

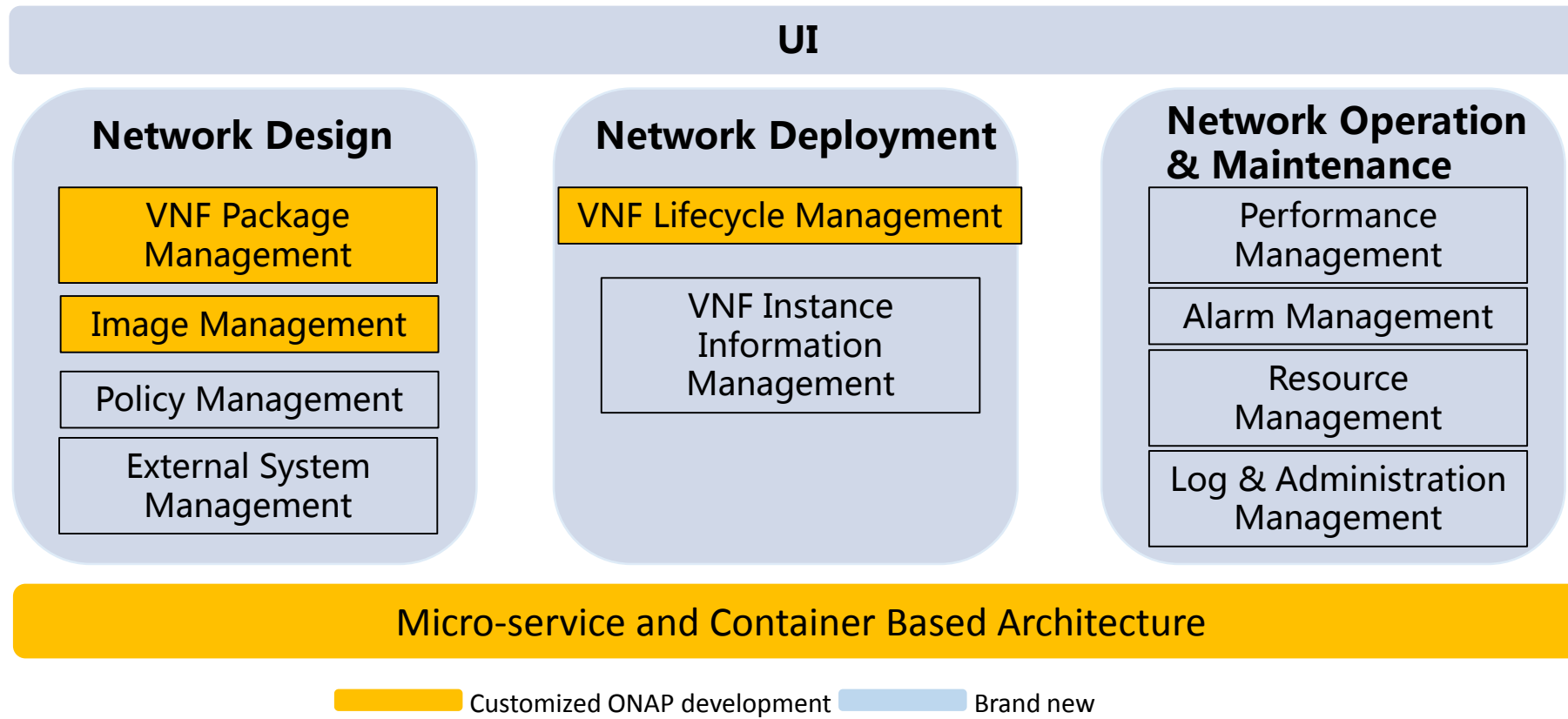


ONAP Real-World Trial ——NFVO Orchestrator

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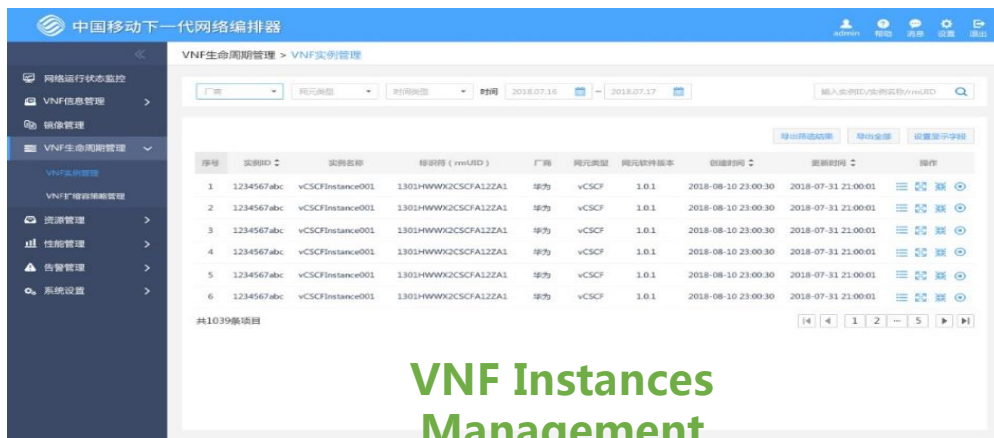
CMCC NFVO Functional Framework

NFVO develops UI and various functions of FCAPS in combination with the features of NFV network management, and has the Devops characteristics of open and flexible architecture, fast deployment and upgrade.



CMCC NFVO Features

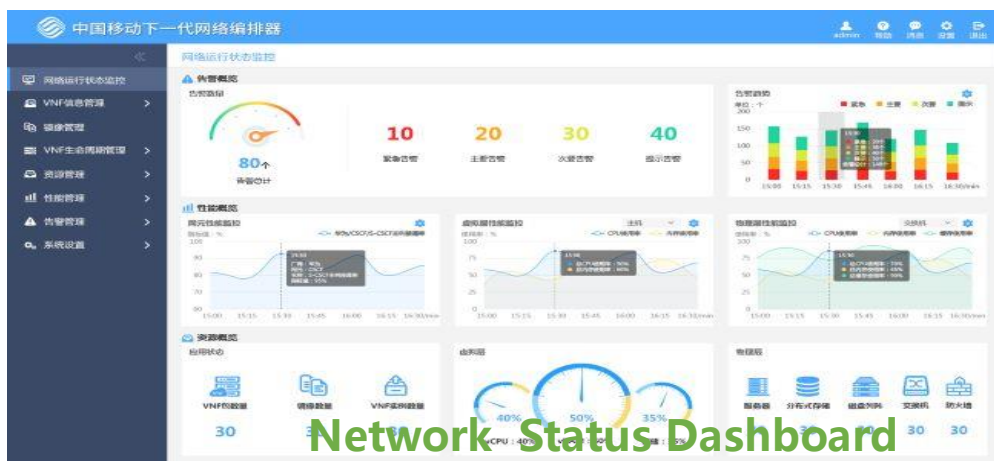
- Easy to finish VNF deployment, scaling, termination, etc.
- Ability to monitor resource changes, performance and failure status at all NFV network levels.



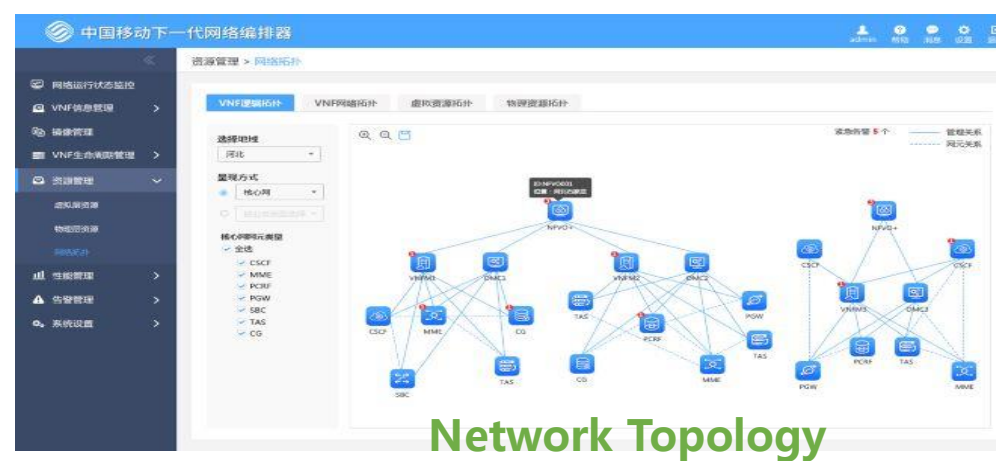
VNF Instances Management



Faults Monitoring



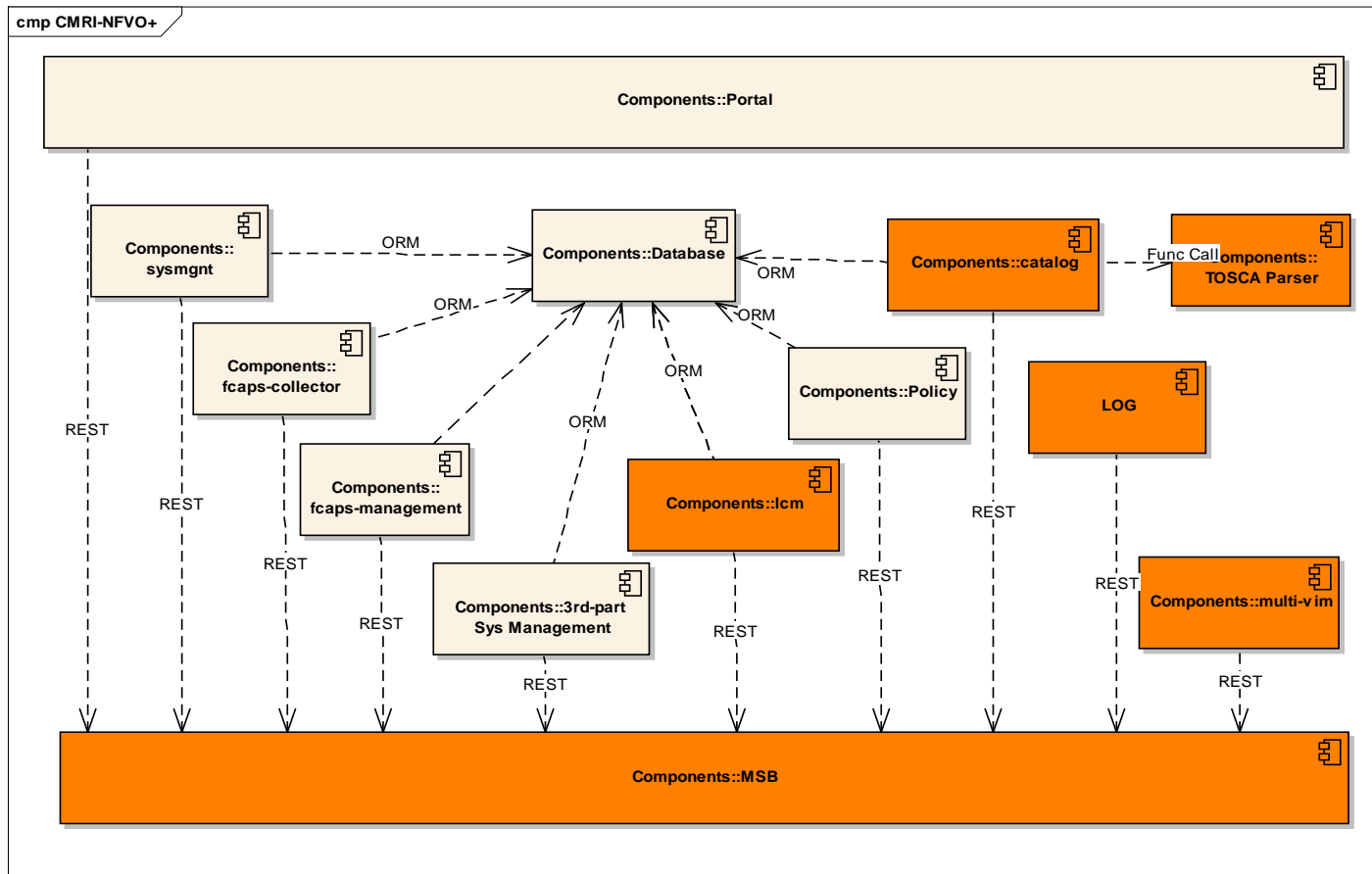
Network Status Dashboard



Network Topology

Technical Architecture

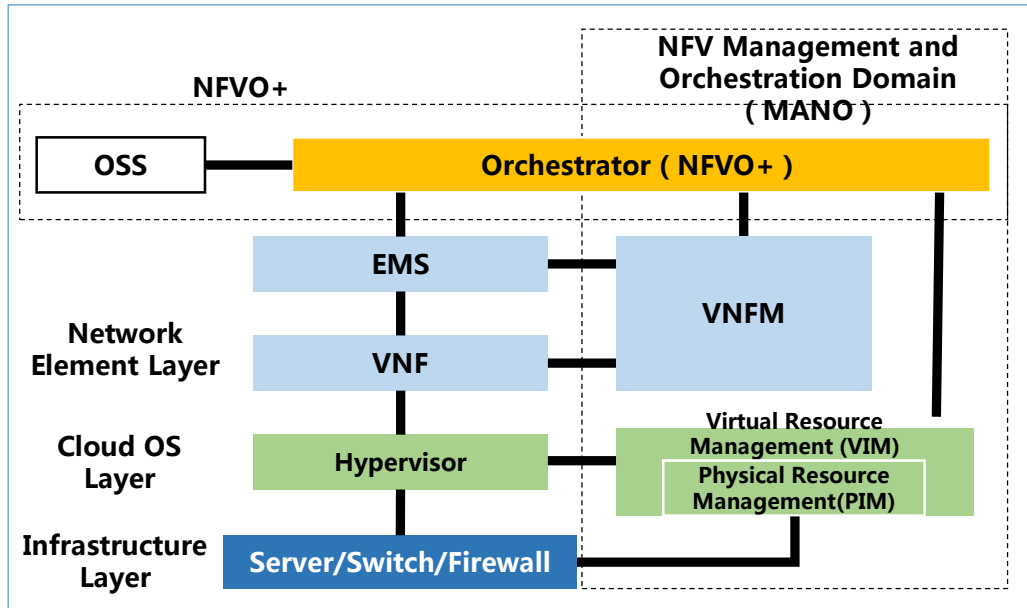
- Align with ONAP R2 achievement, combine community module with self-developed module.
- Introduce the functions of backup and load balance, database cluster and virtual IP to increase reliability.



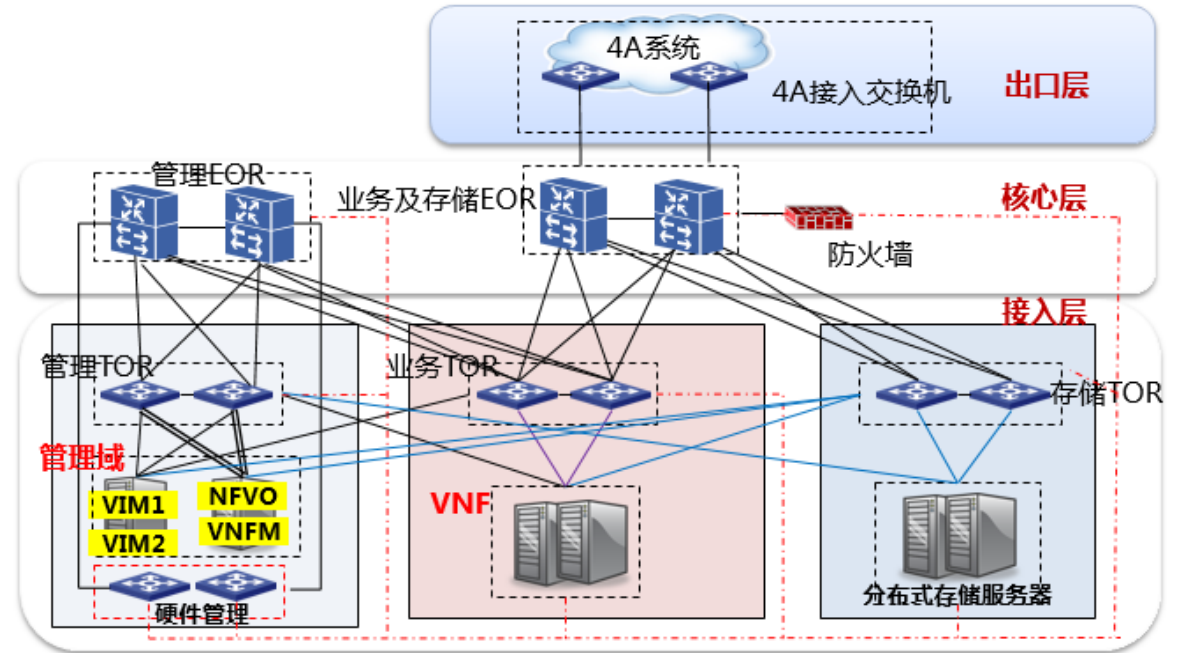
- Provide Restful APIs in Web Service mode (except TOSCA Parser components);
- Component independence
- Micro-service bus function
- Ability to integration with other micro-service management and control platform
- Decomposable and integral micro-service integration

Deployment Testing

- Network Element Layer、Cloud OS Layer、Infrastructure Layer are decoupled from each other;
- Has passed tests of network element lifecycle management;
- Verification of other performances is in progress.

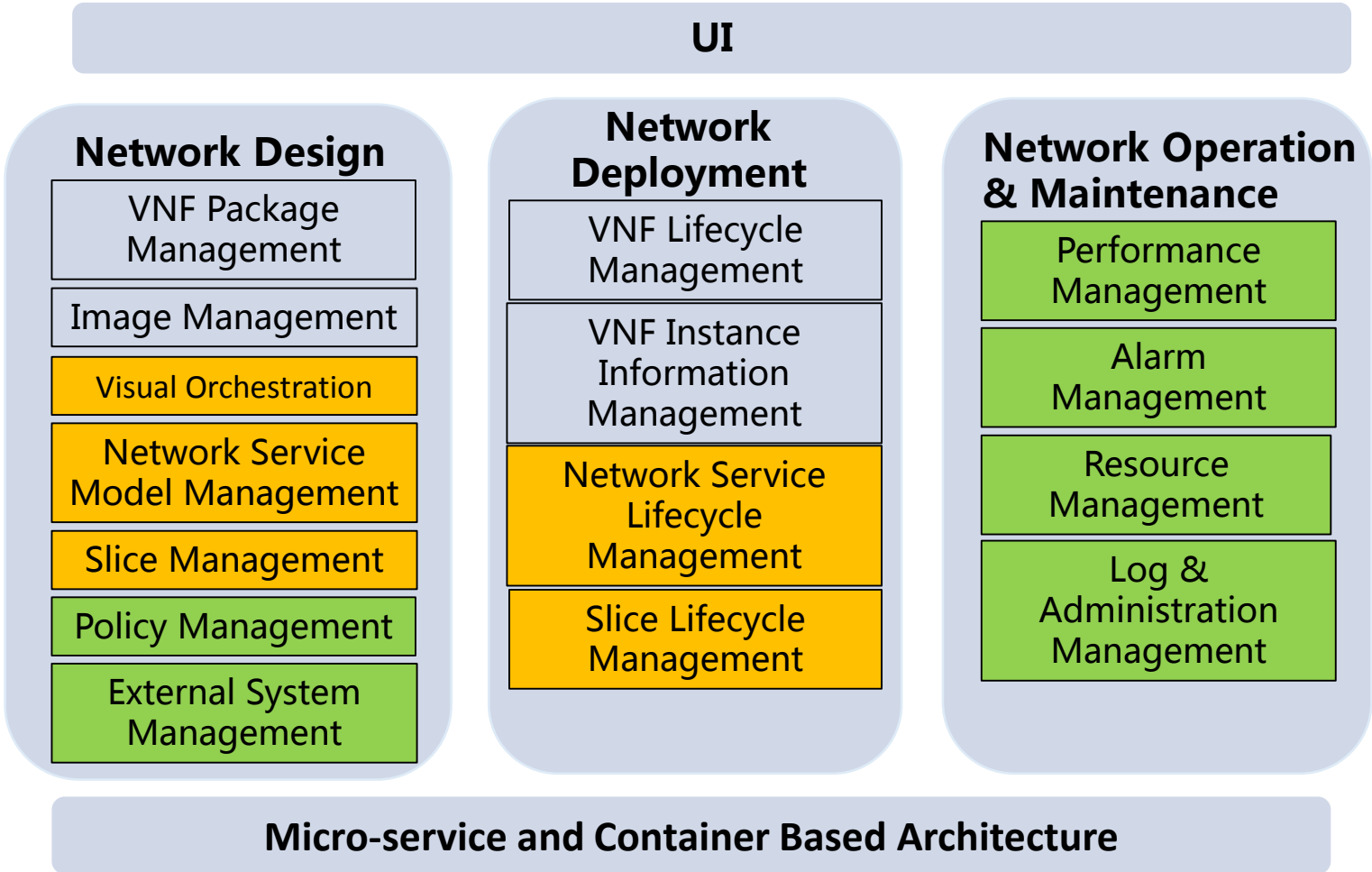


Testing System



Testing Network

Future Plan: Towards 5G Function



Future Plan for NFVO+ Orchestrator Architecture

Light blue box: V 1.0 Already have

Yellow box: Brand new towards 5G

Green box: Enhancement towards 5G



ONAP

OPEN NETWORK AUTOMATION PLATFORM

Thank you!