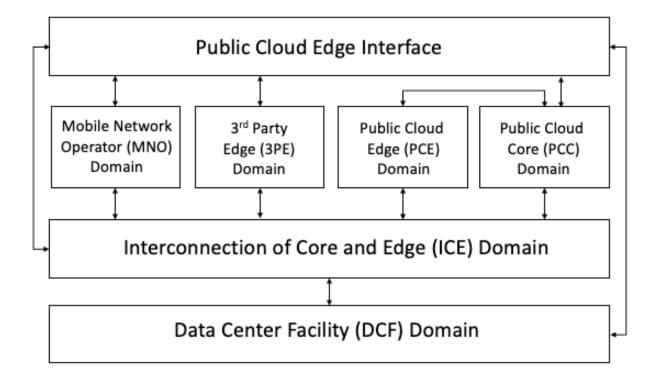
Toward The Public Cloud Edge Interface

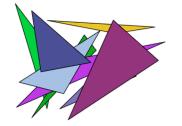
Multi-Network Multi-Cloud Edge Demo



PCEI Overview

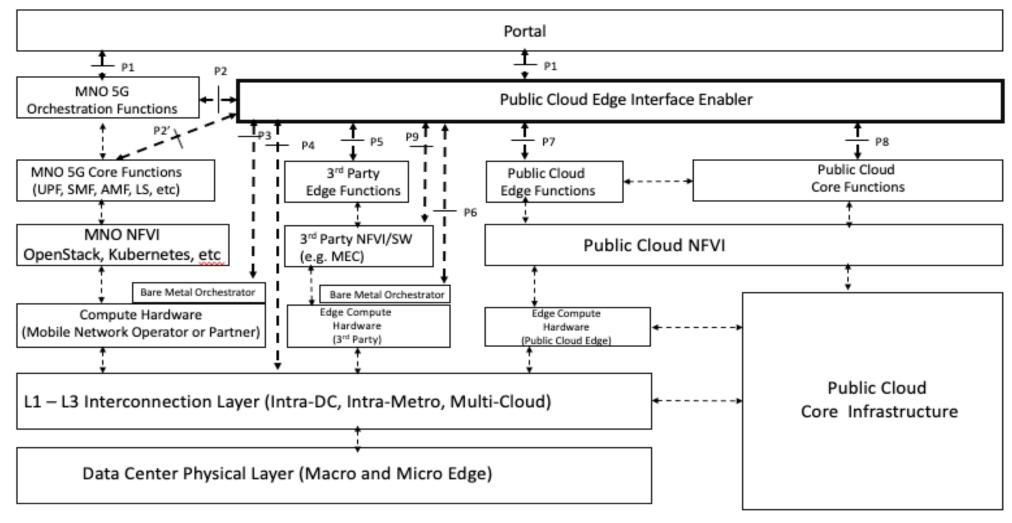


The purpose of Public Cloud Edge Interface (PCEI) Blueprint family is to specify a set of open APIs for enabling Multi-Domain Interworking across functional domains that provide Edge capabilities/applications and require close cooperation between the Mobile Edge, the Public Cloud Core and Edge, the 3rd-Party Edge functions as well as the underlying infrastructure such as Data Centers, Compute hardware and Networks.



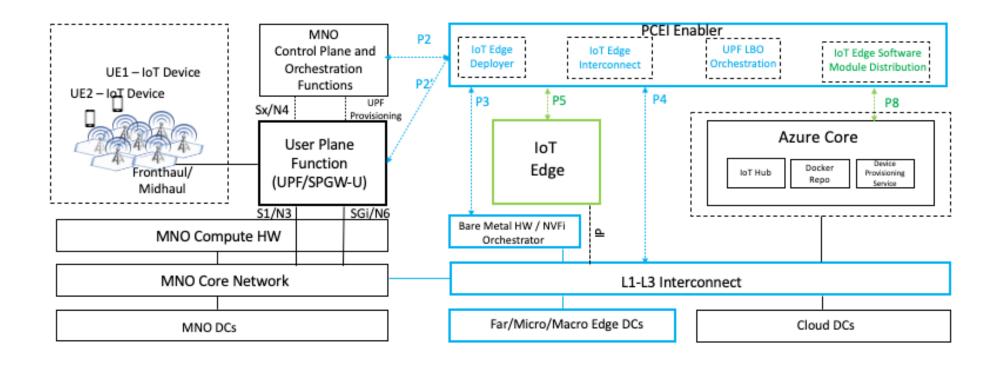


PCEI Reference Architecture





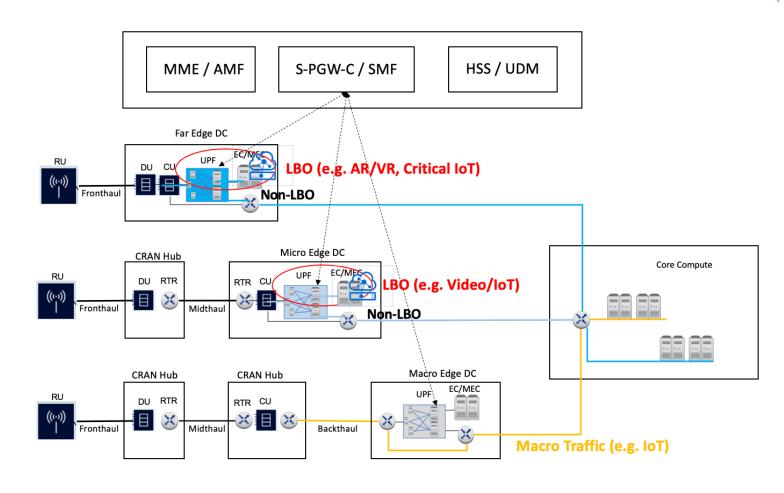
PCEI with Azure IoT Edge (PCE) and Azure (PCC)





Demo Scenarios

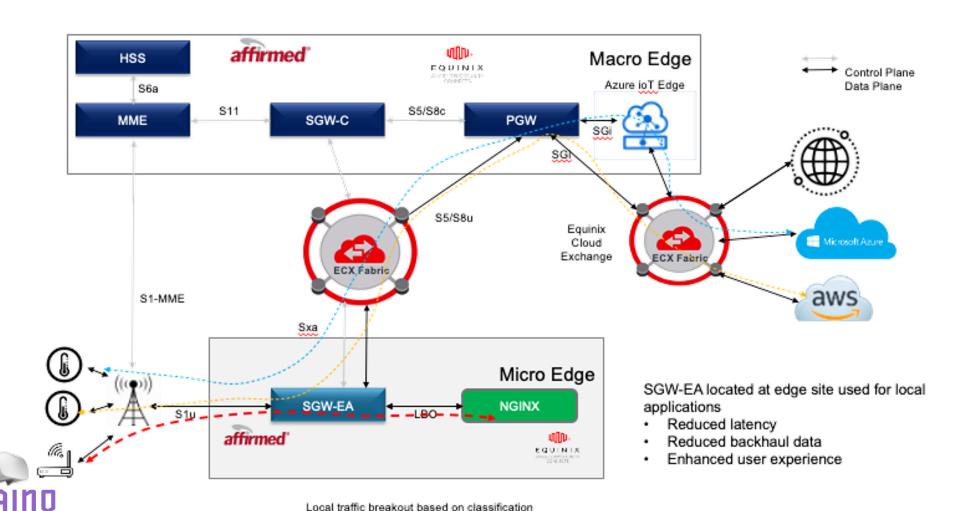
- 1. LBO for Video with 3rd Party Edge Compute
- 2. Cellular IoT with Azure IoT Edge Compute
- 3. Cellular IoT to Public Cloud (AWS)



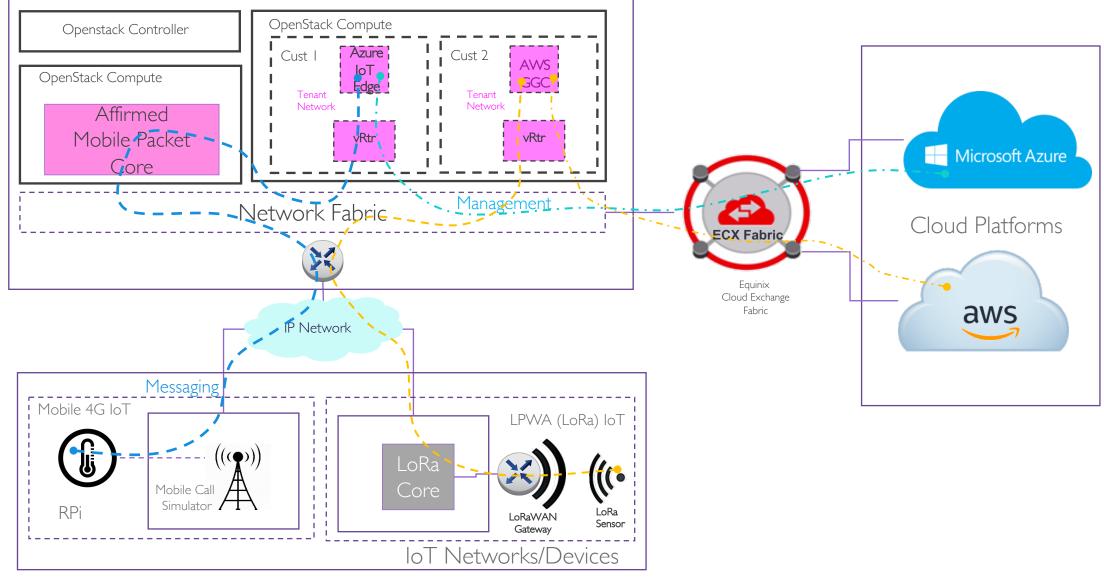
3

AKRAINO
EDGE STACK

Demo configuration: Distributed Mobile Edge (CUPS) and Multi-Cloud



Multi-Network Access with Multi-Cloud Edge



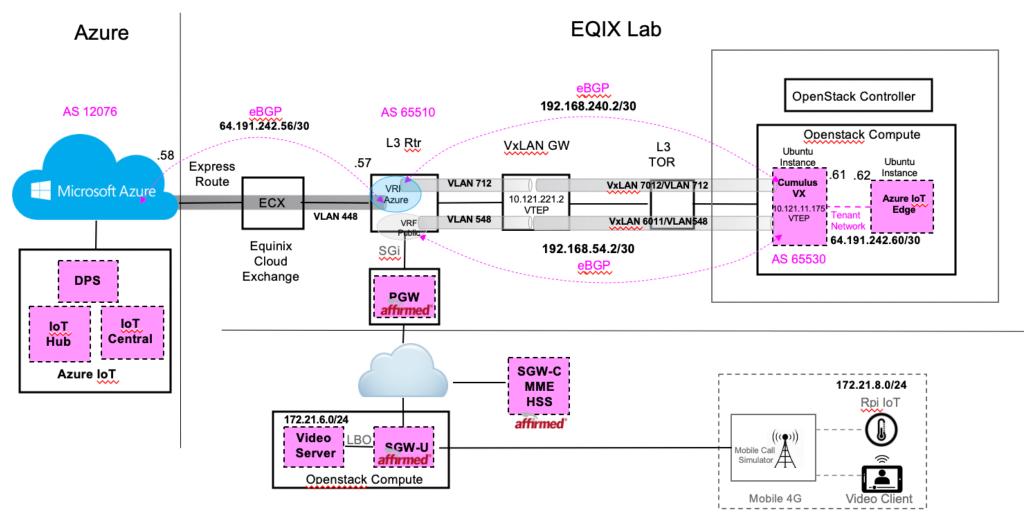


Azure IoT Edge Demo Setup

- Azure IoT Edge deployed in an Ubuntu VM on Openstack
- Cumulus Virtual Router front-ends IoT Edge and provides routing to Azure core cloud and Mobile Core (PGW)
- Azure ExpressRoute private connection between IoT Edge/VR and Azure IoT Hub
- Affirmed Mobile core (S/PGW) providing access to a mobile device (a combo of a real RPi and a simulated 4G access)
- A simulated IoT sensor on RPi sending random atmospheric pressure, temperature and humidity readings in the low power encoding to the IoT Edge
- A custom module on the IoT Edge reading the IoT data, decoding the readings and publishing messages to IoT Hub in Azure core over MQTT over the ExpressRoute connection



PCEI Azure IoT Edge Demo Lab Details





PCEI Multi-Cloud Edge Demo Lab Details

