





# **SDN Solution Overview**

**Ericsson SDN Solution**



# Agenda

Market Opportunity

Solution Overview

Applications

Customer Benefits and Value

Summary

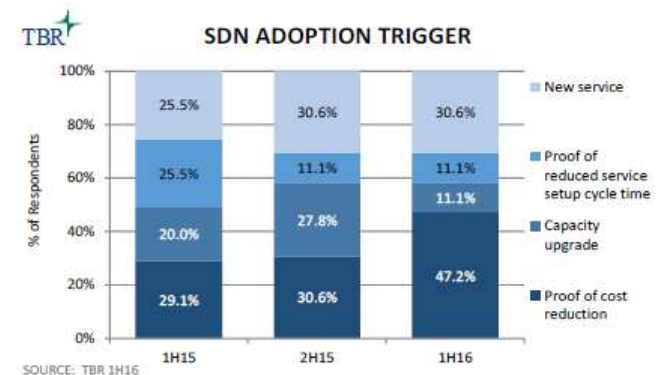
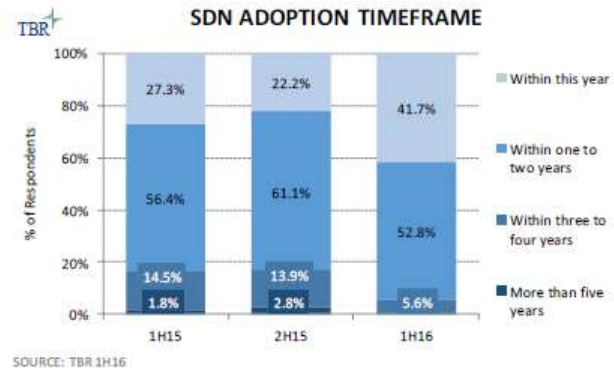
# Why operators deploy SDN

Need for programmable connectivity infrastructure to realize the full potential of NFV

New market verticals that can be addressed by bundling programmable connectivity with cloud based productivity applications

Addressing OPEX reductions through automation

New Features without changing underlying hardware



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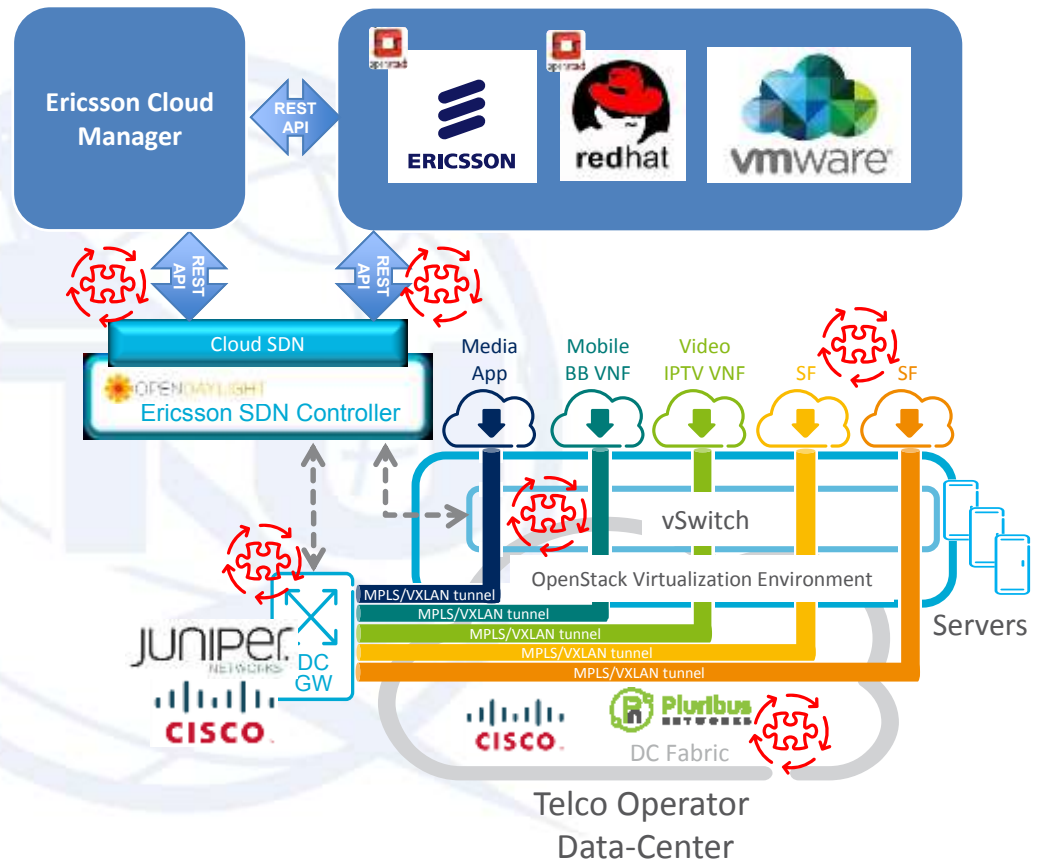
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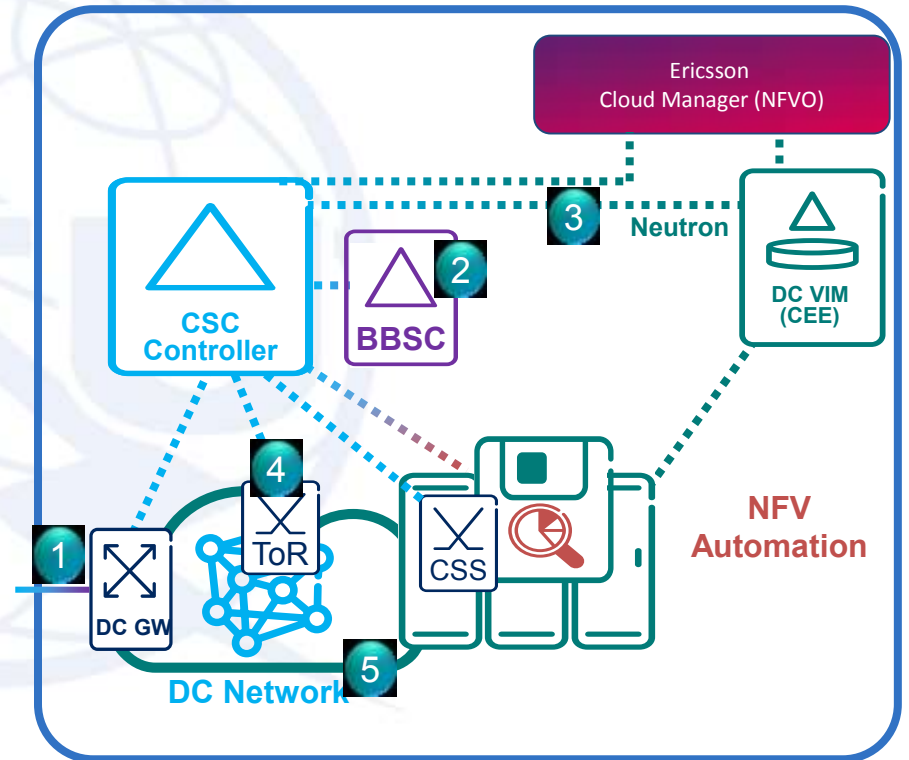
# Ericsson SDN

- 
 Opensource – Multi-vendor solution, any DC gateway or underlay
- 
 End to end data center automation
- 
 Virtualised Service Chaining for personalized services
- 
 Optimised and tested for high performance VNFs



# SDN controller

1. Multiple exterior network types supported
2. Granular Service Chains API's
3. Service Exposure to Openstack
4. Layer 2 gateway for SR-IOV support
5. IPv4 and IPv6 Networks







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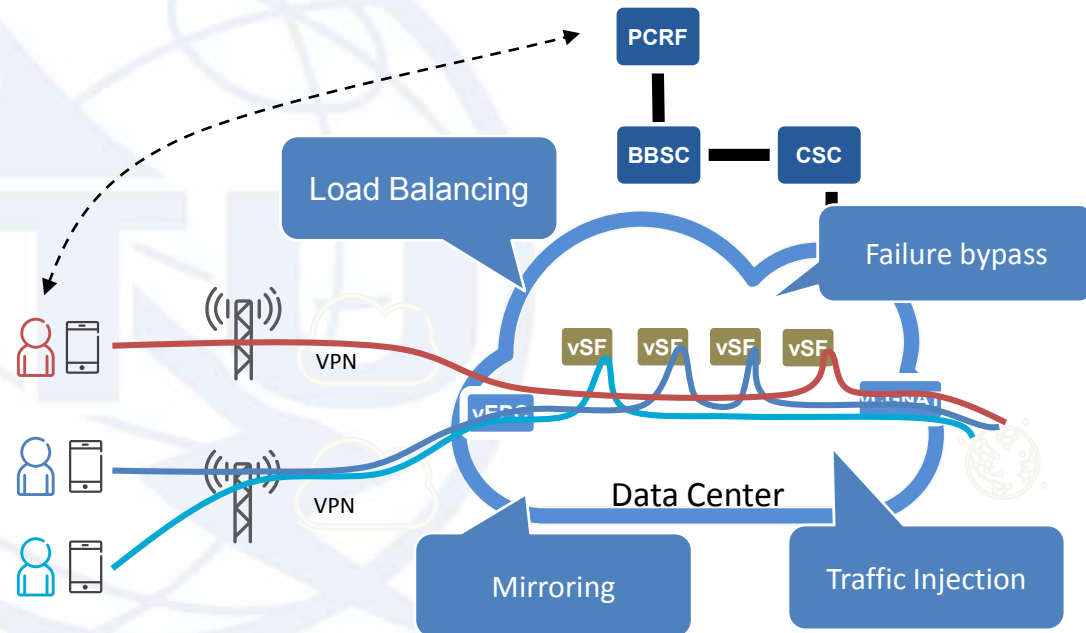
# Virtualized Service Chaining Benefits

## Business Benefits

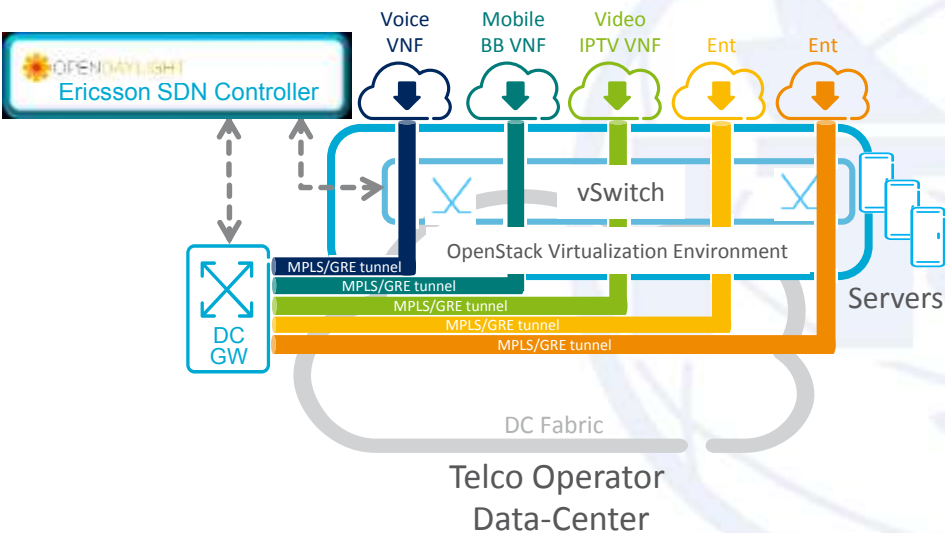
- Deployed on existing controller
- Policy interface for per subscriber control
- Carrier grade – includes load balancing and failure bypass features
- Does not require CGNAT at every DC – centralized model supported

## Key Features

- Quickly deploy service functions
- Ability to mirror traffic between service functions for troubleshooting / monitoring
- Able to load balance across multiple SF
- Traffic injection allows assurance of Service Chains



# Built for NFV



**Open** solution, tested with Ericsson's leading core applications

Realises the benefits of network automation for NFVi deployments for any size operator

Automates NFVi for telco core across multiple data centers, with multi-vendor DC gateway support for Juniper and Cisco routers

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# Service Provider Value

- 1 Optimize investment in virtual service functions  
Allows operators to **modulate their investment in SF's** by offering dynamic steering of traffic within the Datacenter
- 2 Automation and programmability  
SDN principles of **programming** the networking and **automating** the network operations
- 3 Pre-integrated with Ericsson end-to-end Solutions  
Cloud SDN base for **Dynamic Service Chaining, VHGW, VEGW**
- 4 Open, future-proof solution  
Based on Open Daylight, leverages open source development strengths
- 5 Aligned with Telco business needs  
**Seamless creation and management of services across WAN and Datacenter** is essential to stay relevant

# market SDN/NFV perception

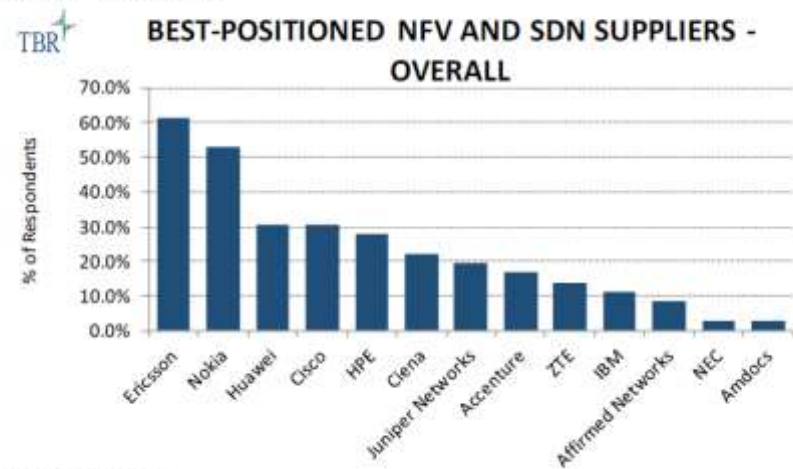
End to end solution lowers operator integration risk compared with multi-vendor solutions

Ability to leverage existing core assets with SDN/NFV is attractive

Experienced telecoms services organization key to successful deployment

Overall, Ericsson's comprehensive NFV and SDN portfolio translates into a favorable perception among Tier 1 operators

Supplier Ranking — NFV and SDN



SOURCE: TBR 1H16

