

IS-41 / ANSI-41



US Telecoms Industry Association **Interim Standard 41** (IS-41, also known as ANSI-41) is an Inter Cellular Network Communication Protocol which was developed to support interoperability between differing networks for mobile telephony, such as [AMPS](#), [D-AMPS](#) and IS-95. The protocol provides functionalities like call delivery to and from the mobile network, intersystem handover and roaming, short message delivery and validation and authentication through an inter-system messaging protocol.

Specifically, IS-41 functions provide operations and procedures to:

- Detect the presence of a mobile subscriber in a visited system.
- Authenticate a subscriber for service.
- Allow access to subscribed services while roaming outside the original service area.
- Provide continuity of in-progress calls through the handover process between systems.

The IS-41 standard for mobility management is similar to [GSM](#) and includes the Home Location Register ([HLR](#)) and Visitor Location Register ([VLR](#)).

See also

[AMPS](#)
[D-AMPS](#)
[GSM](#)
[HLR](#)
[VLR](#)