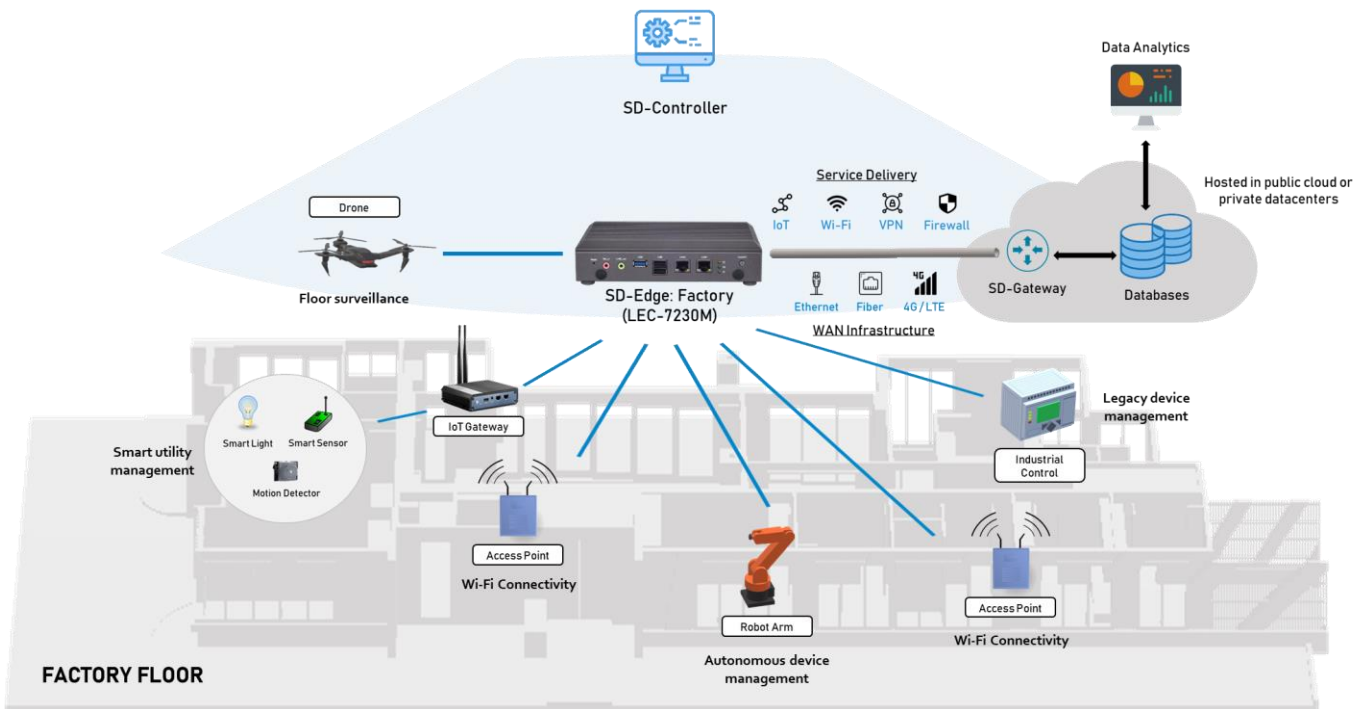Industry 4.0, the latest phase in industrial revolution, focuses on building smart, autonomous, inter-connected industrial systems that are fuelled by data, artificial intelligence and machine learning. Due to the constant data exchange between all the involved parties: connected systems, datacentres and cloud, these inter-connected systems require constant monitoring and can't afford network downtime. Hence system integrators and service providers need to ensure the network remains up and running 24x7, and facilitate corrective actions based on real-time alerts.

Decillion Devices with a first-of-its-kind SD-WAN solution for Industry 4.0, enables network service providers and integrators to deploy industrial IoT, smart manufacturing and retail solutions, and help organizations move forward with incorporating new digital technologies in their production environments.

Solution

Decillion's SD-WAN solution consists of three components:
- **SD-Gateway:** Deployed on-prem or in public clouds, the gateways host virtual network functions (VNFs) and deliver network services from the cloud to the edge networks.
- **SD-Controller:** Centralized server orchestrating network-wide service deployment.
- **SD-Edge:** Whitebox appliances providing secure branch-to-cloud connectivity.

The solution involves deploying an universal industrial edge appliance (SD-Edge) at the factory floor. The edge acts as an all-in-one gateway and comes with protocol adapters for last-mile LAN connectivity and helps bring all the disparate network devices such as automation systems, IoT sensors, legacy systems and drones under a common management framework. The data generated by all the connected systems is transferred to cloud-hosted SD-Gateways through secure SSL tunnels. The SD-Gateways are integrated with the IoT stack of popular cloud platforms, such as AWS, Google and Azure, that the users can leverage with AI or analytics in the cloud for intelligent network monitoring. All the industrial edge appliances support instantaneous WAN failover over 4G/LTE networks, ensuring WAN uptime percentage of at least 99.999%.

Solution Benefits for Industry 4.0

- Centralized network management
- Cloud IoT integration for real-time network intelligence
- WAN high availability over 4G/LTE
- Dynamic WAN traffic prioritization and steering
- Network scaling, with over 10,000 active connections
- Real-time network surveillance using unmanned drones
- Open APIs for big data analytics, machine learning

CONTACT US
www.decilliondevices.com

1800 120 5343 (India)

949-391-7162 (US)

sales@decilliondevices.com