

Network & MEC AI Optimization

Digital Network Transformation

Maximize the ROI of your 3G/4G/5G network assets by optimizing your infrastructure with NEC Digital Network Transformation suite. Address each of your network traffic profiles specifically for the best performance.

Digital Network Transformation Overview

■ Network Challenges in Digital Era

While traditional industries embrace the Digital Transformation, new challenges arise for the telecom industry. Variety of new services threaten to collapse traditional networks with huge amount of data. Billions of IoT sensors establish ever-growing mesh of simultaneous connections that needs to be kept alive. Most applications require near real time transmission speeds. In a hyper connected environment traditional networks will become chaos.

■ New Network Business Opportunities

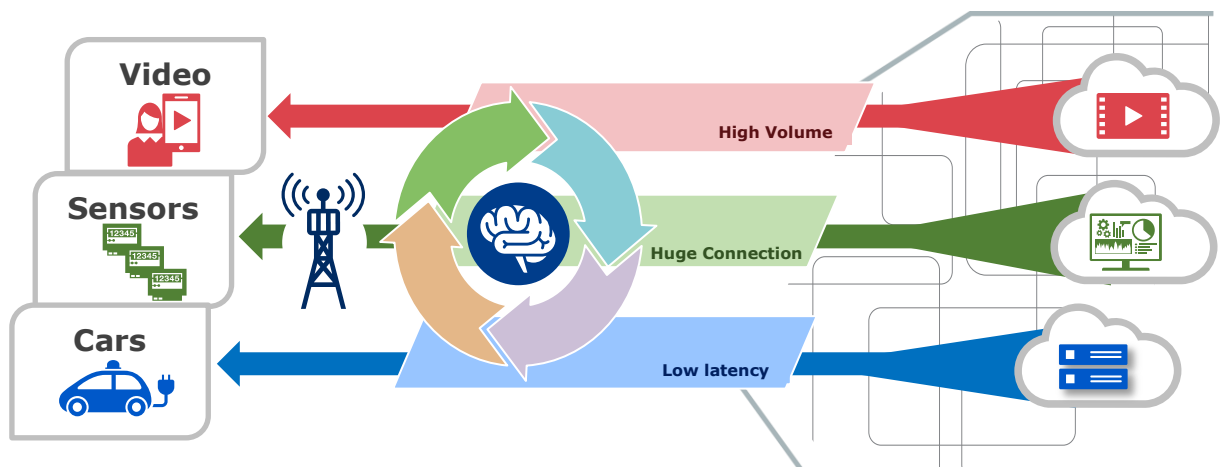
Network aware services become reality now with NEC Digital Network Transformation suite. Thanks to the possibility to dynamically interact with the network in real time, services and applications can take advantage of most favourable network configuration. Introduction of IoT/NaaS Services allow new revenue stream beyond connectivity leveraging on service aware network infrastructure.

■ Why Network Optimization is key

In order to fit with the new digital society reality telecom networks take the digital transformation ramp towards 5G. Still proper use of legacy and newly built network resources is key to fulfill diverse services demands. Automation, orchestration and traffic segmentation is required in order to properly manage the network. AI backed up network data is becoming the new value source and differentiation factor in the telecom market.

■ OPEX/CAPEX Infrastructure savings

Among other benefits, NEC Digital Network Transformation Solution allows a significant OPEX/CAPEX reduction, by maximizing network resources use. Video contents AI optimization by cache and MEC has huge costs reduction for streaming server. Network traffic compression and segmentation has direct impact infrastructure usage efficiency.

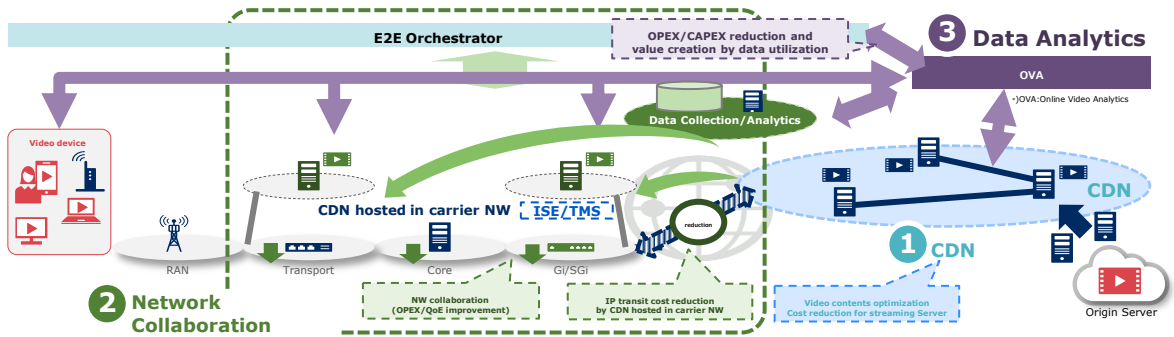


Network Optimization for Video Service

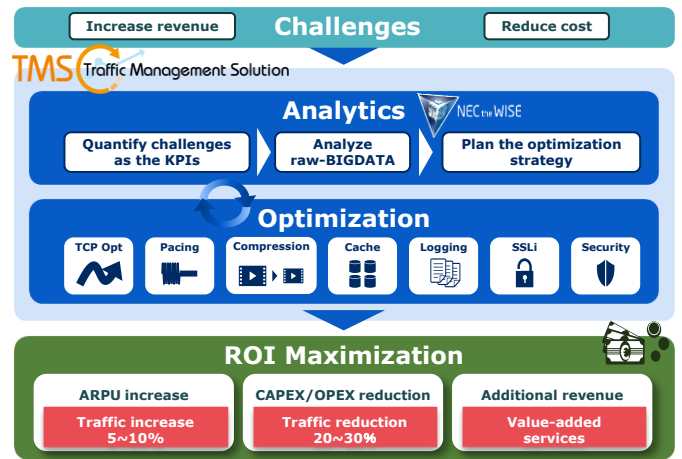
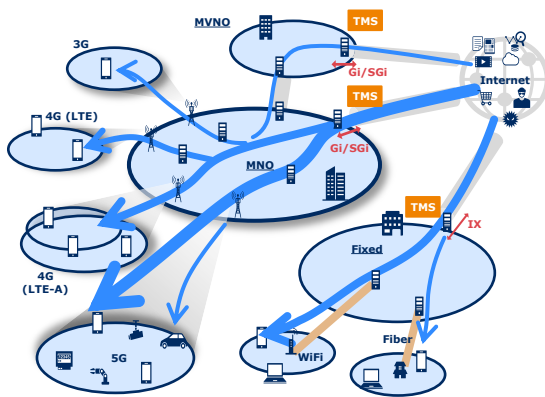
1. CDN : Video contents optimization by cache. Cost reduction for streaming server

2. Network Collaboration : IP transit cost reduction by CDN hosted in carrier Network

3. Data Analytics : OPEX/CAPEX reduction and value creation by data utilization



Traffic Management Solution (TMS)



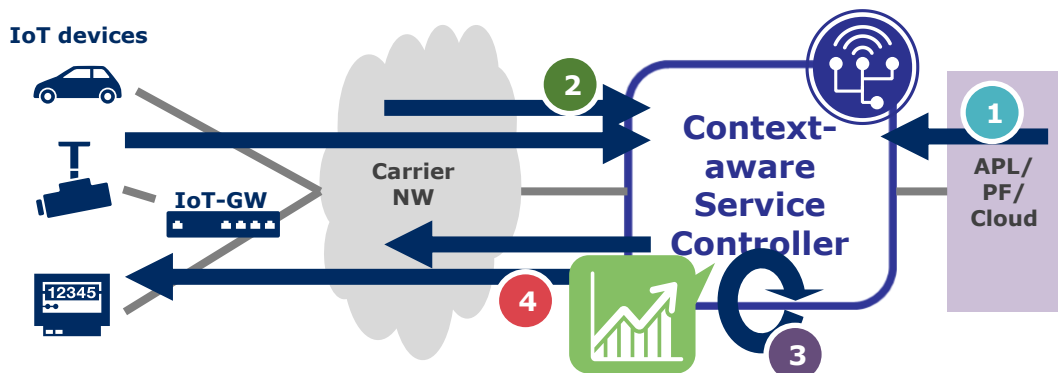
Context-aware Service Controller (CSC)

1. Input from Services

2. Monitoring NW and devices

3. Context Analysis
Determine optimized configuration

4. Dynamic NW and devices control



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