mobile
connect

GSMA Platforms & Operations services
February 2019

Contents

Overview

The GSMA offers a series of technical platforms and services designed to help mobile network operators (MNO) and service providers (SP) deploy Mobile Connect successfully:

Interoperability Testsuite Portal: Check if your Mobile Connect product complies with the Mobile Connect specification.

API Exchange: Become part of a Mobile Connect ecosystem with other MNOs to be able to offer seamless cross-operator reach to Service Providers.

Developer Portal (with Sandbox and SDKs): Comprehensive documentation and tools to facilitate the integration of Mobile Connect into your applications.

Operator Management Console: Self-service portal to access reports and manage business processes between you and GSMA.

**Service Desk:** Single point of contact for all Mobile Connect enquiries.

Monitoring & Incident Management: Check the health of your Mobile Connect components and the status of any incident affecting these.

VALUE PROPOSITION

	Reduced complexity	Faster time-to-market	Lower cost	Seamless cross-operator reach
Interoperability Testsuite Portal	■	■		■
API Exchange	■	■	■	■
Developer Portal with Sandbox and SDKs		■	■	■
Operator Management Console	■			
Service Desk			■	■
Monitoring & Incident Management		■	■	■

Platforms overview
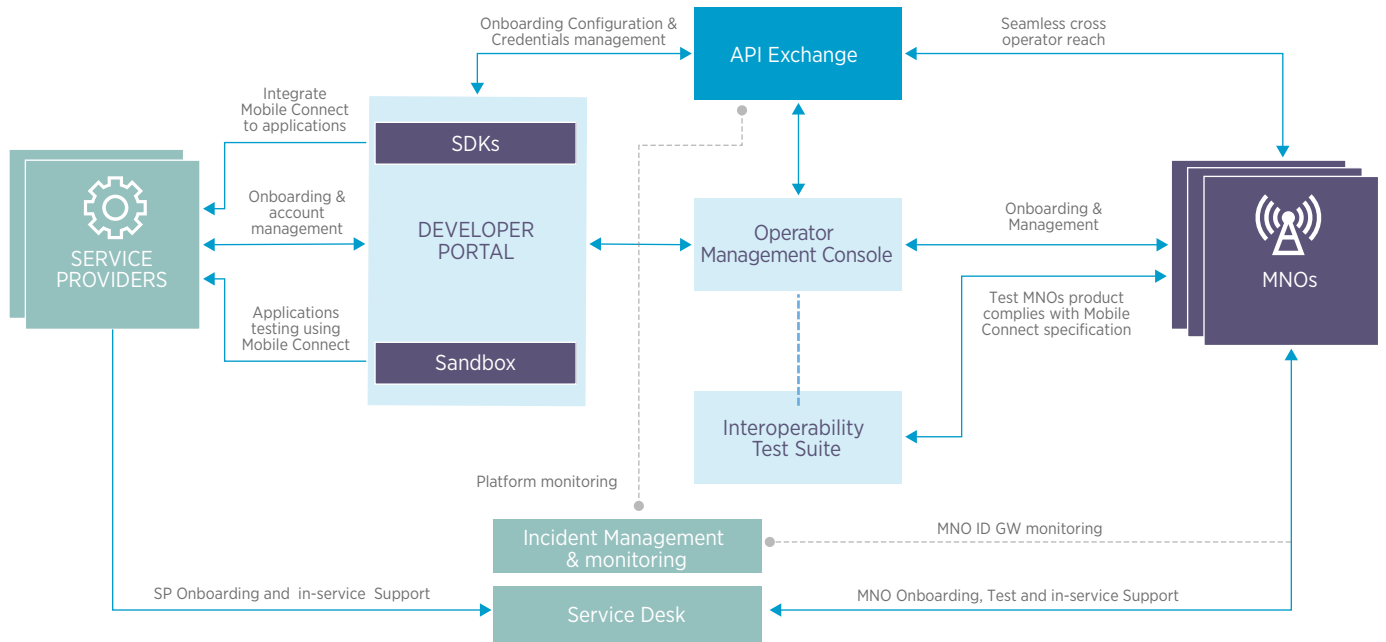
PRICING[1]

Unrestricted and free services[2]	Basic Developer Portal[1]	Interoperability Testsuite Portal	Operator Management Console[1]	
Baseline package	API Exchange (1 M TX p.a. included)	Support of Service Provider App provisioning process		
		Fixed annual fee		
Optional / usage-based elements	API Exchange Transaction Top-Up bucket (1 M bucket)	SLA for API Exchange	ID GW Monitoring and Incident Management	Service Desk Support
	Volume based pricing	Mark-up on top of API X cost	Fixed annual fee	Fixed annual fee

With the transition of Mobile Connect from a fully subsidized GSMA programme into business-as-usual, GSMA reduces its subsidies and has defined a pricing to recover part of its cost. Pricing is still low and MNOs benefit from the fact that all these service are shared between multiple parties. For details, please contact GSMA.

HAVE A QUESTION? CONTACT US AT **MNO-SUPPORT@MOBILECONNECT.IO**

1. Pricing might change over time. GSMA will review usage of the services, its contribution to the cost and the pricing on a regular basis.
2. ID GW Monitoring & Incident Management as well as Service Desk are part of the MC Link model. Hence they are provided without any charge to MNOs to Service Providers, served via MC Link.

Mobile Connect Interoperability Test Suite

The Mobile Connect Interoperability Test Suite portal (https://testsuite.mobileconnect.io) is a test environment for operators and technology partners offered on a self-serve basis to validate the Mobile Connect API compatibility and ensure a problem-free and seamless experience for end users and service providers.

Operators and technology partners can use it either in initial development stages or once their Mobile Connect service is fully in place to ensure ongoing compliance with future features.

WHY THE INTEROPERABILITY TEST SUITE?

For operators
- Simplifies acceptance testing to decrease time to market and provide clear indication of the level of Mobile Connect compliance.
- Ensure interoperability to attract service providers.
- Simple-to-use platform to track compliance with existing and new Mobile Connect products.

For technology partners
- Operators choose their partners only if they are technically compliant.
- Widen your operator reach. Being Mobile Connect compliant for one operator means being compliant for other operators.
- Only 100% compliant services can apply for Mobile Connect branding.[1]

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1.   Depends upon 100% compliance with Mobile Connect ITS tests

Detailed Feature List[2]

- Detailed test cases for the following Mobile Connect products:
  - Authenticate
  - Authenticate Plus
  - Authorize
  - Authorize Plus
  - Sign-Up
  - Phone Number
  - National ID
  - KYC Match
  - Account Takeover Protection (ATP)

- Support for current and legacy specifications of the Mobile Connect APIs, including:
  - v1.1
  - v2.0 – now deprecated
  - Device Initiated v2.3
  - Server Initiated v1.0

- Support maintained for older versions of Mobile Connect for Operators with legacy services deployed

- Regular updates against the latest features supported in the Mobile Connect technical specifications

- Two modes of testing supported:
  - "Automated": no user interaction required, but requires the ID Gateway to bypass the Authenticator step for the configured test MSISDN
  - "Manual": does not require any special ID Gateway configuration an attempt to intercept a 2FA solution to take-over a user's account with the SP

- Support for large, remotely-located test teams managed by specified account holder of each user company

- Downloadable ITS user guide

- Access to the Service Desk support Email for ITS configuration and ID Gateway related queries

- "Progress with test results is displayed as success percentage, with tests, separated into:
  - Must
  - Should
  - Could

- Configuration and credential sections to enable easy input and updating of settings, to support testing activities from the building phase to regular in-life testing (and any maintenance activities)

- Downloadable test results (most recent, as well as history) with detailed descriptions of expected results against actual test results

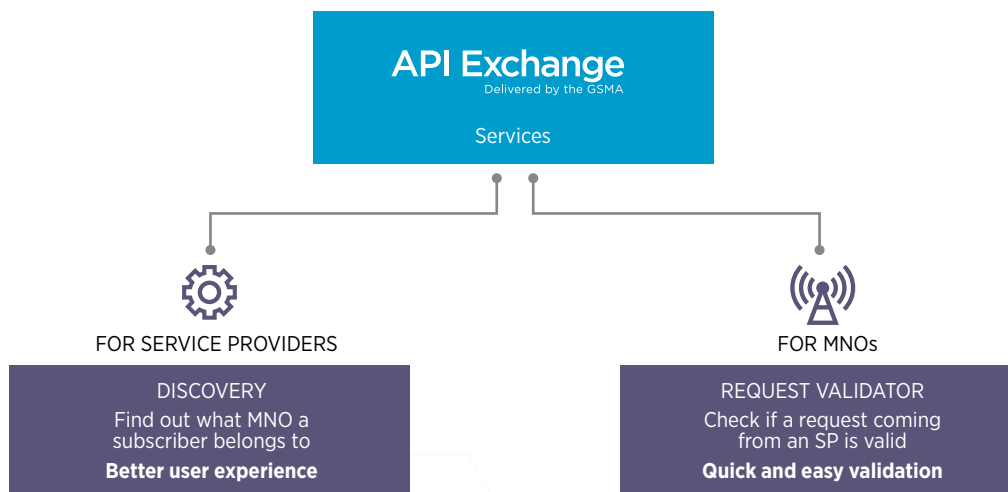- Test results integrated into the GSMA Operator Management Console (forthcoming feature)

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2. Please note: this feature list is subject to continuous change as the service is improved.

Mobile Connect API Exchange

The API Exchange is a platform offered by the GSMA that enables mobile network operators (MNOs) to federate between their individual Mobile Connect APIs in order to deliver seamless cross-operator reach. See below an overview of the services offered by the API Exchange.

MNOs are able to see their monthly transaction usage statistics of the API Exchange services in the Operator Management Console (OMC).

API Exchange
Delivered by the GSMA

Services

FOR SERVICE PROVIDERS

DISCOVERY
Find out what MNO a
subscriber belongs to
Better user experience

FOR MNOs

REQUEST VALIDATOR
Check if a request coming
from an SP is valid
Quick and easy validation

👍 BENEFITS OF THE API EXCHANGE

For Service Providers
- Use Mobile Connect seamlessly for end users from multiple operators
- Deal with multiple operators, in-country or globally.
- Single Discovery call to discover multiple operators

For MNOs
- Be part of a seamless local market and/or global federation proposition
- One single integration to check requests in real time
- Offer Mobile Connect to all Service Providers in a particular market

🔍 Detailed Feature List[1]

- Discovery Service
  - Federated Discovery Service – the Discovery service is set up to work across all the MNOs in a particular market and globally.
  - Local Discovery Service – a local instance of the API Exchange may be deployed for commercial or regulatory reasons (e.g. EU/EEA and India).
  - Discovery request types – there are 5 types of Discovery call:
    - o MSISDN
    - o MCC / MNC
    - o IP Address
    - o UI MSISDN
    - o UI MCC/MNC
  - Discovery UI – the Discovery UI is offered as a back stop if none of the other calls will work.
  - Discovery Request Redirect – in certain circumstances a Discovery call may be redirected to a specific API Exchange instance.
  - MSISDN Encryption – the API Exchange is able to use the MNO public key to encrypt the MSISDN from the user before returning it to the SP which then can use it for the Mobile Connect transaction, preventing the user to type-in its MSISDN twice.
  - Mobile Number Portability (MNP) – the API Exchange uses MNP services to map a MSISDN to an MCC / MNC pair.

- Data Management
  - Developer Registry – the Developer Registry stores all the data related to the SP / developer and their applications.

- Operator Registry – the Operator Registry stores all the data related to the MNOs.
- MNO Identity Gateway Credential Management
  - There are a number of steps in credential management; creation, storage, distribution and validation.
  - The possible MNO credential types are:
    - o Static
    - o Unique
    - o Dynamic
    - o Manual API Exchange
    - o Manual SP

- Request Validator Service
  - An MNO may send a request to the API Exchange to validate an access attempt by an SP. If valid the API Exchange returns a full set of SP and application data.

- API Exchange Analytics
  - Reports can be generated as required about the SP calls to the API Exchange.
  - As a default, usage reports are available on the Operator Management Console

- Standard Ts&Cs
  - Some MNOs have agreed to the Mobile Connect Standard Ts&Cs. These can be accepted by the SPs via the Developer Portal, reflected in "Request Validator".

- API Access Request (Provisioning)
  - SP can use the Developer Portal to request access for specific applications to particular MNO ID Gateways. These applications are then marked in the API Exchange database as "approved".

- SP Blocking
  - The API Exchange can block specific SP applications for specific MNOs as required.

💬 HAVE A QUESTION? CONTACT US AT **MNO-SUPPORT@MOBILECONNECT.IO**

1. Please note: this feature list is subject to continuous change as the service is improved.

Mobile Connect Developer Portal

The Mobile Connect Developer Portal (https://developer.mobileconnect.io) provides software developers who integrate a Mobile Connect product into their app/web-site/service all they need for technical integration and provisioning.

Top features:

- **API documentation** for all Mobile Connect products and profile releases as well as for operator discovery service. All based on Swagger (OpenAPI) specifications.

- **Sandbox environment** enabling development and testing of the Mobile Connect end-to-end full experience.

- **SDKs,** simplifying the integration and improving the user experience.

- **Provisioning** of developer applications or service for Discovery of operators and for the Identity Gateways of operators.[1]

- **Real-time visibility** of the health status of any operator component related to the developer Mobile Connect app or service (e.g. Discovery API, Mobile Connect API.[1]

- **Service Desk** for a single point of contact for any Mobile Connect query.[1]

BENEFITS OF THE DEVELOPER PORTAL

For service provider developers
- **Efficient integration** of Mobile Connect services.
- **Time and cost saving.** Reducing the complexity of the multi-operator ecosystem

For operators and technology partners
- **Time and cost saving** as removes the need to set up and maintain Mobile Connect developer information.
- Given the interoperable nature of Mobile Connect, there is no need for operators within a market or region to agree and align to offer service provider developers these tools.

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1.   Limited to operators who support this or have subscribed to the respective GSMA service.

Detailed Feature List[2]

- Documentation for the following Mobile Connect products:
    - Authenticate / Authenticate Plus
    - Authorize / Authorize Plus
    - Sign-Up
    - Phone Number
    - National ID
    - KYC Match,
    - Account Takeover Protection (ATP)

- Documentation for general Mobile Connect topics, e.g.:
    - Authenticators
    - Level of Assurance
    - PCR
    - Provider Metadata
    - Scope Values
    - AMR Values
    - Tokens

- Mobile Connect API documentation for:
  Device initiated Profile:
    - V1.1 – applicable for Authentication only
    - V2.0 – applicable to Authentication, Authorization, Sign-Up and Phone Number
    - V2.3 (Device Initiated) – applicable for all Products with exception of ATP
  Server initiated Profile:
    - V1.0 (Server Initiated) – applicable for all Products

- Documentation of the Discovery capability
    - API documentation for the various options (MCC/MNC, IP address, MSISDN, UI)

- Access to the Service Desk support via Web-Form, Email, Chat and Phone (limited to SPs which are engaged with Operators who have subscribed to the Service Desk service)

- FAQ section

- Best practice section

- Software Developer Kits (SDKs):
    - Documentation about architecture and benefits
    - Documentation for each of the server-side SDKs: Java, .NET, PHP
    - Documentation for each of the complementary client-side libraries: iOS, Android
- Developer Registration, enabling:
    - Access to Sandbox
    - Triggering provisioning requests for the API Exchange and MNO Identity Gateways
    - Ability to customize the Discovery end user interface (pop-up web page) regarding Service Provider specific colour, logo,text
    - Access to real-time health/availability status information of critical components: Discovery service and Operator ID GWs (limited to specific Operators and Developers)
    - Log-in for registered developers is provided by Mobile Connect, allowing to experience the product
- Sandbox
    - Emulation of all Mobile Connect Products and API profiles (Device Initiated 1.1 / 2.0 / 2.3 and Server Initiated 1.0)
    - Emulation of the Discovery service
    - Providing the full user-interaction flow based on a SMS Authenticator
    - Support to configure different end user attributes for attribute-related products
- Section describing specific Operator / local market variations of products / API specifications (depending on availability of information from MNOs)

- Section, listing all Operators which support Mobile Connect, the available products and operator information (e.g. contacts, link to own web portal)

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2. Please note: this feature list is subject to continuous change as the service is improved.

Mobile Connect Sandbox

The Mobile Connect Sandbox (**https://developer.mobileconnect.io/the-sandbox**) is a feature within the Developer Portal which provides an easy-to-use test environment of both the API Exchange and an operator Identity Gateway in order to support developers who want to integrate Mobile Connect into their service.

👍 MAKE THE MOST OF THE MOBILE CONNECT SANDBOX

- Full user experience, API functionality and support for error handling.
- Support for all Mobile Connect products and API profiles.
- Tested against the Mobile Connect Interoperability Testsuite for full compliance.

- Four different test Operators for a variety of Mobile Connect scenarios.
- Two different options for simulating operator authenticator: SMS or seamless (header enrichment).
- Pre-set test user attributes for testing Mobile Connect Identity and Attribute products.

Detailed Feature List[1]

- Full emulation of Mobile Connect Discovery APIs and service:
  - Discovery UI implementation with full user experience: MSISDN entry and test operator selection
  - Invocation with MSISDN
  - Invocation with Client IP API
  - Invocation with MNC/MMC API

- Mobile Connect Profile v1.1 emulation:
  - Authentication
  - Persistent PCRs
  - Error responses
  - ID Gateway interface including MSISDN entry
  - Specific v1.1 test operator
  - LoA 2 & 3

- Mobile Connect Profile DI v2.3 emulation:
  - Authentication
  - Authorisation
  - Identity (Sign-up, Phone Number, National ID, KYC Match)
  - Specific DI v2.3 test operator
  - Error responses for all scenarios

- Mobile Connect Profile SI v1.0 emulation:
  - Authentication
  - Authorisation
  - Identity (Sign-up, Phone Number, National ID, KYC Match)
  - Network Attributes (ATP)
  - Specific SI v1.0 test operator
  - Error responses for all scenarios
  - Support for developer signed request objects
  - Supports SP Notification API

- Sandbox configuration via the GSMA Mobile Connect Developer Portal
  - Link developer's MSISDN to test operator
  - Define operating mode (DI, SI or Dual)
  - Link developer MSISDN to test users for testing Identity and Attributes
- Developer Sandbox documentation provided on the GSMA Mobile Connect Developer Portal
  - Overview of sandbox functionality.
  - Information about sandbox settings
  - Detailed breakdown of test users and their attributes
- Multiple test operators
  - Each test operator has it's own MCC/MC, source IP address and passthrough MSISDN
  - Operator A (v1.1)
  - Operator B (DI v2.3 & SI v1.0)
  - Operator C (DI v2.3)
  - Operator D (SI v1.0)

- Two Authenticators supported
  - "SMS with link" with multiple SMS aggregators for wider coverage
  - "Passthrough", automatically authenticates a request when a specific MSISDN is used. Allows deviceless and automated testing

- Two 'Levels of Assurance' supported
  - LoA2 (no PIN)
  - LoA 3(PIN)

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1. Please note: this feature list is subject to continuous change as the service is improved.

Mobile Connect SDKs

The Mobile Connect Software Development Kits (SDKs) provide an efficient way to quickly implement Mobile Connect.

These SDKs are offered to Service Providers (SP) and developers via the Developer Portal and GitHub software repository and include the required frameworks and an example application, along with full documentation. They are available for the most popular software development environments and help developers understand and implement access to the API Exchange and the ID Gateway APIs. Server side SDKs are provided for Java, PHP and .NET. Client libraries are also provided for Android and iOS.

The SDKs are designed to implement the interaction between the Service Provider's application and Mobile Connect, simplifying the implementation by handling the details and complexities of the technology in the SDK.

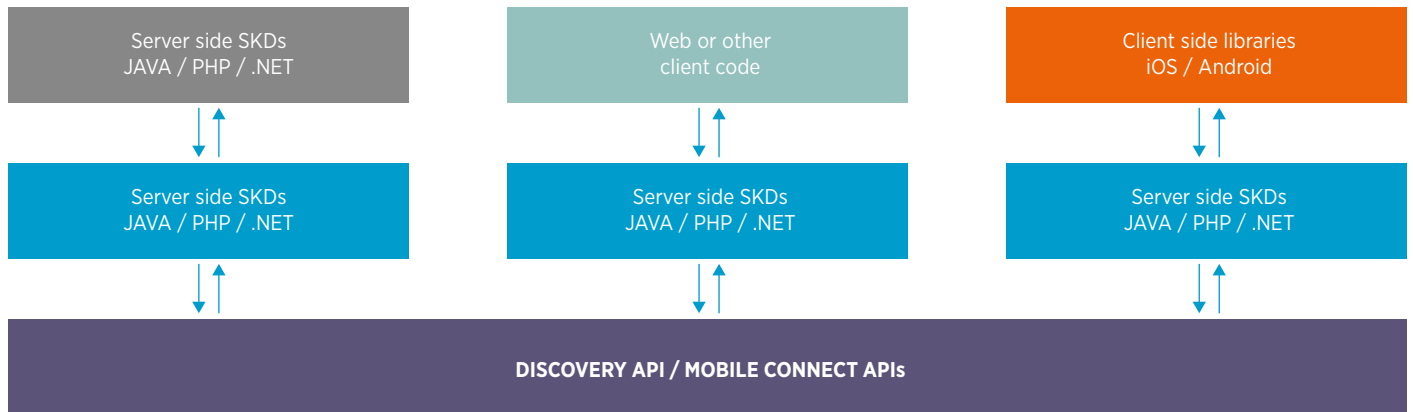## WHY USE THE MOBILE CONNECT SDKS?

For service providers and developers
- Quick implementation without having to be an expert in the details of these technologies.
- Handle the Mobile Connect edge cases correctly.
- Improved user experience.
- Test Mobile Connect API calls via the SDK demo apps.

For MNOs
- In-house integration of Mobile Connect via the Developer Portal.
- Reduced complexity and greater speed when enabling your Mobile Connect services with Service Providers.
- Less Discovery calls means reduced API Exchange costs thanks the SDK caching mechanisms.

The diagram below shows the different ways in which a Service Provider's application can use the SDKs and libraries provided to access the Mobile Connect service.

Server side SKDs JAVA / PHP / .NET	Web or other client code	Client side libraries iOS / Android
Server side SKDs JAVA / PHP / .NET	Server side SKDs JAVA / PHP / .NET	Server side SKDs JAVA / PHP / .NET

DISCOVERY API / MOBILE CONNECT APIs

Detailed Feature List[1]

- Client Libraries support:
  - Mobile Connect button – placed on the Service Providers (SPs) website or application, allows Mobile Connect to be invoked by the end user.
  - Facilitation of Discovery and Mobile Connect calls from the server side SDKs by providing data to the server side SDK which is only available on the client.
  - Re-directs from the server side SDKs – the server side SDKs may redirect to the Discovery UI or for the authorize call
  - MC integration without Discovery mode – some applications do not need to discover the MNO, e.g. MNO self-serve apps.

- Server side SDKs support:
  - Discovery call – build the Discovery call dependent on what data is available, e.g.
    o MSISDN
    o MCC / MNC
    o IP Address
    o UI-MSISDN
    o UI-MCCMNC

- Provider metadata / Issuer call – build the call to get additional MNO data for Mobile Connect.

- Authorize call – build the authorize call and send back to the client to execute.

- Token call – build and call the token endpoint with the Authorisation Code from the client.

- JWKS call – used to get the Identity providers JSON Web Key Set to decrypt the ID Token.

- User Info / Identity call – called to get the protected resource, the user info.

- Cache – a cache is used on the SDK to improve efficiency. Call responses are stored for a pre-define TTL.

- Error handling – certain error conditions require the SDK cache to be cleared. SDK handles this automatically.

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1.   Please note: this feature list is subject to continuous change as the service is improved.

Mobile Connect Monitoring and Incident Management

The **Mobile Connect Monitoring and Incident Management service** is an automated monitoring system and a manned 24/7 alerting service offered by the GSMA. This service detects incidents in any Mobile Connect component (e.g. the API Exchange) and passes them on to the appropriate support team. The GSMA can also offer the ability to monitor the Mobile Network Operators' ID Gateway and integrate into their own incident management processes.

When using this service, the "Status Page" module in the Operator Management Console (OMC) and the Developer Portal will be available to Operators / Service Providers with information on the status of the Mobile Connect components.

👍 WHY USE THIS SERVICE?

Save thousands of pounds. Any system needs to be monitored and costly procedures put in place to deal with alert notification generated in the event of an incident. Let the GMSA take care of this.

Reduce complexity. Due to its nature, Mobile Connect relies on several components. Therefore, providing an end-to-end Monitoring and Incident Management of these components requires a complex infrastructure. The GSMA have already this infrastructure in place.

Value-added service. You can offer this to your Service Providers as a Mobile Connect product feature allowing them to report any incident easily and checking the status of the Mobile Connect components through the Developer Portal.

Central full-market scope service. In case all Operators which deliver Mobile Connect in a single market make use of this GSMA offering, Service Providers will be served with a single Incident Management service, preventing from the need to deal with each Operator individually.

Detailed Feature List[1]

- Automated monitoring of the critical components that enable Mobile Connect Services
    - API Exchange – instances in India, Singapore and Dublin
    - Operator ID Gateways (optional)
    - Mobile Number Portability Services used by the API Exchange (for India and globally).

- A manned 24x7 notification service that will receive alerts from the automated tool and send notification of an error to the appropriate resolver team(s), thus minimising down time.

- On-call availability of the resolver teams responsible for the API Exchange.

- The ability to add a Mobile Network Operator's ID Gateway to our automated monitoring tool and to send alerts, to a nominated technical contact, if an issue is detected.

- The ability to publish the status of an Mobile Network Operator's ID Gateway, on our web-based Status Page, which is available to Mobile Network Operators and their Service Providers.

- Channel for Mobile Network Operators, to report actual incidents with their own ID Gateways, or suspected incidents with other Mobile Connect components.

- Channel for Service Providers to report a suspected issue with any of the Mobile Connect components, including the Mobile Network Operators' ID Gateways.

- The ability for Mobile Network Operators to see the KPI statistics for their ID Gateway (via the Operator Management Console).

- Web-based status page to display the status of these critical components, to all Mobile Connect stakeholders.

- In the future, the Status Page will automatically e-mail stakeholders, if the status of a Mobile Connect component changes.

- Ability to offer ID Gateway monitoring services to Mobile Network Operators.

- Notification of incidents detected on the Mobile Network Operator's own ID Gateway and integration into the Operator's incident management process.

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1.   Please note: this feature list is subject to continuous change as the service is improved.

Mobile Connect Service Desk

The Mobile Connect Service Desk is the communication centre providing a single point of contact between the GSMA and the Mobile Connect ecosystem, i.e. mobile network operators, service providers and developers.

A ticketing system where a qualified team of experts will answer any query (generic, commercial, technical) providing a first class service for dealing with all aspects of the Mobile Connect integration.

WHY THE MOBILE CONNECT SERVICE DESK?

Where can I find the latest Mobile Connect technical specifications?

Can I test my Mobile Connect product in a test environment prior to connecting to your infrastructure?

When enabling Mobile Connect, operators will need to consider supporting those service providers who might have issues to integrate Mobile Connect and use the mobile operator infrastructure.

Hiring an analyst with the expertise and knowledge required to answer any product related query, generic or technical, can be costly.

What's the pricing options for Mobile Connect Link?

I have an issue with the integration of the Mobile Connect APIs. Could you help me?

The GSMA provides a fully functional, in-house, dedicated Service Desk team with the required generic knowledge and technical expertise to implement Mobile Connect.

🔍 Detailed Feature List[1]

- A 16 * 5 manned Service Desk, which is the single point of contact for all Mobile Connect issues. The Service Desk is tasked with resolving Service Requests from Service Providers and Mobile Network Operators. It is possible to log incidents on the Service Desk as well.

- Service Desk available to Service Providers, via web-chat, e-mail, phone and web form.

- Service Desk available to Mobile Network Operators via email and phone.

- Experienced Service Desk staff who have an in-depth knowledge of the Mobile Connect API's.

- Diagnosis and resolution of issues concerning the integration of Mobile connect into applications, within specified Service Level agreements.

- Escalation of issues to expert L3 and supporting Vendors who will provide more in-depth support, if required.

- Technical liaison between Service Providers and Vendors / Operators as necessary.

- Access Management to all Mobile Connect platforms.

- Liaison between Service Providers and Mobile Network Operators, if required, to get issues resolved.

- Help through the on-boarding process for Operators.

- Help on-boarding to the Test Suite Portal and the Operator Management Console platforms.

- Help diagnosing issues arising from testing on the Sandbox.

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1. Please note: this feature list is subject to continuous change as the service is improved.

Mobile Connect Operator Management Console

The Mobile Connect Operator Management Console (OMC) is a portal that enables mobile network operators to manage their Mobile Connect business processes with the GSMA.

The OMC supports Mobile Connect administration via a modular design, incorporating:

- Monthly **API Exchange transaction reports,** including an itemised breakdown;

- An **app dashboard** providing easy management of all app provisioning requests;

- **Global Mobile Connect activity** dashboard & **MC Link KPI tracking** – including monitoring and reporting of Mobile Connect service latency;[1]

- **Status page** reporting Mobile Connect component health, including API Exchange and operator **ID Gateway availability;**

- **Overview of all information provided to the GSMA,** e.g. provisioning details for the API Exchange service and the Developer portal, all contact information, all information about supported products – plus ability to update this information easily.

WHY THE OPERATOR MANAGEMENT CONSOLE

- The OMC delivers a **single portal** for effective and efficient monitoring of **Mobile Connect operational activities,** facilitating operational and commercial decision taking.
- **Operational processes** are delivered in a single location to aid clear and interaction **between operators and GSMA,** ensuring efficiency and reliability.

- Enables operators to involve **multiple staff** members for different operational activities, such as app promotion, Mobile Connect status management and API Exchange transaction reporting.

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1. Limited to operators who support this or have subscribed to the respective GSMA
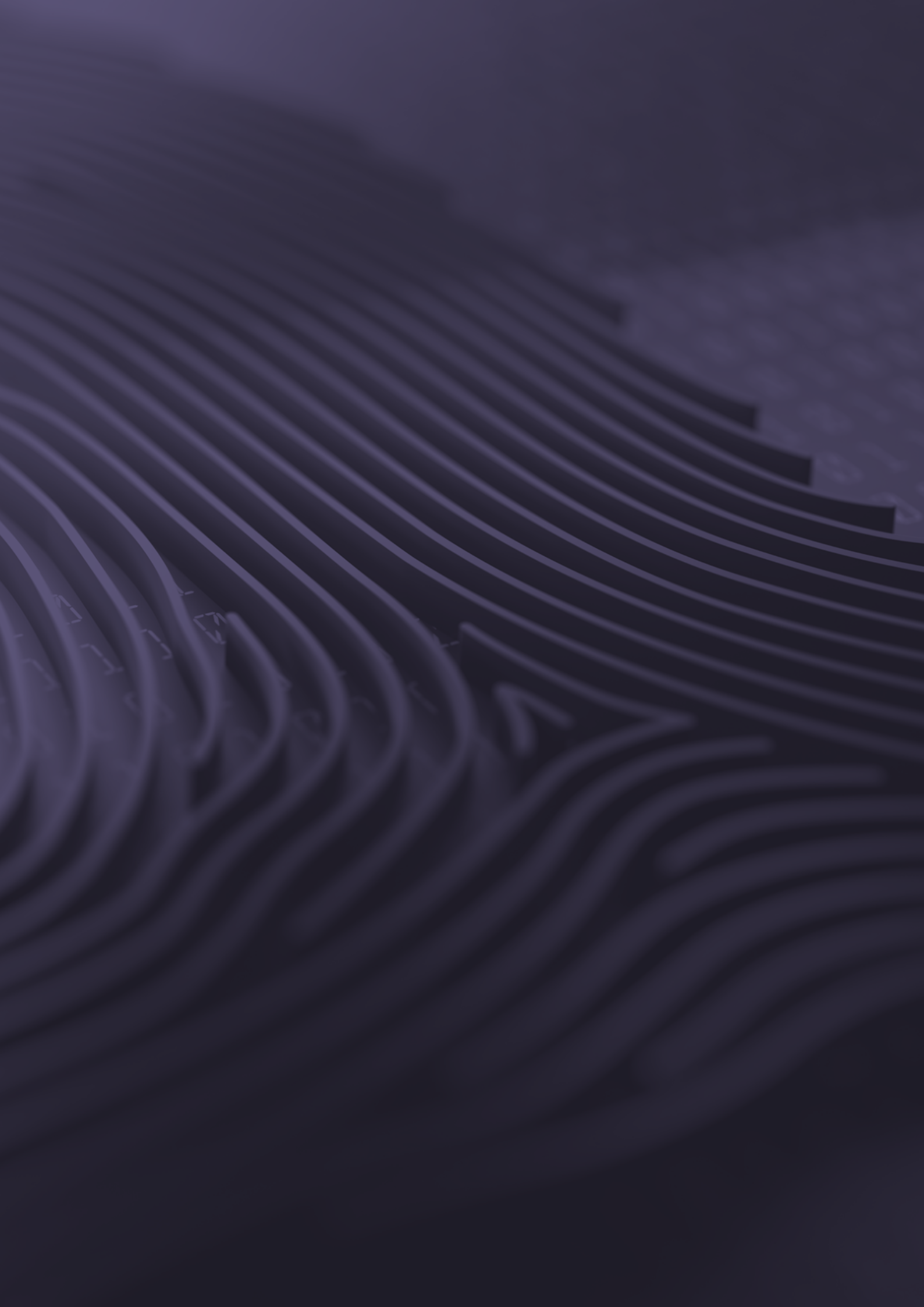
Detailed Feature List[2]

- API Exchange Usage Reports[3] – automatically updated monthly, to provide:
  - Monthly API Exchange transaction totals
  - Threshold usage allowance
  - Individual app transactions
  - Transaction types
  - Downloadable data report

- Data Management – a hub to manage:
  - Contact information
  - API Exchange settings
  - Mobile Connect supported products
  - GSMA Developer Portal settings
  - Operational interactions between GSMA and Operators

- App Dashboard – provides a central location from which to manage applications. The App Dashboard also provides the credentials and Service Provider information required in order to provision the application. Capabilities include:
  - Acknowledge receipt of provisioning request
  - Provision app onto live or production environment
  - Rejection of provisioning request
  - Automatic status notifications to Service Providers

- KPI Dashboard – provides a visual representation of data collected by GSMA.
  - MNO Global Report, is a visual representation of global Mobile Connect activity, showing:
  - Monthly transactions, global activity evolution, monthly active connections, etc.
  - MC Link KPIs, visually displays the availability of an Operators ID Gateway over time, and also last 24 hours[3]

- Status Page – displays the status of various global components of the Mobile Connect service. These components are monitored 24/7 to ensure an up to date reflection of the availability of Mobile Connect. Components include:
  - API Exchange (EU, India, Singapore)
  - MNP Service (India, Rest of the world)
  - Operator ID Gateway[3]

- Documentation – provides access to the most important, up-to-date documents, including:
  - product definitions
  - API specifications

(Capability to be provided in a future release)

2. Please note: this feature list is subject to continuous change as the service is improved.
3. Limited to operators who support this or have subscribed to the respective GSMA service.

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