claim 14.  https://www.samsung.com/us/apps/samsung-wallet/  https://www.t-mobile.com/support/tutorials/device/samsung/galaxy-s10/topic/settings/how-to-set-up-google-pay

Claim	Exemplary Infringement Analysis[1]



https://www.samsung.com/us/support/answer/ANS10002548/

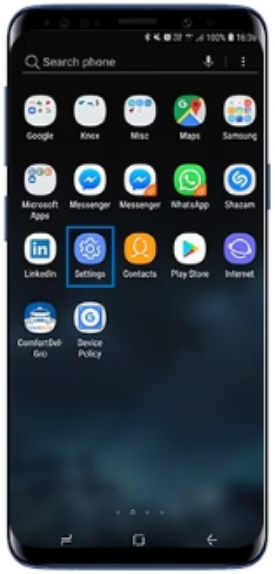
Claim	Exemplary Infringement Analysis[1]

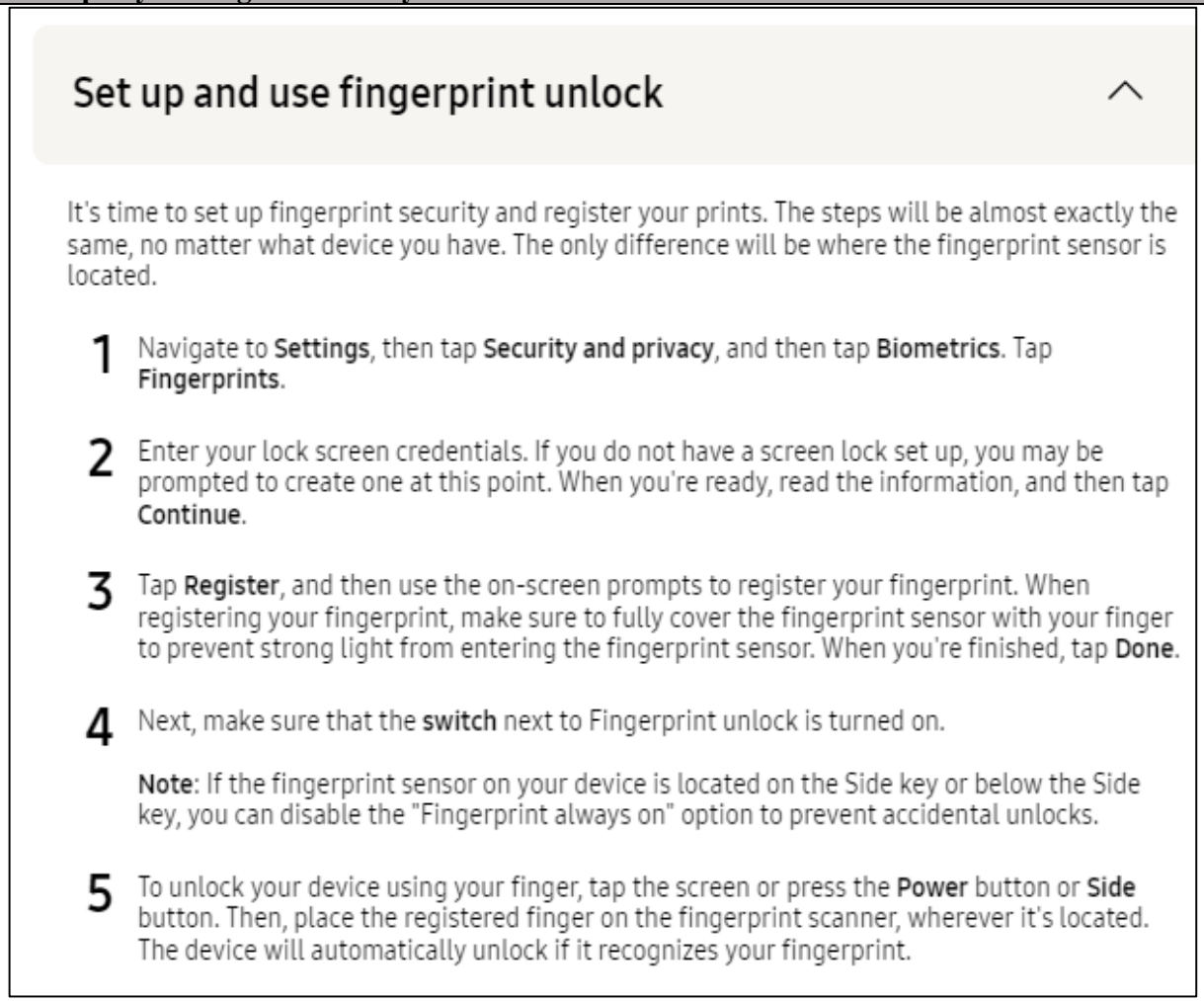


https://support.google.com/wallet/answer/14187052?sjid=3604572701579461674-NA

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[14.a.] using a sensor of the wireless device and sensing a parameter that is associated with the wireless device, an environment of the wireless device and/or a user of the wireless device;	The Accused Products are configured to perform operations including "using a sensor of the wireless device and sensing a parameter that is associated with the wireless device, an environment of the wireless device and/or a user of the wireless device." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including using a sensor of the Samsung smartphone such as a facial recognition, fingerprint, or iris scanner and sensing a parameter that is associated with the device, an environment of the device and/or a user of the device. Q. What do I need to start using Samsung Pay? A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

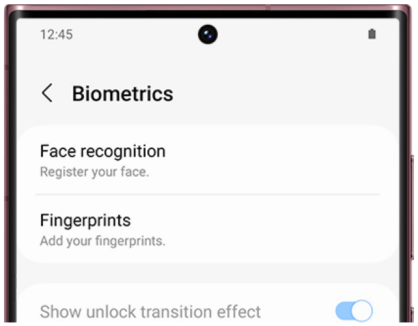
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

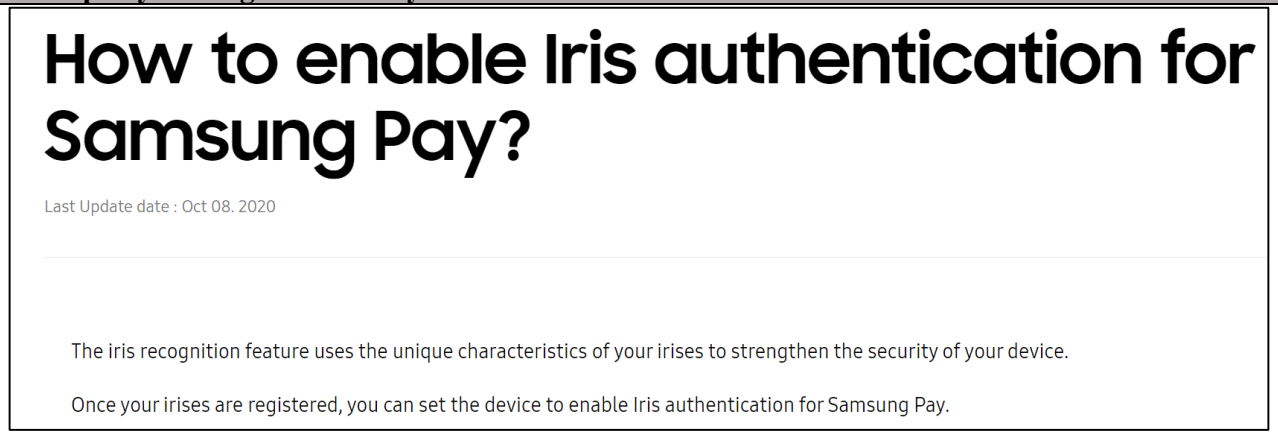
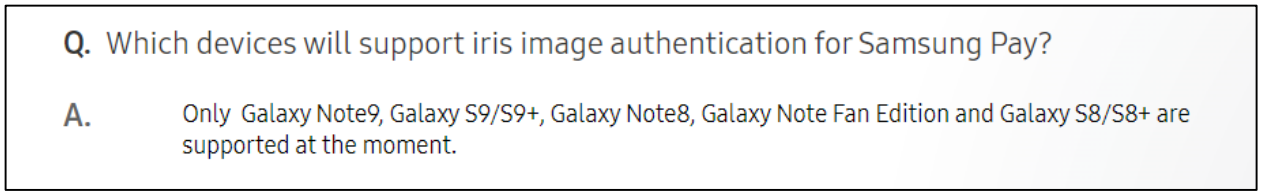
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.

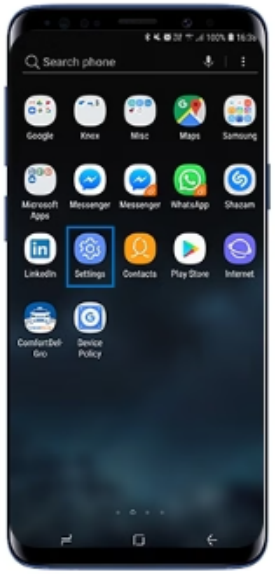


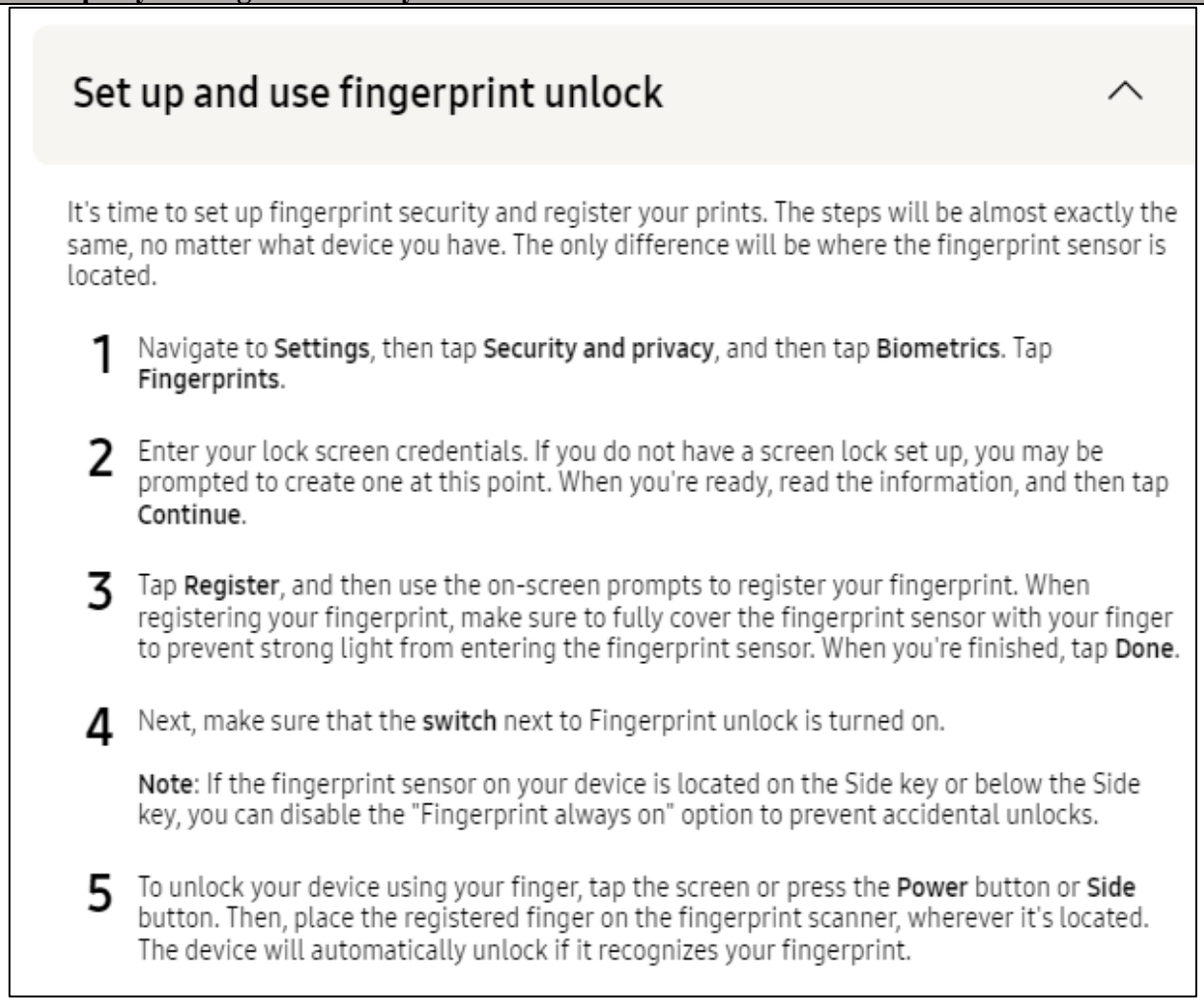
https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[14.b.] determining a value that is associated with the parameter that is sensed and determining whether	The Accused Products are configured to perform operations including "determining a value that is associated with the parameter that is sensed and determining whether or not the value satisfies a threshold criterion." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations

Claim	Exemplary Infringement Analysis[1]
or not the value satisfies a threshold criterion;	including determining by the Samsung smartphone a value of the parameter that is sensed (a facial recognition, fingerprint, or iris) and determining whether or not the value that is sensed satisfies a threshold criterion (a facial recognition, fingerprint, or iris associated with the user). **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ Q. What do I need to start using Samsung Pay? A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

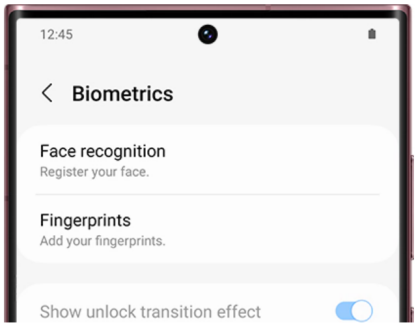
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

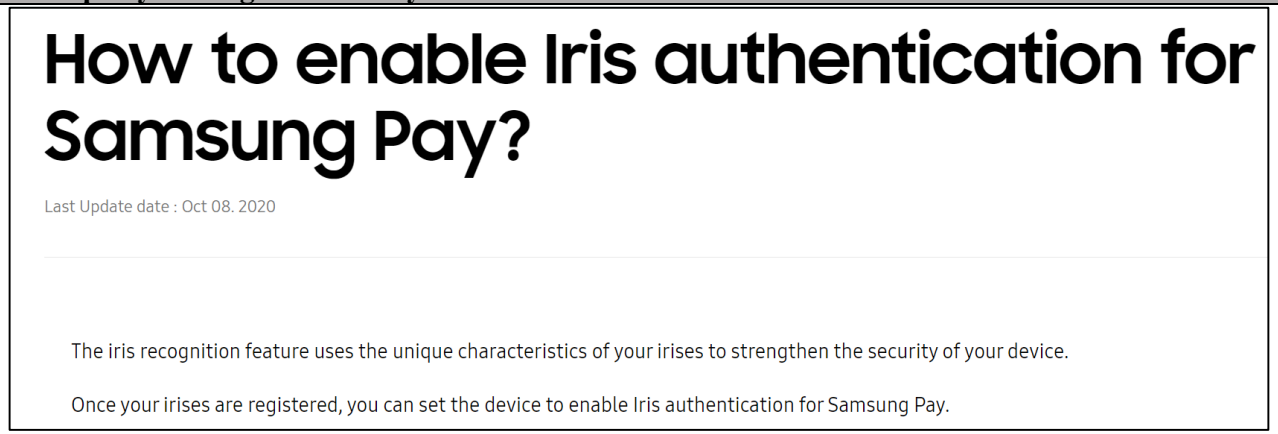
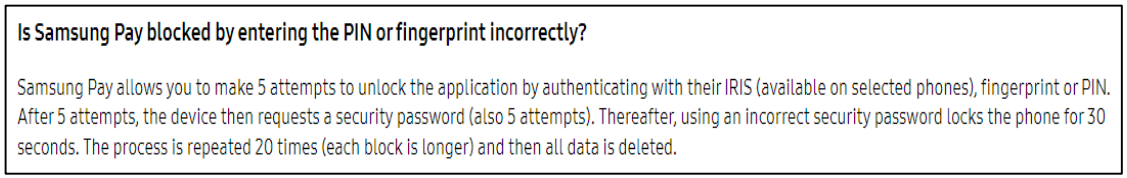
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]

Hello,

Welcome to the Google Wallet community.

Set up screen lock for tap to pay transactions

Important: Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment.

To make contactless payments with Google Wallet, you must use a screen lock on your device for your security.

You can unlock Google Wallet with several methods:

- PIN
- Pattern
- Password
- Fingerprint
- Iris scan
- 3D face unlock

Tip: Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock.

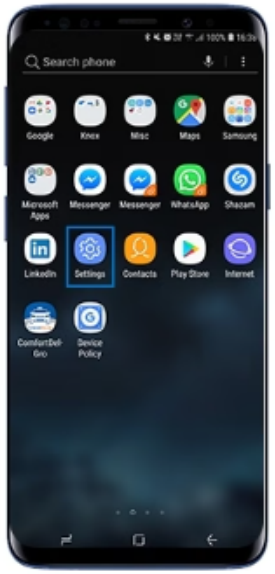
Set or change a screen lock

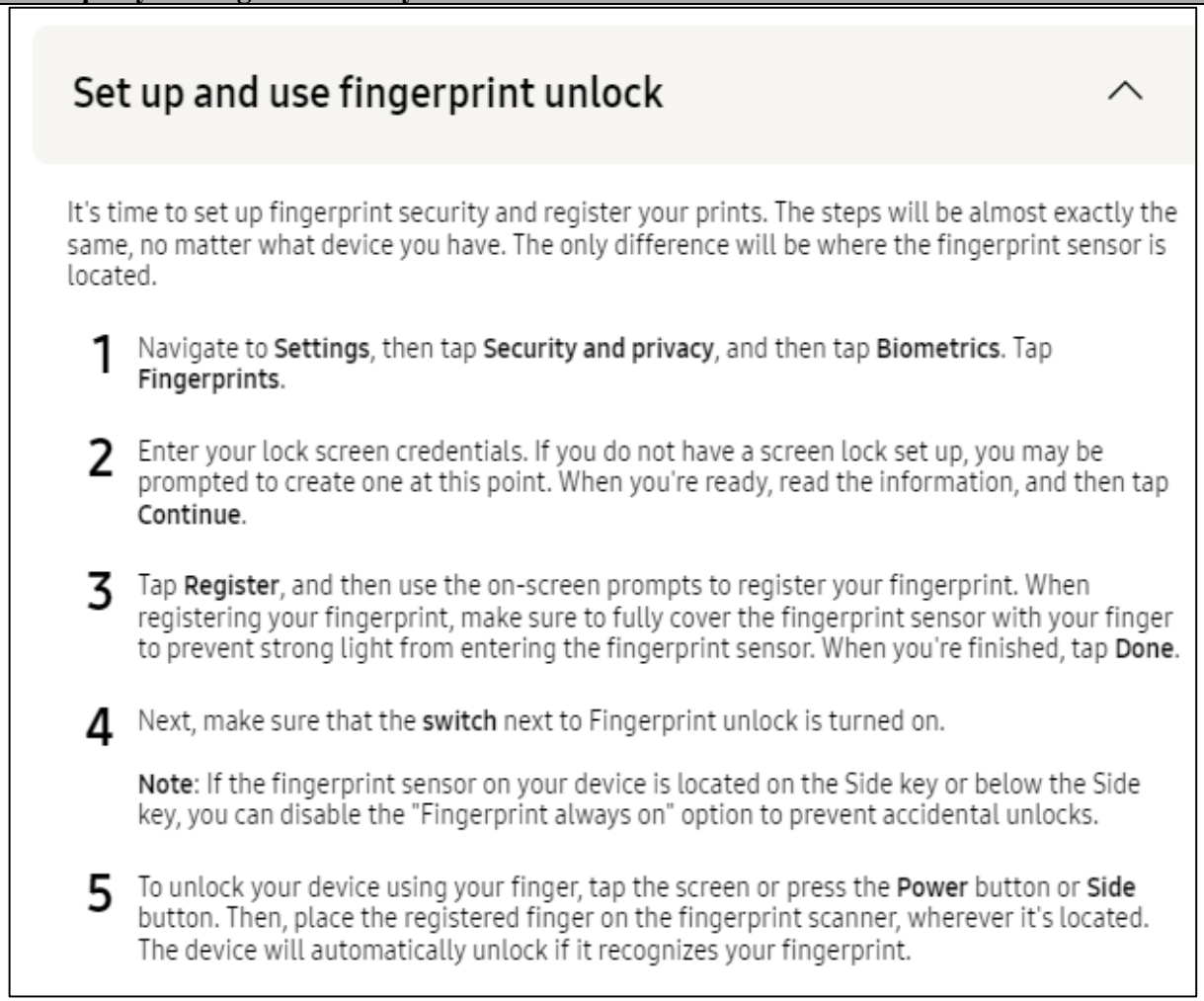
1. Open your phone Settings app.
2. Tap **Security**.
    - If you don't find "Security," you can get help at your phone manufacturer support site.
3. Tap **Screen lock**.
    - If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one.
4. Tap the option you'd like to use. Follow the on-screen instructions.

https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]
	Pay in a store **Step 1: Wake up & unlock your phone** **Important:** For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions. Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app. **Tip:** In most countries or regions, smaller transactions don't require you to unlock your phone. **Step 2: Hold the back of your phone to the payment reader** When you're done paying, a blue check mark appears on the screen. If the check mark isn't on your screen: • Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device. • Hold your phone closer to the payment reader. • Hold your phone to the payment reader for a few extra seconds. If there's a check mark but the cashier says that the payment didn't work: • Double-check if the store accepts mobile payments. • Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged. **Step 3: If prompted, follow the on-screen instructions** Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen. • **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device. • **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box. https://support.google.com/wallet/answer/12060043?hl=en# Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[14.c.] responsive to the value satisfying	The Accused Products are configured to perform operations including "responsive to the value satisfying the threshold criterion, enabling a number of functions of the wireless device and disabling a function of the wireless device."

Claim	Exemplary Infringement Analysis[1]
the threshold criterion, enabling a number of functions of the wireless device and disabling a function of the wireless device;	On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including enabling by the device a number of functions of the device (e.g., unlocking the Samsung smartphone or an application) and disabling by the device a function of the device (locking the Samsung smartphone or application), which is responsive to the facial recognition, fingerprint, or iris (the value that is sensed) satisfying the threshold criterion (the facial recognition, fingerprint, or iris associated with the user). **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ **Q.** What do I need to start using Samsung Pay? **A.** To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay **Q.** Which devices will support iris image authentication for Samsung Pay? **A.** Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

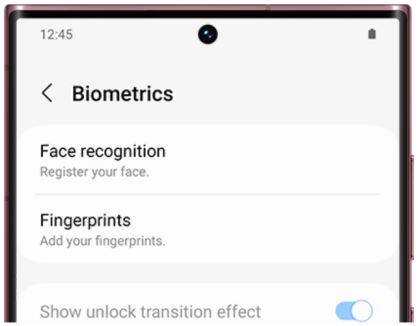
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

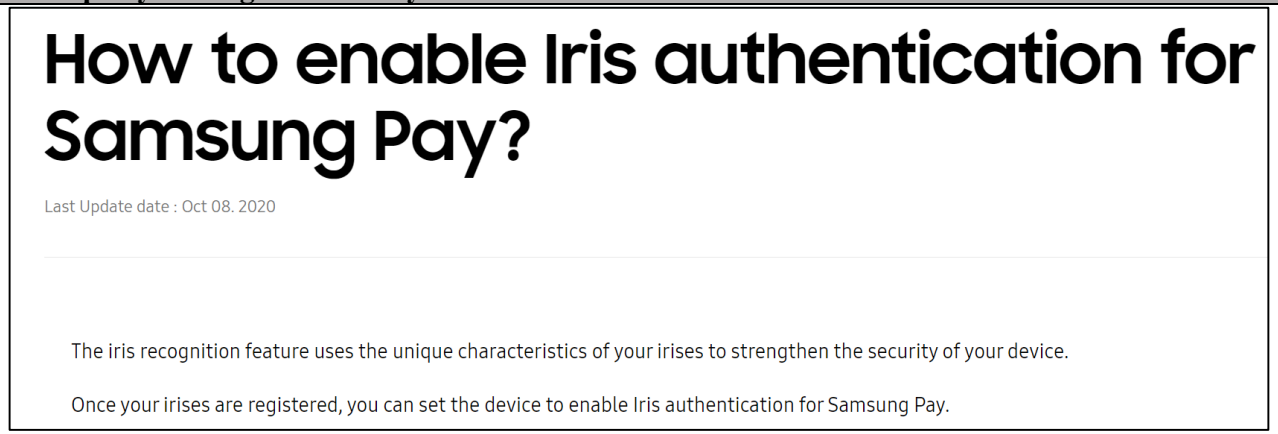
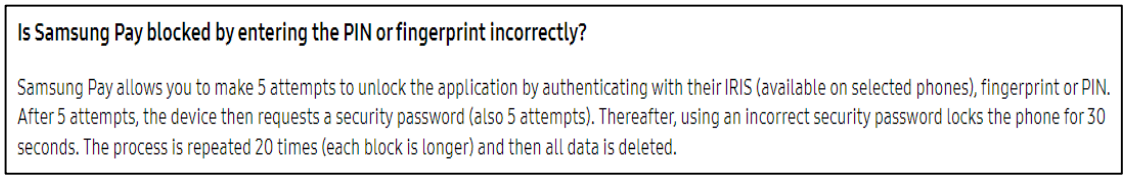
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



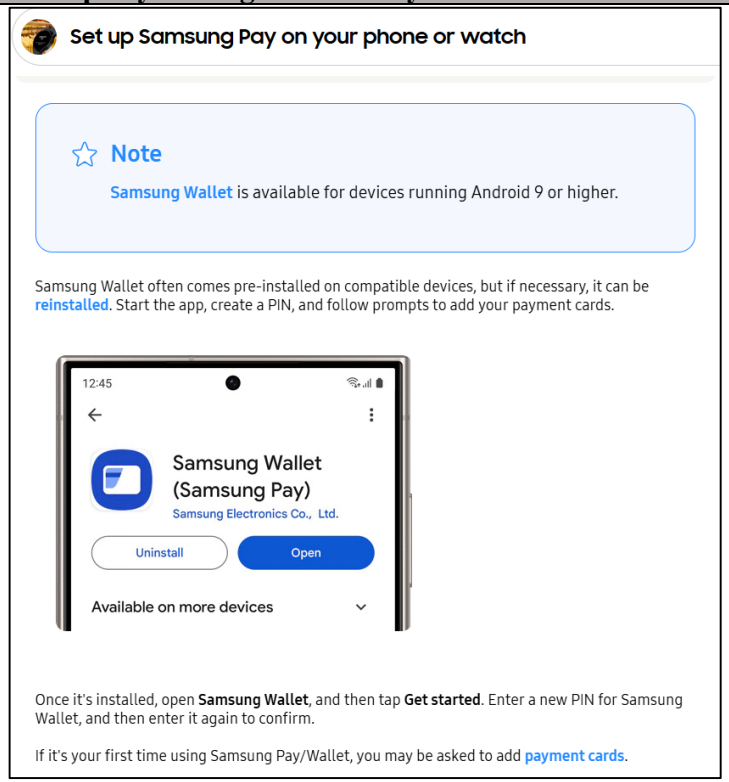
https://www.samsung.com/us/support/answer/ANS00062630/

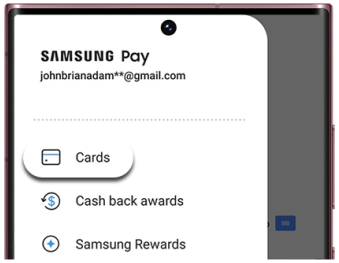
Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

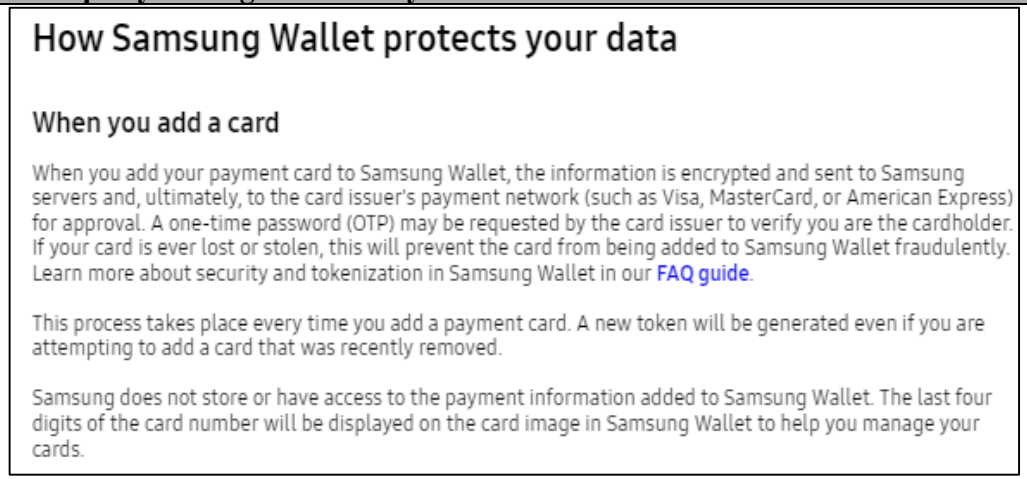
Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]
	Pay in a store **Step 1: Wake up & unlock your phone** **Important:** For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions. Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app. **Tip:** In most countries or regions, smaller transactions don't require you to unlock your phone. **Step 2: Hold the back of your phone to the payment reader** When you're done paying, a blue check mark appears on the screen. If the check mark isn't on your screen: • Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device. • Hold your phone closer to the payment reader. • Hold your phone to the payment reader for a few extra seconds. If there's a check mark but the cashier says that the payment didn't work: • Double-check if the store accepts mobile payments. • Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged. **Step 3: If prompted, follow the on-screen instructions** Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen. • **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device. • **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box. https://support.google.com/wallet/answer/12060043?hl=en# Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[14.d.] requesting from a second device	The Accused Products are configured to perform operations including "requesting from a second device an authorization to enable a function for conducting a financial transaction."

Claim	Exemplary Infringement Analysis[1]
an authorization to enable a function for conducting a financial transaction;	On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, the user may set up a payment method in Samsung Pay and/or Google Pay by, for example, adding a credit card (e.g., requesting an authorization to establish a function to conduct a financial transaction). To add a credit card, the Samsung smartphone transmits to the base station (a second device) data requesting authorization to use the credit card in future transactions. **Q.** What do I need to start using Samsung Pay? **A.** To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay **Q.** Which devices will support iris image authentication for Samsung Pay? **A.** Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 How Samsung Wallet protects your data When you add a card When you add your payment card to Samsung Wallet, the information is encrypted and sent to Samsung servers and, ultimately, to the card issuer's payment network (such as Visa, MasterCard, or American Express) for approval. A one-time password (OTP) may be requested by the card issuer to verify you are the cardholder. If your card is ever lost or stolen, this will prevent the card from being added to Samsung Wallet fraudulently. Learn more about security and tokenization in Samsung Wallet in our FAQ guide. This process takes place every time you add a payment card. A new token will be generated even if you are attempting to add a card that was recently removed. Samsung does not store or have access to the payment information added to Samsung Wallet. The last four digits of the card number will be displayed on the card image in Samsung Wallet to help you manage your cards. https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]

If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps:

1. Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card.

   You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card.

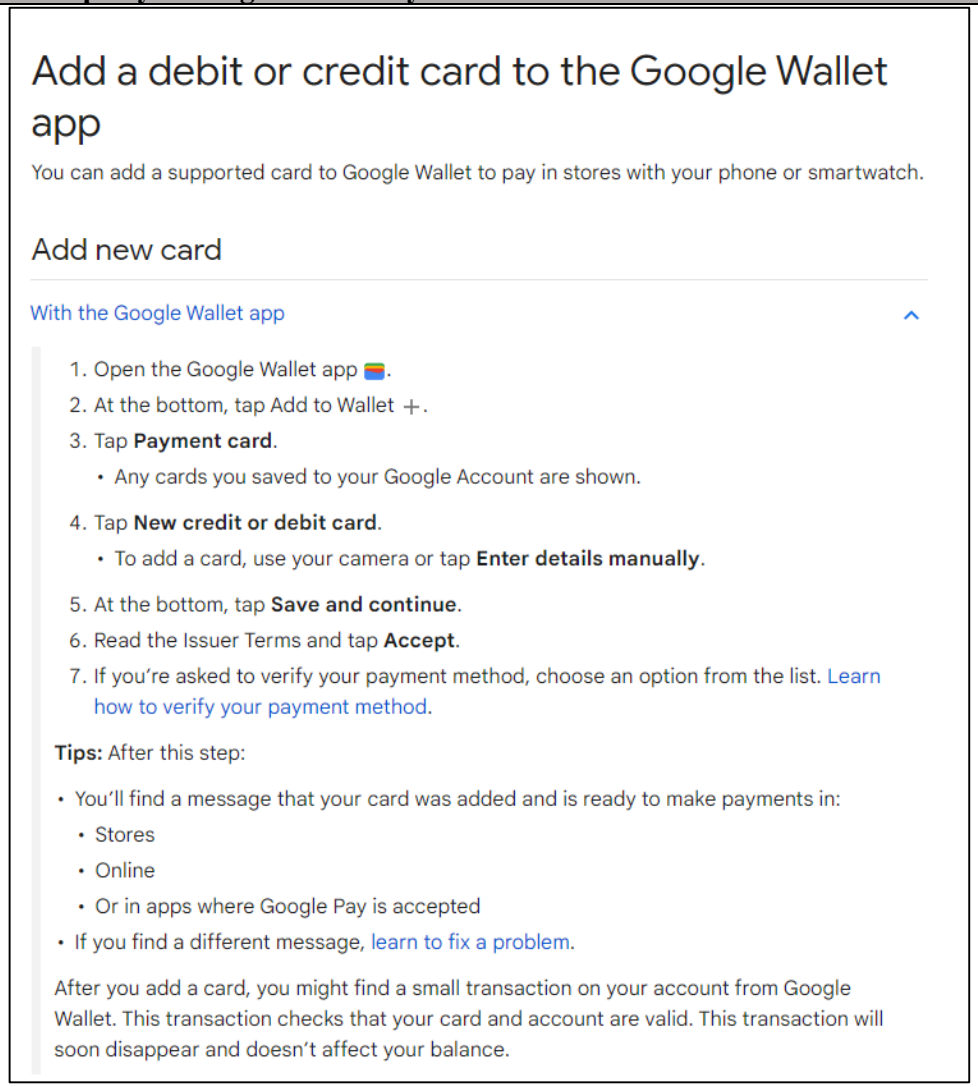
   Please note: The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct.

2. Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up.

3. You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen.

https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]



Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

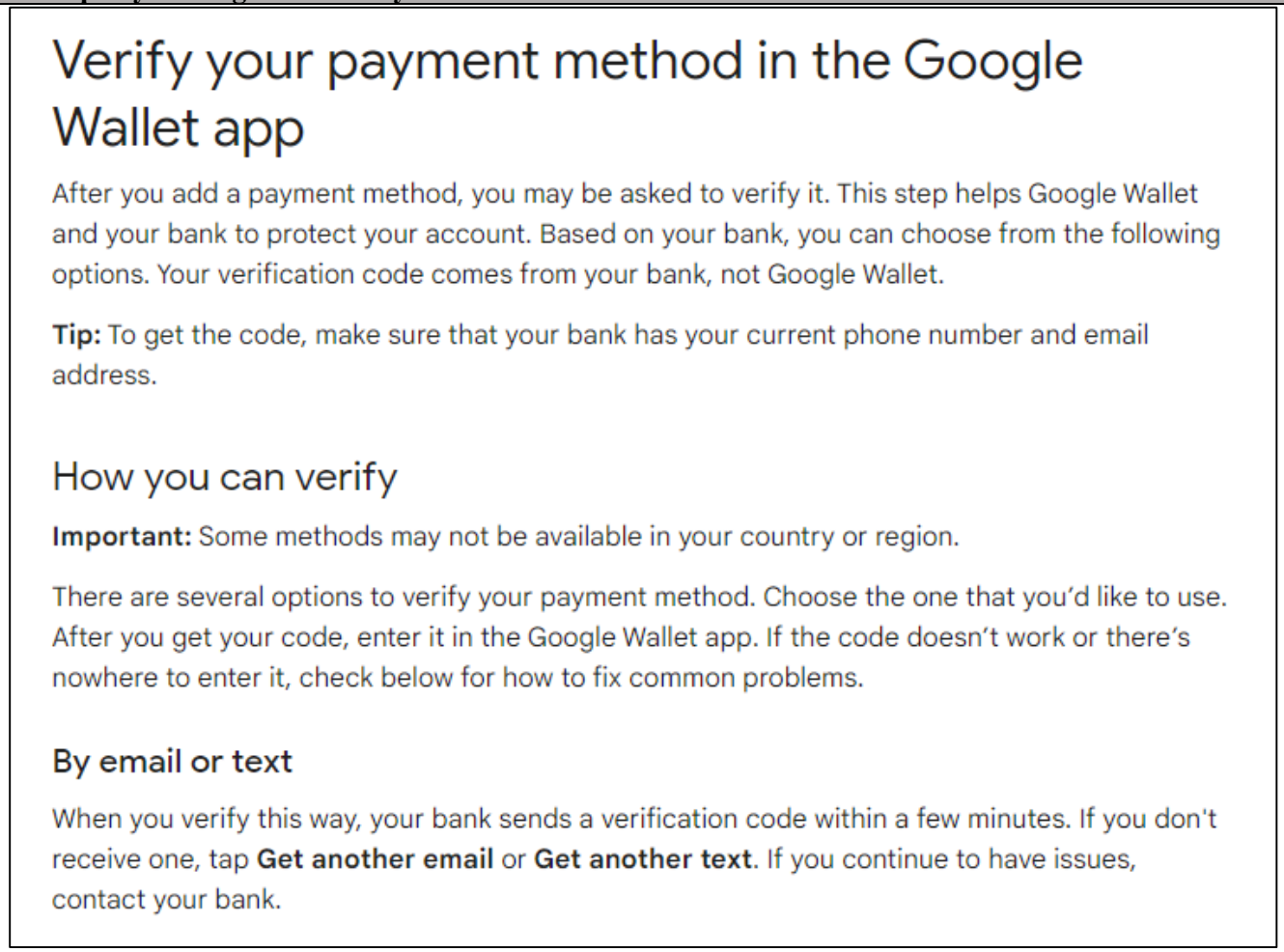
1. Open the Google Wallet app.
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

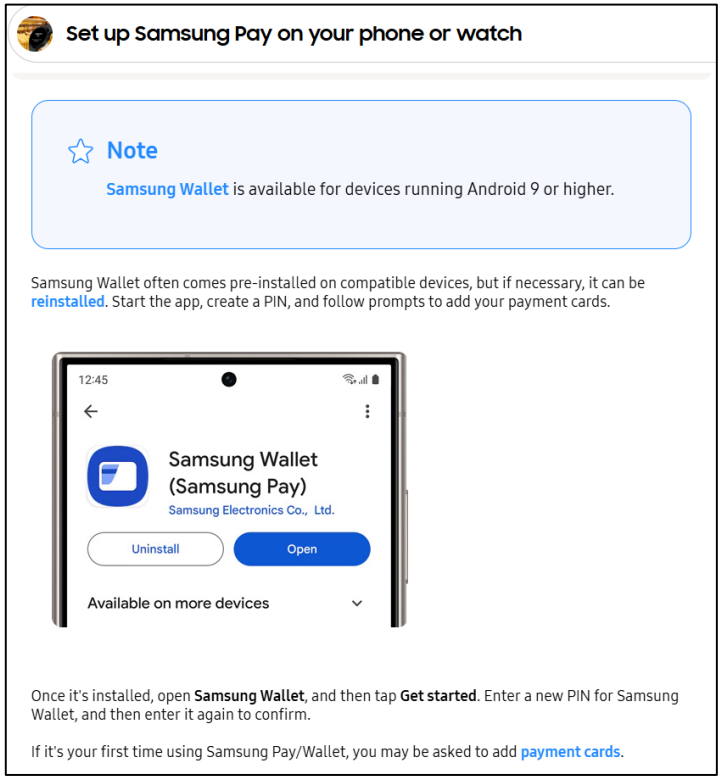
Tips: After this step:

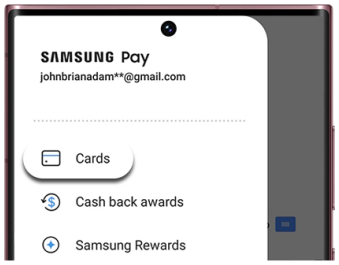
- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

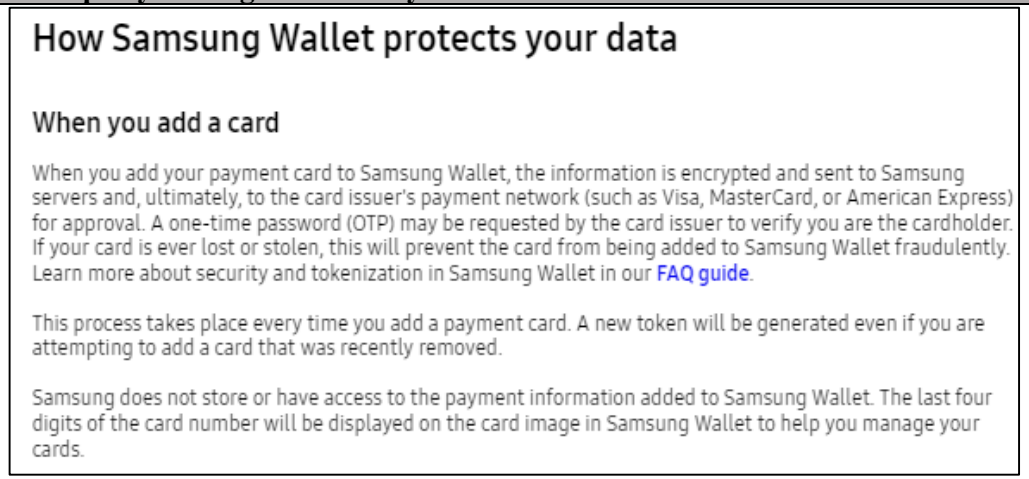
After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[14.e.] responsive to the requesting, receiving from the second device the authorization to enable the function for conducting the financial transaction;	The Accused Products are configured to perform operations including "responsive to the requesting, receiving from the second device the authorization to enable the function for conducting the financial transaction." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, in response to requesting authorization, the Samsung smartphone receives the authorization from the card issuer via the base station (second device) if the card is eligible for Samsung Pay and/or Google Pay. The authorization establishes the ability to conduct a financial transaction using Samsung Pay and/or Google Pay.  https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 How Samsung Wallet protects your data When you add a card When you add your payment card to Samsung Wallet, the information is encrypted and sent to Samsung servers and, ultimately, to the card issuer's payment network (such as Visa, MasterCard, or American Express) for approval. A one-time password (OTP) may be requested by the card issuer to verify you are the cardholder. If your card is ever lost or stolen, this will prevent the card from being added to Samsung Wallet fraudulently. Learn more about security and tokenization in Samsung Wallet in our FAQ guide. This process takes place every time you add a payment card. A new token will be generated even if you are attempting to add a card that was recently removed. Samsung does not store or have access to the payment information added to Samsung Wallet. The last four digits of the card number will be displayed on the card image in Samsung Wallet to help you manage your cards. https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]

If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps:

1. Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card.

   You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card.

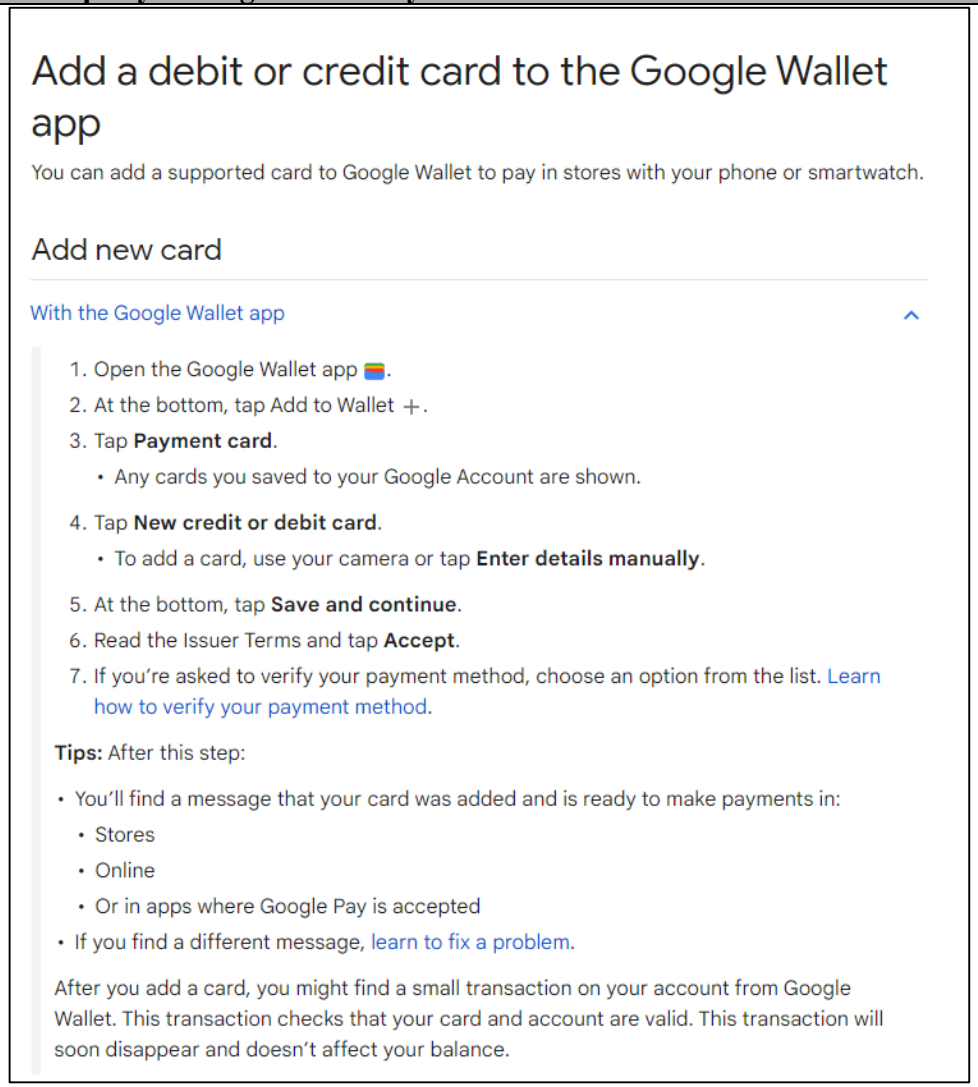
   Please note: The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct.

2. Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up.

3. You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen.

https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]



Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

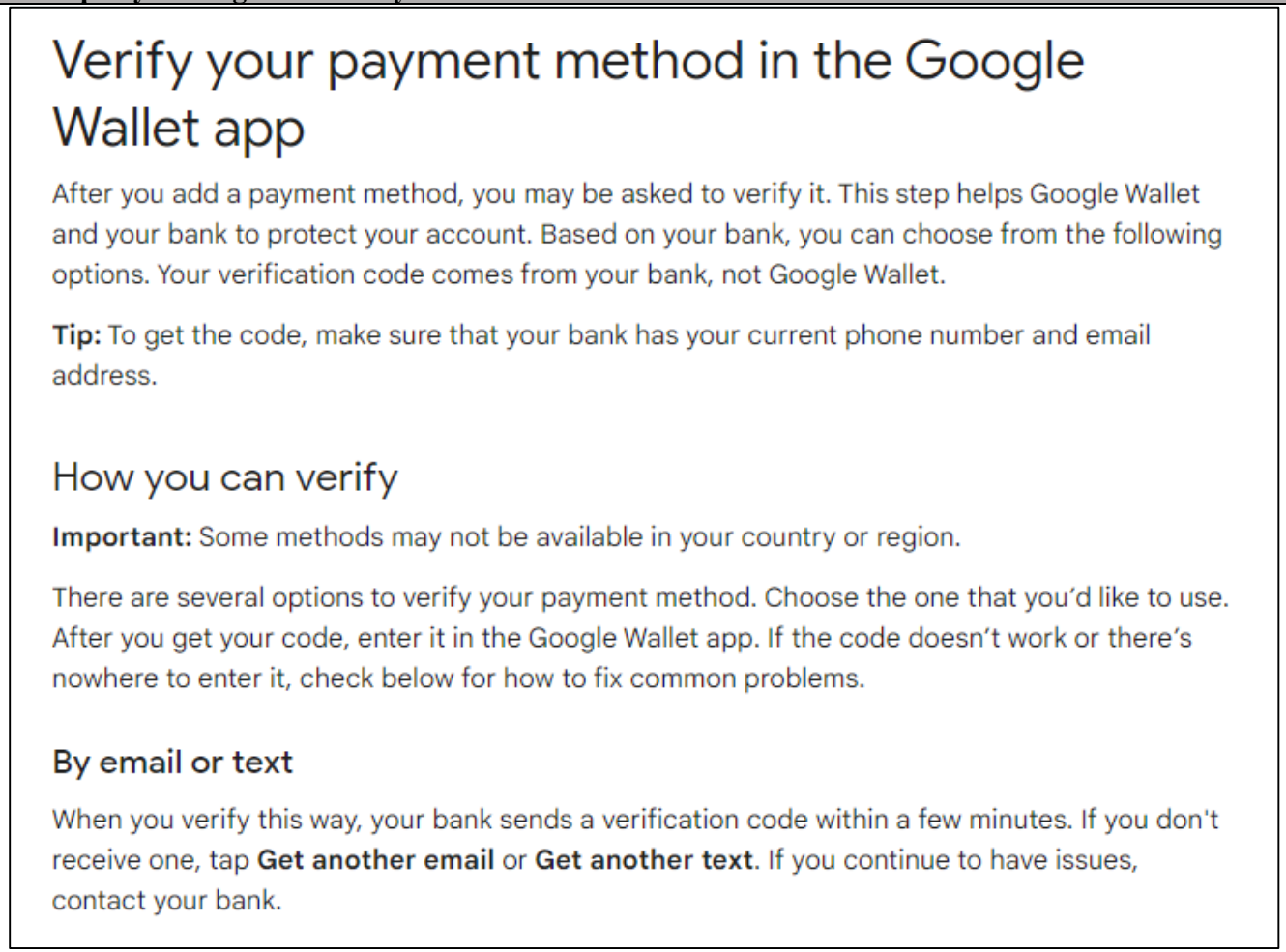
1. Open the Google Wallet app.
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

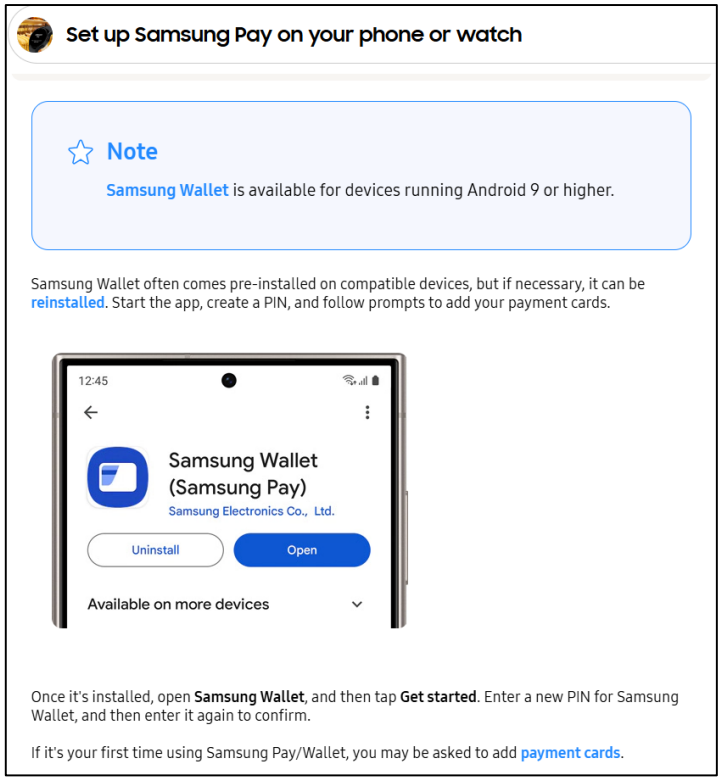
Tips: After this step:

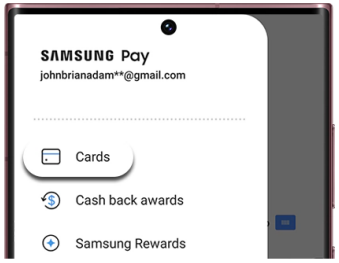
- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

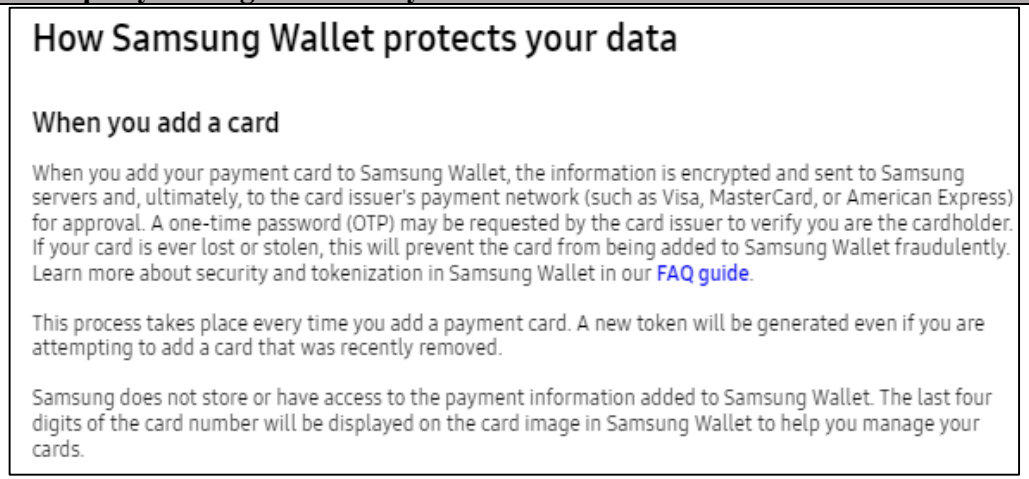
After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[14.f.] responsive to receiving the authorization, enabling the function for conducting the financial transaction; and	The Accused Products are configured to perform operations including "responsive to receiving the authorization, enabling at the wireless device the function for conducting the financial transaction." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, once the Samsung smartphone has received the authorization, the Samsung smartphone user may conduct financial transactions using Samsung Pay and/or Google Pay.  https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]

If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps:

1. Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card.

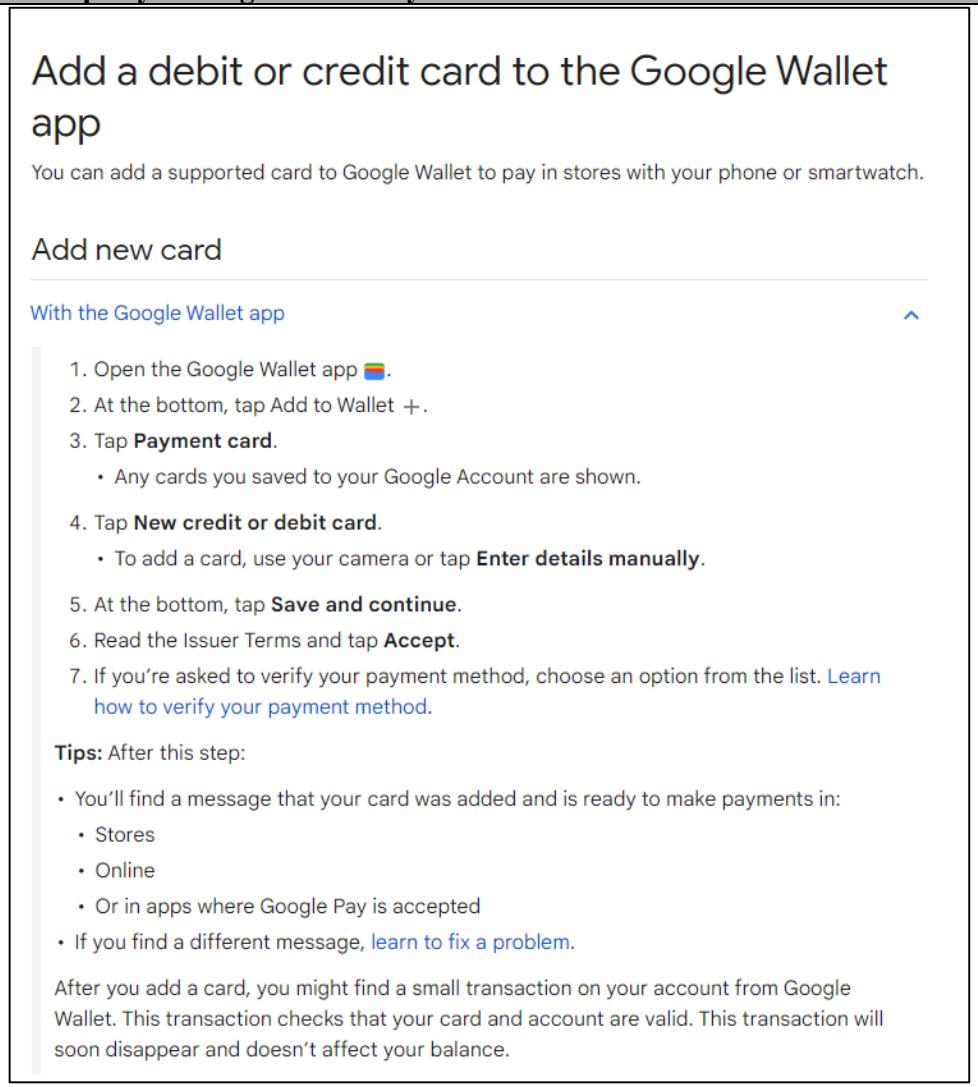
   You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card.

   Please note: The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct.

2. Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up.

3. You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen.

https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]
	

Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

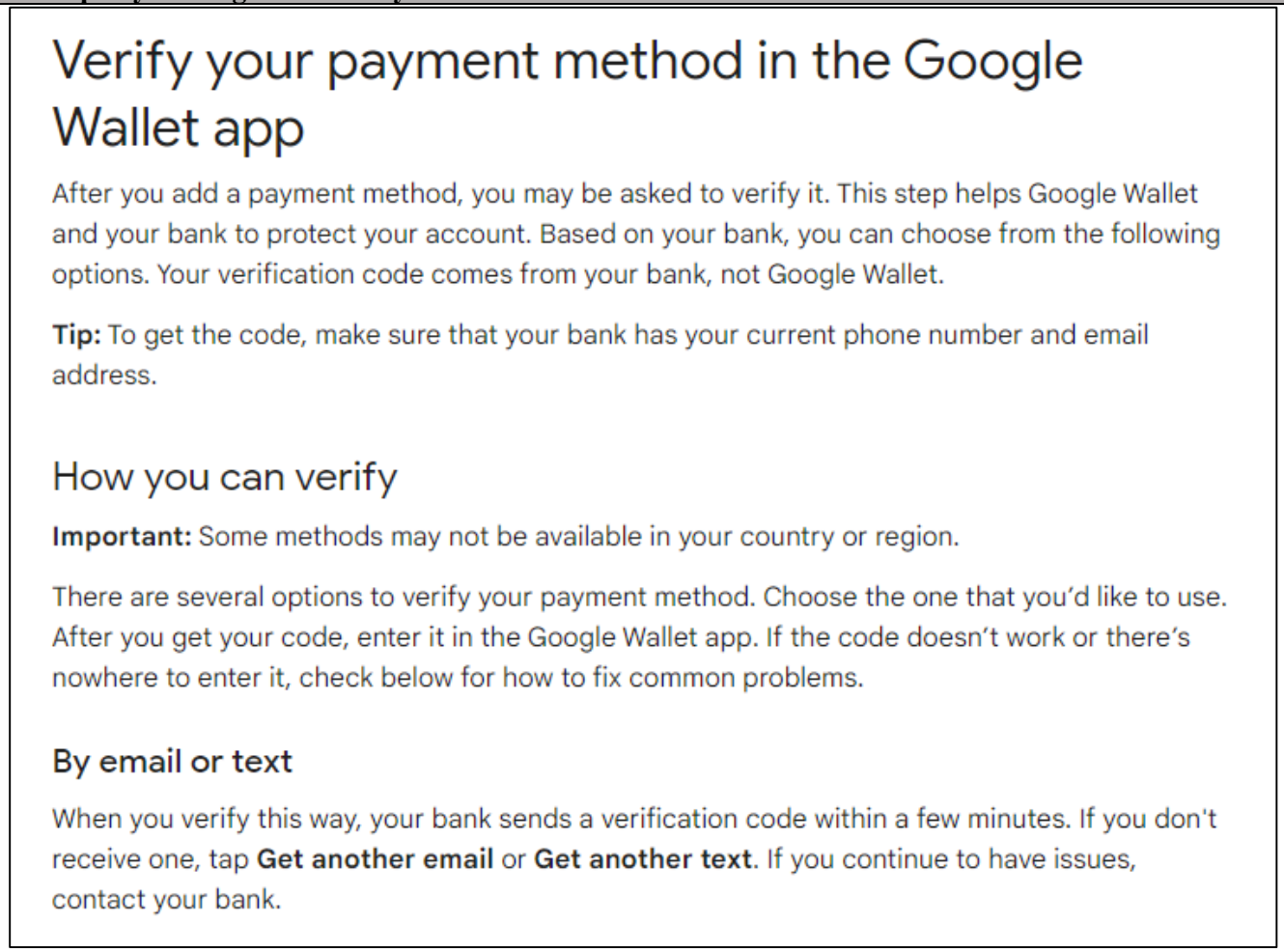
1. Open the Google Wallet app .
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

Tips: After this step:

- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[14.g.] responsive to the wireless device satisfying a proximity condition relative to an entity and responsive to the wireless device sensing the parameter and determining that the value sensed satisfies the threshold criterion, using the function for conducting the financial transaction and conducting the financial transaction by paying for a product;	The Accused Products are configured to perform operations including "responsive to the wireless device satisfying a proximity condition relative to an entity and responsive to the wireless device sensing the parameter and determining that the value sensed satisfies the threshold criterion, using the function for conducting the financial transaction and conducting the financial transaction by paying for a product." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting a financial transaction via Samsung Pay and/or Google Pay is configured to perform operations including using Samsung Pay and/or Google Pay (the function that was established) to conduct the financial transaction by paying for a product. Use of the function (Samsung Pay and/or Google Pay functionality) to pay for a product is in response to satisfaction of a proximity condition between the Samsung smartphone and a point-of-sale terminal (the entity) and in response to sensing the physiological parameter and determining that the sensed physiological parameter value satisfies a criterion. The proximity criterion is satisfied by the Samsung smartphone being within range of the point-of-sale terminal for NFC communications. Also, conducting the transaction via Samsung Pay and/or Google Pay includes recognizing and accepting a facial recognition, fingerprint, or iris associated with the user. **How does Samsung Pay work?** Samsung Pay uses Near Field Communication (NFC) to make contactless mobile payments. **How do I make in-store purchases with Samsung Pay?** - Start by either swiping-up from the home button or opening the Samsung Pay app from your home screen. - Next, select the card you want to pay with. - You can authenticate by IRIS (available on selected phones), fingerprint or pin. - Hover your phone about 2-4 cm over the card reader where you'd usually tap your physical card to complete the transaction. https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]

Near Field Communication (NFC) technology allows users to make secure transactions, exchange digital content, and connect electronic devices with a touch. NFC transmissions are short range (from a touch to a few centimetres) and require the devices to be in close proximity.

NFC is the technology in contactless cards, and the most common use of NFC technology in your smartphone is making easy payments with Samsung Pay. NFC can also be used to quickly connect with wireless devices and transfer data with Android Beam.

https://www.samsung.com/uk/support/mobile-devices/what-is-nfc-and-how-do-i-use-it/

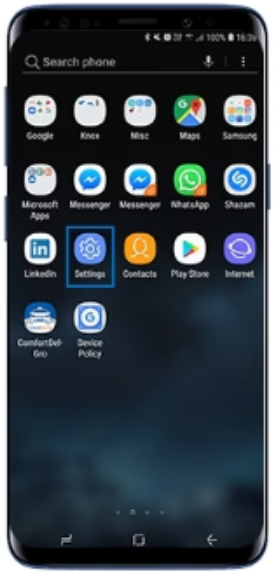
Q. What do I need to start using Samsung Pay?

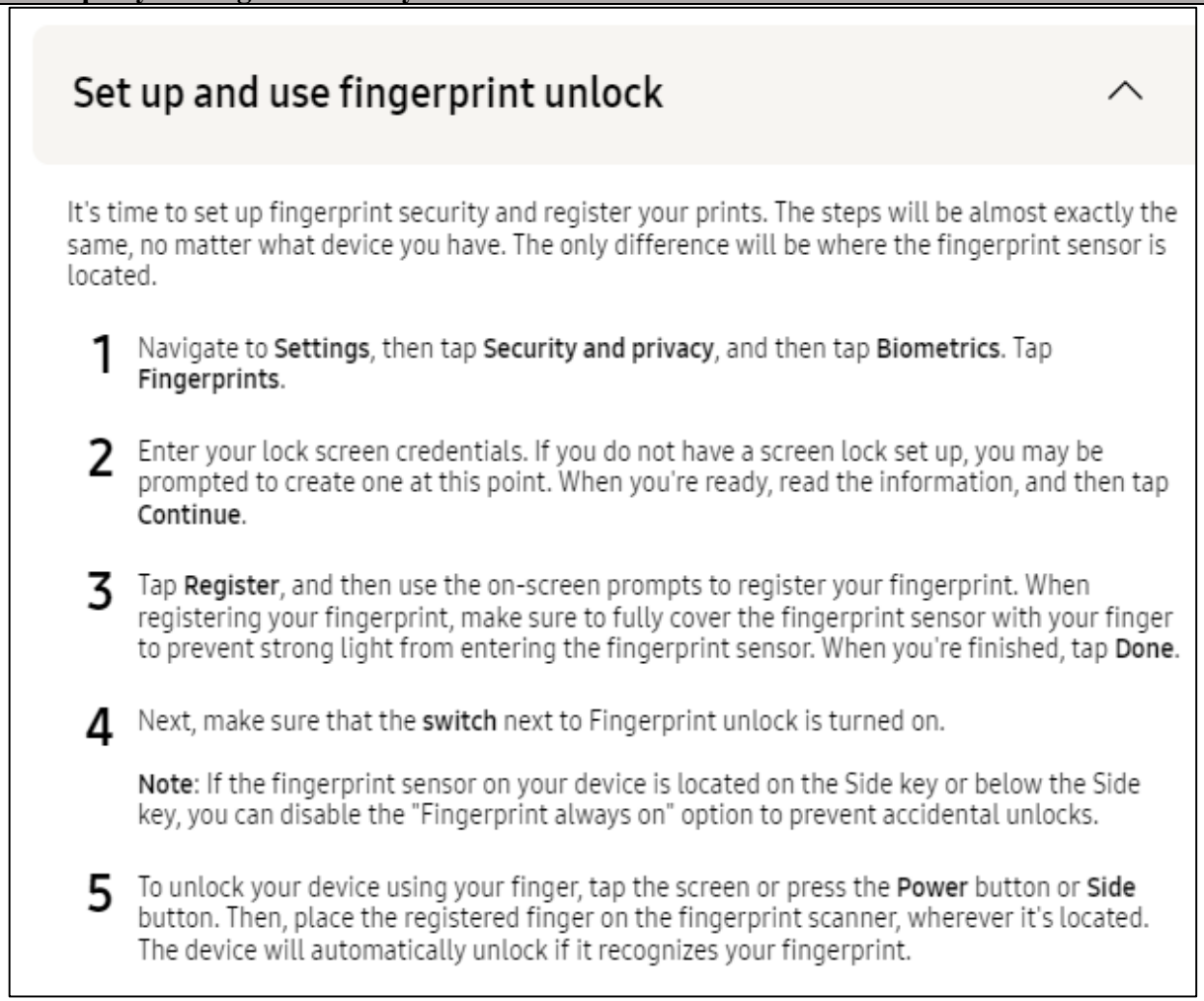
A. To use Samsung Pay, you need:
A compatible Samsung device*
A supported payment card from a participating bank
A Samsung account
Registered fingerprint, iris image or Samsung Pay PIN
To be located in the country of the participating bank***Supported devices list
**For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay

Q. Which devices will support iris image authentication for Samsung Pay?

A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment.

https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 Set up and use fingerprint unlock It's time to set up fingerprint security and register your prints. The steps will be almost exactly the same, no matter what device you have. The only difference will be where the fingerprint sensor is located. 1 Navigate to **Settings**, then tap **Security and privacy**, and then tap **Biometrics**. Tap **Fingerprints**. 2 Enter your lock screen credentials. If you do not have a screen lock set up, you may be prompted to create one at this point. When you're ready, read the information, and then tap **Continue**. 3 Tap **Register**, and then use the on-screen prompts to register your fingerprint. When registering your fingerprint, make sure to fully cover the fingerprint sensor with your finger to prevent strong light from entering the fingerprint sensor. When you're finished, tap **Done**. 4 Next, make sure that the **switch** next to Fingerprint unlock is turned on. **Note**: If the fingerprint sensor on your device is located on the Side key or below the Side key, you can disable the "Fingerprint always on" option to prevent accidental unlocks. 5 To unlock your device using your finger, tap the screen or press the **Power** button or **Side** button. Then, place the registered finger on the fingerprint scanner, wherever it's located. The device will automatically unlock if it recognizes your fingerprint. https://www.samsung.com/us/support/answer/ANS10001613/

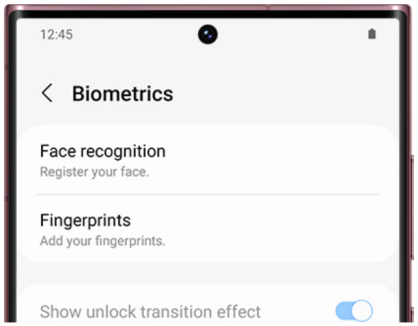
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

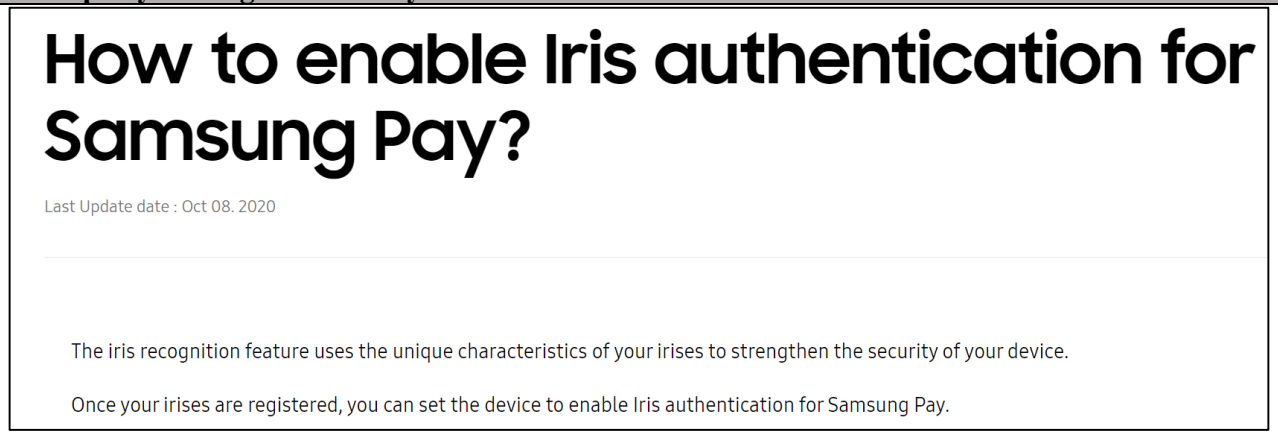
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS00045102/

Claim	Exemplary Infringement Analysis[1]
	Where you can use Google Wallet **Important:** To make contactless payments, Near Field Communication (NFC) must be on. To turn on NFC, check your phone settings app. To use tap to pay on Pixel Fold or another foldable device, fold your device. You can pay with Google Wallet wherever you find the contactless or Google Pay symbols. They're located on the payment terminal screen or cash register at checkout. You can buy items with your phone or pay for transit on trains and buses on contactless terminals with either of these logos:  *Google Pay symbol* *Contactless symbol* https://support.google.com/wallet/answer/12060043?hl=en

Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]

Pay in a store

Step 1: Wake up & unlock your phone

Important: For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions.

Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app.

Tip: In most countries or regions, smaller transactions don't require you to unlock your phone.

Step 2: Hold the back of your phone to the payment reader

When you're done paying, a blue check mark appears on the screen.

If the check mark isn't on your screen:

- Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device.
- Hold your phone closer to the payment reader.
- Hold your phone to the payment reader for a few extra seconds.

If there's a check mark but the cashier says that the payment didn't work:

- Double-check if the store accepts mobile payments.
- Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged.

Step 3: If prompted, follow the on-screen instructions

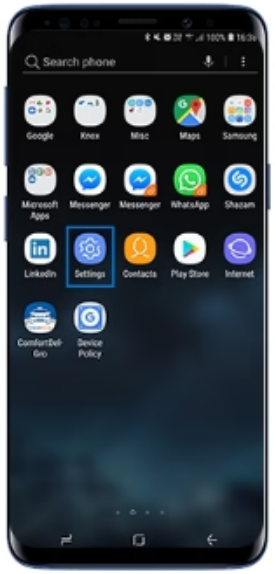
Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen.

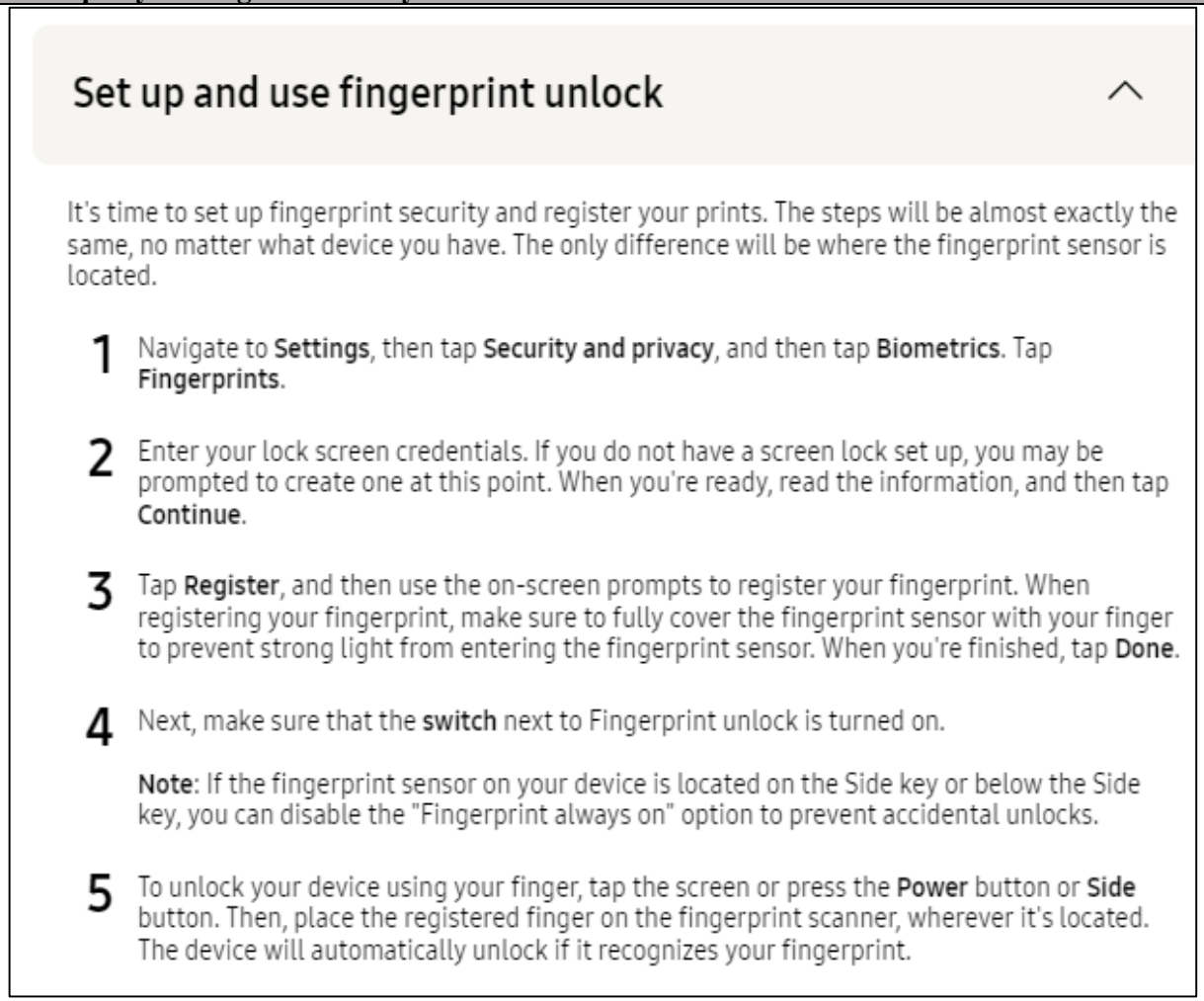
- **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device.
- **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box.

https://support.google.com/wallet/answer/12060043?hl=en#

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[14.h.] wherein the parameter that is sensed comprises a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state; and	The Accused Products are configured to perform operations including "wherein the parameter that is sensed comprises a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, the parameter that is sensed using the Samsung smartphone's device-based sensor includes a physiological state via facial recognition, a fingerprint, or iris recognition. **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ Q. What do I need to start using Samsung Pay? A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

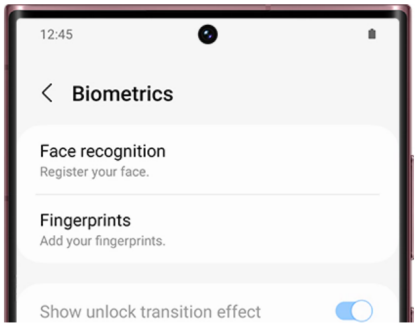
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

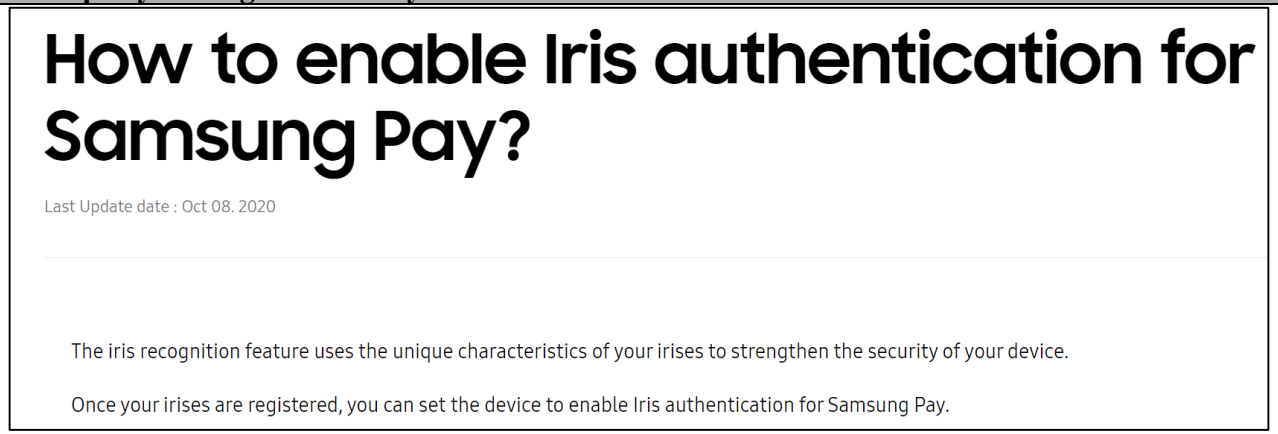
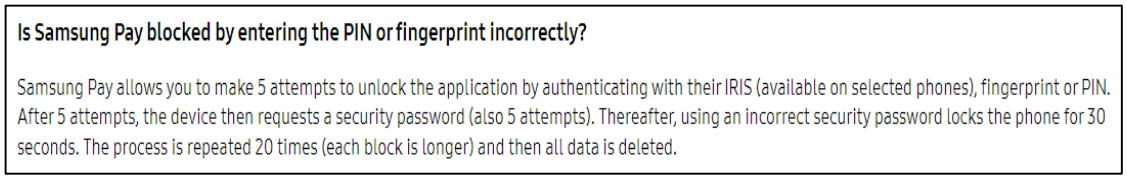
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.

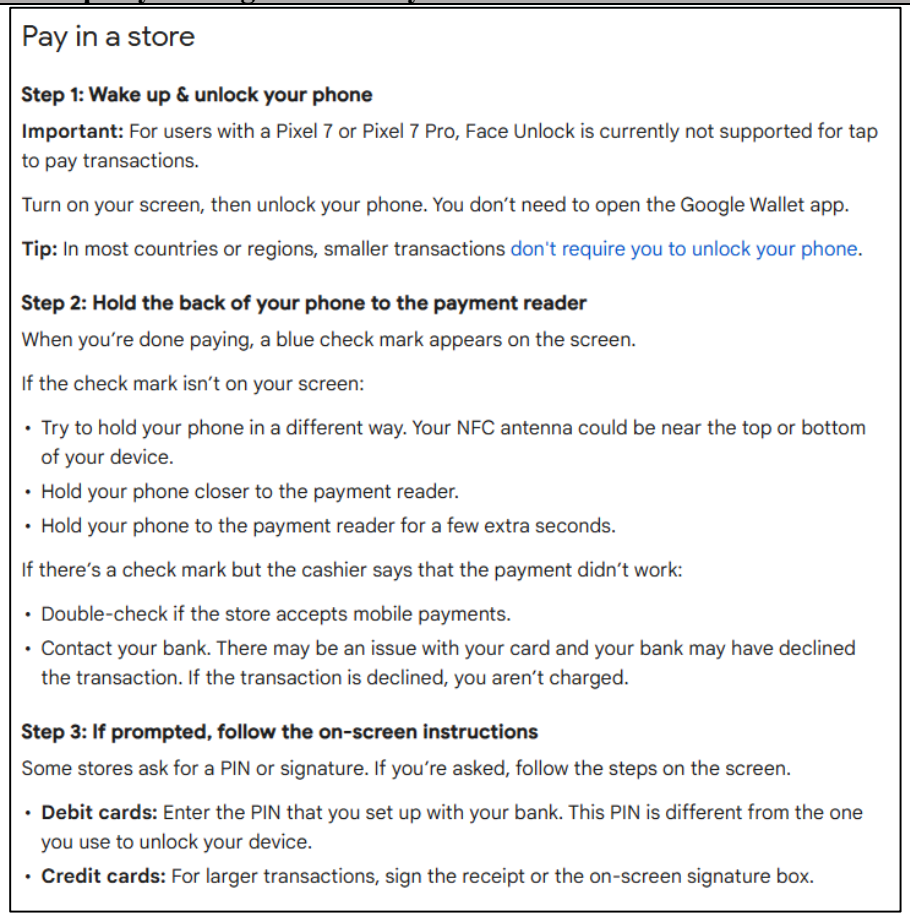


https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

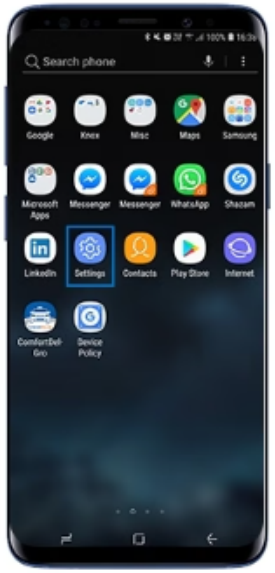
Claim	Exemplary Infringement Analysis[1]
	Where you can use Google Wallet **Important:** To make contactless payments, Near Field Communication (NFC) must be on. To turn on NFC, check your phone settings app. To use tap to pay on Pixel Fold or another foldable device, fold your device. You can pay with Google Wallet wherever you find the contactless or Google Pay symbols. They're located on the payment terminal screen or cash register at checkout. You can buy items with your phone or pay for transit on trains and buses on contactless terminals with either of these logos:   *Google Pay symbol* *Contactless symbol* https://support.google.com/wallet/answer/12060043?hl=en

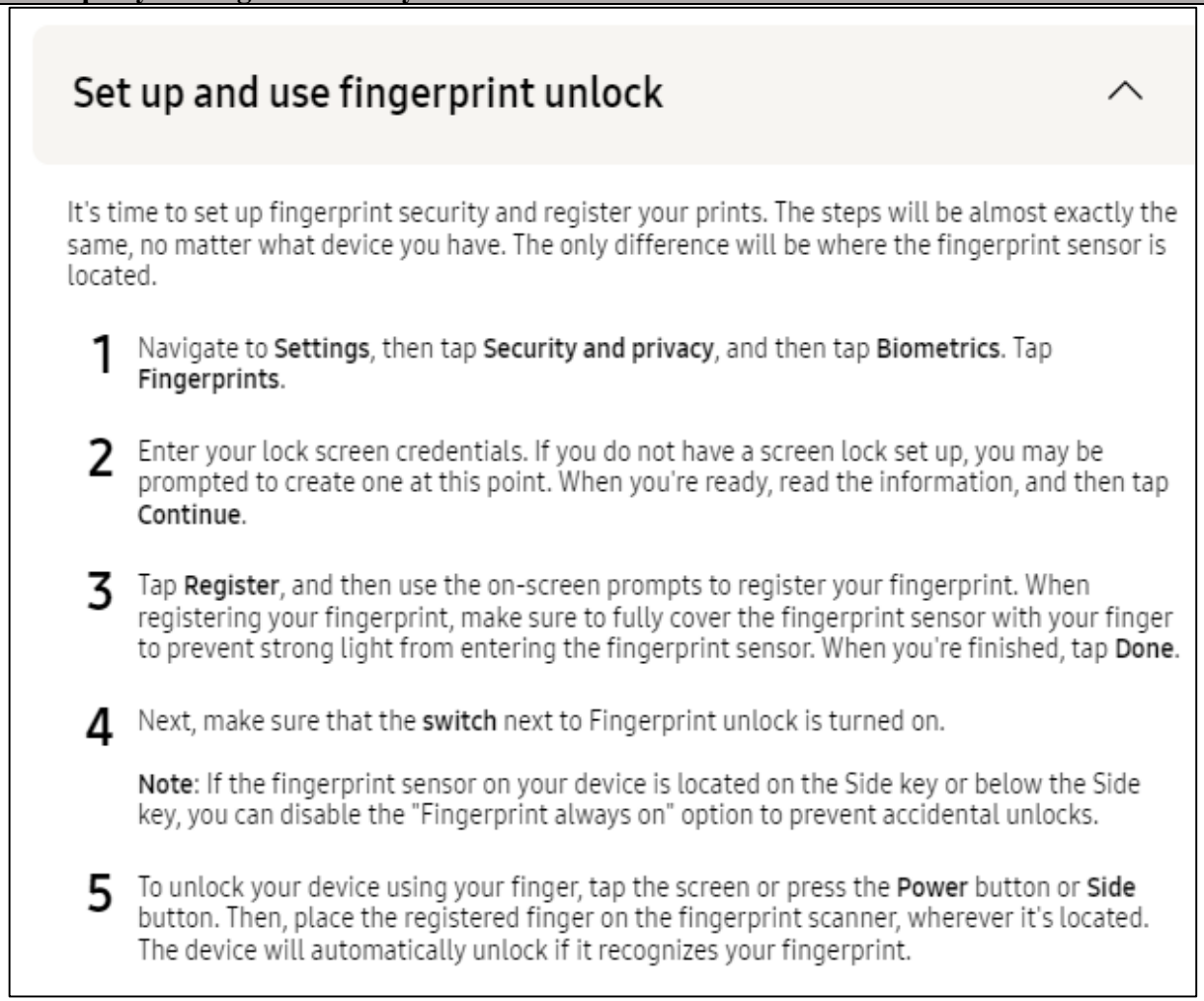
Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12060043?hl=en# Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[14.i.] wherein the wireless device	The Accused Products are configured to perform operations including "wherein the wireless device comprises a smartphone."

Claim	Exemplary Infringement Analysis[1]
comprises a smartphone.	For example, Samsung-branded smartphones capable of using Samsung Pay and/or Google Pay are smartphones. **Galaxy Z Series** Galaxy Z Fold6 | Z Flip6 Galaxy Z Fold5 | Z Flip5 Galaxy Z Fold4 | Z Flip4 Galaxy Z Fold3 | Z Flip3 5G Galaxy Z Fold2 5G* Galaxy Z Flip* Galaxy Fold* **Galaxy Note Series** Galaxy Note20 | Note20 Ultra 5G* Galaxy Note10 Lite Galaxy Note10 | Note10+* Galaxy Note9* Galaxy Note8* Galaxy Note Fan Edition* Galaxy Note5* **Galaxy S Series** Galaxy S24 | S24+ | S24 Ultra Galaxy S23 FE 5G Galaxy S23 | S23+ | S23 Ultra 5G Galaxy S22 | S22+ | S22 Ultra 5G Galaxy S21 FE 5G Galaxy S21 | S21+ | S21 Ultra 5G Galaxy S20 FE | S20 FE 5G Galaxy S20 | S20+ | S20 Ultra* Galaxy S10 Lite Galaxy S10e | S10 | S10+* Galaxy S9 | S9+* Galaxy S8 | S8+* Galaxy S7 edge | S7* Galaxy S6 edge+* *See* https://www.samsung.com/my/samsung-pay/supported-devices/

Claim	Exemplary Infringement Analysis[1]
	Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[15.] The wireless device of claim 14, wherein said enabling a number of functions of the wireless device comprises enabling a number of functions of the wireless device that is greater than or equal to one.	The Accused Products are configured to perform operations including "wherein said enabling a number of functions of the wireless device comprises enabling a number of functions of the wireless device that is greater than or equal to one." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, using a Samsung smartphone to conduct financial transactions via Samsung Pay and/or Google Pay includes enabling a number of functions of the Samsung smartphone that is greater than or equal to one, including unlocking the Samsung smartphone or an application. **How is Samsung Pay secured?** Samsung Pay uses Tokenization and Samsung KNOX to secure your payment information. Additionally, your fingerprint or a 4-digit PIN is required to authorize in-store purchases. On the new Galaxy S9, S9+, Note9, S8, S8+ or Note8 you can also use iris scanning* technology to keep your transactions secure. https://www.samsung.com/uk/samsung-pay/faq/ Q. What do I need to start using Samsung Pay? A. To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay

Claim	Exemplary Infringement Analysis[1]
	Q. Which devices will support iris image authentication for Samsung Pay? A. Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/ Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

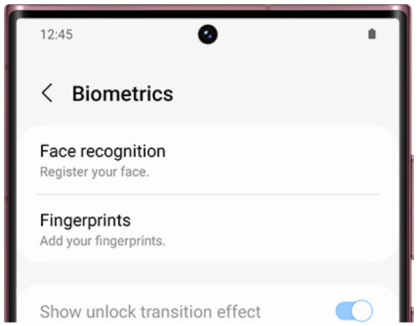
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

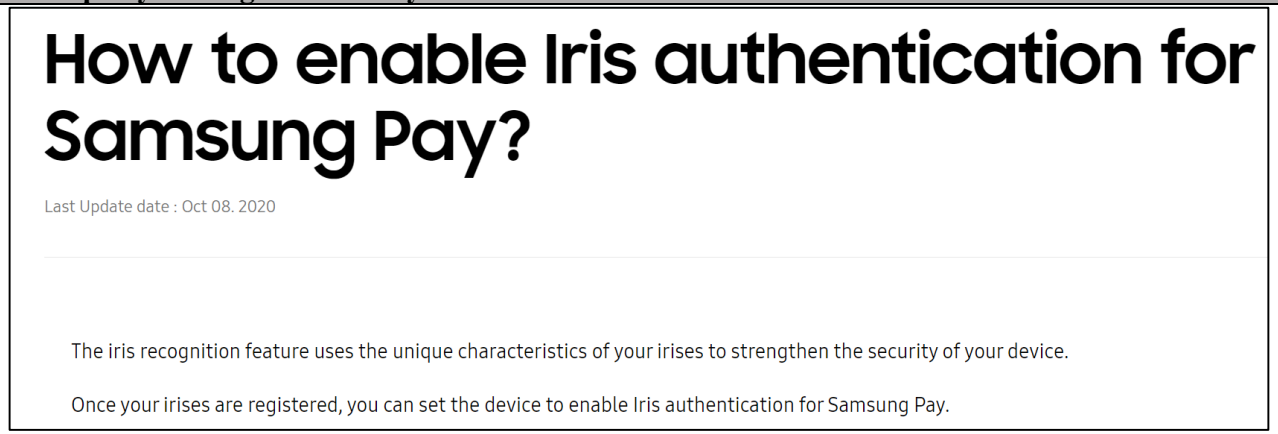
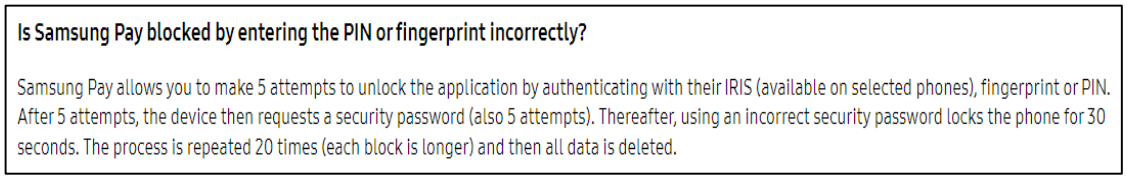
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.

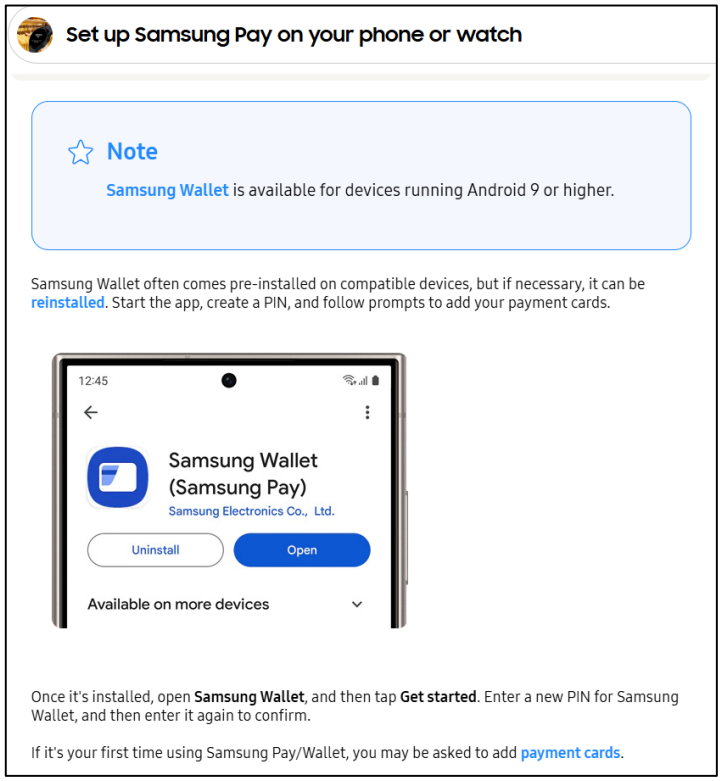


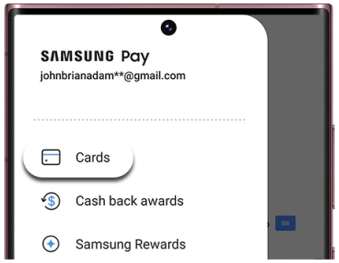
https://www.samsung.com/us/support/answer/ANS00062630/

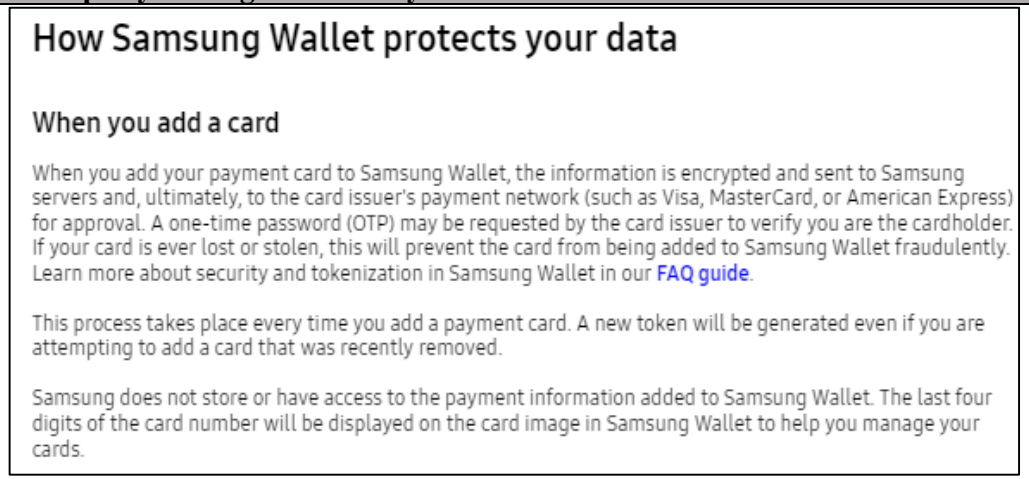
Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

Claim	Exemplary Infringement Analysis[1]
	Pay in a store **Step 1: Wake up & unlock your phone** **Important:** For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions. Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app. **Tip:** In most countries or regions, smaller transactions don't require you to unlock your phone. **Step 2: Hold the back of your phone to the payment reader** When you're done paying, a blue check mark appears on the screen. If the check mark isn't on your screen: • Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device. • Hold your phone closer to the payment reader. • Hold your phone to the payment reader for a few extra seconds. If there's a check mark but the cashier says that the payment didn't work: • Double-check if the store accepts mobile payments. • Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged. **Step 3: If prompted, follow the on-screen instructions** Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen. • **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device. • **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box. https://support.google.com/wallet/answer/12060043?hl=en# Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[16.] The wireless device of claim 14,	The Accused Products are configured to perform operations including "causing a function for conducting the financial transaction to be enabled at the second device."

Claim	Exemplary Infringement Analysis[1]
wherein the operations further comprise: causing a function for conducting the financial transaction to be enabled at the second device.	On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting a financial transaction via Samsung Pay and/or Google Pay is configured to perform operations including confirming to the card issuer via the base station (second device) that Samsung Pay and/or Google Pay has been established on the Samsung smartphone (a function for conducting the financial transaction).  https://www.samsung.com/us/support/answer/ANS00045081/

Claim	Exemplary Infringement Analysis[1]
	Add a card Samsung has you covered, because Samsung Pay has partnered with top U.S. banks and credit card companies, like American Express, Visa, and MasterCard. Plus, we're always expanding our list of financial partners. 1. Navigate to and open **Samsung Pay** on your phone. 2. Tap **Menu** (the three horizontal lines) in the top left corner, and then tap **Cards**.  3. Next, tap **Add card**; it looks like a credit card with a plus sign next to it. Next, tap **Add credit/debit card**. 4. Follow the instructions to register your card. When you add a card, you must agree to the card's terms and conditions. 5. If you have any questions about the terms, contact the card issuer. 6. Once the card is added, you can start using it to make **in-store purchases** with your phone! https://www.samsung.com/us/support/answer/ANS00045170/

Claim	Exemplary Infringement Analysis[1]
	 How Samsung Wallet protects your data When you add a card When you add your payment card to Samsung Wallet, the information is encrypted and sent to Samsung servers and, ultimately, to the card issuer's payment network (such as Visa, MasterCard, or American Express) for approval. A one-time password (OTP) may be requested by the card issuer to verify you are the cardholder. If your card is ever lost or stolen, this will prevent the card from being added to Samsung Wallet fraudulently. Learn more about security and tokenization in Samsung Wallet in our FAQ guide. This process takes place every time you add a payment card. A new token will be generated even if you are attempting to add a card that was recently removed. Samsung does not store or have access to the payment information added to Samsung Wallet. The last four digits of the card number will be displayed on the card image in Samsung Wallet to help you manage your cards. https://www.samsung.com/us/support/answer/ANS10002617/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]

If you want to use Samsung Pay and need to know how to add your cards to the app, follow these steps:

1. Run your Samsung Pay app. To add your card, tap on the **plus icon (+) over Payment cards**. The app will activate the camera and ask you to aim it at the front side of your credit or debit card. Once the app detects the card number and expiry date, it will ask you to enter the security code CVC/CVV/CID (3-digit or 4-digit depending on the card type) and your name as it appears on the card.

   You can also manually enter all card details, including card number and expiry date. Just tap on the "Add card manually" option at the bottom when the app asks you to aim the camera at your card.

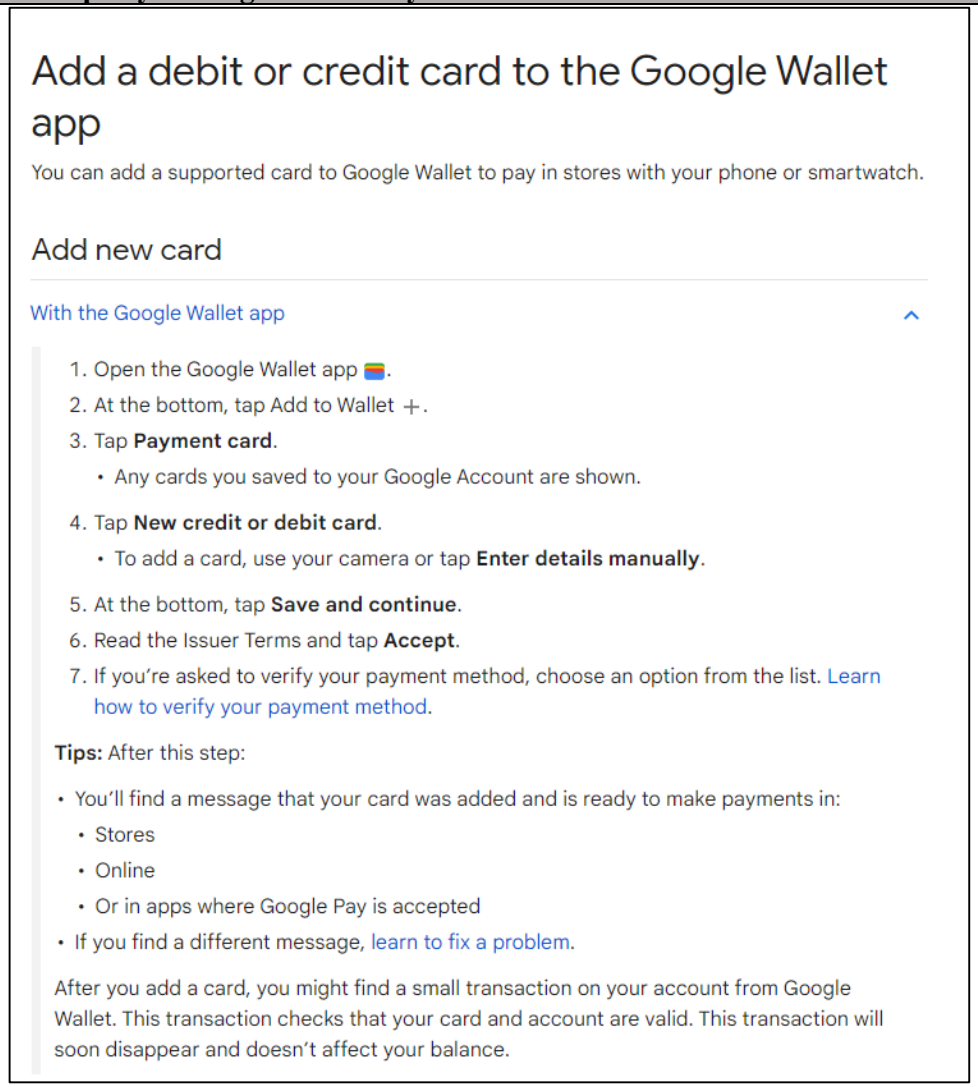
   Please note: The details required may vary based on your country and card provider, so simply follow the instructions inside the Samsung Pay app to add your card info such as card number, cardholder name, and expiration date. Double-check all details once they have been entered to make sure everything is correct.

2. Once you have added all the card details, tap on the "Next" option, and wait for the app to validate your card. Once that is done, agree to the terms and conditions of your bank if they show up.

3. You will then be asked to verify your card. You can choose from any of the verification methods shown on-screen (these may depend on your bank and/or card provider) and follow the instructions in the app to complete verification. When all this is done, you may also need to sign the card. Do that by drawing inside the box provided on the screen.

https://www.samsung.com/levant/support/apps-services/how-can-i-add-my-credit-or-debit-cards-to-samsung-pay/

Claim	Exemplary Infringement Analysis[1]



Add a debit or credit card to the Google Wallet app

You can add a supported card to Google Wallet to pay in stores with your phone or smartwatch.

Add new card

With the Google Wallet app

1. Open the Google Wallet app.
2. At the bottom, tap Add to Wallet +.
3. Tap **Payment card**.
   - Any cards you saved to your Google Account are shown.
4. Tap **New credit or debit card**.
   - To add a card, use your camera or tap **Enter details manually**.
5. At the bottom, tap **Save and continue**.
6. Read the Issuer Terms and tap **Accept**.
7. If you're asked to verify your payment method, choose an option from the list. Learn how to verify your payment method.

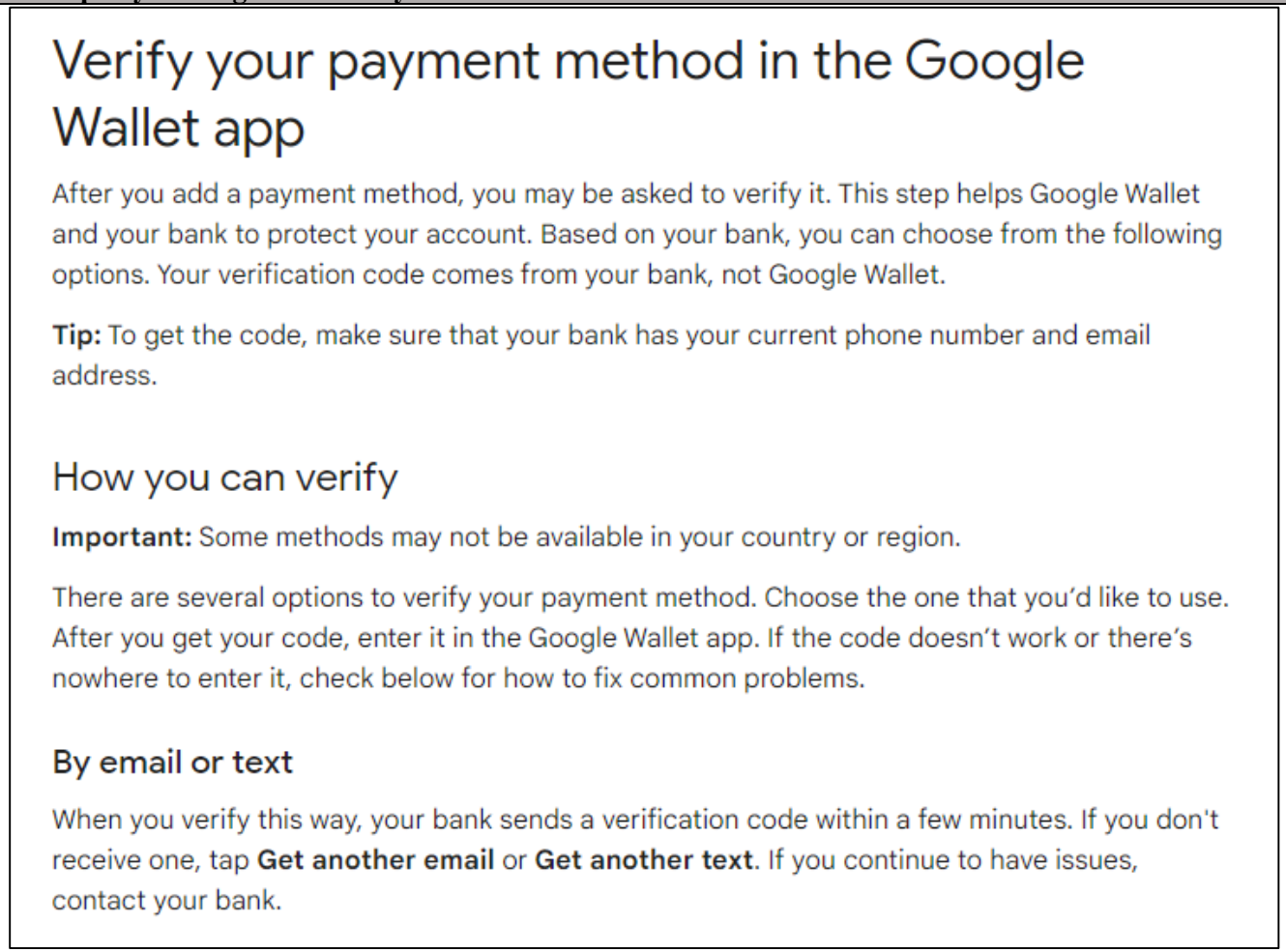
Tips: After this step:

- You'll find a message that your card was added and is ready to make payments in:
  - Stores
  - Online
  - Or in apps where Google Pay is accepted
- If you find a different message, learn to fix a problem.

After you add a card, you might find a small transaction on your account from Google Wallet. This transaction checks that your card and account are valid. This transaction will soon disappear and doesn't affect your balance.

https://support.google.com/wallet/answer/12058983?hl=en#zippy=%2Cwith-the-google-wallet-app

Claim	Exemplary Infringement Analysis[1]



Verify your payment method in the Google Wallet app

After you add a payment method, you may be asked to verify it. This step helps Google Wallet and your bank to protect your account. Based on your bank, you can choose from the following options. Your verification code comes from your bank, not Google Wallet.

Tip: To get the code, make sure that your bank has your current phone number and email address.

How you can verify

Important: Some methods may not be available in your country or region.

There are several options to verify your payment method. Choose the one that you'd like to use. After you get your code, enter it in the Google Wallet app. If the code doesn't work or there's nowhere to enter it, check below for how to fix common problems.

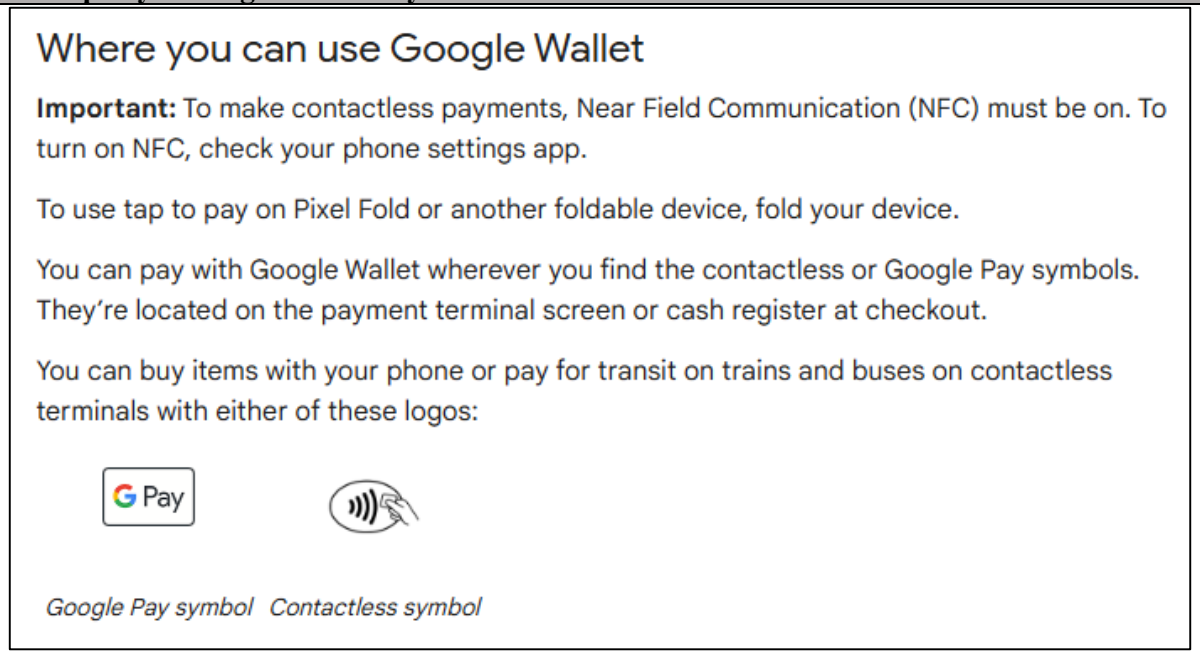
By email or text

When you verify this way, your bank sends a verification code within a few minutes. If you don't receive one, tap **Get another email** or **Get another text**. If you continue to have issues, contact your bank.

https://support.google.com/wallet/answer/12098871?sjid=13565450557356631843-NA

Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.

Claim	Exemplary Infringement Analysis[1]
[17.a.] The wireless device of claim 14, wherein said conducting the financial transaction by paying for a product comprises: establishing by the wireless device a short-range wireless link with the entity;	The Accused Products are configured to perform operations including "wherein said conducting the financial transaction by paying for a product comprises: establishing by the wireless device a short-range wireless link with the entity." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including establishing by the wireless device a short-range link (NFC) with the entity. **How does Samsung Pay work?** Samsung Pay uses Near Field Communication (NFC) to make contactless mobile payments. **How do I make in-store purchases with Samsung Pay?** - Start by either swiping-up from the home button or opening the Samsung Pay app from your home screen. - Next, select the card you want to pay with. - You can authenticate by IRIS (available on selected phones), fingerprint or pin. - Hover your phone about 2-4 cm over the card reader where you'd usually tap your physical card to complete the transaction. https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]
	 https://support.google.com/wallet/answer/12060043?hl=en Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[17.b.] wirelessly transmitting information to the entity using unlicensed frequencies; and	The Accused Products are configured to perform operations including "wirelessly transmitting information to the entity using unlicensed frequencies." For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including wirelessly transmitting information to the entity (the point-of-sale terminal) using unlicensed frequencies.

Claim	Exemplary Infringement Analysis[1]

How does Samsung Pay work?

Samsung Pay uses Near Field Communication (NFC) to make contactless mobile payments.

How do I make in-store purchases with Samsung Pay?

- Start by either swiping-up from the home button or opening the Samsung Pay app from your home screen.
- Next, select the card you want to pay with.
- You can authenticate by IRIS (available on selected phones), fingerprint or pin.
- Hover your phone about 2-4 cm over the card reader where you'd usually tap your physical card to complete the transaction.

https://www.samsung.com/uk/samsung-pay/faq/

Where you can use Google Wallet

Important: To make contactless payments, Near Field Communication (NFC) must be on. To turn on NFC, check your phone settings app.

To use tap to pay on Pixel Fold or another foldable device, fold your device.

You can pay with Google Wallet wherever you find the contactless or Google Pay symbols. They're located on the payment terminal screen or cash register at checkout.

You can buy items with your phone or pay for transit on trains and buses on contactless terminals with either of these logos:

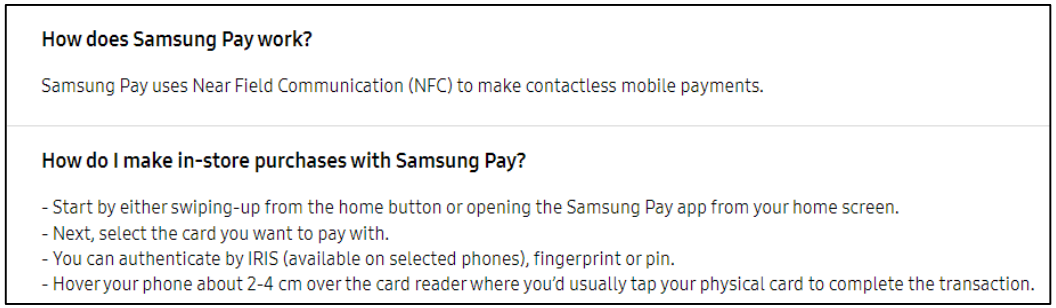


Google Pay symbol *Contactless symbol*

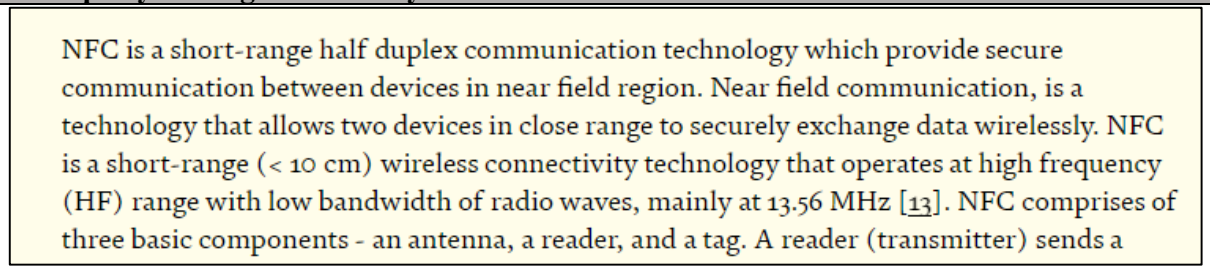
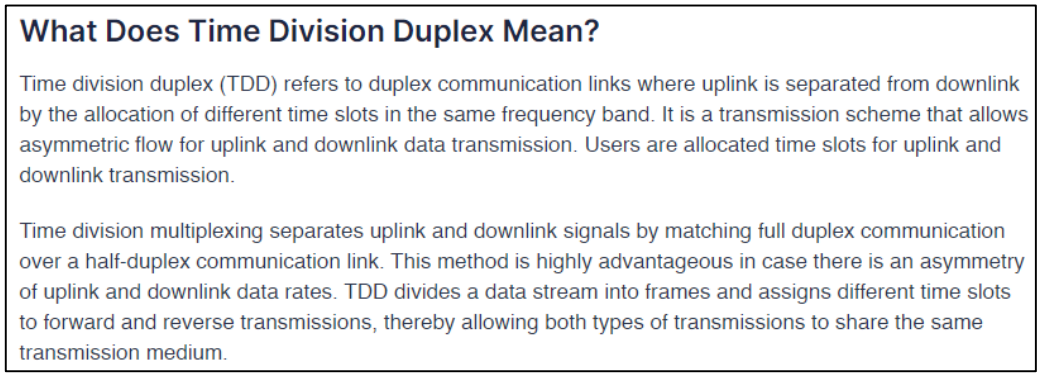
https://support.google.com/wallet/answer/12060043?hl=en

Claim	Exemplary Infringement Analysis[1]
	How Does Near-Field Communication Work? Near-field communication is a wireless connectivity technology that is based on RFID. It uses induction coupling to enable communication between two compatible devices that are close. It enables users to automatically transfer data bi-directionally between two NFC-enabled devices by just touching both of them or by bringing them close to each other. NFC operates at the globally unlicensed 13.56 MHz frequency. It has three different data transfer rates – i.e., 212 kbit/s, 106 kbit/s, and 424 kbit/s. https://www.spiceworks.com/tech/networking/articles/what-is-near-field-communication/ Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[17.c.] wirelessly receiving information from the entity using unlicensed frequencies;	The Accused Products are configured to perform operations including "wirelessly receiving information from the entity using unlicensed frequencies." For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including wirelessly receiving information from the entity (the point-of-sale terminal) using unlicensed frequencies. **How does Samsung Pay work?** Samsung Pay uses Near Field Communication (NFC) to make contactless mobile payments. **How do I make in-store purchases with Samsung Pay?** - Start by either swiping-up from the home button or opening the Samsung Pay app from your home screen. - Next, select the card you want to pay with. - You can authenticate by IRIS (available on selected phones), fingerprint or pin. - Hover your phone about 2-4 cm over the card reader where you'd usually tap your physical card to complete the transaction. https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]
	Where you can use Google Wallet **Important:** To make contactless payments, Near Field Communication (NFC) must be on. To turn on NFC, check your phone settings app. To use tap to pay on Pixel Fold or another foldable device, fold your device. You can pay with Google Wallet wherever you find the contactless or Google Pay symbols. They're located on the payment terminal screen or cash register at checkout. You can buy items with your phone or pay for transit on trains and buses on contactless terminals with either of these logos:  *Google Pay symbol* *Contactless symbol* https://support.google.com/wallet/answer/12060043?hl=en **How Does Near-Field Communication Work?** Near-field communication is a wireless connectivity technology that is based on RFID. It uses induction coupling to enable communication between two compatible devices that are close. It enables users to automatically transfer data bi-directionally between two NFC-enabled devices by just touching both of them or by bringing them close to each other. NFC operates at the globally unlicensed 13.56 MHz frequency. It has three different data transfer rates – i.e., 212 kbit/s, 106 kbit/s, and 424 kbit/s. https://www.spiceworks.com/tech/networking/articles/what-is-near-field-communication/

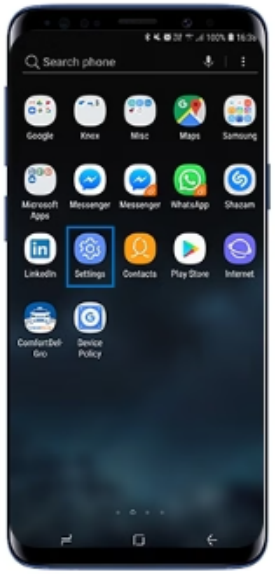
Claim	Exemplary Infringement Analysis[1]
	Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[17.d.] wherein said wirelessly transmitting and said wirelessly receiving comprises using a time domain duplex protocol; and	The Accused Products are configured to perform operations including "wherein said wirelessly transmitting and said wirelessly receiving comprises using a time domain duplex protocol." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including using a time domain duplex protocol for the wireless transmitting and receiving.  **How does Samsung Pay work?** Samsung Pay uses Near Field Communication (NFC) to make contactless mobile payments. **How do I make in-store purchases with Samsung Pay?** - Start by either swiping-up from the home button or opening the Samsung Pay app from your home screen. - Next, select the card you want to pay with. - You can authenticate by IRIS (available on selected phones), fingerprint or pin. - Hover your phone about 2-4 cm over the card reader where you'd usually tap your physical card to complete the transaction. https://www.samsung.com/uk/samsung-pay/faq/

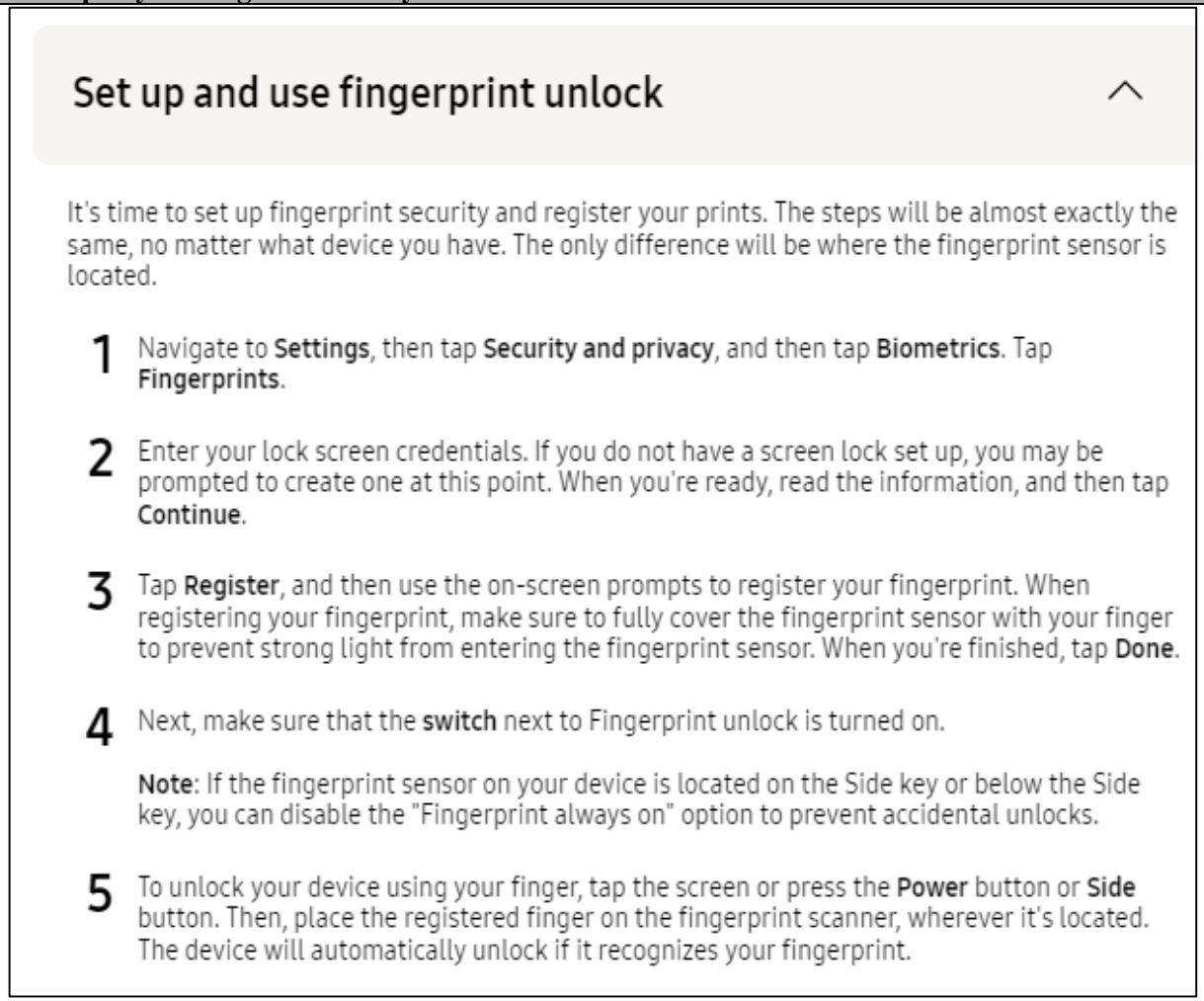
Claim	Exemplary Infringement Analysis[1]
	Where you can use Google Wallet **Important:** To make contactless payments, Near Field Communication (NFC) must be on. To turn on NFC, check your phone settings app. To use tap to pay on Pixel Fold or another foldable device, fold your device. You can pay with Google Wallet wherever you find the contactless or Google Pay symbols. They're located on the payment terminal screen or cash register at checkout. You can buy items with your phone or pay for transit on trains and buses on contactless terminals with either of these logos:   *Google Pay symbol* *Contactless symbol* https://support.google.com/wallet/answer/12060043?hl=en **How Does Near-Field Communication Work?** Near-field communication is a wireless connectivity technology that is based on RFID. It uses induction coupling to enable communication between two compatible devices that are close. It enables users to automatically transfer data bi-directionally between two NFC-enabled devices by just touching both of them or by bringing them close to each other. NFC operates at the globally unlicensed 13.56 MHz frequency. It has three different data transfer rates – i.e., 212 kbit/s, 106 kbit/s, and 424 kbit/s. https://www.spiceworks.com/tech/networking/articles/what-is-near-field-communication/

Claim	Exemplary Infringement Analysis[1]
	 NFC is a short-range half duplex communication technology which provide secure communication between devices in near field region. Near field communication, is a technology that allows two devices in close range to securely exchange data wirelessly. NFC is a short-range (< 10 cm) wireless connectivity technology that operates at high frequency (HF) range with low bandwidth of radio waves, mainly at 13.56 MHz [13]. NFC comprises of three basic components - an antenna, a reader, and a tag. A reader (transmitter) sends a https://www.intechopen.com/chapters/75600  **What Does Time Division Duplex Mean?** Time division duplex (TDD) refers to duplex communication links where uplink is separated from downlink by the allocation of different time slots in the same frequency band. It is a transmission scheme that allows asymmetric flow for uplink and downlink data transmission. Users are allocated time slots for uplink and downlink transmission. Time division multiplexing separates uplink and downlink signals by matching full duplex communication over a half-duplex communication link. This method is highly advantageous in case there is an asymmetry of uplink and downlink data rates. TDD divides a data stream into frames and assigns different time slots to forward and reverse transmissions, thereby allowing both types of transmissions to share the same transmission medium. https://www.techopedia.com/definition/27019/time-division-duplex-tdd Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[17.e.] wherein said establishing by the wireless device a short-range wireless link with the entity comprises establishing the short-	The Accused Products are configured to perform operations including "wherein said establishing by the wireless device a short-range wireless link with the entity comprises establishing the short-range wireless link with the entity responsive to the wireless device satisfying the proximity condition relative to the entity and responsive to the wireless device sensing the parameter and determining that the value associated therewith satisfies the threshold criterion." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung

Claim	Exemplary Infringement Analysis[1]
range wireless link with the entity responsive to the wireless device satisfying the proximity condition relative to the entity and responsive to the wireless device sensing the parameter and determining that the value associated therewith satisfies the threshold criterion.	smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including the Samsung smartphone establishing a short-range wireless link (NFC) with the entity (the point-of-sale terminal) responsive to the Samsung smartphone satisfying the proximity condition relative to the entity and responsive to the wireless device sensing the parameter (facial recognition, fingerprint, or iris) and determining that the associated parameter value satisfies the threshold criterion (facial recognition, fingerprint, or iris associated with the user). **How does Samsung Pay work?** Samsung Pay uses Near Field Communication (NFC) to make contactless mobile payments. **How do I make in-store purchases with Samsung Pay?** - Start by either swiping-up from the home button or opening the Samsung Pay app from your home screen. - Next, select the card you want to pay with. - You can authenticate by IRIS (available on selected phones), fingerprint or pin. - Hover your phone about 2-4 cm over the card reader where you'd usually tap your physical card to complete the transaction. https://www.samsung.com/uk/samsung-pay/faq/ Near Field Communication (NFC) technology allows users to make secure transactions, exchange digital content, and connect electronic devices with a touch. NFC transmissions are short range (from a touch to a few centimetres) and require the devices to be in close proximity. NFC is the technology in contactless cards, and the most common use of NFC technology in your smartphone is making easy payments with Samsung Pay. NFC can also be used to quickly connect with wireless devices and transfer data with Android Beam. https://www.samsung.com/uk/support/mobile-devices/what-is-nfc-and-how-do-i-use-it/

Claim	Exemplary Infringement Analysis[1]
	Q. What do I need to start using Samsung Pay? **A.** To use Samsung Pay, you need: A compatible Samsung device* A supported payment card from a participating bank A Samsung account Registered fingerprint, iris image or Samsung Pay PIN To be located in the country of the participating bank***Supported devices list **For the verification purposes, you must be located in the same country of the participating bank when adding a payment card in Samsung Pay **Q.** Which devices will support iris image authentication for Samsung Pay? **A.** Only Galaxy Note9, Galaxy S9/S9+, Galaxy Note8, Galaxy Note Fan Edition and Galaxy S8/S8+ are supported at the moment. https://www.samsung.com/my/samsung-pay/frequently-asked-questions/getting-started/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS10001613/

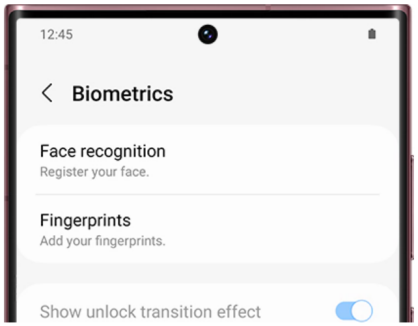
Claim	Exemplary Infringement Analysis[1]

Set up Facial recognition

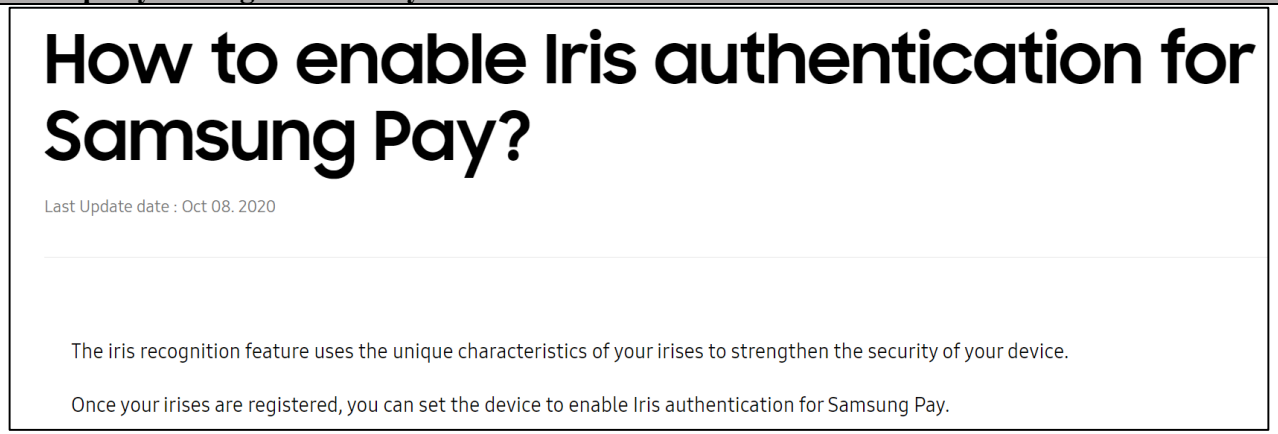
Note: To use Face recognition, you need to set a PIN, Pattern, or Password first.

Your face is unique to you, which makes it one of the best security features in your arsenal.

1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**.
2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up.
3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process.
4. When you're done, adjust your desired settings.



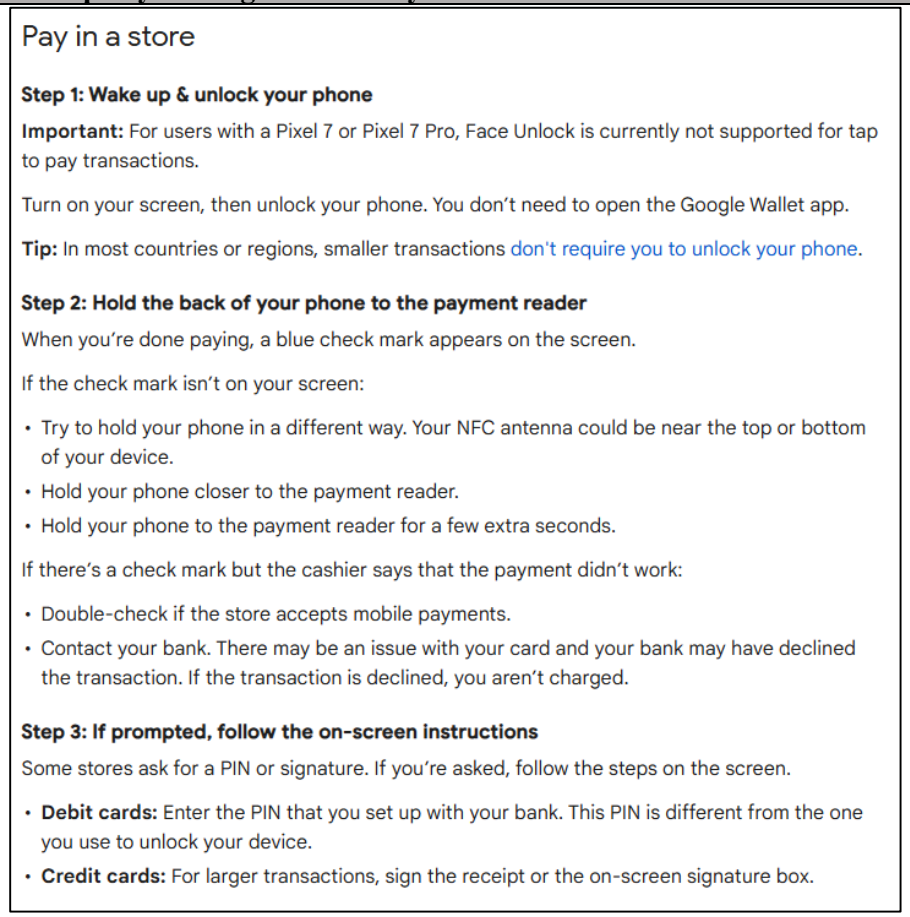
https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/us/support/answer/ANS00045102/

Claim	Exemplary Infringement Analysis[1]
	Where you can use Google Wallet **Important:** To make contactless payments, Near Field Communication (NFC) must be on. To turn on NFC, check your phone settings app. To use tap to pay on Pixel Fold or another foldable device, fold your device. You can pay with Google Wallet wherever you find the contactless or Google Pay symbols. They're located on the payment terminal screen or cash register at checkout. You can buy items with your phone or pay for transit on trains and buses on contactless terminals with either of these logos:   *Google Pay symbol* *Contactless symbol* https://support.google.com/wallet/answer/12060043?hl=en

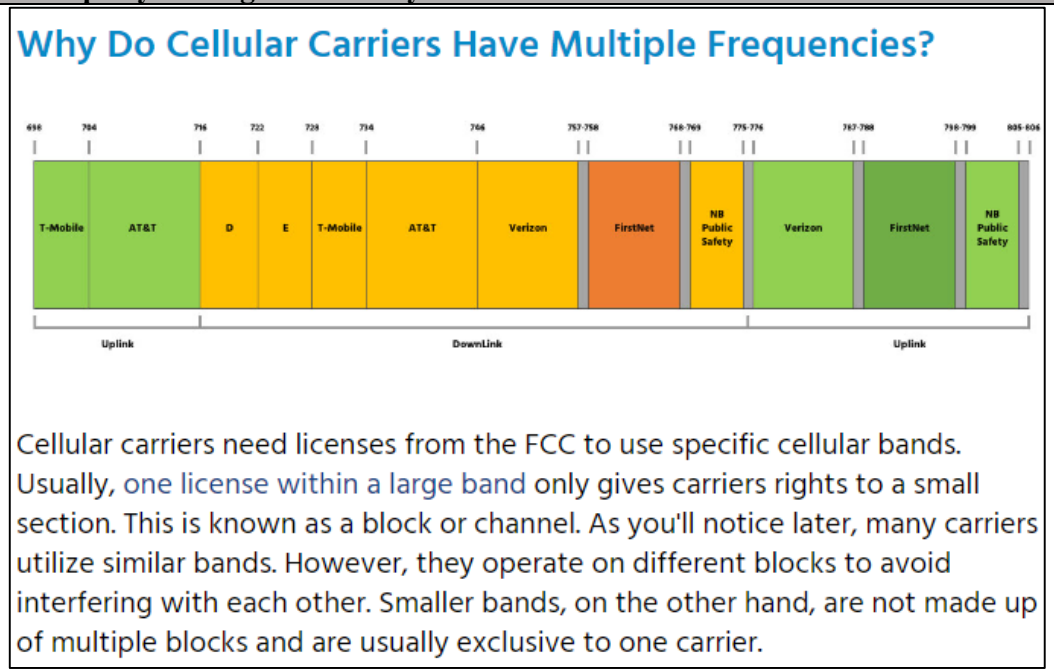
Claim	Exemplary Infringement Analysis[1]
	Hello, Welcome to the Google Wallet community. Set up screen lock for tap to pay transactions **Important:** Coming soon, your credit and debit card won't be charged for retail payments unless you've recently used a verification method, like your fingerprint or PIN. Some users may already need to verify to make a payment. If you're asked to verify it's you, complete verification steps on your device to make a payment. To make contactless payments with Google Wallet, you must use a screen lock on your device for your security. You can unlock Google Wallet with several methods: • PIN • Pattern • Password • Fingerprint • Iris scan • 3D face unlock **Tip:** Google Wallet doesn't work with 2D face unlock or screen locks like Smart Unlock or Knock to Unlock. Set or change a screen lock 1. Open your phone Settings app. 2. Tap **Security**. ◦ If you don't find "Security," you can get help at your phone manufacturer support site. 3. Tap **Screen lock**. ◦ If you already set a lock, you must enter your PIN, pattern, or password before you can choose a different one. 4. Tap the option you'd like to use. Follow the on-screen instructions. https://support.google.com/wallet/thread/267917558/how-to-add-biometric-security-in-order-to-pay?hl=en

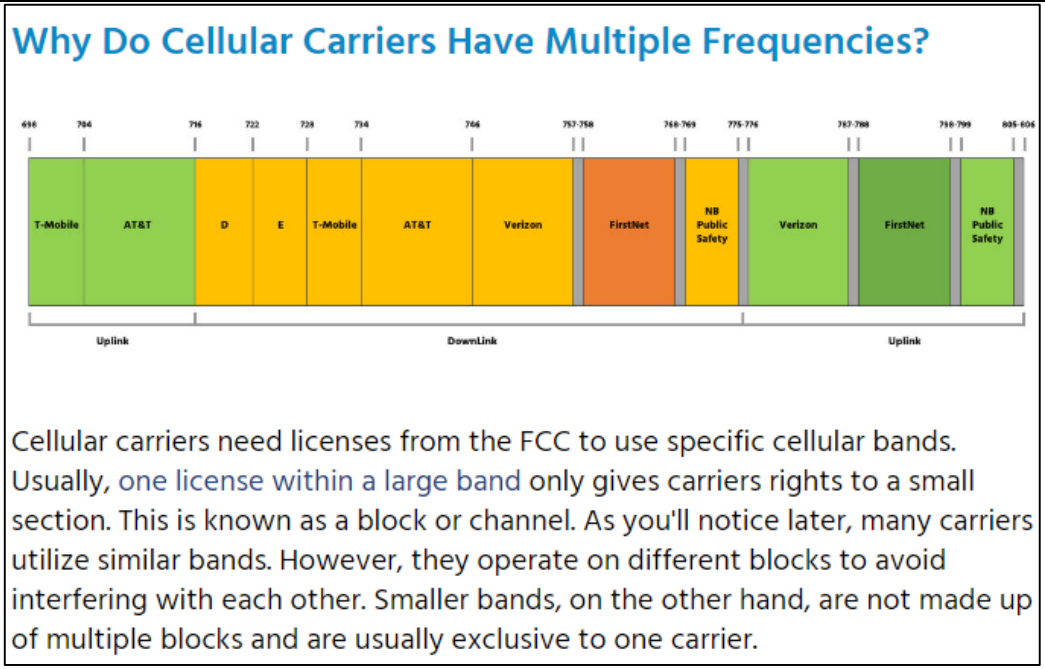
Claim	Exemplary Infringement Analysis[1]
	 Pay in a store **Step 1: Wake up & unlock your phone** **Important:** For users with a Pixel 7 or Pixel 7 Pro, Face Unlock is currently not supported for tap to pay transactions. Turn on your screen, then unlock your phone. You don't need to open the Google Wallet app. **Tip:** In most countries or regions, smaller transactions don't require you to unlock your phone. **Step 2: Hold the back of your phone to the payment reader** When you're done paying, a blue check mark appears on the screen. If the check mark isn't on your screen: • Try to hold your phone in a different way. Your NFC antenna could be near the top or bottom of your device. • Hold your phone closer to the payment reader. • Hold your phone to the payment reader for a few extra seconds. If there's a check mark but the cashier says that the payment didn't work: • Double-check if the store accepts mobile payments. • Contact your bank. There may be an issue with your card and your bank may have declined the transaction. If the transaction is declined, you aren't charged. **Step 3: If prompted, follow the on-screen instructions** Some stores ask for a PIN or signature. If you're asked, follow the steps on the screen. • **Debit cards:** Enter the PIN that you set up with your bank. This PIN is different from the one you use to unlock your device. • **Credit cards:** For larger transactions, sign the receipt or the on-screen signature box. https://support.google.com/wallet/answer/12060043?hl=en# Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[18.a.] The wireless device of claim 14,	The Accused Products are configured to perform operations including "wherein said requesting from a second device an authorization to enable a function for conducting a financial transaction and/or said receiving from the second

Claim	Exemplary Infringement Analysis[1]
wherein said requesting from a second device an authorization to enable a function for conducting a financial transaction and/or said receiving from the second device the authorization to enable the function for conducting the financial transaction comprises: establishing by the wireless device a link with the second device, comprising a wireless link that comprises a distance that is greater than a distance associated with the proximity condition;	device the authorization to enable the function for conducting the financial transaction comprises: establishing by the wireless device a link with the second device, comprising a wireless link that comprises a distance that is greater than a distance associated with the proximity condition." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including establishing a link between the Samsung smartphone and the base station (the second device) that has a distance greater than a distance associated with the proximity condition. **How does Samsung Pay work?** Samsung Pay uses Near Field Communication (NFC) to make contactless mobile payments. **How do I make in-store purchases with Samsung Pay?** - Start by either swiping-up from the home button or opening the Samsung Pay app from your home screen. - Next, select the card you want to pay with. - You can authenticate by IRIS (available on selected phones), fingerprint or pin. - Hover your phone about 2-4 cm over the card reader where you'd usually tap your physical card to complete the transaction. https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]
	Where you can use Google Wallet **Important:** To make contactless payments, Near Field Communication (NFC) must be on. To turn on NFC, check your phone settings app. To use tap to pay on Pixel Fold or another foldable device, fold your device. You can pay with Google Wallet wherever you find the contactless or Google Pay symbols. They're located on the payment terminal screen or cash register at checkout. You can buy items with your phone or pay for transit on trains and buses on contactless terminals with either of these logos:  *Google Pay symbol* *Contactless symbol* https://support.google.com/wallet/answer/12060043?hl=en What is mobile data & how do I turn it on or off Mobile data is the internet connectivity provided by your mobile network provider. While your phone will automatically switch to Wi-Fi if a network is available, you can manually control your mobile data use by enabling and disabling it. You can also enable Data saver to prevent mobile data usage by apps that are running in the background. If you have disabled mobile data and would like to activate Wifi calling, you can find out more here. https://www.samsung.com/uk/support/mobile-devices/how-do-i-enable-or-disable-mobile-data/

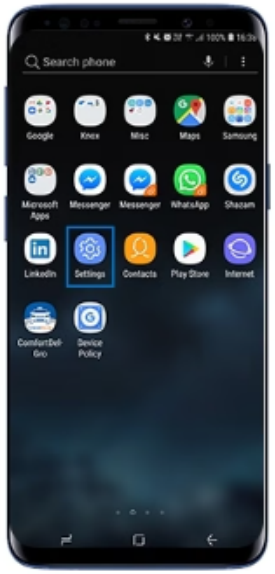
Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/latin_en/support/mobile-devices/how-to-enable-or-disable-mobile-data-on-your-galaxy-phone/ Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[18.b.] wirelessly transmitting information to the second device over said wireless link using unlicensed and/or licensed frequencies; and	The Accused Products are configured to perform operations "wirelessly transmitting information to the second device over said wireless link using unlicensed and/or licensed frequencies." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a cellular data network or WiFi uses a wireless communication link that wirelessly transmits information to a base station (the second device) using frequencies licensed from the Federal Communications Commission.

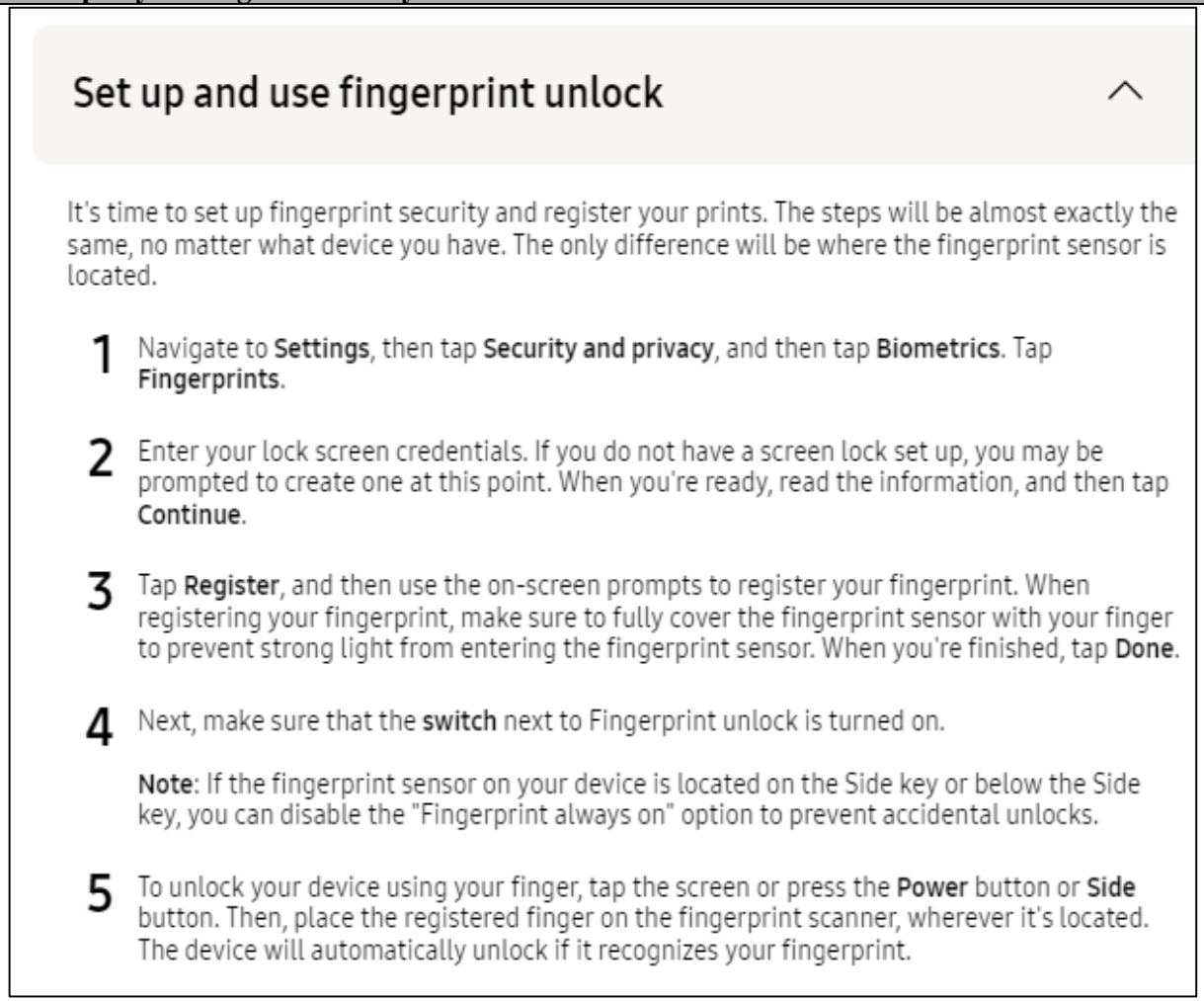
Claim	Exemplary Infringement Analysis[1]
	 https://www.wilsonamplifiers.com/blog/frequencies-by-provider/ Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[18.c.] wirelessly receiving information from the second device over said wireless link using unlicensed and/or licensed frequencies;	The Accused Products are configured to perform operations "wirelessly receiving information from the second device over said wireless link using unlicensed and/or licensed frequencies." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a cellular data network or WiFi uses a wireless communication link that wirelessly receives information from a base station (the second device) using frequencies licensed from the Federal Communications Commission.

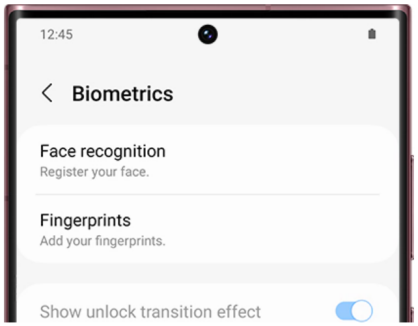
Claim	Exemplary Infringement Analysis[1]
	 https://www.wilsonamplifiers.com/blog/frequencies-by-provider/ Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[18.d.] wherein said wirelessly transmitting and/or said wirelessly receiving comprises using an orthogonal frequency division multiplexing and/or orthogonal frequency	The Accused Products are configured to perform operations including "wherein said wirelessly transmitting and/or said wirelessly receiving comprises using an orthogonal frequency division multiplexing and/or orthogonal frequency division multiple access protocol." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including wirelessly receiving and transmitting (over a cellular network or WiFi) information using a wireless

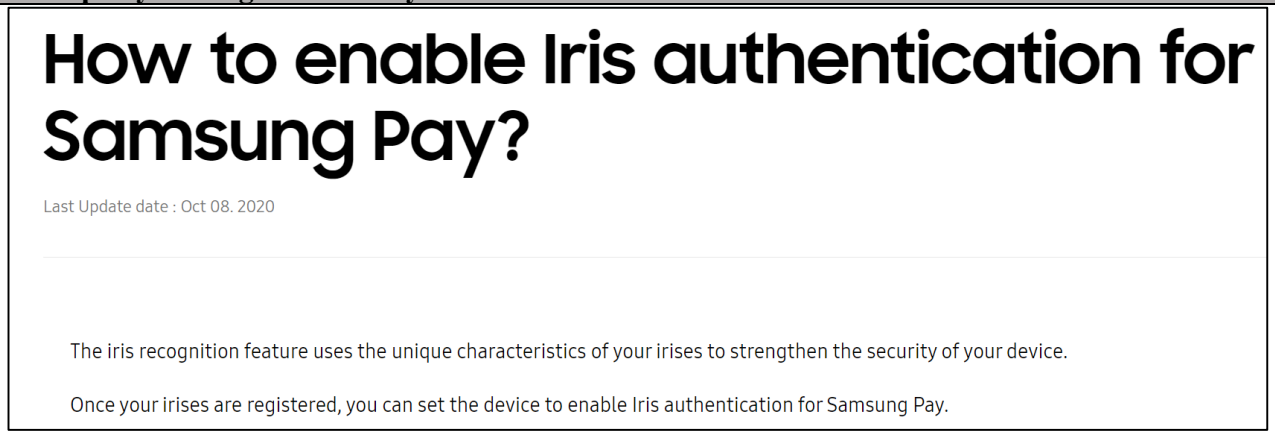
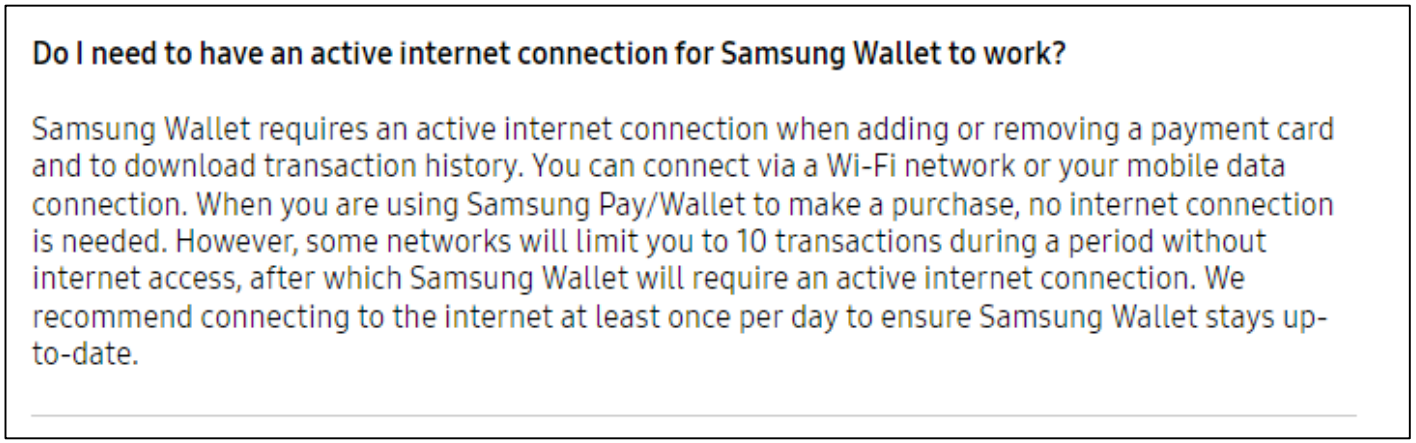
Claim	Exemplary Infringement Analysis[1]
division multiple access protocol; and	communications link that uses an Orthogonal Frequency Division Multiplexed (OFDM) and/or Orthogonal Frequency Division Multiple Access (OFDMA) protocol. Is OFDMA used in 5G or other cellular networks? Yes. OFDMA is used in the air interface stage of 5G New Radio (5G NR), which allows for mobile connectivity. OFDM, the older technology, is one of the primary enabling technologies of 3G and 4G cellular service. Where is OFDMA used? OFDMA technology can be applied anywhere data is sent along radio waves, including the: • Mobility mode of the IEEE 802.16 wireless standard known as WiMAX • Wireless LAN (WLAN) standard IEEE 802.11ax (Wi-Fi 6) • IEEE 802.20 mobile wireless metropolitan-area network (WMAN) standard • Downlink of the 3GPP Long-Term Evolution (LTE) fourth-generation mobile broadband standard (4G) https://www.cisco.com/c/en/us/products/wireless/what-is-ofdma.html#~q-a Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.
[18.e.] wherein said establishing by the wireless device a link with the second device comprises establishing the link with the second device responsive to the wireless device sensing the parameter	The Accused Products are configured to perform operations including "wherein said establishing by the wireless device a link with the second device comprises establishing the link with the second device responsive to the wireless device sensing the parameter and determining that the value sensed satisfies the threshold criterion." On information and belief, the Accused Products include software configured to execute this claim limitation. Plaintiff reserves its right to supplement these contentions with the corresponding source code. For example, a Samsung smartphone conducting financial transactions via Samsung Pay and/or Google Pay is configured to perform operations including establishing the communications service via a cellular data network or WiFi (the link) with the base station (second device) responsive to the Samsung smartphone sensing the parameter (facial recognition, fingerprint, or iris)

Claim	Exemplary Infringement Analysis[1]
and determining that the value sensed satisfies the threshold criterion.	and determining that the value sensed satisfies the threshold criterion (facial recognition, fingerprint, or iris associated with the user). **How does Samsung Pay work?** Samsung Pay uses Near Field Communication (NFC) to make contactless mobile payments. **How do I make in-store purchases with Samsung Pay?** - Start by either swiping-up from the home button or opening the Samsung Pay app from your home screen. - Next, select the card you want to pay with. - You can authenticate by IRIS (available on selected phones), fingerprint or pin. - Hover your phone about 2-4 cm over the card reader where you'd usually tap your physical card to complete the transaction. https://www.samsung.com/uk/samsung-pay/faq/

Claim	Exemplary Infringement Analysis[1]
	Face recognition lets you unlock your phone in one quick move. To use Face Recognition, follow these steps: 1 Tap Settings  https://www.samsung.com/sg/support/mobile-devices/how-to-use-face-recognition-to-unlock-samsung-mobile-device/

Claim	Exemplary Infringement Analysis[1]
	 Set up and use fingerprint unlock It's time to set up fingerprint security and register your prints. The steps will be almost exactly the same, no matter what device you have. The only difference will be where the fingerprint sensor is located. 1 Navigate to **Settings**, then tap **Security and privacy**, and then tap **Biometrics**. Tap **Fingerprints**. 2 Enter your lock screen credentials. If you do not have a screen lock set up, you may be prompted to create one at this point. When you're ready, read the information, and then tap **Continue**. 3 Tap **Register**, and then use the on-screen prompts to register your fingerprint. When registering your fingerprint, make sure to fully cover the fingerprint sensor with your finger to prevent strong light from entering the fingerprint sensor. When you're finished, tap **Done**. 4 Next, make sure that the **switch** next to Fingerprint unlock is turned on. **Note**: If the fingerprint sensor on your device is located on the Side key or below the Side key, you can disable the "Fingerprint always on" option to prevent accidental unlocks. 5 To unlock your device using your finger, tap the screen or press the **Power** button or **Side** button. Then, place the registered finger on the fingerprint scanner, wherever it's located. The device will automatically unlock if it recognizes your fingerprint. https://www.samsung.com/us/support/answer/ANS10001613/

Claim	Exemplary Infringement Analysis[1]
	Set up Facial recognition **Note:** To use Face recognition, you need to set a PIN, Pattern, or Password first. Your face is unique to you, which makes it one of the best security features in your arsenal. 1. From **Settings**, swipe to and tap **Security and privacy**, and then tap **Biometrics**. 2. Tap **Face recognition**, and then enter your PIN or password. If you do not already have a secure screen lock, you will need to set one up. 3. Tap **Continue**, and then hold the phone 8-20 inches away as you position your face inside the circle. Hold the position until the progress bar reaches 100%. You may be prompted to remove your glasses to finish the process. 4. When you're done, adjust your desired settings.  https://www.samsung.com/us/support/answer/ANS00062630/

Claim	Exemplary Infringement Analysis[1]
	 https://www.samsung.com/sg/support/mobile-devices/how-to-enable-iris-authentication-for-samsung-pay/  https://www.samsung.com/us/support/answer/ANS10002586/?msockid=11f87435ebd96d0b25a660c9ea286c88

Claim	Exemplary Infringement Analysis[1]
	Where you can use Google Wallet **Important:** To make contactless payments, Near Field Communication (NFC) must be on. To turn on NFC, check your phone settings app. To use tap to pay on Pixel Fold or another foldable device, fold your device. You can pay with Google Wallet wherever you find the contactless or Google Pay symbols. They're located on the payment terminal screen or cash register at checkout. You can buy items with your phone or pay for transit on trains and buses on contactless terminals with either of these logos:   *Google Pay symbol* *Contactless symbol* https://support.google.com/wallet/answer/12060043?hl=en

View transaction history

1. Open Google Pay .
2. Under "Manage your Money," click **See transaction history**.
3. Here, you can click on any transaction to see the detailed transaction page.

Troubleshoot to check your previous transaction history

Your transaction history only contains those made through Google Pay and not all UPI or banking transactions. If you can't view your Google Pay transaction history, do the next steps.

Step 1: Update Google Pay

To check for updates, go to the Play Store or App Store.

Step 2: Check email address for Google Pay

If you registered more than one email address for your Google Pay account, go through the email selection steps again.

1. Open Google Pay .
2. Select your preferred language.
3. Enter your 10 digit phone number.
4. To accept all in-app permissions, tap **Allow**.
5. Enter the Google account registered to your mobile device and tap **Continue**. **Tip:** You can also add a new Google account.
6. To secure your Google Pay app , select **Use screen lock** or **Use Google PIN**.
   Tip: Under screen lock, you can choose pattern lock, fingerprint sensor, or passcode.
7. Add a bank account.

If you used only one email address to register a Google Pay account, wait for 3 to 4 hours then try to check your transaction history again. If you can't check it, it can be due to poor cellular reception or network coverage.

https://support.google.com/pay/india/answer/7430307?hl=en#:~:text=View%20transaction%20history%201%20Op

Claim	Exemplary Infringement Analysis[1]
	en%20Google%20Pay%20.,any%20transaction%20to%20see%20the%20detailed%20transaction%20page Investigation of both the patent and the Accused Products (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Telcom reserves the right to update and amend the above as the litigation progresses, including in view of discovery provided by the Defendants.