



Country: India



Product Name:

Mobile Connect MSISDN Verification

Product Code:

mc_mnv_ind

Mobile Connect MSISDN Verification

A simple, secure way to authenticate users via their mobile device.

Product Summary

The Mobile Connect MSISDN Verification service enables a Service Provider (SP) to verify whether the MSISDN of a device accessing their service matches the MSISDN they have on file for that user (or the MSISDN the SP captured from the user during the transactional flow). If the two MSISDNs do not match (or if the user is not accessing the SP over a mobile network), the Mobile Operator will authenticate the user via alternative means and return a response to the SP.

How it works

- Service Provider's application invokes the Mobile Connect API (OpenID Connect) to request the MSISDN Verification service, passing the MSISDN they have for the target user accessing their service
- Provided the user is accessing the SP via the mobile network, the Mobile Operator will retrieve the MSISDN associated with the device connected to the SP's service and perform a comparison of this MSISDN against the MSISDN provided by the SP
- If the two MSISDNs match, the Mobile Operator will return a positive match response to the SP
- If the two MSISDNs do not match, or if the user is not accessing the SP over the mobile network (hence preventing a match taking place), the Mobile Operator will authenticate the user associated with the MSISDN supplied by the SP via USSD or SMS+URL and return the authentication result to the SP

In short, the service is either confirming that the device accessing the SP's service corresponds with the MSISDN that the SP has obtained for that user, OR if this is not possible, the service will authenticate the user directly; in simple terms, the service confirms either that:

- Alice is accessing Alice's account
Or that,
- Someone else is accessing Alice's account but that Alice has authenticated and hence authorised this access.

Benefits

- Quick and easy way to authenticate users
- Seamless authentication where the user is accessing the SP service over the mobile network, or fallback to an alternate authentication method if needed (Network Initiated USSD and further fallback to SMS+URL)

Example use cases:

Account log-in

- Enables users to log-in with a mobile number, eliminating the need for username/password

How it works:

- User enters MSISDN
- Mobile Operator verifies that the MSISDN entered matches that of the device accessing the SP
- If the device MSISDN is different, Mobile Operator authenticates the user of the original MSISDN that was entered

Guest WIFI log-in

- Replaces the need for a user to create an account (username/password) at the Guest WIFI
- More reliable than SMS OTP for verifying that the device accessing the Guest WIFI matches the MSISDN that was entered by the user

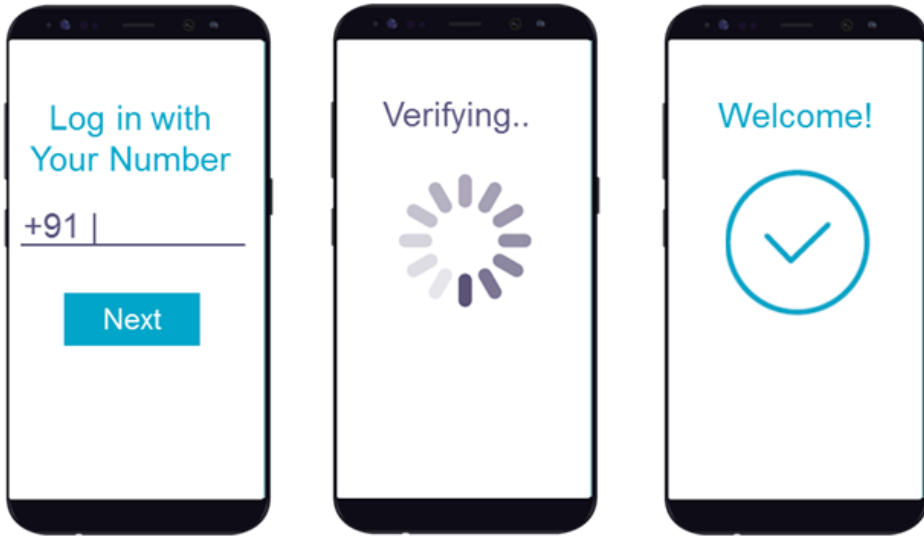
How it works:

- User enters their MSISDN when requesting access to a Guest WIFI hotspot
- Mobile Operator confirms that this MSISDN matches that of the device accessing the Guest WIFI or if there is no match the Mobile Operator authenticates the user against the MSISDN that was entered

Enhancement to existing account login methods

- Where an SP is already authenticating the user via traditional means (e.g., username/password), the MSISDN Verification service can increase security by verifying whether the MSISDN of the device logging in to the SP matches the MSISDN of the account that the user is trying to access. If the MSISDNs don't match, the service will authenticate the actual owner of the user account via the MSISDN provided by the SP
- As such, the MSISDN Verification service can be used by the SP to perform step-up authentication as and when required to strengthen security

EXAMPLE FLOW



User experience logging in to an existing account

Learn More

Mobile Connect website: <https://mobileconnect.in/business/>
Identity programme website: gsma.com/identity