

# INTEL® TELCO CLOUD ACADEMY

## Intel Telco Cloud Transformation

### Telco Cloud Transformation

- 5G – A Driver of Network Transformation
- Communications Service Providers and Telco Cloud
- Introduction to Telco Cloud & Key Requirements in Migrating Workloads
  - Intel Enables Cloud Native Networking

### Edge Computing

- Defining the Edge and Intel® Smart Edge
  - Developing with Intel® Smart Edge

### Radio Access Network (RAN)

- Virtualized Radio Access Networks (vRAN) Technologies
- Virtualized Radio Access Networks (vRAN) Software
- Virtualized Radio Access Networks (vRAN) Hardware

### Wireless Core Network

- Industry Leading Platforms for 5G Wireless Core
- Intel Technologies Drive Performance Improvements for 5G Wireless Core
  - Wireless Core Edge to Core Security
- Power Management Optimization for the 5G Wireless Core

## Telco Cloud Technologies

### Transformation Technologies for Cloud Networking

- Transformation Technologies for Cloud Networking
  - Network Functions Virtualization & Software Defined Networking
  - Evaluating Public Cloud Infrastructure for Telco Workloads

### Network Functions Infrastructure Technologies

- Overview of Virtual Machines & Containers for Telco Cloud
  - Cloud Native Microservices and K8s
  - Node Feature Discovery in Kubernetes
- Cloud Infrastructure for Network Functions and Networking as a Service
- Network Functions for Enterprise and Cloud Networking

### Introduction to Intel® Infrastructure Technologies

- Introduction to Intel Ethernet Controllers
- Introduction to the Intel® Infrastructure Processing Unit (Intel® IPU)
- Workload Acceleration with Intel® QuickAssist Technology
  - Cloud Native Storage
- The Importance of SRIOV for Networking
- Open Virtual Switching (OvS) for Networking
- Intel® Advanced Vector Extensions 512 and benefits for Networking Performance
  - Power Management Technology Overview
  - Data Plane Development Kit (DPDK) 101
  - Traffic Analytics Development Kit (TADK)
- Intel Enterprise Networking AI Building Blocks

## Intel Network Platform, Capabilities and Best Practice Guidance

### Intel Network Platform System Capabilities

- Introduction to Intel Network Platform System Software and Capabilities
- Resource Orchestration and Automation for Intel Capabilities
- Intel Platform Telemetry and Cloud Native Observability
  - Intel Power Management Supporting Sustainability
  - High Performance Networking
  - Intel Network Platform Security
- Secure Transport with Intel Platform Security Capabilities
  - Service Mesh Overview
- Crypto Accelerations in Istio and Envoy with Intel® Xeon® Scalable Processors

### Intel Network and Cloud Edge Reference System Architectures

- Intel Network Platform Network and Cloud Edge Reference Architectures
- Intel Network Platform Reference Architecture Deployment Models
- Intel Network Platform Reference Architecture Configuration Profiles

### Telco Cloud – Reference Workloads, Usecases and Implementations

- Secure Access Service Edge (SASE) Solutions for Network Transformation
  - Virtualized Radio Access Networks (vRAN) Deployment Scenarios
- Intel Platform Capabilities Supporting AI Machine Learning for Networking