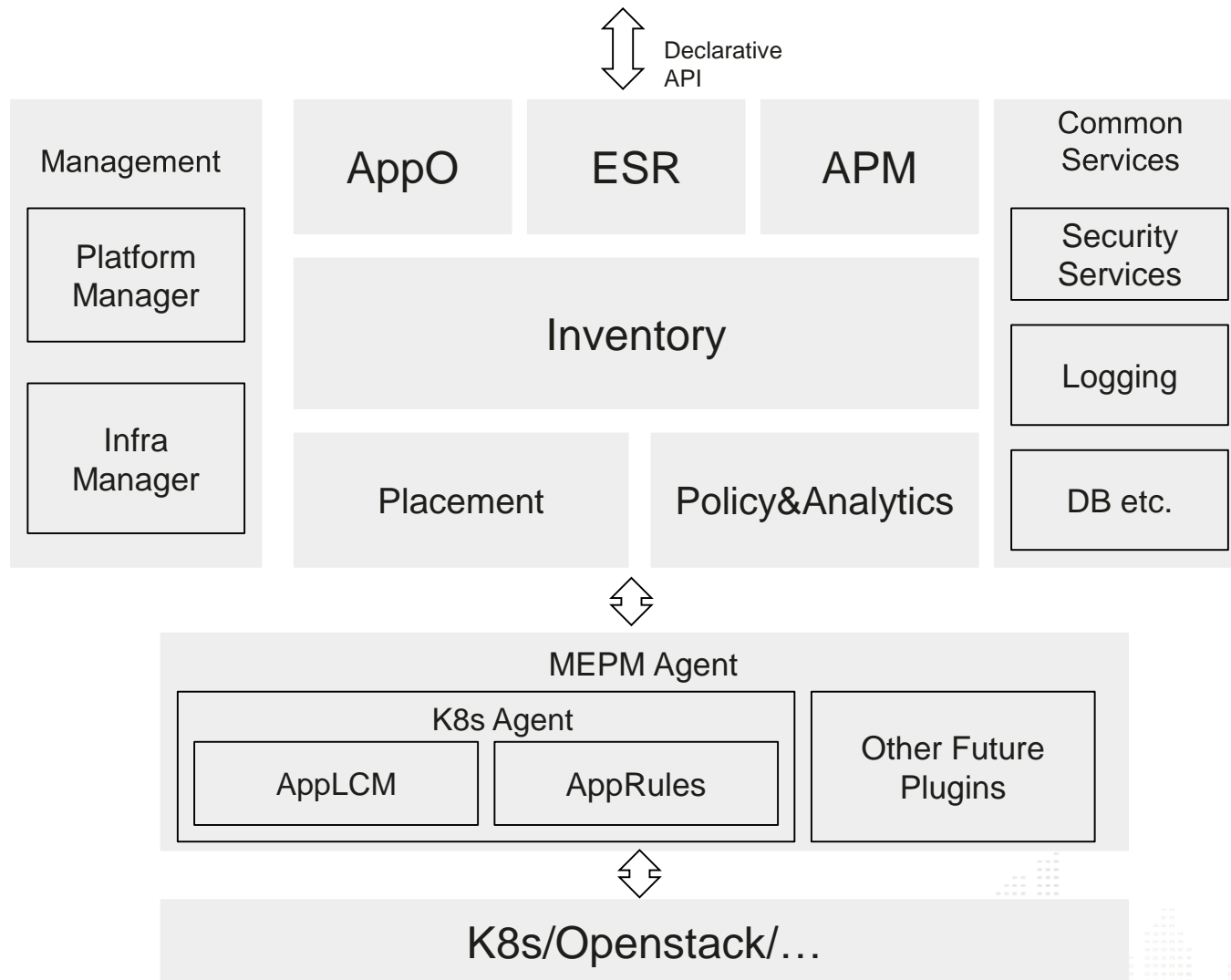


# MECM API接口汇总



# Final Architecture



\*Slice Management & Traffic Steering is left to 5G core controllers (could be added here if this assumption changes)

\*OPG related requirement would be worked out once OPG specification are clear.

## AppO

- ♦ Application orchestrator is the core module responsible for orchestrating life cycle maintenance operation of application.

## ESR

- ♦ External system registry responsible for external system registrations like MEC Host, AppLCM, AppStore etc.

## APM

- ♦ Application package manager responsible for application package management including Onboarding, distributing package to edge etc.

## Placement

- ♦ Implements Dynamic Host selection Logic, could also be policy driven.

## Policy&Analytics

- ♦ Provide policy to take action based on analytics like application relocation.

## Inventory

- ♦ Active & available inventory of
  - ♦ Edge Capabilities & Properties
  - ♦ Applications

## Management

- ♦ Handles Deployment & Management for MECM & Edges including:
  - ♦ Bare metal
  - ♦ Kubernetes Cluster
  - ♦ Platform

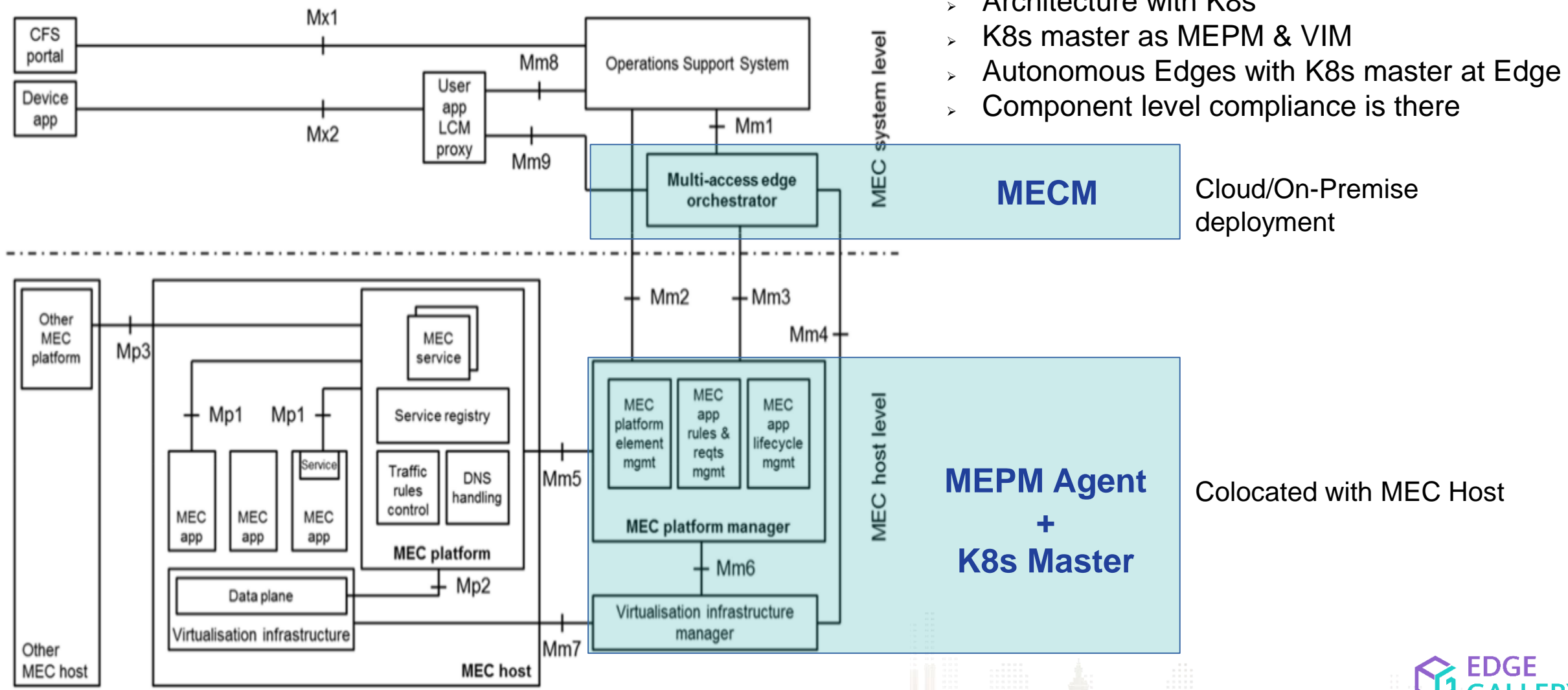
## Common Services

Common services for all components including security, logging, DB etc.

## MEPM Agent

Agent to handle AppLCM & Application rules & management related tasks for a specific Edge along with MEPM.

# ETSI Alignment



- Architecture with K8s
- K8s master as MEPM & VIM
- Autonomous Edges with K8s master at Edge
- Component level compliance is there

Figure 6-1: Multi-access edge system reference architecture

# MEO

方法	URL	功能	备注
POST	/mec/{version}/mgmt/tenant/{tenant_id}/app_instance	创建APP实例	
GET	/mec/{version}/mgmt/tenant/{tenant_id}/app_instance/{app_instance_id}	根据app实例ID查询应用实例	
POST	/mec/{version}/mgmt/tenant/{tenant_id}/app_instance/{app_instance_id}	实例化APP实例	
DELETE	/mec/{version}/mgmt/tenant/{tenant_id}/app_instance/{app_instance_id}	删除APP实例	
GET	/mec/{version}/mgmt/tenant/{tenant_id}/hosts/{hostIp}	查询边缘节点信息	
GET	/mec/{version}/mgmt/tenant/{tenant_id}/hosts/{hostIp}/mep-capabilities	查询边缘节点MEP的能力信息	
GET	/mec/{version}/mgmt/tenant/{tenant_id}/hosts/{hostIp}/node-applist	查询边缘节点应用实例列表	

# APP Package Management

方法	URL	功能	备注
GET	/packageresource/{appPkgId}	根据包id查询包信息	
GET	/tenant/{tenant}/package	查询租户应用包列表	
GET	/tenant/{tenant}/package/{appPkgId}	根据包id查询包信息	
POST	/tenant/{tenant}/package/{appPkgId}	上传应用包	
DELETE	/tenant/{tenant}/package/{appPkgId}	删除应用包	
DELETE	/tenant/{tenant}/package/{appPkgId}/host/{hostIp}	删除某个边缘节点上的应用包	

# APPLCM

方法	URL	功能	备注
GET	/mec/v1/applcm/app_instance/{app_instance_id}	查询app实例	
POST	/mec/v1/applcm/app_instance/{app_instance_id}	实例化应用	
POST	/mec/v1/applcm/host/{host_ip}/k8sconfig	上传k8s配置信息	
GET	/mec/v1/applcm/tenant/{tenant_id}/hosts/{host_ip}/mep-capabilities	查询边缘节点能力信息	
GET	/mec/v1/applcm/tenant/{tenant_id}/hosts/{host_ip}/node-applist	查询边缘节点的应用列表	
GET	/mec/v1/mgmt/tenant/{tenant_id}/hosts/{host_ip}/node-kpi	查询边缘host的KPI	

APPStore外部系统

方法	URL	功能	备注
POST	/tenant/{tenant_id}/appstore	新建appstore外部系统	
PUT	/tenant/{tenant_id}/appstore	更新appstore外部系统	
GET	/tenant/{tenant_id}/appstores	查询appstore外部系统	
DELETE	/tenant/{tenant_id}/appstores	删除appstore外部系统	
GET	/tenant/{tenant_id}/appstores/{appstoreid}	单个查询	
DELETE	/tenant/{tenant_id}/appstores/{appstoreid}	单个删除	

applcm外部系统

方法	URL	功能	备注
POST	/tenant/{tenant_id}/applcm	新建applcm外部系统	
PUT	/tenant/{tenant_id}/applcm	更新applcm外部系统	
GET	/tenant/{tenant_id}/applcms	查询applcm外部系统	
DELETE	/tenant/{tenant_id}/applcms	批量删除applcm外部系统	
GET	/tenant/{tenant_id}/applcms/applcm/{applcmid}	单个查询applcm外部系统	
DELETE	/tenant/{tenant_id}/applcms/applcm/{applcmid}	单个删除applcm外部系统	

# ESR

## APPStore外部系统

方法	URL	功能	备注
POST	/tenant/{tenant_id}/host	新建MEC边缘节点外部系统	
PUT	/tenant/{tenant_id}/host	更新MEC边缘节点外部系统	
GET	/tenant/{tenant_id}/hosts	查询MEC边缘节点外部系统	
DELETE	/tenant/{tenant_id}/hosts	删除MEC边缘节点外部系统	
GET	/tenant/{tenant_id}/hosts/host/{ip}	单个查询MEC边缘节点外部系统	
DELETE	/tenant/{tenant_id}/hosts/host/{ip}	单个删除MEC边缘节点外部系统	

## heathcheck

方法	URL	功能	备注
GET	/mec/v1/mgmt/esr/health_check	ESR系统健康检查	



Thank you.

