

EdgeGallery System Demonstration

Evergreen Release (v1.2)

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Introduction

Industry transformation – virtualization (VNF) & container (CNF)

- ✓ To meet the agility of new user requirements
- ✓ To meet the agility of user service enhancements
- ✓ To reduce the Time to market feature
- ✓ To meet the timely need of scaling
- ✓ To meet the high availability
- ✓ To reduce the running and capital cost
- ✓ To improve the interoperability by adopting the standards



Standardization of transformation - ETSI MANO vs ETSI MEC

Realization - Everything revolves around kubernetes(Edge) & OpenStack (Cloud)

- ✓ So much of customization for user needs based on region, operators , security measure etc
- ✓ So many different development technologies – very complex
- ✓ So many tool chaining
- ✓ support different hardware architecture
- ✓ Support telco specialized hardware selection for workload placement

Telco network virtualize the **connection-pipe** and **network function** using *edge* and *cloud* computing **as manageable edge application** and Need a platform where : collaboration happens

{Vendors} + {Standard Defining Org }+ {Operators} <-> {Open source Developer community}

Edge APP – Need of the hour ...

Edge App = App images + (deploy Topology) + {service config} + <dev/ops guide(s)> + [Traffic + DNS Rules]

As an edge app **developer**, I want IDE

- ✓ to develop my app
- ✓ to generate app package, which can be on-boarded
- ✓ to integrate with required edge capabilities and test it asap
- ✓ to manage my app test cases
- ✓ to test the app in sandbox environment
- ✓ to test the app in real environment
- ✓ to deliver additional abilities into the platform, which can be used/leveraged by other app

[as an edge service **partner**]

As an edge app **vendor**, I want

- ✓ to manage my app artifacts
- ✓ to manage my app test cases
- ✓ to verify my app schematics, securities and life cycle
- ✓ to get certified my app as edge gallery compliant
- ✓ to market it
- ✓ to share my app with my parties (community, operator, partners) involved in my B2B

As an edge **operator**, I want

- ✓ to download and manage the edge app
- ✓ to deploy the given app on appropriate edge nodes
- ✓ to monitor the deploy app in different edge nodes
- ✓ to configure rules and/or upgrade my app
- ✓ to scale my app on-need on-the-fly
- ✓ to terminate the running app



As an edge app **tester**, I want

- ✓ to manage the test cases
- ✓ to organize test cases
- ✓ to execute test cases
- ✓ to analyze test reports

EdgeGallery Components

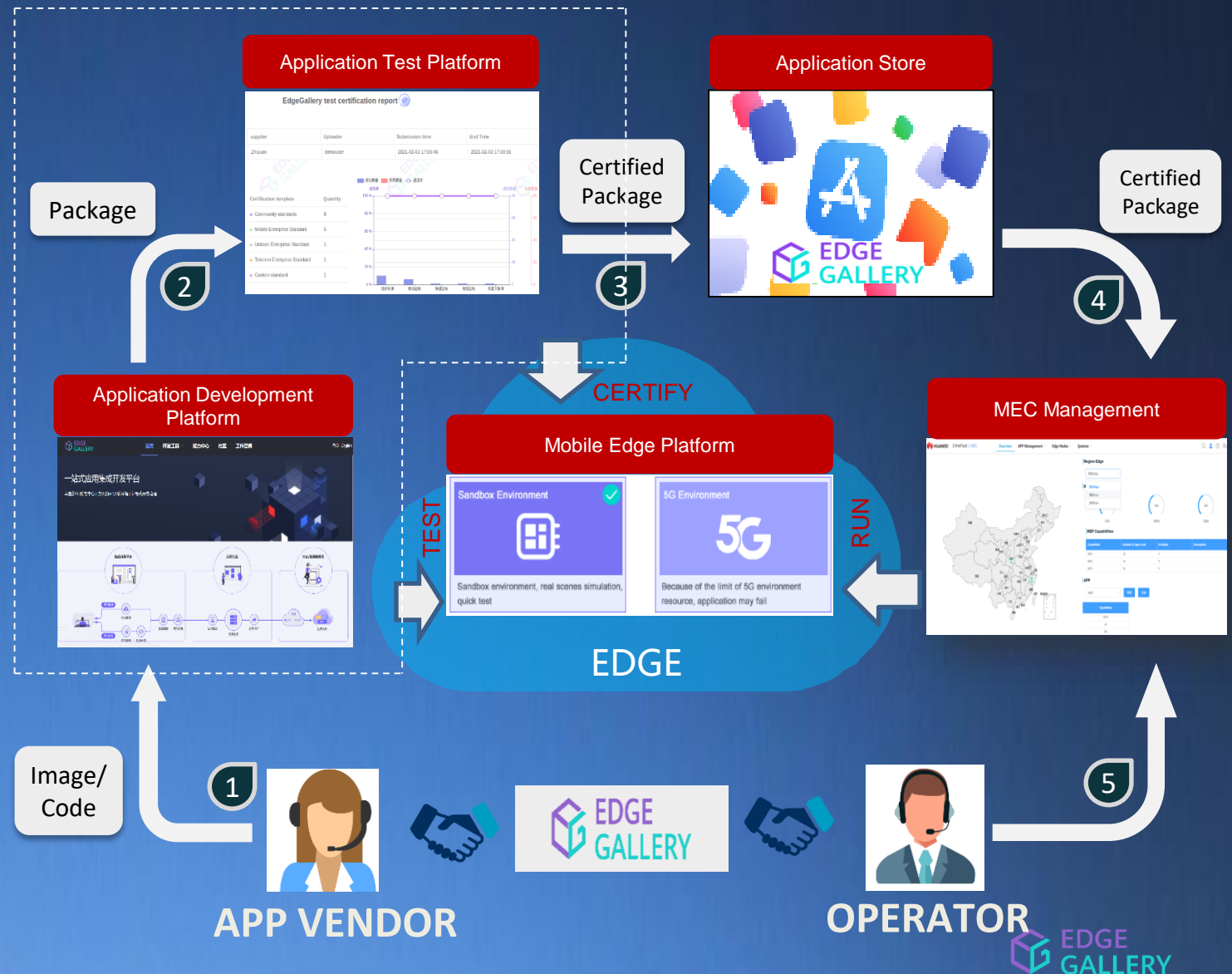
MEP: Autonomous, Rich in Platform & network capabilities, Support heterogeneous architecture

MEC Developer Platform: Provides Tool Chain, SDKs, APIs & Sandbox features for application development, packaging and testing.

Application Test Platform: Automated Application Certification, Test case management and customization, Visualized test reports

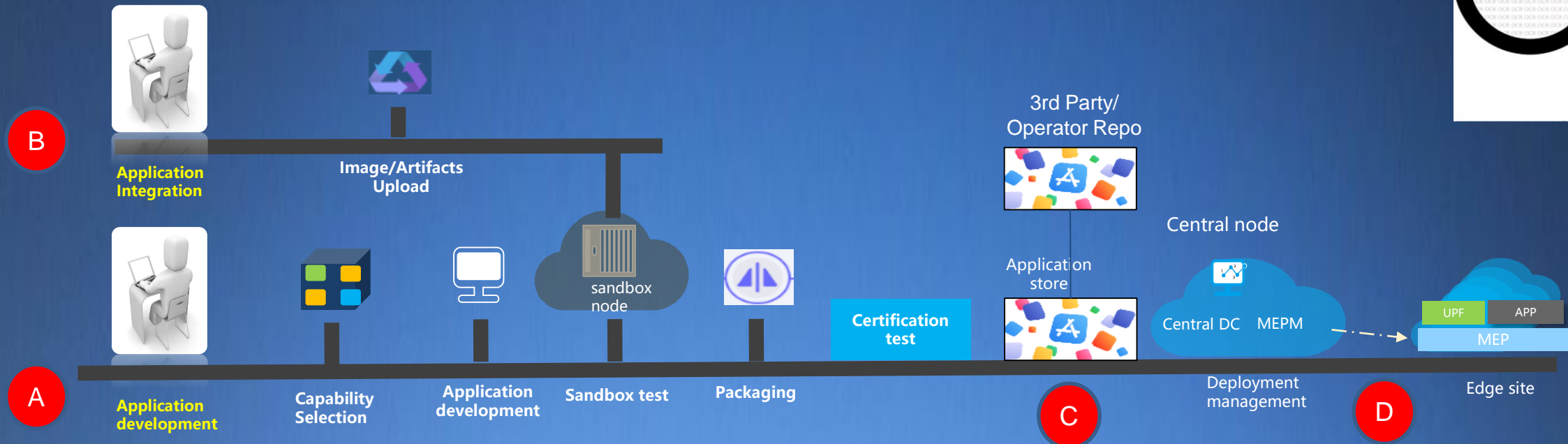
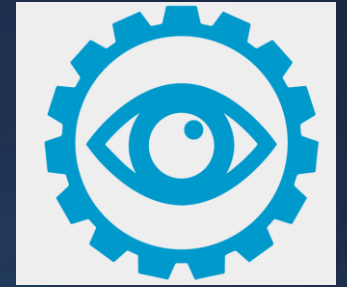
MEC App Repository: Unified App Package Format, Standardized API Between Operator App Store and MECM

MECM: Application orchestration, Application LCM, FCAPS, Policy driven closed Loop



Demo

- A. Sample Edge app Development
- B. Vendor Edge App Integration
- C. Edge App Federation
- D. Edge App Instantiation & Termination





Version 1.2 Version 1.1 Version 1.0

X86			ARM		
V1.2 Evergreen Release Date: July 7, 2021			V1.2 Evergreen Release Date: July 7, 2021		
All	Edge	Controller	All	Edge	Controller
Download (4.7GB)	Download (2.2GB)	Download (3.7GB)	Download (4.4GB)	Download (2.2GB)	Download (3.3GB)

Note: all—installation package includes center side and edge side installation package; edge—only includes edge side installation package (edge side installation package includes mepm, mep module); controller—only includes center side installation package (center side installation package) Including appstore, developer, mecm, atp modules)

Thank you.

<https://www.edgegallery.org/en/software-download-2/>

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