VIA MAP PURE INGEST WORKFLOW - TECHNICAL TRAINING FOR END CUSTOMERS

COURSE OBJECTIVES:

This training provides support engineers with the essential knowledge for deployment readiness, configuration, operations, and troubleshooting of VIA MAP Pure Ingest workflows. It covers system architecture, workflow configuration, monitoring, and operational support within a broadcast and Kubernetes-based environment.

TARGET GROUP:

Support Engineers

COURSE DURATION:

1 day

PREREQUISITES:

- Basic broadcast workflow understanding and signal routing
- IP knowledge: Layer 2, Layer 3, Subnetting, Upper Layers, Multicasting, Gateways, DNS
- Unix/Linux Operating System – Basic Shell Commands
    - File & Directory Management
    - Text Viewing & Processing
    - Editing
    - Documentation
    - Archiving
- Keycloak
    - Basic knowledge of authentication and authorization concepts
    - Familiarity with Active Directory basics
- Kafka Debugger
    - Basic understanding of Kafka-based messaging workflows, what it is
    - Producers and Consumers
    - Topics
    - Partitions
    - Brokers and Clusters
- Docker/Containerization
    - Basic understanding
        - What docker is and why it is used
        - Container vs Virtual machine
        - Docker images and containers
- Kubernetes
    - Basic understanding of Kubernetes
        - What Kubernetes is
        - Clusters and nodes
        - Pods
        - Deployments
        - Services

LANGUAGE:
English (other languages on request)

COURSE CONTENT

1. VIA MAP overview – Introduction & Positioning

    - Introduction to PAM and the VIA MAP: context of use, integration in MediaCeption solutions
    - VIA MAP app suite and typical workflows
    - VIA MAP apps overview
    - VIA MAP and IPDirector – Key differences Overview

2. VIA MAP Customer Readiness

    - System requirements overview
    - Workflow definition fundamentals
    - Deployment environment guidance
    - TLS/SSL essentials
    - Name resolution setup
    - Firewall fundamentals
    - Video server compatibility
    - Target creation (Avid Interplay Integration)

3. VIA MAP Architecture

    - Workflow and architecture definition
    - System architecture fundamentals - CQRS, Event driven, Microservices, orchestration, Command/Event buses, Kafka, RabbitMQ, Kubernetes and Docker)
    - Communication architecture overview - OpenGate, reverse proxy, and Keycloak for access control
    - Infrastructure service overview - Kong, Nginx, Keycloak, Postgres, Elasticsearch, and observability stack (Prometheus, Grafana, Loki, VictoriaMetric

4. VIA MAP deployment overview

    - Understanding a VIA MAP deployment

5. Introduction to video servers

    - XS-Neo and XT/XS VIA server introduction and key differences overview
    - Server configuration

6. VIA MAP Configuration

    - User settings
    - Infrastructure settings (including Router Control)
    - Application settings
    - System settings

7. VIA MAP Workflow & Basic Operations

    - Workflow Fundamentals

- Available resources overview
- Configuration basics
- Building and analyzing an Ingest/Import workflow

8. VIA MAP Maintenance, Monitoring & Troubleshooting

   - Use of VIA Pulse and VIA Trace, and Grafana for workflow monitoring and debugging
   - Logs collection (EVS OPS-Toolkit, Workflow report, Kubernetes deployment logs)
   - Reporting an incident to EVS support team

9. Q&A section with EVS Global Support team