Security Partner

Preferred

Infineon

TATA COMMUNICATIONS

Partner Use Case

A single pane of glass for global cellular IoT connectivity

Helping companies to unlock the full potential of eSIM and relieve them from the complexity of managing multiple networks for services across borders

Products

OPTIGA™ Connect OC2321

Use case

Application context and security requirement

Embedded SIM (eSIM) offers significant benefits, among which the ability to easily swap connectivity providers. Networks can be selected after the production, shipment, and deployment of connected devices, bringing flexibility in choosing the best option for a destination country. But eSIM also comes with challenges, especially around interoperability and connectivity management.

Challenge

For companies offering services that cross borders, an eSIM is required to switch seamlessly between Mobile Network Operators (MNOs) to provide a consistent user experience. Consequently, agreements with multiple MNOs are required to ensure cost competitiveness, coverage, localised experience and to comply with regulations such as permanent roaming. Having multiple MNO partners introduces complexity such as multiple integrations, on-going administration, different portals, and APIs. Reporting across different MNO platforms, interfaces, and multiple data feeds also becomes increasingly difficult. Additionally, companies are usually only connected to the home MNO per territory, which is not efficient for mission-critical use cases due to the lack of back-up options.

For companies to unlock the full potential of eSIM, they need their device, once deployed, connect securely and reliably, wherever it is in the world while maintaining regulatory and cost objectives. At the same time, companies need to be relieved of the complexity of managing multiple networks.

Implementation

Infineon's OPTIGA™ Connect eSIM is pre-integrated with a bootstrap Tata Communications MOVE™ eSIM profile for initial network connectivity. Additionally, companies are provided with the control and monitoring of multiple providers and managing them via a single interface, delivering a 'single pane of glass' across existing MNO partners, as well as having access to Tata Communications' network of 640+ MNO partners across 200 countries. The platform also aggregates data from a rich variety of sources to be used for applying intelligence on delivering the highest quality of service in any given country, while maintaining regulatory or cost objectives, by switching traffic between networks.

User benefits

› Turnkey, 'ready-to-connect' eSIM solution
› Easy deployment and management of cellular IoT at scale
› Single overview across all connected services globally, regardless of MNO
› Cost-efficient connectivity approach
› Delivering the best quality of service
› Adhering to regulatory requirements
› Always on-connectivity, via back-up and network redundancy
› Reduced complexity through interoperability and connectivity management
› A simplified and faster path to market

Solution

TATA COMMUNICATIONS

Tata Communications MOVE™ provides a single interface for monitoring, control, and insight for connectivity management across multiple MNO interfaces. Regardless of whether companies are using Tata Communications' global cellular coverage (2G, 3G, 4G, LTE) network across 640+ MNOs in 200 countries and territories or their own MNO partners, all connected services worldwide can be managed during the various stages of the product lifecycle with Tata Communications' unified, vendor-agnostic platform and portal, delivering a 'single pane of glass'.

And the platform goes much further, by collecting performance and quality data from multiple sources across the device and the network, intelligence can be used to select the most appropriate network for delivering the highest quality of service in any given country, for a specific use case, while maintaining regulatory or cost objectives, using multiple MNOs.

Main benefits of the Infineon product
OPTIGA™ Connect is a ready-to-connect eSIM solution for cellular IoT devices. This turnkey solution allows easy, secured, and cost-optimized deployment and management of cellular-enabled IoT devices at scale. It comes with a pre-installed GSMA-compliant operating system and pre-integrated global cellular connectivity capabilities supported by Tata Communications.
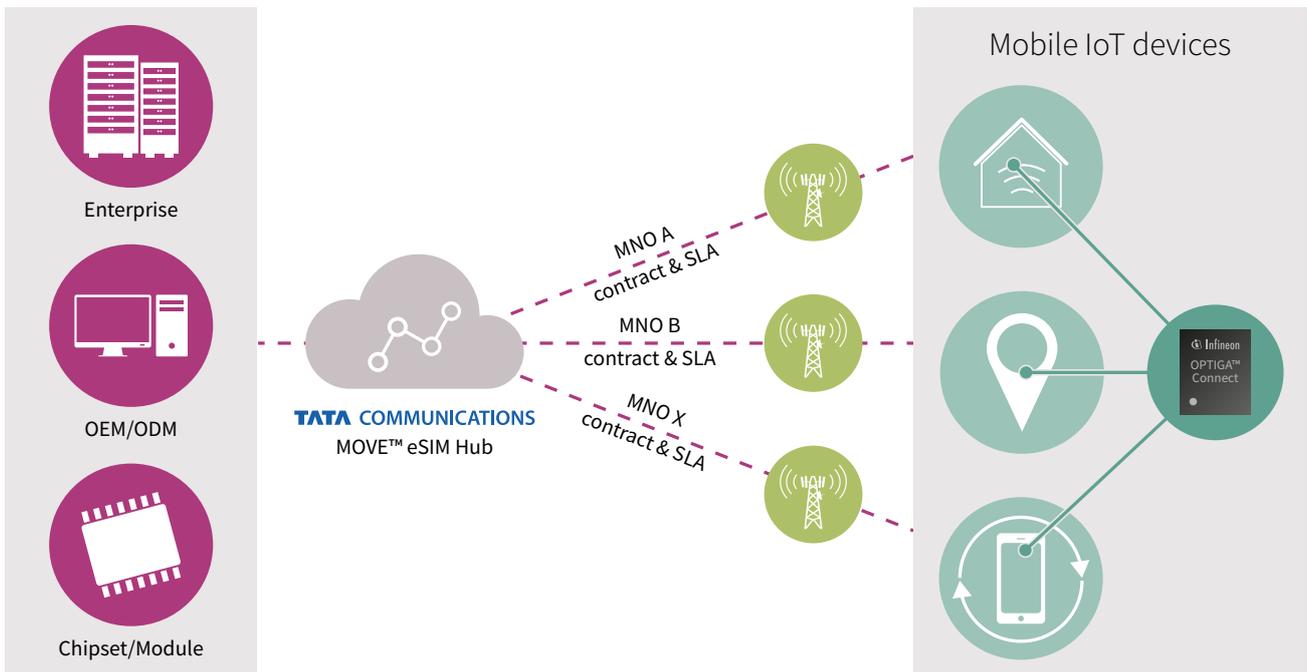
Partner

Partners from the Infineon Security Partner Network help you secure your devices and applications: understand which threats can undermine your business, propose solutions that will protect your business, build and implement such security solutions and, when relevant manage their operation. They have been selected by Infineon on the basis of their system security competence and ability to design and deliver strong and trustworthy security solutions. Their activities are diverse and include security consulting, security solution provision, electronic design, systems integration and trust services management. For some, offers are off-the-shelf; while for others, offers are custom-built.

Tata Communications
Tata Communications is a leading global digital infrastructure provider that powers today's fast- growing digital economy. The company's customers represent 300 of the Fortune 500 whose digital transformation journeys are enabled by its portfolio of integrated, globally managed services that deliver local customer experiences. Through its network, cloud, mobility, Internet of Things (IoT), collaboration and security services, Tata Communications carries around 30% of the world's internet routes and connects businesses to 60% of the world's cloud giants and 4 out of 5 mobile subscribers. The company's capabilities are underpinned by its global network, which is the world's largest wholly owned subsea fibre backbone and a Tier-1 IP network. Tata Communications Limited is listed on the Bombay Stock Exchange and the National Stock Exchange of India, and it serves customers in more than 200 countries and territories worldwide through its technology capabilities and partnerships.

Tata Communications contribution to the Infineon Security Partner Network
Tata Communications MOVE™ provides a (bootstrap) profile for (e)SIM, offering global cellular coverage (2G, 3G, 4G, LTE) across 640+ networks in 200 countries and territories. Tata Communications also supports the integration of existing Mobile Network Operators (MNO) agreements concluded by companies. Regardless of whether companies are using Tata Communications' connectivity or their own MNO partners, all connected services worldwide can be managed during the various stages of the product lifecycle with Tata Communications' unified, vendor-agnostic platform and portal, delivering a 'single pane of glass'. From there, intelligence can be used to select the most appropriate access network in any country depending on the requirements. This could be based on the best coverage or the best price achievable by switching traffic between networks. Infineon's OPTIGA™ Connect is pre-integrated with a bootstrap Tata Communications MOVE™ eSIM profile, allowing manufacturers to capture, move and manage IoT data seamlessly, reliably and securely across the globe.