

# STL ODA Components

STL

*Network Software Wireless*

09-Dec-2022

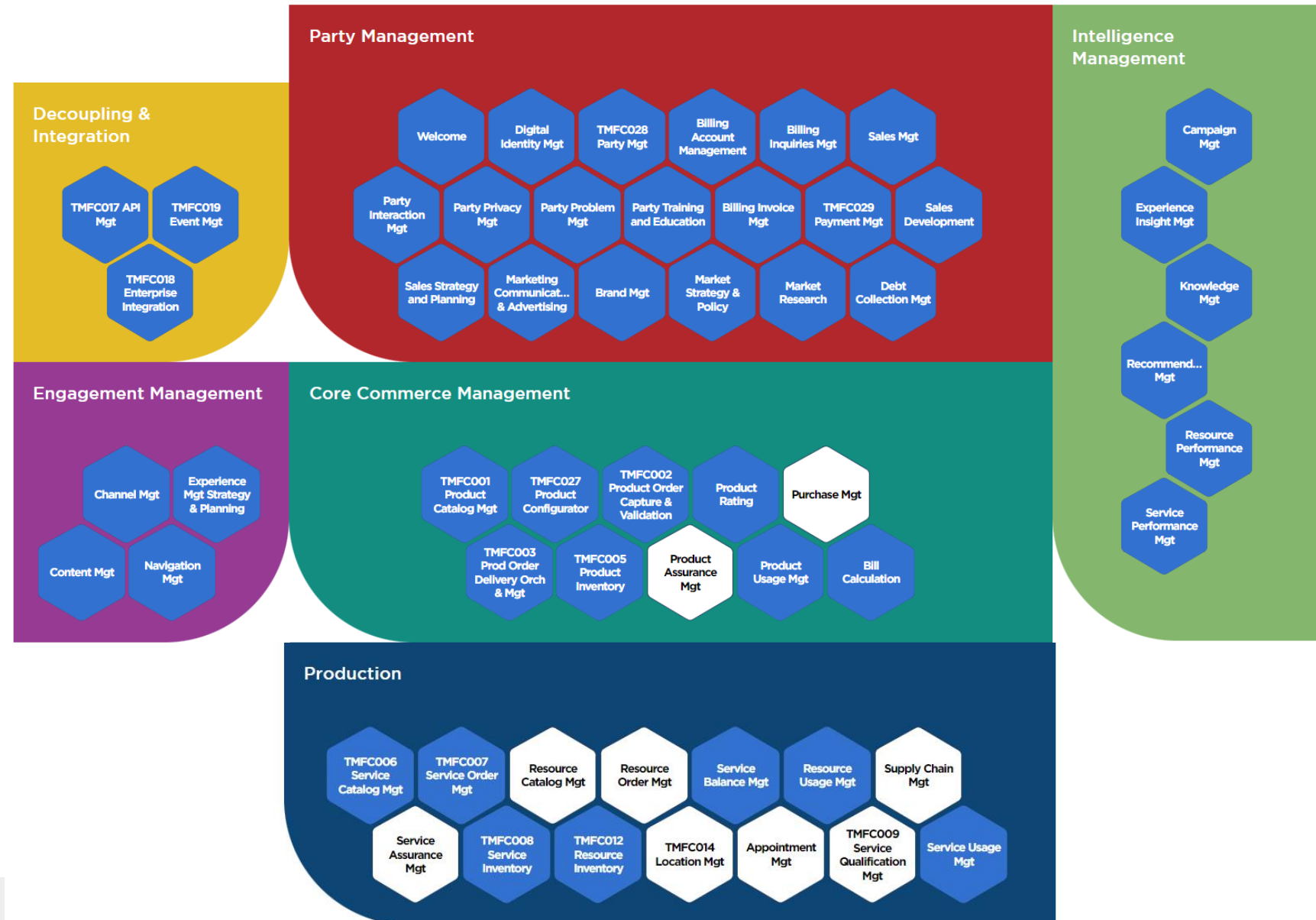
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# Agenda

- STL Digital BSS ODA Components Architecture
- ODA Canvas on STL Cloud Native Platform (CNP) for Private Telco Clouds
- STL Digital Policy Control & Charging (dPCC) : Product Rating and Service Balance Management ODA Components
  - Demonstration of STL dPCC Compliance to ODA Canvas L1, L2 Tests

# STL Digital BSS ODA Components Architecture

- Representation across Engagement Management, Integration, Party Management, Core Commerce Management, Production and Intelligence Management (Blue Hexagons in STL Scope)
- TMF Open API and ODA Component Accelerator Participant
- Deployment of ODA Canvas on STL Cloud Native Platform (CNP)
- Compliant with TMF ODA L1-Static, Dynamic and L2-Static, L2-Dynamic requirements. (Golden Component Proof of Concept with TMF Certified STL TMF 654 Prepay Balance Management in dPCC Service Balance Mgt ODA Component – TMFC013)
- Contribution to ODA Canvas Integration on Private Telco Clouds beyond Public Clouds



# ODA Canvas on STL Cloud Native Platform (CNP) for Private Telco Clouds

Run all application workloads on STL CNP with ODA Canvas Kubernetes Operators

## Application Workloads

Enterprise Applications  
(Cloud Native Applications)

Digital Marketplace  
dSP  
5G CHF

dBSS  
dPCC  
...

BSS/OSS (CNFs)

dPCRF  
dWiFi

5G PCF  
...

Telco Network Applications (VNFs/CNFs)

SDN-NFV Applications  
(CNFs)

Intelliza  
dMediation

IPLMS  
CGF/CG NAT

Big Data / Data Analytics

API Manager

## Platform Services – STL CNP



tmforum ODA Canvas Services  
Component Security API Component CRD  
Controller Controller Controller Webhook

## PaaS – STL CNP



Kubernetes



Virtual Networking



App-workflow Manager

## IaaS+



Bare Metal



openstack

Any Virtualization

## IaaS



COTS Server

## Private Cloud

Virtual Private Cloud

## Public Cloud



# STL dPCC : Product Rating, Service Balance Mgmt Components

- STL Digital Policy Control & Charging (dPCC) enables
  - 4G PCC (dPCC-Netvertex component name) and 5G PCF (PCF-Netvertex component name)
  - Product Rating and Service Balance Management (TMFC013) ODA Components
  - TMFC013 Service Balance Management as STL TMF Golden Component for Proof of Concept
    - TMF Certified STL TMF 654 Prepay Balance Management API as Exposed API for Golden Component

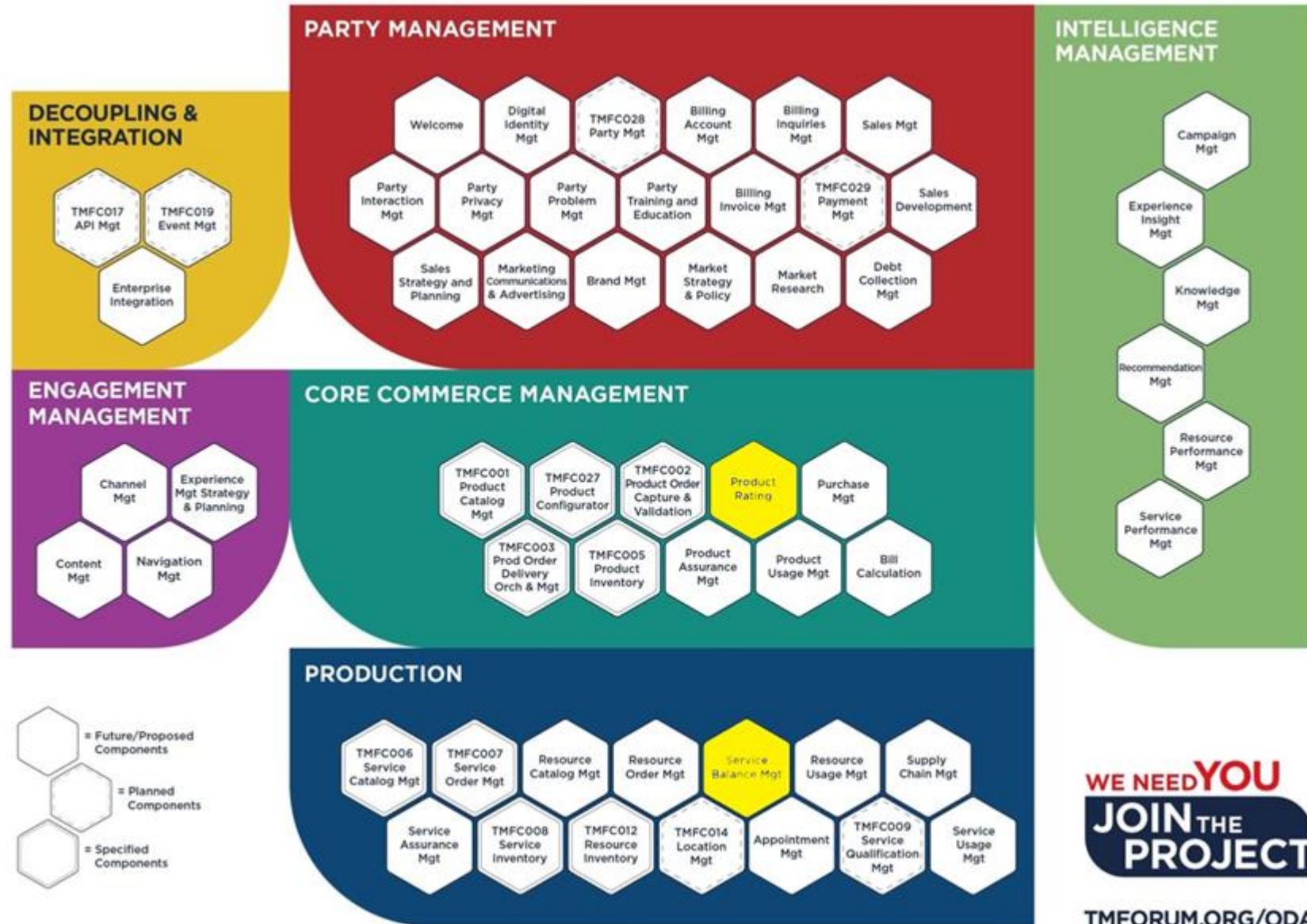
- STL dPCC and STL PCF on ODA Canvas over STL Cloud Native Platform Runtime environment

- ODA Component Envelopes definition for STL dPCC and STL PCF

- Successful L1 and L2 Static and Dynamic Tests (with STL dPCC Service Balance Mgt ODA Component for Proof of Concept)

- Demo URL for Compliance of STL dPCC to ODA Canvas L1, L2 Tests :

[https://drive.google.com/file/d/1kIPsuYGLWb\\_bapEh88EfDwVKXKz3OibK5/view](https://drive.google.com/file/d/1kIPsuYGLWb_bapEh88EfDwVKXKz3OibK5/view)



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