OBJECTIVE

Design and implement a holistic 5G end-to-end services operational framework tackling the lifecycle of design, development and orchestration of 5G-ready applications and network services over virtual and physical infrastructure, following a unified programmability model and a set of control abstractions.
The 5G-ready apps’ Cloud-native components:

- Expose their initial deployment & runtime configuration parameters, chainable interfaces (to cloud-native components for the creation of a service graph), and quantitative metrics’ required for QoS.
- Are stateless in order to be horizontally and vertically scalable.
- Are agnostic to physical storage, network and general purpose resources.
5G READY APPLICATIONS
MATILDA MAIN COMPONENTS

- Design and Development Environment.
- Marketplace.
- Intelligent Application Orchestration.
- Multi-site Resource Management and Orchestration implemented with MATILDA’s telco provider.
SIMPLIFIED WORKFLOW

Phase 1: NSI preparation
- Service Orchestrator (Vertical application)
- Slicing Intent generator (Service graph constraints)
- Slice Intent generator
- Slicing Lifecycle Manager
- NFV Convergence Layer

Phase 2: NSI instantiation
- NFV service mapping
- NFV service setup
- OSM
- NFO catalogues
- NSD catalogues
- Openstack
- WIM

Phase 3: NSI operation
- Policy engine
- Monitoring Platform
- VIM telemetry
- Graph link
- Access interfaces
- Service mesh measurements
Thanks!
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