**Telecom Network Optimization**

Organization Name: Tata Telecommunications

**Overview:**

Embedded SIM (ESIM) enables users and devices to connect to multiple mobile networks (one network at once) using the same physical SIM card. We are expecting team to come up with some type of Device applet / application to more dynamically select available networks based on defined parameters (cost / quality), perhaps, going further, how to automate the authentication / access transactions to utilize that network

**Current Challenges:**

As an Embedded-SIM provider, we work with multiple mobile network operators both locally in India and in global markets to offer best possible connectivity and prices to our customers. We are working on an applet that can select between our ESIM Global SIM (901 profile) and a local profile. What would be great is for the device to have the intelligence to dynamically select the "best" network available for the Transport / Asset while it is in motion around India. "Best" to be determined by customer and/or use case – which could be driven by network coverage or cost or a combination of the two

The use case doesn't necessarily need to limit this to selection amongst the cellular networks – we could expand this to cover devices that can connect to heterogeneous networks (cellular, WiFi, LoRa, etc.), which in return becomes attractive to telecom operators who offer both WiFi and cellular connectivity

**Business Requirements:**

For cost reduction and customer delight: better authentication and seamless interoperability between networks (cellular, WiFi, LoRa, etc.,) offers better experience to the user and a rule-based switching depending upon the use case would help minimize the costs, which can be passed on to the end user