Insights for Edge Software Developers

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For: everyone

Episode #11 – Creating New MEC Services & 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
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

- Simple to use, well documented APIs, published with OpenAPI Framework
- Create innovative applications quickly and easily, reducing time-to-revenue
- New APIs (compliant with the MEC API principles) can be added
- Increase the Total Addressable Market (TAM)
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

**Step 2. 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

**Step 3. 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

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Conclusions and further resources

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: https://try-mec.etsi.org/
• Learn more about the MEC Service Enablement APIs in Episode 3 - Edge enablement APIs
• Follow for the next episodes of the MEC TECH Series 😊