# Secure Managed IIoT Services – OTNet & OTEdge

IoTium's Secure IIoT services enable customers to deploy IIoT networks and Edge Applications at scale and connect IoT sensor networks to IoT applications hosted in either private or public cloud. The solution consists of two key components. An iNode, which resides both at the source and the sink, it is available in various hardware form factors and as a virtual appliance. Second, IoTium Orchestrator, is a cloud hosted managed service which enables customers to securely deploy and manage these networks remotely.
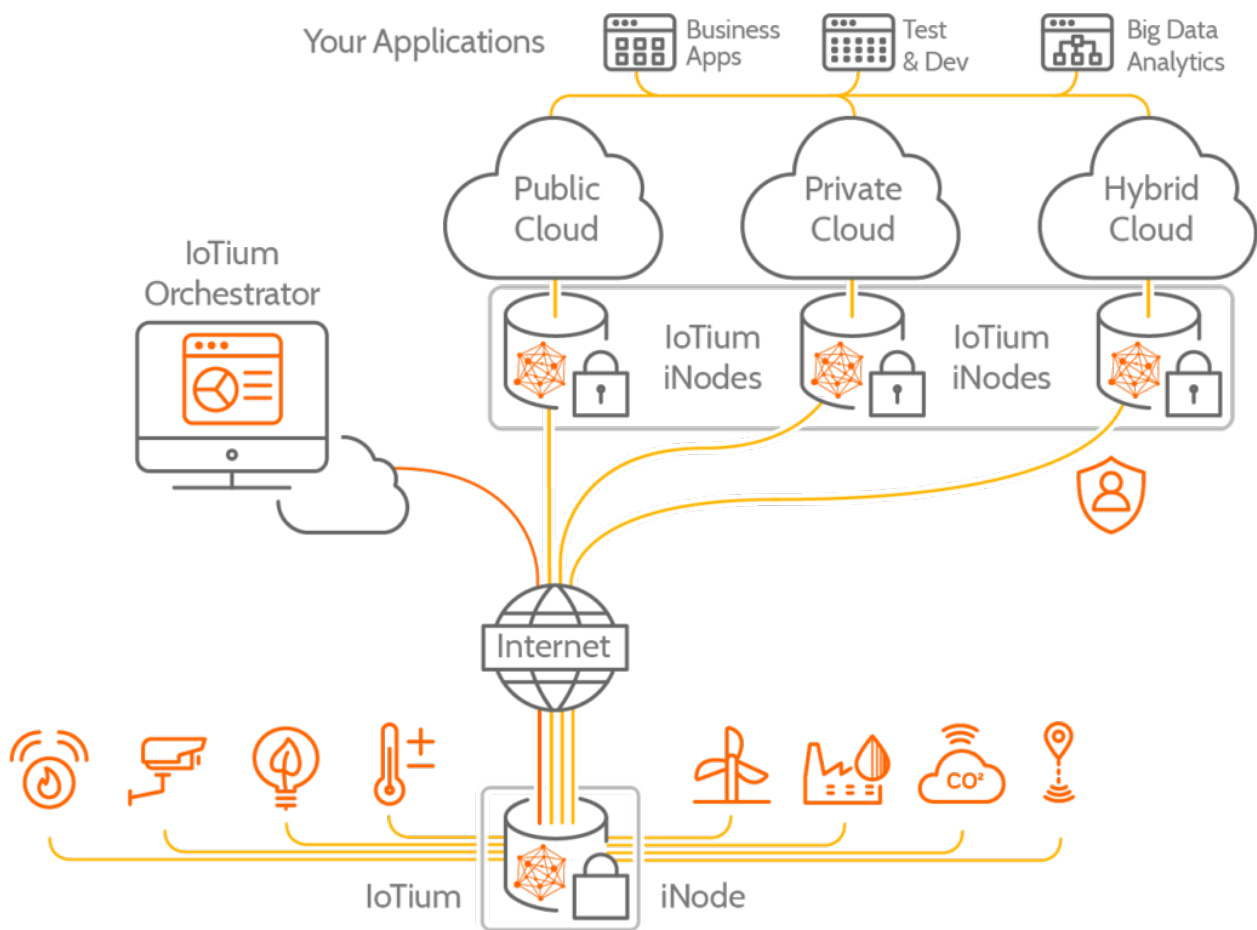
KEY BENEFITS

Zero-touch Secure Provisioning

- No truck-rolls
- No CLI
- No usernames and passwords
- No changes to enterprise firewall policies

End to End Secure By Design

- Secure the assets
- Secure data, both in motion and at rest
- Secure Data Isolation
- Granular Policy driven

One-Click Deployment of Edge Apps at scale

- BMS
- Analytics, ML/AI
- Protocol Adapters
- Sensor Firmware Upgrade
- Custom Data Collection

KEY FEATURES

Secure Connectivity

- X509v3 certificate based mutual authentication
- AES-256 encryption
- Automatic key rotation
- Automatic certificate renewal and CRL management
- Two-Factor Auth
- Third party PEN Tested

** Feature is available as beta

IIoT Service

- Zero Touch Provisioning
- Automatic Many Sites to many Cloud Secure Connections
- DHCP/Static IP Addresses
- 4G Support (Dell5000/VZ only/ATT**)
- Network Discovery (IP only)
- Hierarchical Organizations
- Complete RBAC for Users
- Edge Firewall
- Advanced Tunnel Firewall: Granular, 7-tuple rules, independent app and sensor traffic control
- Split Tunnel
- Advanced Alerts
- Standalone Mode
- 802.1Q VLAN Support

Edge Applications

- Skyspark® 3.0.X
- ThingWorx® agent v7+
- Custom Apps
- Niagara 4® **
- BACNet
- OPC-UA
- Support for Docker, Azure and AWS repository

Requirements
- Supported Hardware
  - Dell 5000/5100, Advantech UTX 3115, Lanner 7230
  - Interfaces: Ethernet, RS-232, RS-485, WiFi, 4G/LTE (Dell Only)
- Virtualization Platforms
  - AWS, Azure, VMware ESXi 6.X
  - Min 2GB RAM, 2 VCPU, 10GB disk