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6 captures
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About this capture

Architecture: Features & Configuration Options

The FaceTec Server Software runs 100% in YOUR Private Cloud inside YOUR firewall. None of your users' PII or Biometric Data is sent to FaceTec.

Device SDK Features & Options

Compare the Device SDK properties for the 3D Liveness Check & 3D Face Verification use cases.

FaceTec Device SDK Features	3D Liveness Check (No Face Matching)	3D Face Verification (Matching + Liveness ✓)
Device Compatibility	Android, iOS, Mobile Browsers, PWA & PC w/Webcam	Android, iOS, Mobile Browsers, PWA & PC w/Webcam
Biometric Data Stored	None, or On-Server (for Audit Trail)	Encrypted FaceMap Stored on Server
3D Liveness Verified	Yes, On-Server	Yes, On-Server
3D Face Match to Govt. Photo ID	Yes, with Photo ID Identity Check	Yes, with Photo ID Identity Check
3D Face Matching	Not Applicable	On-Server - 1:1 & 1:N (1/125M FAR @ <1% FRR)
Device SDK Download Size	iOS/Android: 3.9MB & Browser: 3.7MB	iOS/Android: 3.9MB & Browser: 3.7MB
Transmitted 3D FaceScan Size	~350KB	~350KB
Age Check (Anonymous)	Yes, on 3D FaceScans/Maps & 2D Images	Yes, on 3D FaceScans/Maps & 2D Images

Testing API vs. Customer Hosted & Run Server SDK

Compare the Server SDK properties for the FaceTec Testing API & Customer Hosted Server SDK when in Production.

Features & Options	FaceTec Testing API	Customer Hosted Server SDK/API
At Rest/In Transit Data	Encrypted	Encrypted
Biometric Storage	FaceTec Testing Cloud (AWS)	Customer's Private Server / Cloud or User Device
Server/Cloud Software Required	None (all operations REST API based)	FaceTec Server SDK (provides private REST API)
1:N De-Duplication Check	For Testing/POC Only	Yes, new users can be checked for dupes
Migration to the Other API	Yes, move from FaceTec's Managed Testing API to your own Server SDK/API w/ a Device SDK Update	Not Applicable
Server Sample Code & Demo Apps	Yes, via REST API	Yes, Java, Docker
Startup Effort	Sample apps pre-configured for immediate testing	FaceTec Server SDK deploys quickly
Pricing Model	Free, For Initial Setup & Testing Only	Billed Per 3D Liveness Check Session/User

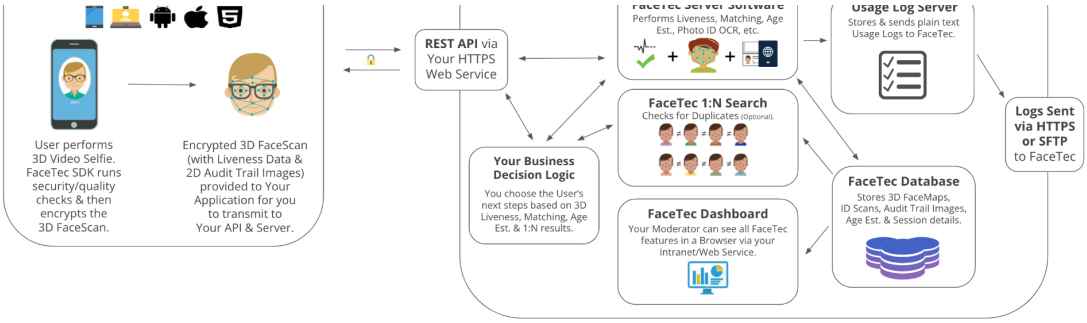
Standard Server SDK vs. Custom Server SDK

Feature comparison of Standard Server & Custom Server SDKs.

Customer Hosted Server SDK Features	Standard Server	Custom Server
Server Dashboard (only visible to Customer)	Available by Default	Available by Default
Databases Supported	In-Memory Stub DB, MongoDB, DocumentDB, and S3	Any. Customer configured (examples provided).
Startup Effort	1 Config File with several properties	Initial development deploys in minutes. Customer can customize and configure the REST API code.
Customization Level	Closed Application	Customizable REST API code provided
Uses Server Core	Yes	Yes
Difference in 3D Liveness or Matching Accuracy	None, uses same Server Core Library	None, uses same Server Core Library

Private Cloud Architecture & Data Flow

High-level overview of how 3D FaceScan data and ID Scans flow from your users' devices to your Private Cloud.



Notes on Architecture & Data Privacy

- FaceTec does NOT provide a biometric data processing service. FaceTec is software that You download, integrate, and run inside your Private Cloud.
- First, you download FaceTec's device-side user SDKs and integrate them into your Apps & Webpages.
- Second, you download FaceTec's server-side software and you configure it inside Your Private Cloud, inside Your firewall.
- Once in production, with permission from the user, your App/Webpage collects the user's 3D FaceScan (and/or Photo ID Scan data).
- The 3D FaceScan data is sent from the user's device **directly** to your Private Cloud for processing by the FaceTec software (that **You** run on **Your** Private Cloud/Servers).
- The Liveness-proven 3D FaceScans/Maps can then be stored on Your Private Cloud (never FaceTec's servers), and you can delete them at will.
- NONE of your Users' Biometric Data or User PII is sent to FaceTec when the software is deployed with your actual users.
- No FaceTec software feature (KYC/IDV Dashboard, Database, 1:N Search, or any other feature) requires any user biometric data or PII to be sent to FaceTec.

Hardware/Performance Example

Private Cloud Server Configuration: Cluster of 4 Servers running 8 or 16-core Intel Xeon Platinum 8000 Series CPUs
RAM for each Server: Number of CPUs * 2.5 GB of memory/RAM (e.g. an 8 CPU system has 20 GB of RAM; a 16 CPU system has 40 GB of RAM)

- 1.5+ million Liveness Checks per day (depending on configuration).
- 1:N Search for duplicates in a Database of 1,000,000 3D FaceMaps can be performed in under 1 second.
- On AWS/Google the cost for four 8 or 16-core machines is ~$4K - $10K annually.
- Other additional costs to consider: 3D FaceMap storage, database for transaction logs & analytics.

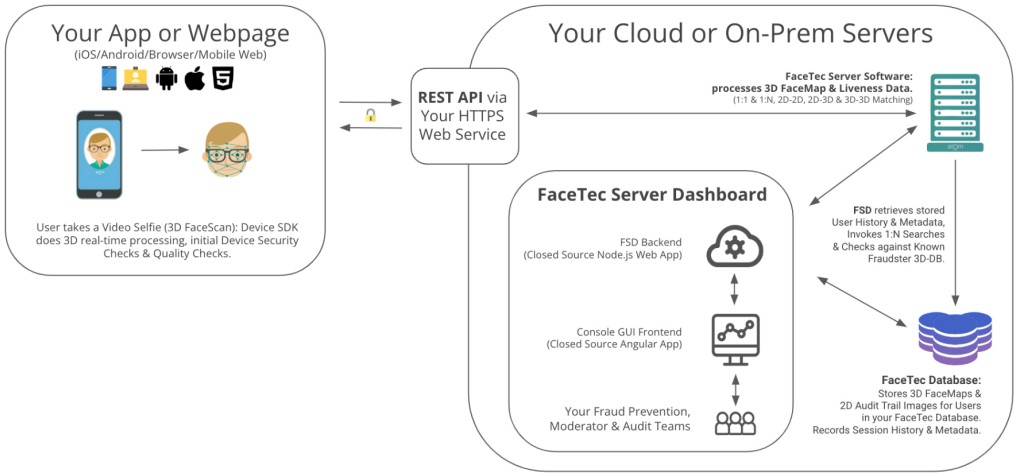
> **CPU Compatibility Note**: Please use Intel Xeon Platinum CPUs for your Server SDK instances. FaceTec leverages specialized Intel functionality for significantly optimized performance. AMD, ARM, or other non-Intel Processors are not recommended and not supported, and will lead to slow performance, or other issues.

Calculating Your Infrastructure Requirements

- To double the requests/sec OR the geographic regions, multiply the required hardware by two.
- To be resilient to load spikes, use auto-scaling for your hosted FaceTec Server with a service like AWS Elastic Beanstalk.

Server Dashboard & Compatibility

The FaceTec Server Dashboard (Video Tour Here) shows FaceTec usage from your users as they perform 3D Liveness Checks, Enrollments, Verifications, Photo ID Matches, & Age Checks. Try the Developer Testing Dashboard Here.



FaceTec Server Software Dashboard

- Hosted 100% inside Your Firewall through Your Private Cloud or Your On-Premise Servers.

- Visible only to the internal staff you designate and never to FaceTec staff.
- You secure the FSD Web App (internal access controls, whitelists, etc.)
- Closed-source Web App → You perform updates as FaceTec improves its software.
- Must use FaceTec Server Managed SDK.
- Databases supported: MongoDB/DocumentDB/CosmosDB.
- Planned database support: SQL, Dynamo, MySQL/Aurora, & more.

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