



Workshop on Network Virtualization: Contribution to Orchestration issues group

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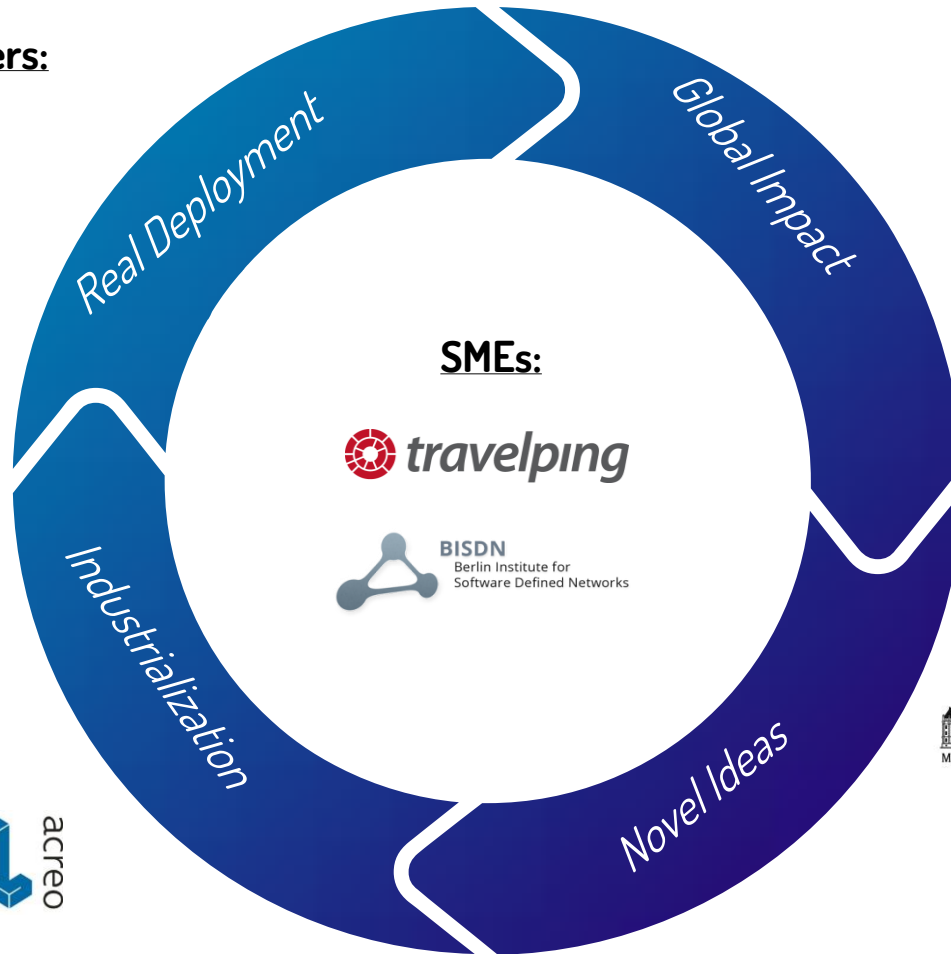
The UNIFY project (Nov 2013 – April 2016)



Major Service Providers:



Research Institutes:



Major Vendors:



Universities:



Project Management: **eict**

<http://www.fp7-unify.eu>

Unifying Cloud & Carrier Networks.

Why?

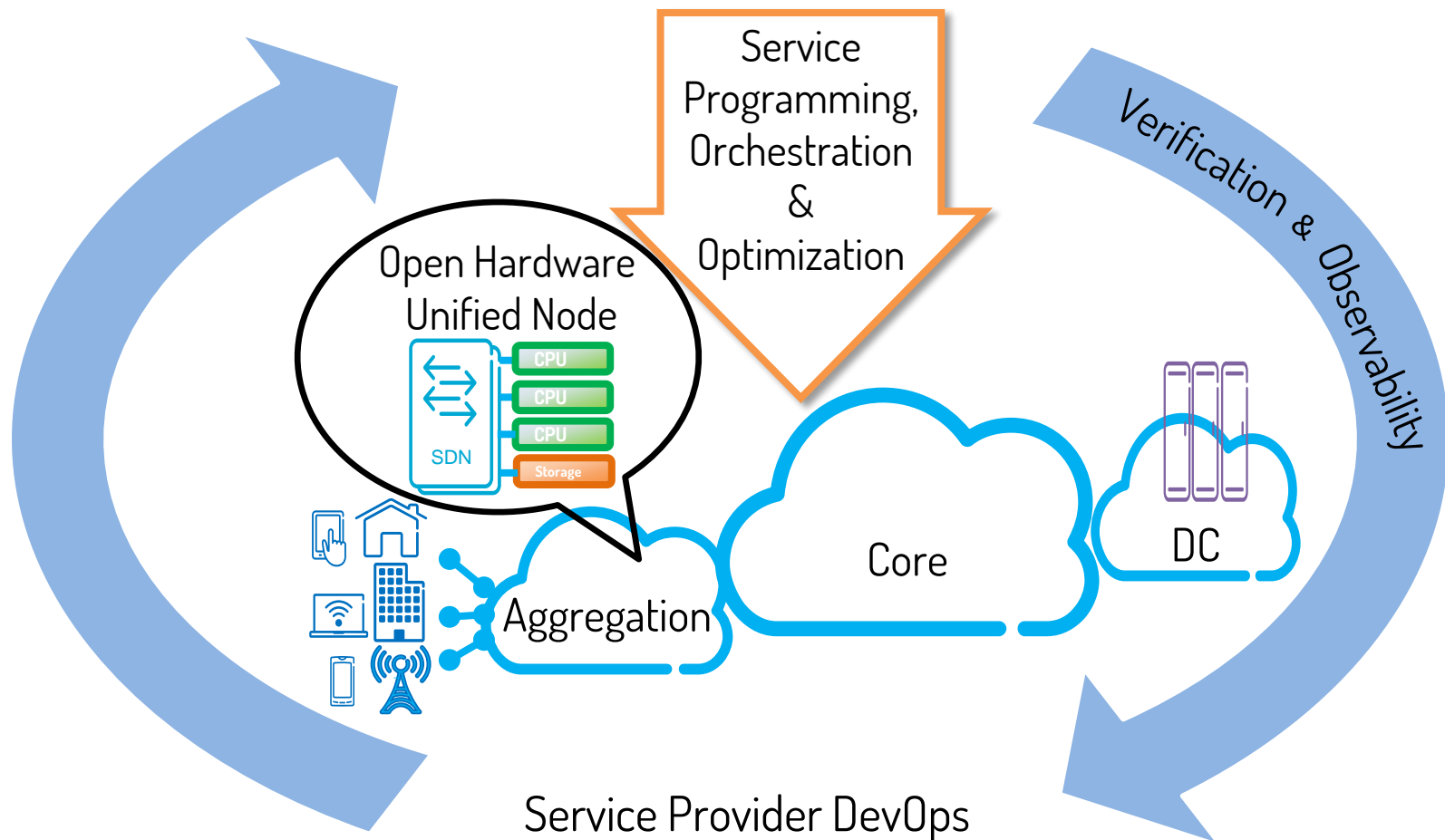
“Today, rigid network control limits flexibility of service creation.”

- Operators view: **agility** (velocity), **flexibility** (granularity), **simplicity** (automation), **scalability** (lower OPEX), **integration** (shareconomy)
- Users view: **quality** of experience, rapid **provisioning** of elastic services, on-demand **SLA** configuration & monitoring, “**Follow-me**” services

How to?

- Virtualization of networks and network functions (NFV)
- Programmability (services and nodes)
- Dynamic service chaining
- COTS node (universal node)
- Service Provider DevOPs

VISION: FLEXIBLE, AUTOMATED SERVICE PROGRAMMABILITY.



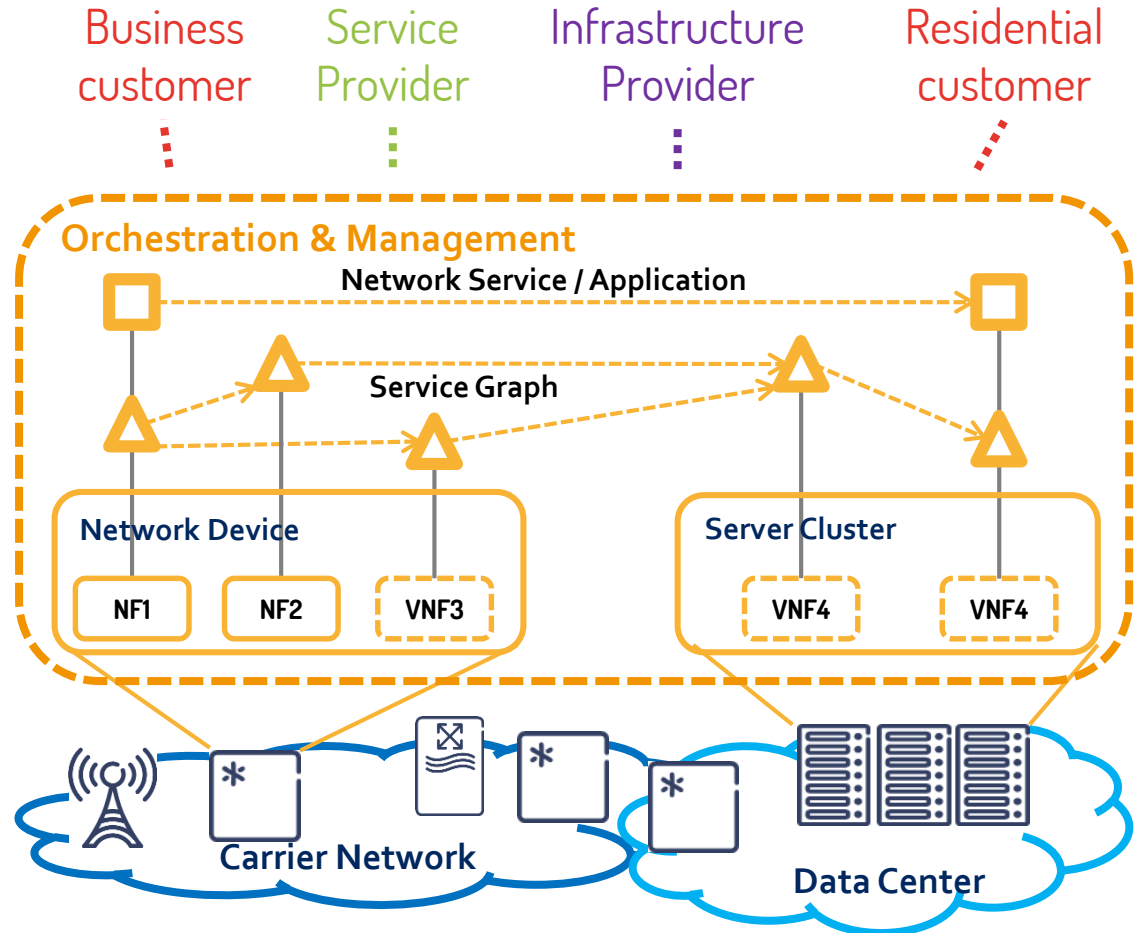
Overview Use Case Groups.



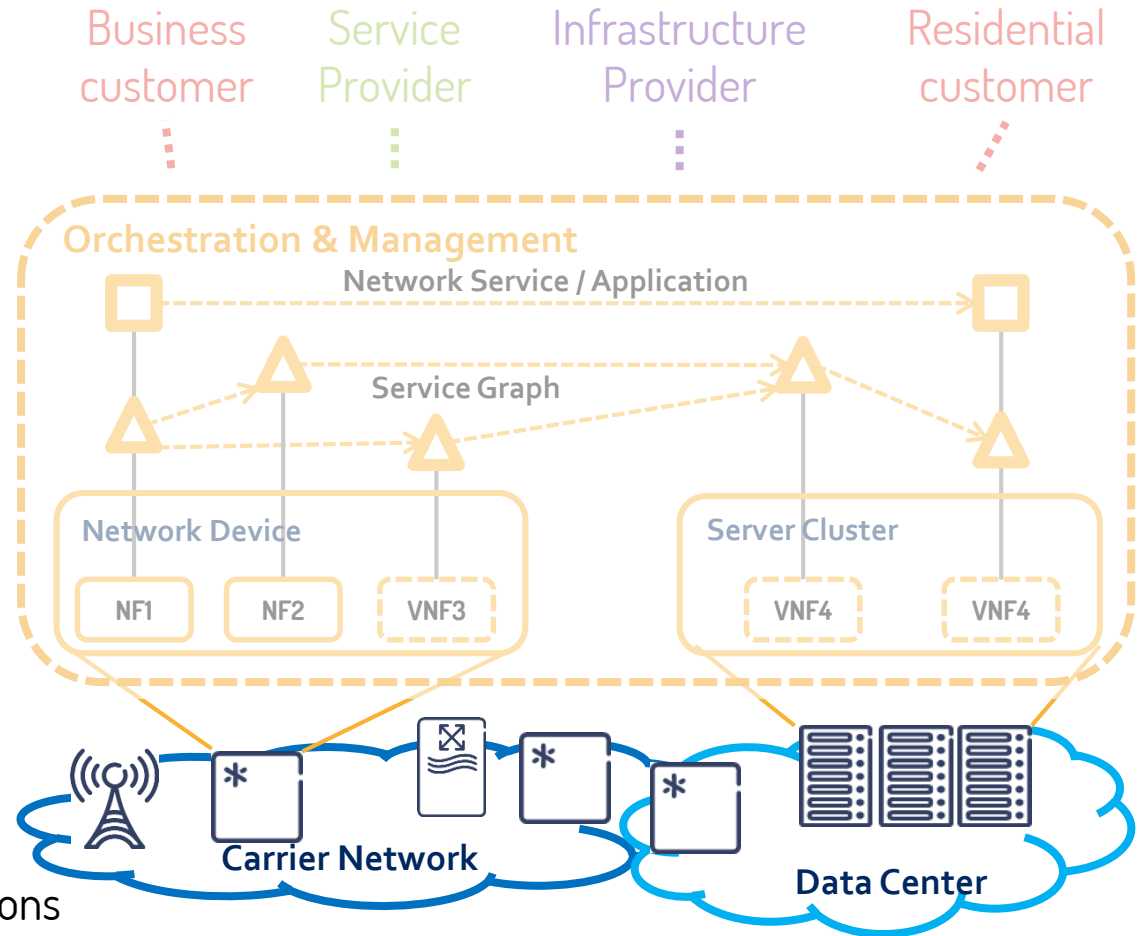
UC Group3:
Invocation of Dynamic
Service Chains

UC Group2:
Dynamic Service Chains

UC Group1:
Infrastructure Virtualization



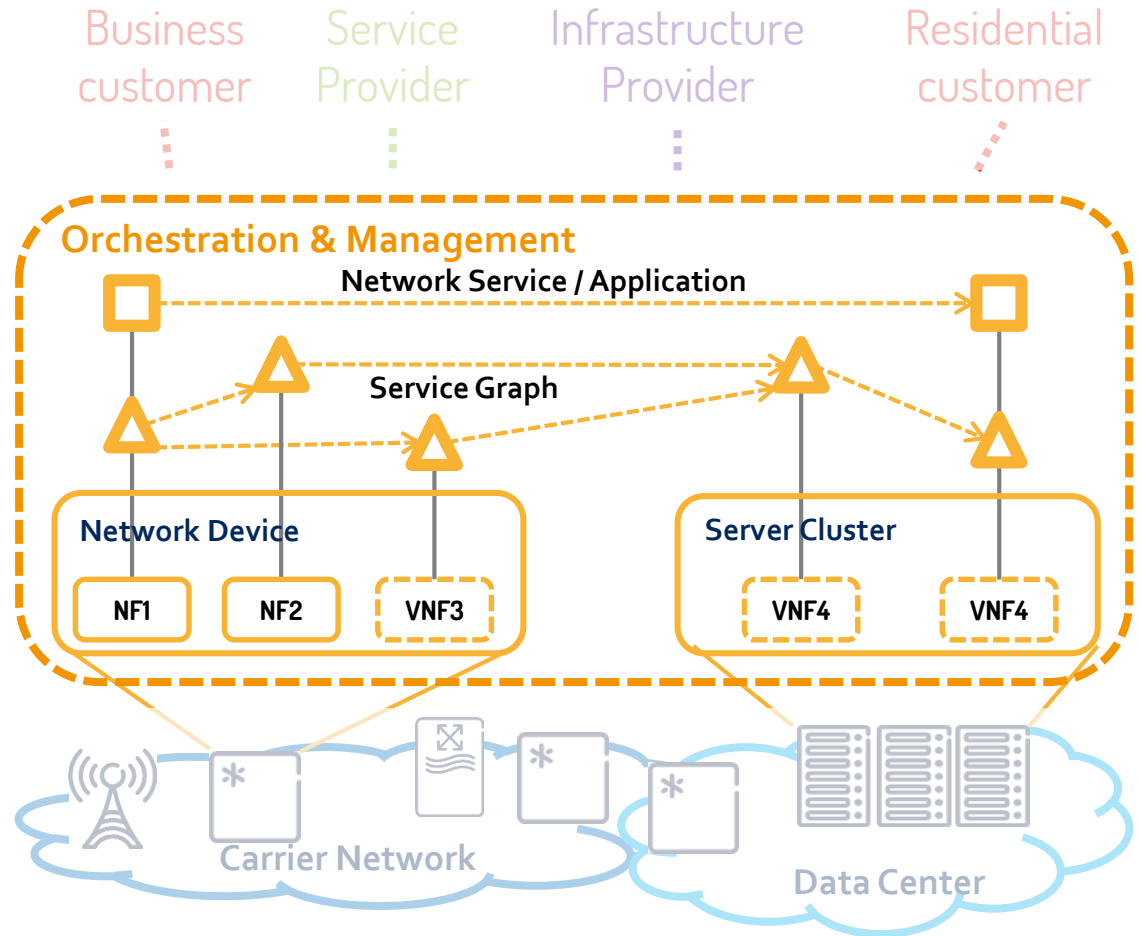
UCGroup1: Infrastructure Virtualization



- Generic hardware based on standard x86
- Instantiation of network functions

UC Group2: Dynamic Service Chains.

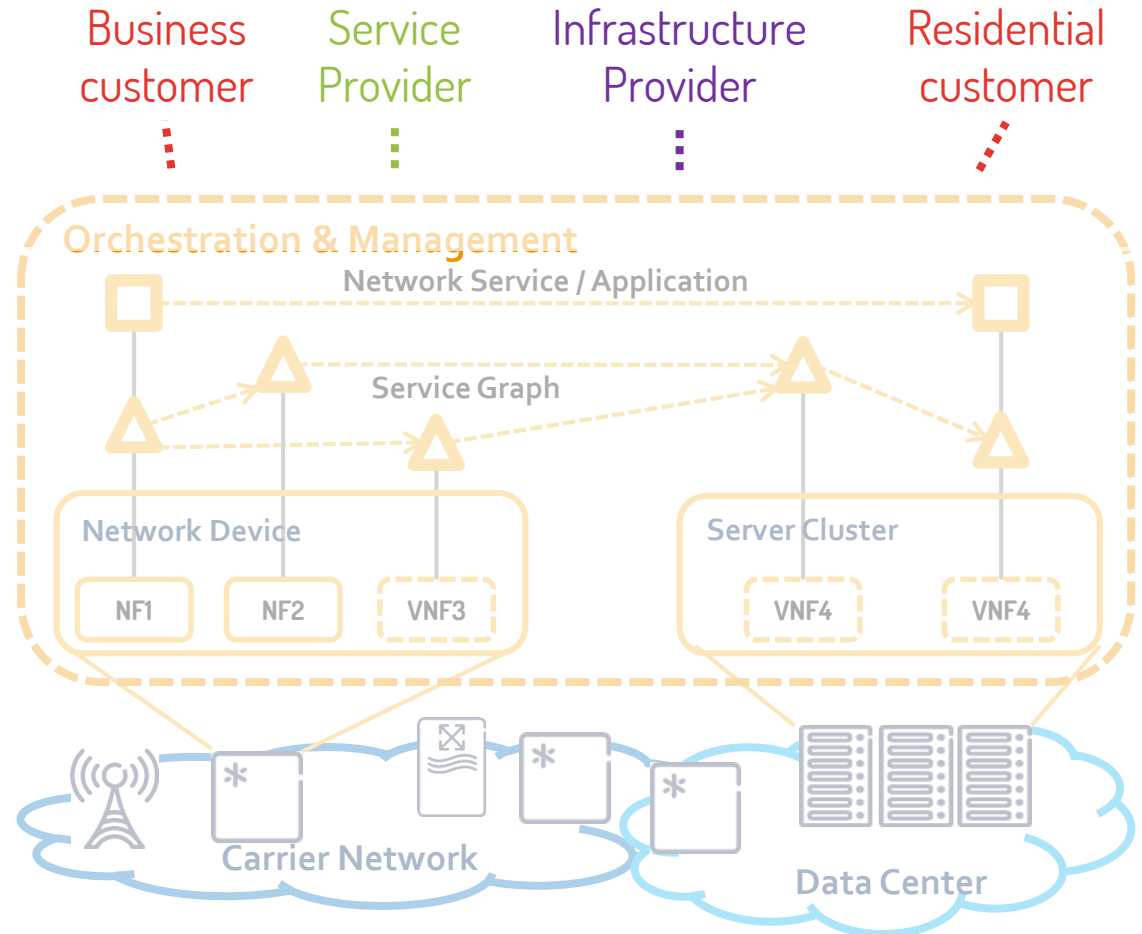
- Service graphs combining network functions
- Integration of existing and virtual network functions
- Abstraction allowing programmability



UC Group3: Invocation of Dynamic Service Chains



- Multi-provider support
- Self-Service support for end-customers



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