

The Standards People



Insights for Edge Software Developers



Presented by: Robert Gazda For: everyone Senior Director, InterDigital; ETSI ISG MEC Delegate; Episode #11 – Creating New MEC Services

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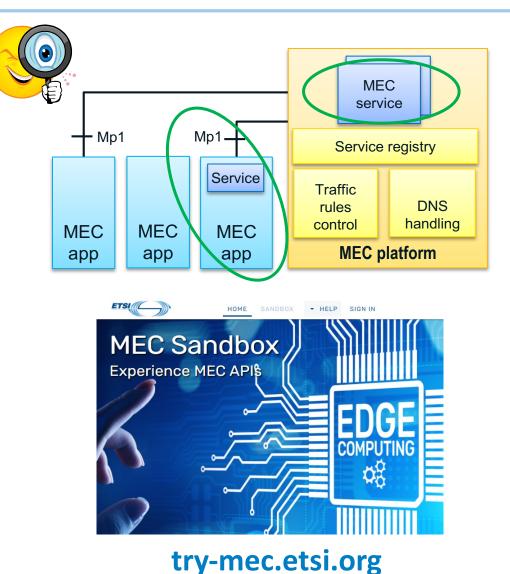
& the ETSI MEC Sandbox



In this episode ...

We will learn:

- How a MEC app can offer New MEC Services within a MEC System
- How a New MEC Service can be exposed to and utilised by other MEC Apps in the MEC System
- Capabilities available in the MEC Sandbox to advertise, discover, and consume New MEC Services

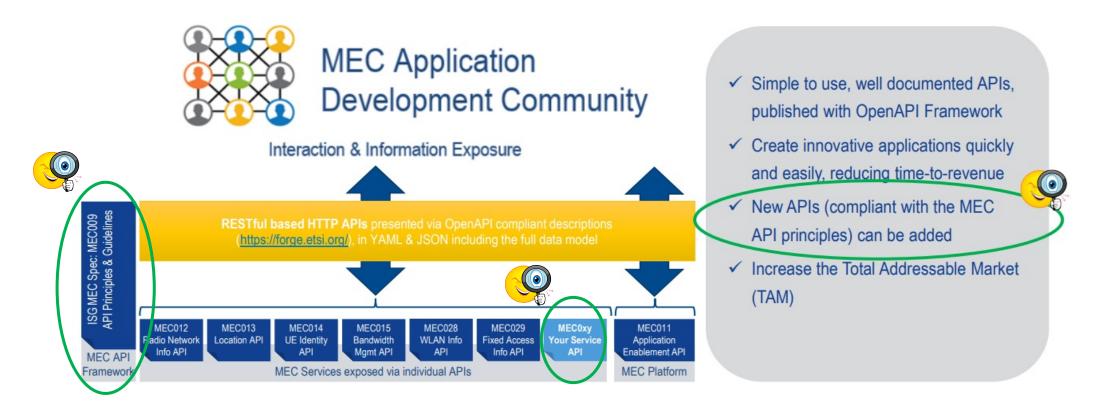


1 – Extending MEC with new MEC Service APIs



MEC Services: value-added capabilities to enable MEC applications

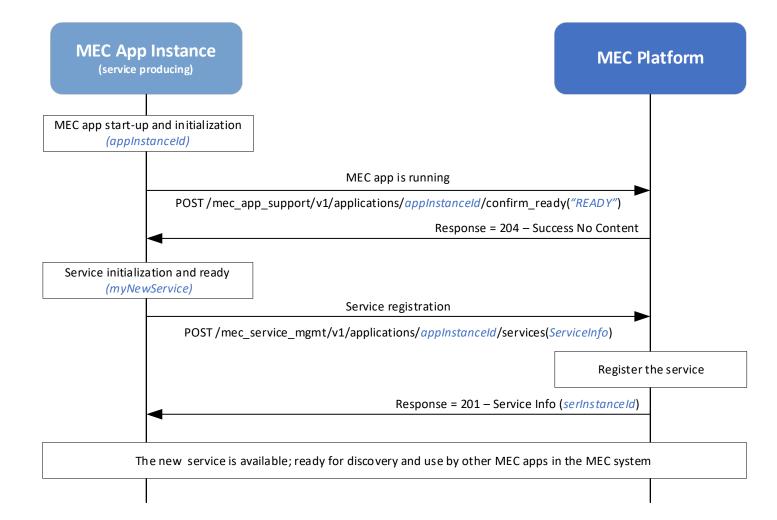
- "Built-in" MEC standardized services provided via the MEC Platform.
- MEC applications can offer new MEC Services APIs, extending the MEC system



2 – MEC App exposing a New MEC Service

New Service Registration:

- MEC application initializes and confirms it is ready to the MEC Platform (MEP)
- MEC app prepares its new service API
- MEC app registers the new service with the MEP, providing Service Information
- MEP registers the service and allocates a service instance
- The New MEC Service is now available for other MEC Apps in the MEC system



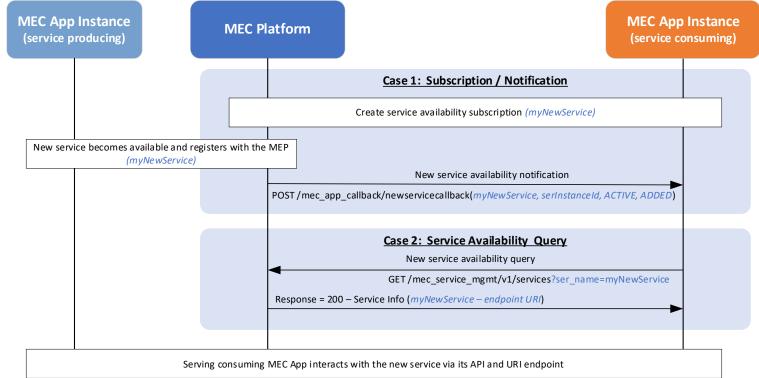




3 – MEC App discovering a new MEC Service

New MEC Service Discovery:

- Case 1: Subscription / Notification
 - Service consuming MEC App creates a Service Availability Subscription
 - When the new service registers and becomes available, the MEP issues a Service Availability Notification, indicating the New Service is available
- Case 2: Service Availability Query
 - Service consuming MEC App issues a service availability query to the MEP
 - MEP responds with the new service's information, including it's URI endpoint.
- MEC app utilises the New MEC
 Service via it's API and endpoint



4 – MEC Sandbox: Service Enablement Capability



Step 1. Preparation

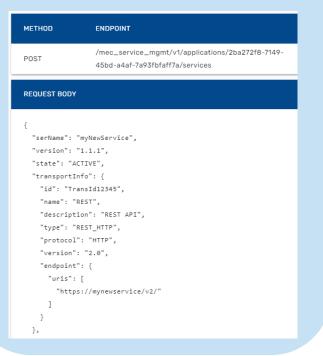
- Select a configuration from the Sandbox Simulated Network options
- Create new MEC app instance IDs
- POST "confirm ready" indications

	Configuration
	Simulated Network 4g-5g-wifi-macro
	Pause
	Stationary UE _ 1/4 +
	Low Velocity UE _ 1 / 4 +
	High Velocity UE _ 1 / 4 +
	MEC App. Instance IDS NEW DELETE
	mec015-1 running on mep1 ID: 81c51643-8c6f-4781-ad45-f8a457ca549b
)	ServiceProducingApp running on mep1 ID: 2ba272f8-7149-45bd-a4af-7a93fbfaff7a
•	ServiceConsumingApp running on mep1 ID: 76798f42-8bdd-41b0-a962-498d7c2c453f

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<u>Step 2</u>. Service Registration – *Producing MEC App*

- POST to /mec_service_mgmt./.../services to register the new service
- Input : App Instance Id, Service Info
- Response code = 201 on success



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<u>Step 3</u>. Service Query – *Consuming MEC App*

- Get /mec_service_mgmt./... /services?ser_name=myNewService
- Response code = 200 on success
- Service Info includes the endpoint to access the new service

METHOD	ENDPOINT
GET	/mec_service_mgmt/v1/services? ser_name=myNewService
REQUEST BOD	
RESPONSE BOI	יעכ
[
{	
{ serInst;	anceId": "51f43a3e-21e3-403c-800e-b207499e40d9",
{ "serInsta "serName"	": "myNewService",
{ "serInst; "serName" "version"	": "myNewService", ": "1.1.1",
{ "serInsta "serName" "version" "state":	": "myNewService",
{ "serInst, "serName" "version" "state": "transpo	": "myNewService", ": "1.1.1", "ACTIVE",
{ "serInsta "serName" "version" "state": "transpo "id":	": "myNewService", ": "1.1.1", "ACTIVE", rtInfo": {





What we have learnt:

- What are MEC Services and how MEC apps can offer new MEC Services
- How a MEC app can register or discover a new MEC Service
- How to use the ETSI MEC Sandbox experiment and enable new MEC services

Interested to learn more?



- Visit the MEC Sandbox and give it a try: <u>https://try-mec.etsi.org/</u>
- Learn more about the MEC Service Enablement APIs in <u>Episode 3 -</u> <u>Edge enablement APIs</u>
- Follow for the <u>next episodes of the MEC TECH Series</u> 😳





Enjoy the



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