

IoT in the Carrier World : whitepaper published in May 2017

- How are Carriers contributing to the IoT ecosystem?
 - Connectivity services : Public Internet, MPLS, Capacity, IPX Transport
 - Voice and SMS services
 - Roaming services : Managed Roaming service, Roaming Signaling (SIGTRAN and LTE Diameter), Data Roaming, Voice and SMS, Roaming based on other type of connectivity (WiFi, LORA, etc)
- Are Carrier services adapted to IoT ecosystem requirements ?
 - Signaling Storm is affecting MNOs and also Carriers
 - SLAs are required between Carriers on those services where IoT traffic is
 - Real time communications and redundancy is getting more importance in a growing IoT ecosystem
 - IoT coverage is limited in roaming scenario due the agreement and cost
- Hot topics Carriers can explore :
 - Create specific IoT Transport service with QoS and SLAs (i.e. IPX Transport for IoT)
 - Hosting services based on Data Centers
 - One-stop to get connectivity worldwide, providing local connectivity thru SIMs or MVNOs
 - Collect and analyze all IoT data passing thru the Carrier (Big Data)
 - Security features are already provided in current services, but it may not be enough.



What else can we explore ?

- Is it feasible to create a specific IoT network separated of the mobile network?
- How will 5G affect the IoT ecosystem and Carriers?
- Will Network Neutrality affect IoT services?
- Should Carriers centralize IoT services as a single entry point for MNOs?

