

# New ETSI NFV Architectural Blocks: Telco Cloud Platform & Telco Cloud Orchestration

Presented by:

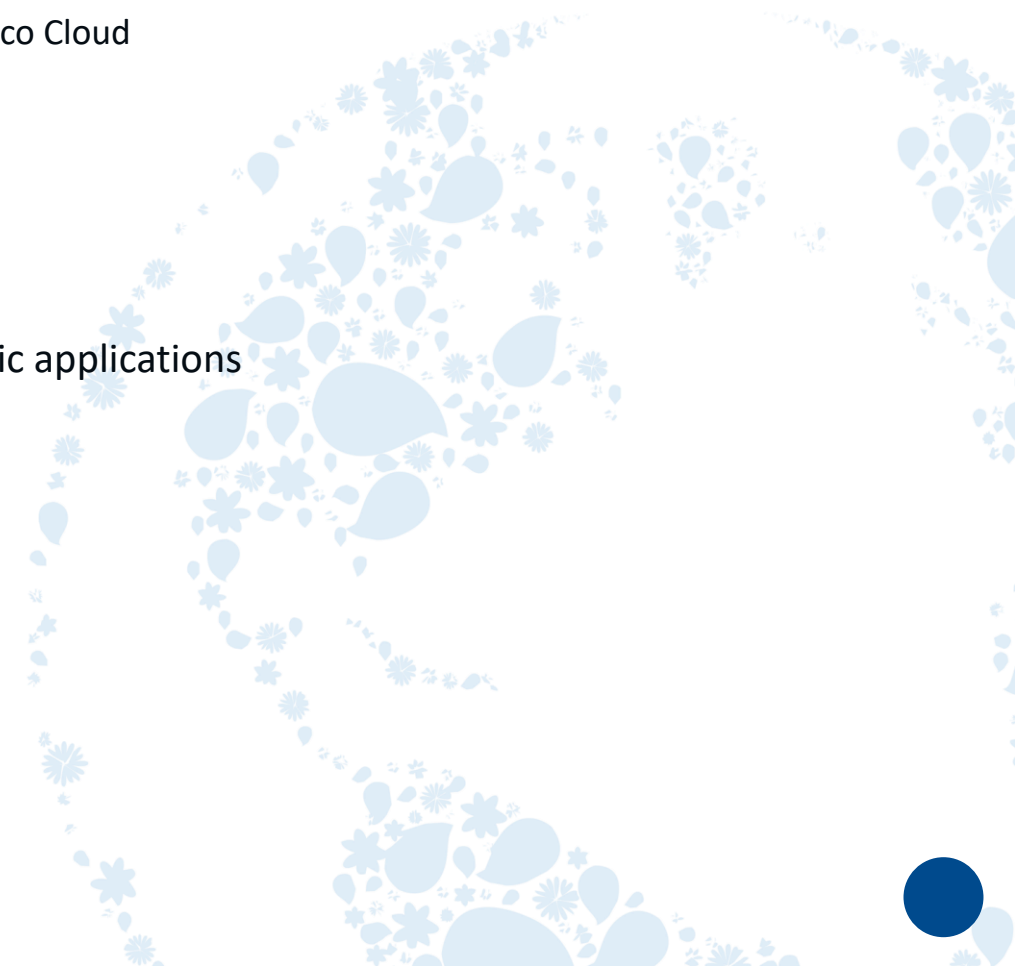
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June 2026



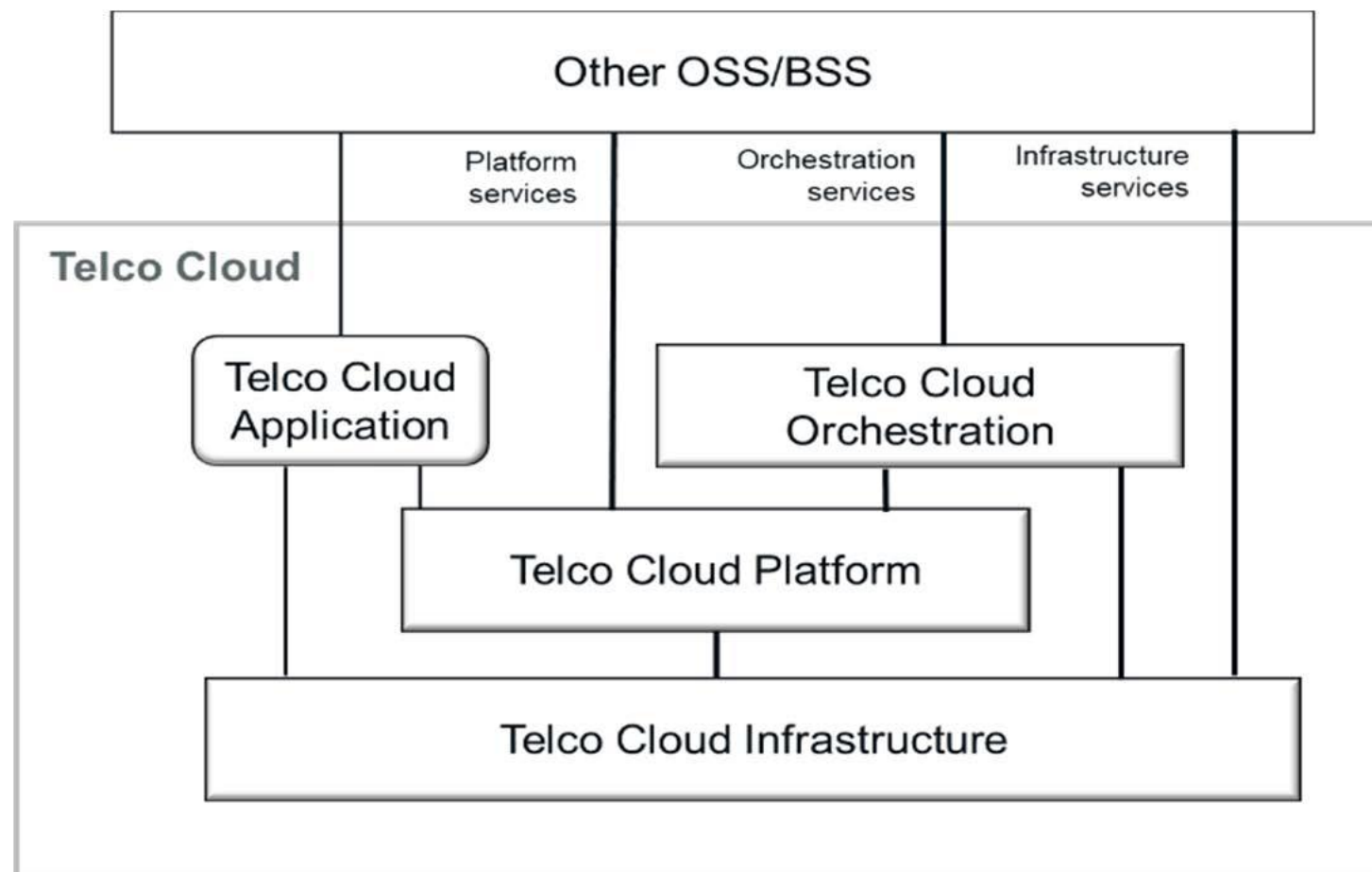
# Agenda

- NFV Release 6
  - Platform functions in
    - ETSI GS NFV 008-1 Architectural Framework for Telco Cloud
    - ETSI GS NFV 008-2 Functional and Non-Functional Requirements for Telco Cloud
  - Descriptors (Planned work)
    - ETSI GS NFV 009-1 Descriptors and Packaging: TCI Descriptors
    - ETSI GS NFV 009-2 Descriptors and Packaging: TCA Descriptors
- NFV Release 7
  - ETSI GR EVE 029 – Report on telco cloud platform services for agentic applications



# NFV 008-1 Architectural Framework - Recap

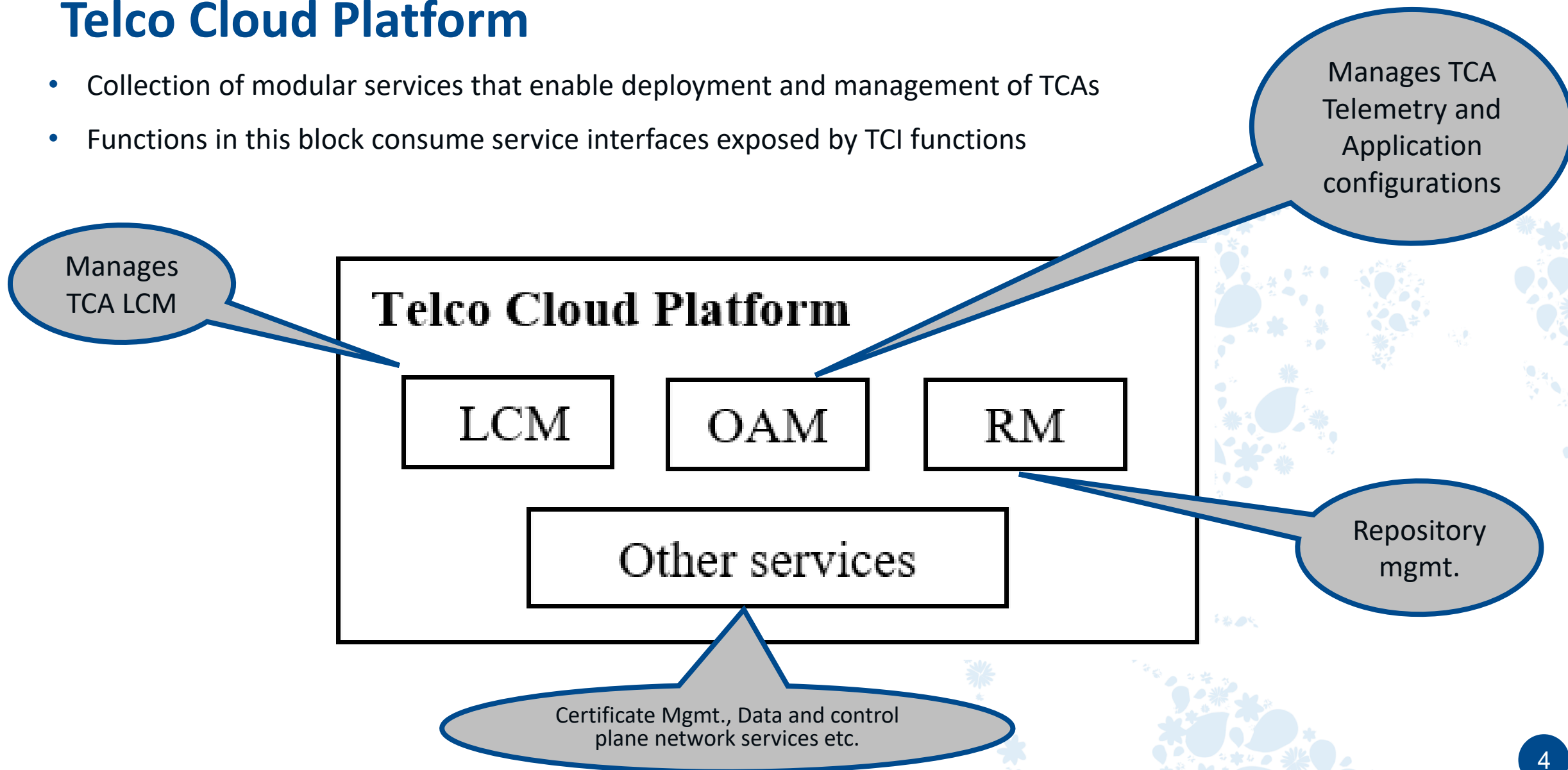
- New Constructs
  - Telco Cloud Infrastructure
  - Telco Platform
  - Telco Cloud Orchestration
  - Telco Cloud Applications



# NFV 008-1 Architectural Framework

## Telco Cloud Platform

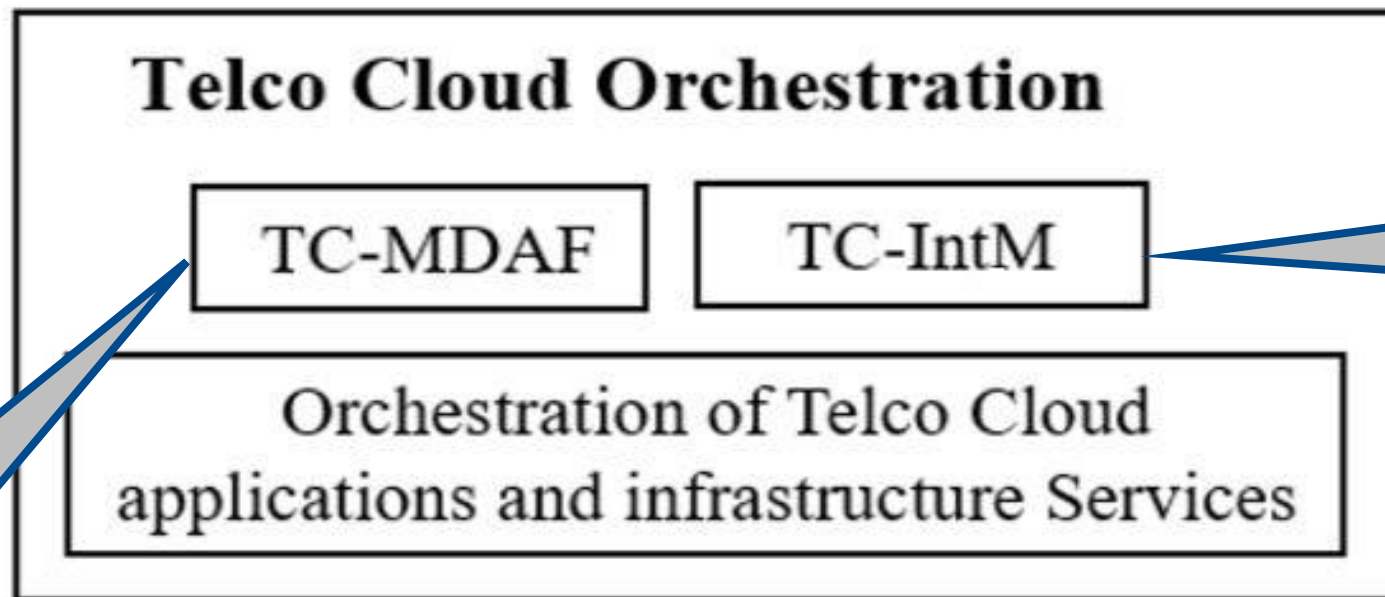
- Collection of modular services that enable deployment and management of TCAs
- Functions in this block consume service interfaces exposed by TCI functions



# NFV 008-1 Architectural Framework

## Telco Cloud Orchestration

- Provides functionality related to network level orchestration of applications and analytics related to TCA



Management Data Analytics

Intent management

# NFV 008-2 Telco Cloud Requirements

## Functional requirements

- TCI functional requirements for
  - LifeCycle Mgmt., Telemetry Mgmt., Repository Mgmt. of TCI
- TCP functional requirements for
  - LCM, TM, Configuration Mgmt. of TCAs
  - Repository Mgmt., Certificate Mgmt.
- TCO functional requirements for
  - Measurement and Data Analytics function
  - Intent Mgmt.

Note: Non-functional requirements are yet to be drafted

# NFV 009-1 TCI descriptors In Progress

- Analysis of existing solutions
- To Specify
  - Information models and
  - Data models, using the Kubernetes CRD format

# NFV 009-2 TCA descriptors In Progress

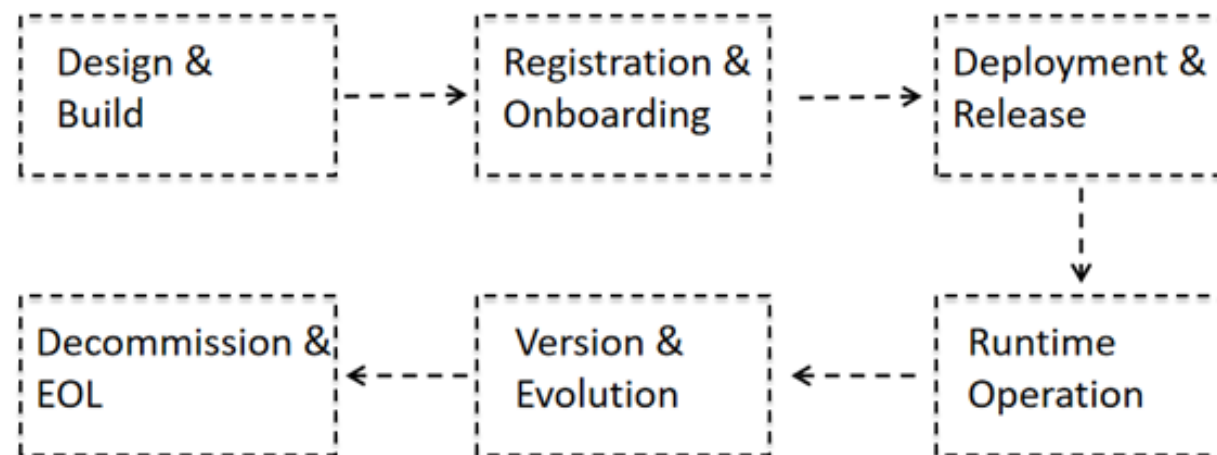


- Investigate data formats
- To Specify
  - Requirements
  - Information models and
  - Data models,
    - Kubernetes CRD format for containerized deployments
    - TOSCA for VM-based deployment

# Release 7 – Report on TCP services for AI applications

## NFV-EVE 029 (In Progress)

- Latest Draft Version
  - 0.0.4 as of June 2026
- Scope
  - Studies Life Cycle Management for AI agents
  - Includes monitoring of AI agents include telemetry
  - Identify technical gaps in Telco Cloud Platform functionalities



# References

- **NFV008-1 Architectural framework for Telco Cloud**  
[https://www.etsi.org/deliver/etsi\\_gs/NFV/001\\_099/00801/](https://www.etsi.org/deliver/etsi_gs/NFV/001_099/00801/)
- **NFV008-2 Functional and Non-Functional Requirements for Telco Cloud**  
[https://www.etsi.org/deliver/etsi\\_gs/NFV/001\\_099/00802/](https://www.etsi.org/deliver/etsi_gs/NFV/001_099/00802/)
- **Draft NFV009-1 Descriptors and Packaging: TCI Descriptors**  
<https://docbox.etsi.org/ISG/NFV/Open/Drafts/>
- **Draft NFV009-2 Descriptors and Packaging: TCA Descriptors**  
<https://docbox.etsi.org/ISG/NFV/Open/Drafts/>
- **Draft EVE029 Report on Telco Cloud Platform services for telco AI Agents**  
<https://docbox.etsi.org/ISG/NFV/Open/Drafts/>

