

Mobile Connect Verified MSISDN

Verify your customer's mobile number instantly and securely.



Product Summary

Enables a Service Provider (SP) to verify or obtain the phone number (MSISDN) of the mobile device being used to access their service where the mobile device is accessing the SP over a mobile network¹.

Mobile Connect offers two variants of the Verified MSISDN service:

- **Verified MSISDN Match:** in which the Operator compares the MSISDN associated with the mobile device against that provided by the SP in the service request
- **Verified MSISDN Share:** in which the Operator provides the mobile device MSISDN to the SP who can then perform the check themselves

How it works

- SP issues a request for the ATP service via the Mobile Connect OIDC API to the user's Operator² for either the Verified MSISDN Share or Match service variant
- The Operator processes the request, fetches the authenticated MSISDN from the mobile network and then either compares with the MSISDN submitted by the SP to return a True/False match result (VM Match) or simply returns the MSISDN to the SP (VM Share)

Example use cases

- Verifying a user-provided MSISDN within an account registration flow
- Background anti-fraud check (i.e., does the device being used to access a specific user account belong to the account holder)
- Password-less login by providing an identifier to an SP without requiring user interaction (the SP can use this as a simple LoA2 authentication assertion or step-up authentication themselves via a knowledge challenge)

Product features/benefits

- Significantly speeds up the registration process on mobile (thereby providing a better user experience) by removing the need to send one-time passwords (OTP) via SMS to the mobile device that users then need to enter into the registration page
- Faster and more secure MSISDN authentication via the mobile network (even when roaming) with no need to trade off security for improved customer experience
- Convenience for users and additional revenue for SPs by avoiding legitimate transactions from being blocked
- Verified data from the network (cannot be spoofed by device malware)
- Single open standard API (OIDC) from multiple operators worldwide and single contract for accessing the service
- Option of simple fallback to alternate authentication process (MC Authenticate) if MSISDN cannot be matched (e.g., if the user's device is not currently on the mobile network) for password-less login use cases

1. Some Operator implementations may also support MSISDN retrieval if the user's device is not connected to the mobile network (e.g., connected over WiFi)

2. The SDK includes a Discovery service to determine the correct Operator for a given user

Product Specifications

OIDC <scope> value	openid mc_vm_share; openid mc_vm_match
Applicable Authenticators for acquiring user consent	N/A
API	MC OIDC Device-Initiated Profile
Input parameters	<scope>= openid mc_vm_share or openid mc_vm_match; MSISDN of the target user for the MC Verified MSISDN Match service variant
Service response	PCR; MC Verified MSISDN Share: MSISDN MC Verified MSISDN Match: True/False
Supported platforms	PHP, JAVA, .NET

About Mobile Connect

Mobile Connect is a worldwide initiative by mobile operators to bring a wide portfolio of identity services to market that enable SPs and end-users to transact with one-another more securely through strong authentication, authorisation and exchange of user-consented verified information.

For more information please visit gsma.com/identity or email us at mobileconnect@gsma.com.