



## Mobile Connectivity Services (Private 3G Networks)

### Business Benefits

- **Mobile Authentication and In-roaming as a Service (MAaaS)**
- **Bring Your Own Device to your Private Network while also supporting private SIM devices**
- **Securely attach public MNO devices to your network when public operator coverage is not available**
- **Reduce time to deployment**
- **Highly secure with self-administered network access-lists**

### BYOD for Private Networks

Titanium Platform's Mobile Connectivity Services (MCS) simplifies the onboarding of mobile devices into a Private Network (PN) by allowing users to roam-in using a personal public SIM enabled device.

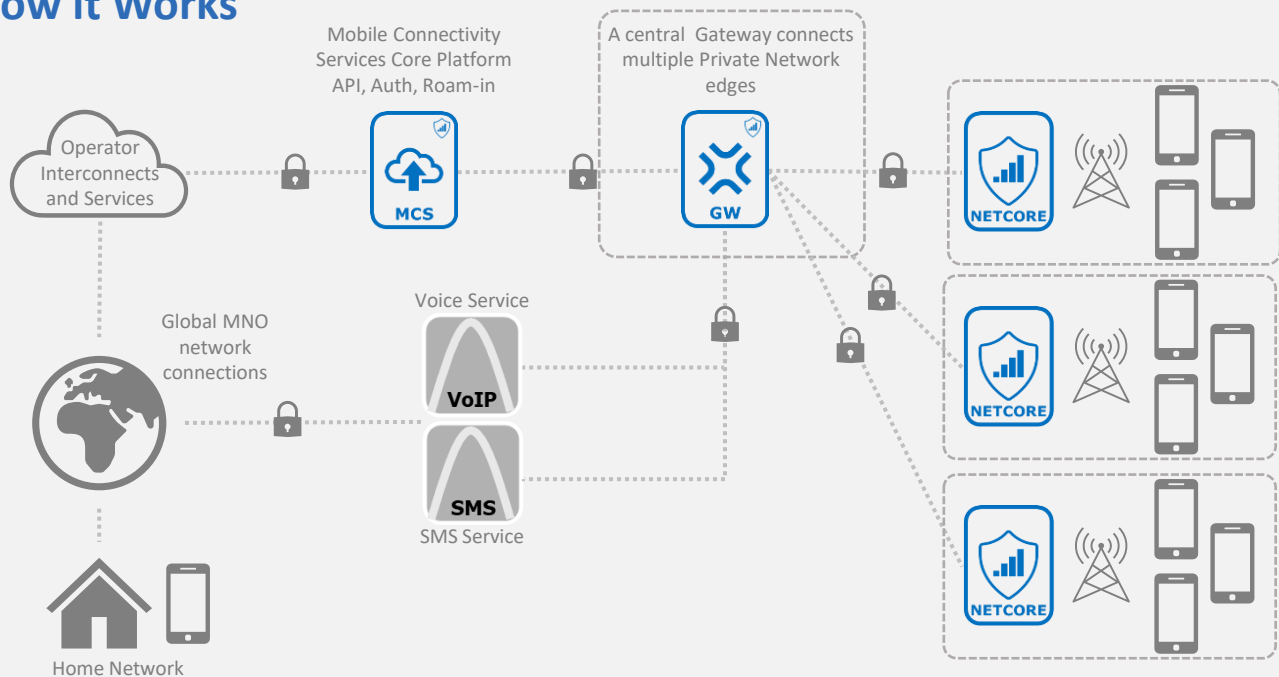
MCS in-roaming capability further extends PN connectivity to enable mobile devices to receive incoming SMS and native voice calls while attached to the PN.

MCS interconnects with multiple MNOs across the globe thus it can deliver a flexible and more seamless PN connectivity experience for public SIM devices.

### Challenges of Private Networks

Private Networks are by nature closed, secure environments that can either operate as a fully self-contained, stand-alone network or interconnect back to the outside world via satellite or other IP means. One of the inherent challenges with PNs is authenticating and onboarding of devices. Traditionally, private networks require a separate SIM and a lengthy process to onboard a new device onto the PN. This adds overhead and cost to the private network deployment and a sub-optimal user experience.

## How it Works



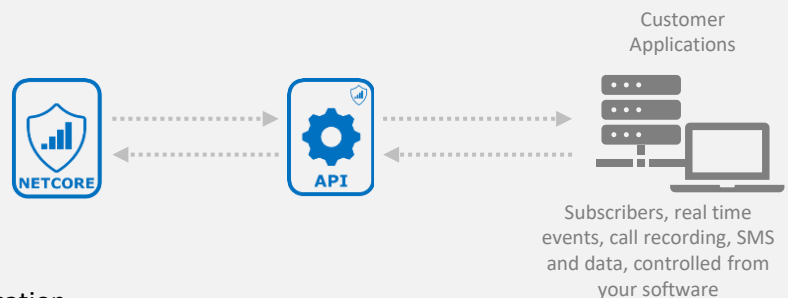
The NetCore Gateway supports connection of multiple NetCore 3G edge systems providing centralized access to the authentication and roaming services provided by the Mobile Connectivity Services platform. Secure VPN tunnels interconnect edge NetCore 3G nodes to the NetCore Gateway and the MCS cloud service. UE devices that are not provisioned locally are check against a whitelist before authentication with the MCS service and attaching.

## NetCore API

Add the capabilities of NetCore and Mobile Connectivity Services to your existing solution or leverage our API to build your own custom network application that meets your needs.

The API provides functions to control:

- Roaming Whitelist
- Subscriber Events
- Voice, SMS and Data capture
- System Configuration
- System Status



The NetCore API is built to the JSON API specification.

## Contact Titan.ium Platform Today

Please visit [www.titaniumplatform.com](http://www.titaniumplatform.com) for product or solution information. For configuration and pricing details, please contact your local account representative via [info@titaniumplatform.com](mailto:info@titaniumplatform.com).

*Titan.ium Platform, LLC (formerly NetNumber, Inc.) brings more than two decades of experience delivering core network signaling control platforms that power global telecom and enterprise networks. TITAN.IUM, the latest evolution of our platform, is an innovative, InterGENeration ecosystem for 5G that bridges legacy 2G, 3G and 4G technology into the new cloud-native era.*





## Mobile Connectivity Services (Private LTE Networks)

### Business Benefits

- **Mobile Authentication as a Service (MAaaS)**
- **Bring Your Own Device to your private LTE network**
- **Securely attach public MNO devices to your private LTE network when public operator coverage is not available**
- **No need for separate SIMs or eSIM management systems**
- **Reduce time to deployment**
- **Highly secure with self-administered network access-lists**

### BYOD for Private Networks

Titanium Platform's Mobile Connectivity Services (MCS) simplifies the authentication of mobile devices into a Private Network (PN) and allows users to roam in from commercial networks for secure, private IT services and access to local data.

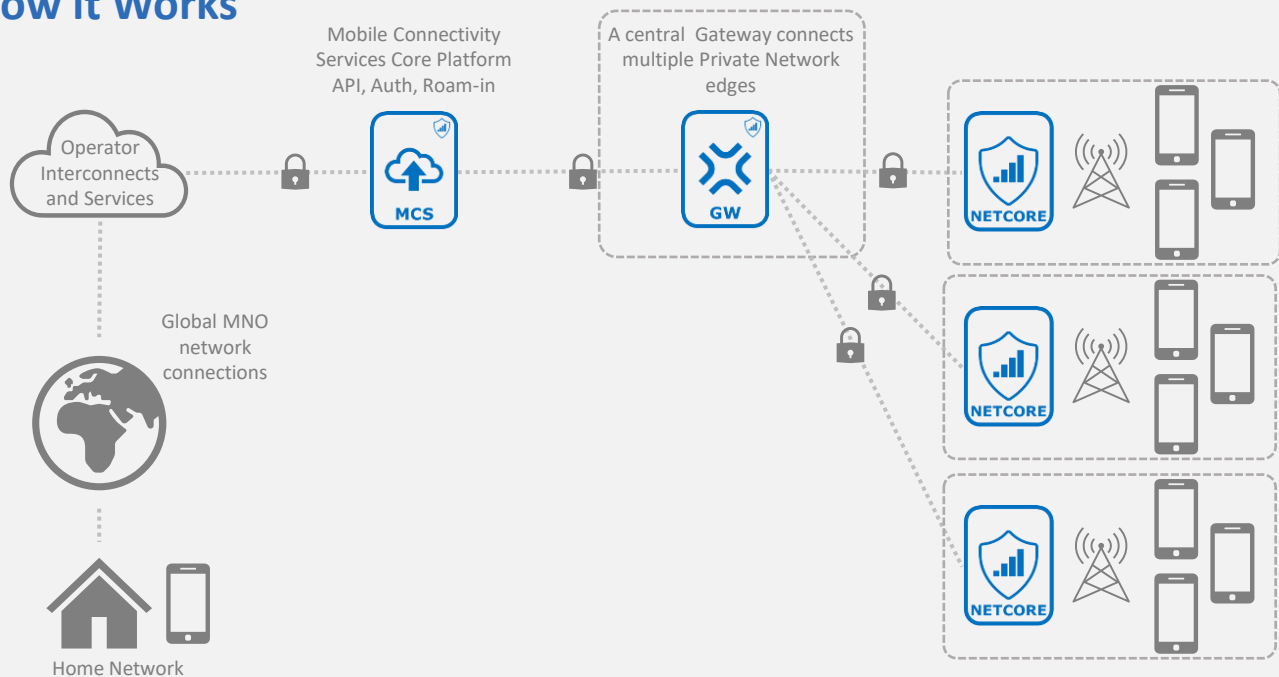
With the Mobile Authentication as a Service (MAaaS), whitelisted mobile LTE devices can join a private LTE network and communicate with other devices in the network using over-the-top apps.

MCS interconnects with multiple MNOs across the globe thus it can deliver a flexible and more seamless private LTE network connectivity experience for end users with public SIM devices.

### Challenges of Private Networks

Private Networks (PN) are by nature closed, secure environments that can either operate as a fully self-contained network or interconnect back to the outside world via satellite or other IP means. One of the challenges with PNs is authenticating and onboarding of devices. PNs usually require a separate SIM and a lengthy process to onboard a new device. This adds overhead and cost to the private network deployment and a sub-optimal user experience.

## How it Works



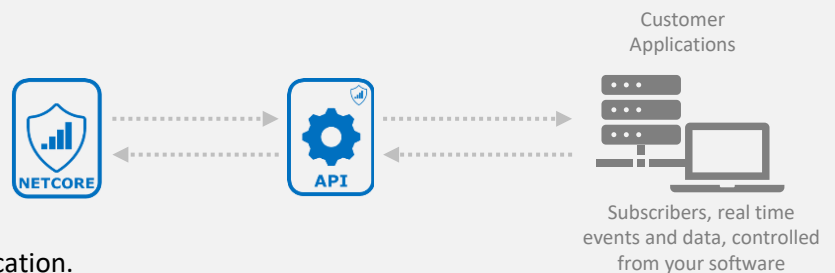
The NetCore Gateway supports connection of multiple NetCore LTE edge systems providing centralized access to the authentication services provided by the Mobile Connectivity Services platform. Secure VPN tunnels interconnect edge NetCore LTE nodes to the NetCore Gateway and the MCS cloud service. UE devices that are not provisioned locally are check against a whitelist before authentication with the MCS service and attaching.

## NetCore API

Add the capabilities of NetCore and Mobile Connectivity Services to your existing solution or leverage our API to build your own custom network application that meets your needs.

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