5G Intelligent Connectivity

Cloud & VNF Orchestrator

- Multi-view Live Streaming
- IOC
- Smart Agriculture

MEC: Multi-access Edge Computing
IOC: Intelligent Operation Center
SDDC: Software Defined Data Center

5G Intelligent A+ (CHT MEC)
NFV MANO (ECoreCloud)+SDN controller (NAPA) automatically deploy/scale VNF (Mobile Edge Enabler, Enterprise on-demand service, IDS, IOC) → Edge DC 5G intelligent A+

- Each service is carried in various slice
  - eMBB&URLLC slice is served by edge DC
  - mMTC slice is served by internet
**Multi-view Live Steaming**

- **Low latency live encoder + mobile edge enabler** -> achieve requirements of two channel multi-view live streaming (slice 1 & slice 2) with **less than 500 ms time difference at the scene**
- **Enterprise on-demand service + NAPA** -> **adjust bandwidth** of one channel via web GUI
NAPA SDN Controller

- NAPA (Network Adapter with Programmability and Automation) is an SDN Controller that supports version 1.3 of the OpenFlow protocol.

**Key features:**

- **Centralized Web GUI**
  - Network topology
  - Network configuration
- **Path builder (SDNLink)**
  - End to end path configuration
  - Path protection
- **Traffic monitoring**
  - Real-time & historical
  - Top N usage
- **Secure LAN solution (EyeLAN)**
  - Automatic user detection
  - Network access control (ACL)
- **System scheduling tools**
  - Connectivity & quality check
  - Network configuration backup
- **Network troubleshooting**
  - Log management
  - Test packet sender
NAPA is being used in various parts of the network. NAPA use cases emerge across the LAN, WAN and data center.
EyeLAN is the next-generation intelligent network management solution that helps enterprise to build network architecture with high reliability, high security, and ease of management.

Joint defense

Traffic analyzer
Traffic filter

Information Security Protection

Third-party management

SDN controller

Network Access Control

SDN switch

SDN management

EyeLAN-a Secure LAN Solution
5G MEC: Network Slice Management

TOPOLOGY MANAGER

Topology

Multi-view Live Steaming

Real-time Bandwidth Control
5G MEC: Network Slice Management

Traffic Monitoring

Traffic Monitorings for different ports and times.
Thank You!