



Updates on ONOS/CORD Korean Open Source Communities

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OpenStack Day Korea

Agenda



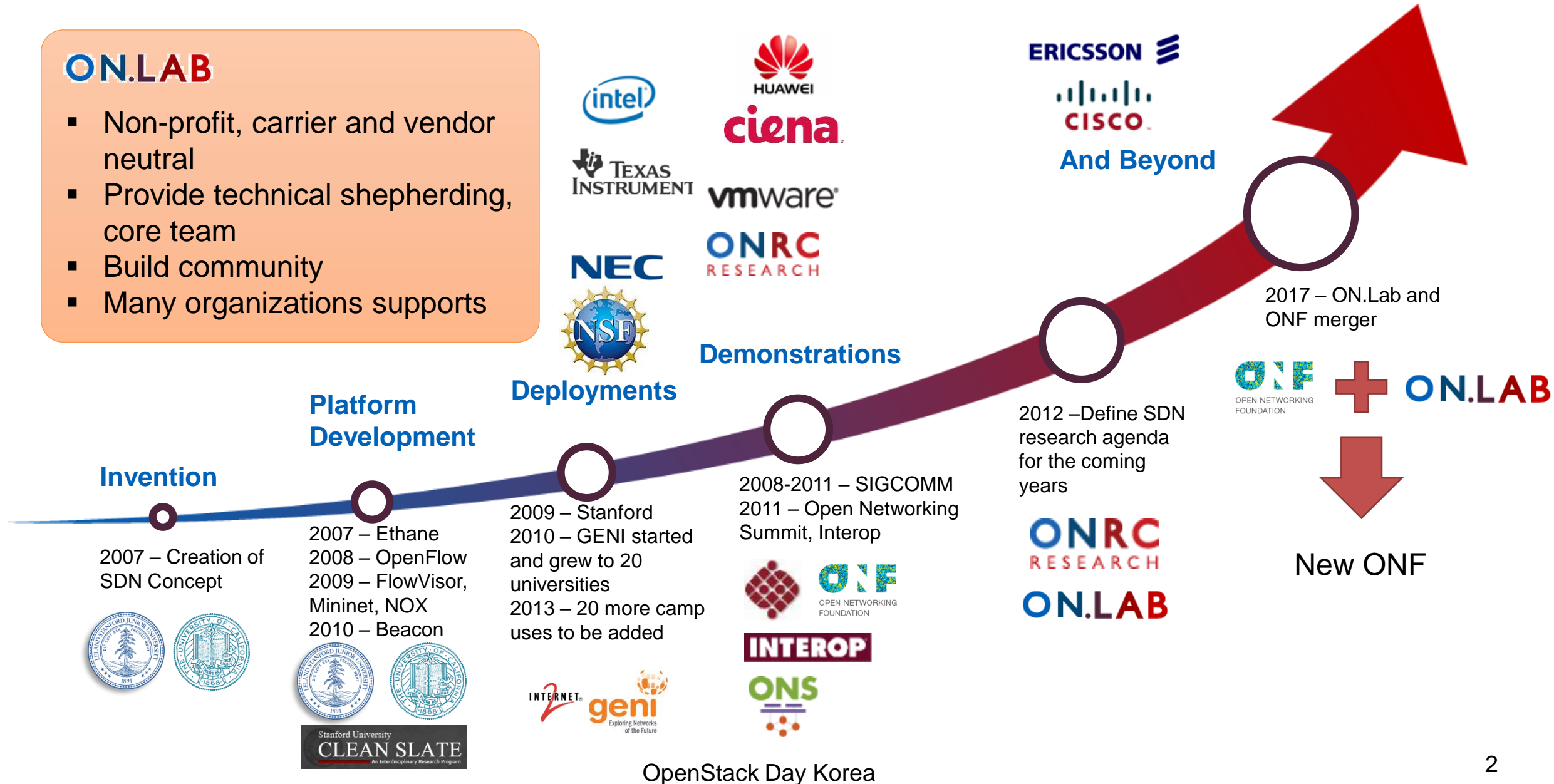
- SDN and ONF
- ONOS
- CORD
- ONOS/CORD Korean Community
- Upcoming Events

SDN Evolution and ONF

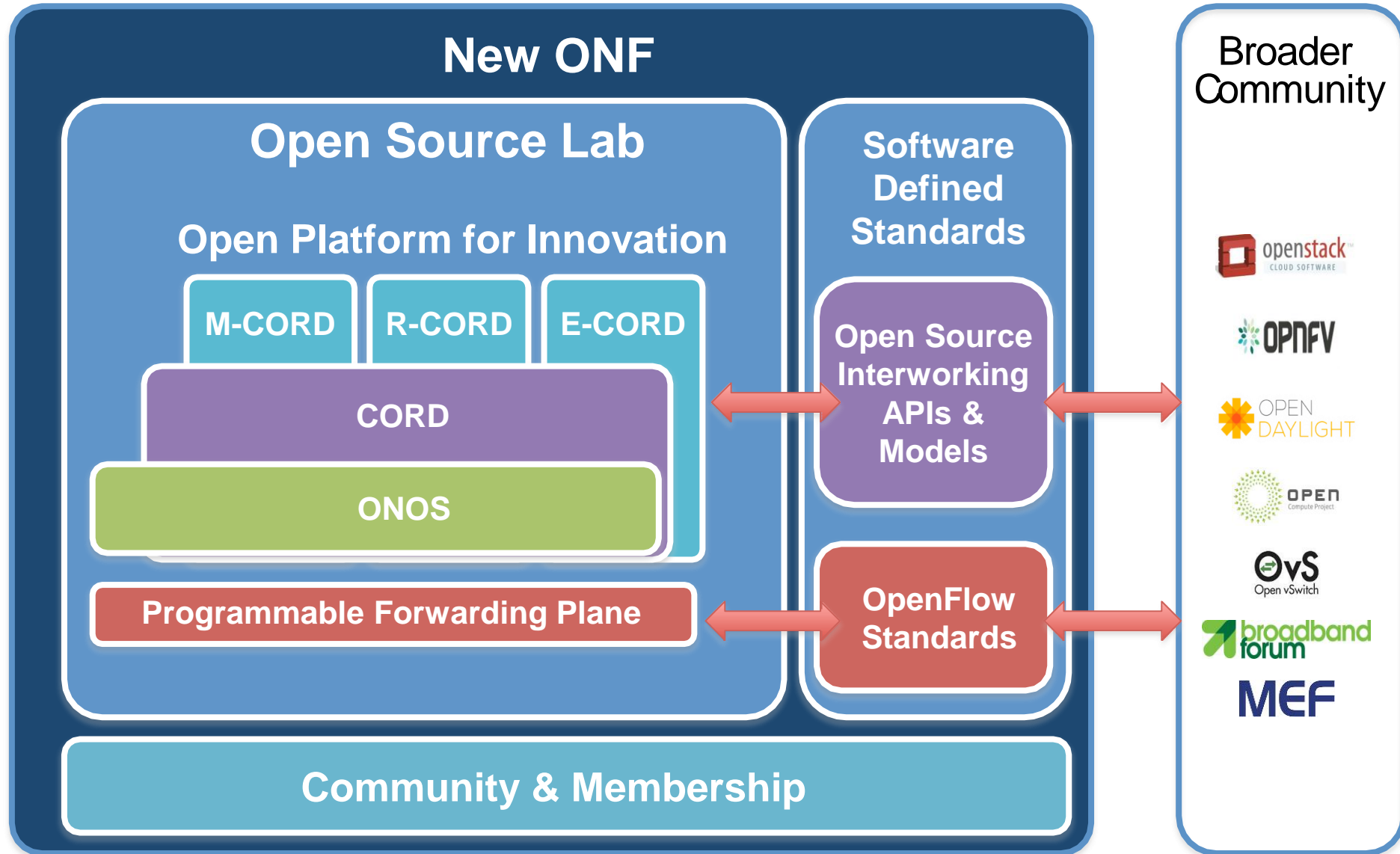


ON.LAB

- Non-profit, carrier and vendor neutral
- Provide technical shepherding, core team
- Build community
- Many organizations supports

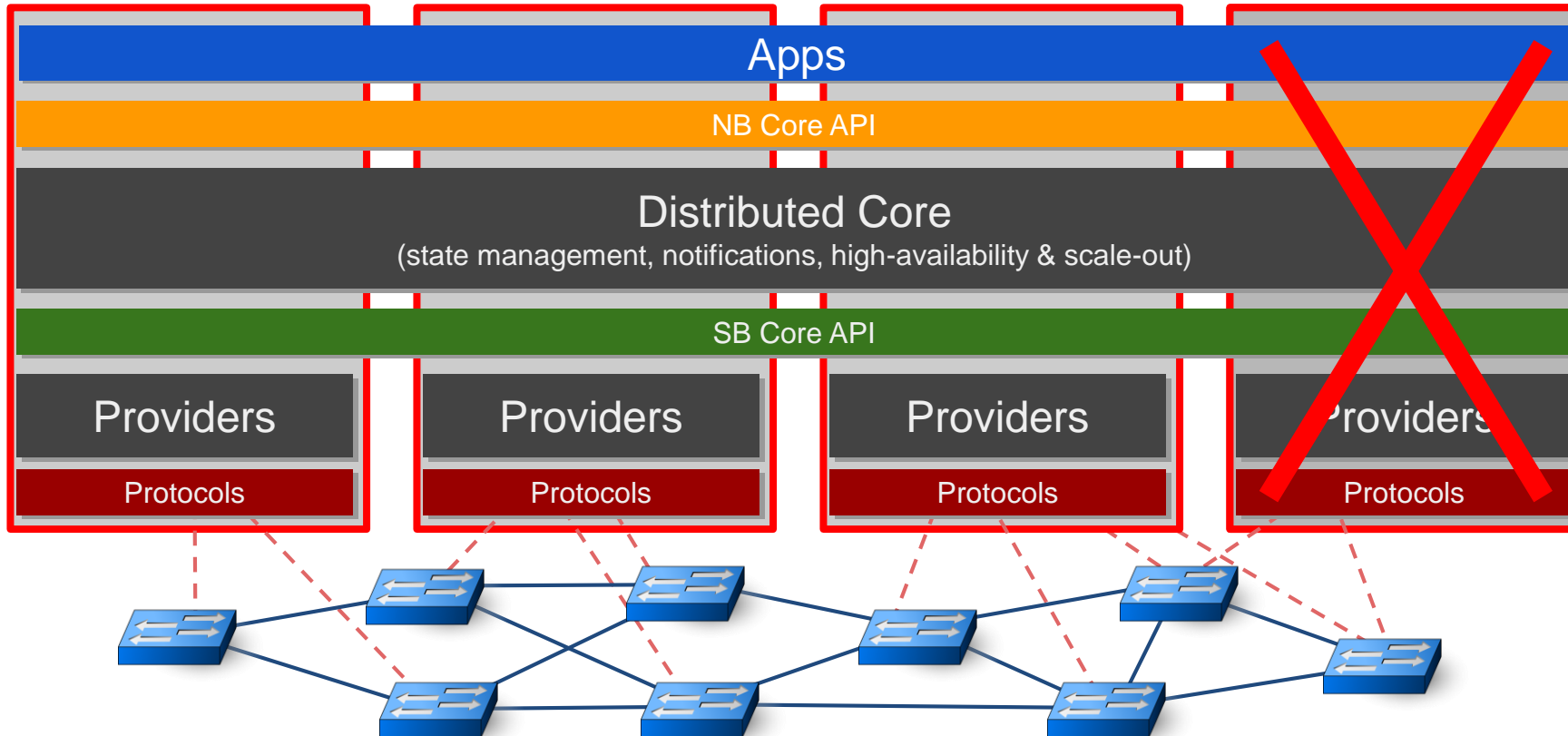


New ONF – Restructuring for the Open Source Era





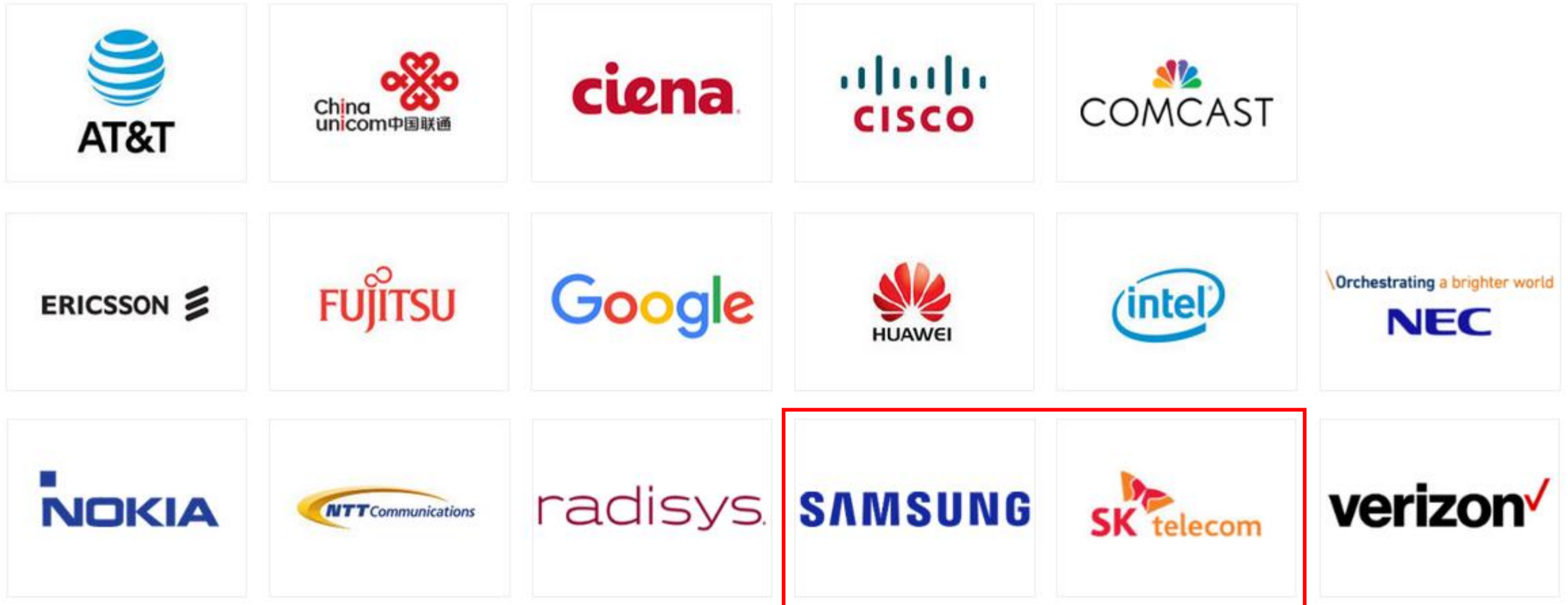
- ONOS: Open Network Operating System
 - SDN OS for service provider networks
 - Highly available and scalable control plane



ONOS Community (1/2)



- Partners



Leading service providers make ONOS & SDN/NFV solutions relevant to them
Leading vendors help make ONOS and SDN/NFV solutions real & ready for deployment

ONOS Community (2/2)



- Collaborators



Collaborating organizations help grow the community and grow the impact

Release History



Q4/14 **A**vocet

Base Architecture



Q3/15 **D**rake

ONF ATRIUM
Secure Mode ONOS (KAIST)
VxLAN
Device Configuration



Q2/16 **G**oldeneye

CPMan Apps (POSTECH)
Intents using Flow Objectives
P4 DEMO support
YANG tool chain



Q1/15 **B**lackbird

Performance



Q4/15 **E**mu

OPNFV
SONA (SKT)
AARNET
KREONET-S (KISTI)



Q2/15 **C**ardinal

ONS Use Cases
SDN-IP
Packet Optical
R-CORD



Q1/16 **F**alcon

ONS Use Cases
{A, E, M, R} CORD
Disaggregated ROADM
DC Fabric Control
Global R&E Deployment



Q3/16 **H**ummingbird

RabbitMQ, Kafka Message buses
YANG NBI, SBI CODECs
ACTN Traffic Engineering
Distributed system primitives
SB - OSPF, ISIS, REST Client...

Every release: ++ Deployments, Applications, NB, CORE, SB, Test, Community, Performance....



- Roadmap

Kingfisher	Loon	M	
Platform enhancements	Platform hardening	Platform enhancements	
Features Dynamic Configuration NETCONF & RESTCONF SB RESTCONF NB Distributed Store Live Compiler Virtualization OF Agent External Connectivity Embedding GUI Regions & Layouts Dark Theme QA – Performance whitepaper QA - Incorporate OF1.3 * 1.5 features, Enhance Delta security test suite	Features Dynamic Configuration Transactions & Optimizations Configuration Synchronizer Virtualization Snapshotting & Embedding OpenStack Integration GUI Additional overlays gRPC Core subsystems Codebase Disaggregation Intent Domain & Transactions QA - TestON/Mininet automation enhancements	Features (incubation) ISSU Portable Kryo serialization Upgrade Coordinator P4 P4 Runtime gNMI OpenConfig	Features Dynamic Configuration Sharding of Subtrees Performance Improvements Virtualization Additional SB Resiliency GUI Global Search gRPC Select apps Explore automated gen ISSU Portable Kryo serialization Upgrade Coordinator P4 - P4 Runtime gNMI - OpenConfig QA

ONOS/CORD Working Group (1/2)



- ONOS/CORD Working Group (WG) <https://www.facebook.com/groups/onos.kr/>
 - Korean user and developer community for ONOS and CORD project
 - Initially launched at 5th, October, 2016
 - Members from 13 organizations
 - Cooperate with ONOS/CORD Ambassador program
 - <http://ambassadors.onlab.us/>



ONOS/CORD Working Group (2/2)



- Activities

- Bi-monthly meetup with WG members
- Past meetups
 - 25th, October, 2016, Seoul Office, ETRI
 - 16th, December, 2016, Samhwa Tower, SK Telecom
 - 17th, February, 2017, Seoul R&D Campus, Samsung
 - 25th, May, 2017, Gangnam Toz



Upcoming Events (1/2)



<http://onosbuild.org>

- ONOS Build 2017
 - ONOS Developers' Conference
 - Annual Event
 - **Date: 20th ~ 22nd, September, 2017**
 - **Location: Samsung R&D Campus**
 - Organized by ONF, cooperated with Samsung



Upcoming Events (2/2)



- ONOS/CORD WG 4th Meetup
 - Topic: network virtualization
 - Date: 4th, August, 2017
 - Location: Jongro Toz
- CORD Build 2017
 - CORD Developers' Conference
 - Annual Event
 - **Date: 7th ~ 9th, November, 2017**
 - **Location: QCT Cloud Technology Headquarters, US**

2017 ONOS/CORD WORKING GROUP 제4차 모임
주제: 네트워크 가상화

- 일시: 2017년 8월 4일 (금요일), 14:00 ~ 18:00
- 장소: 서울특별시 종로구 종로2가 84-8 (토즈 종로점) 세미나실 2
- 주최: ONF OPEN NETWORKING FOUNDATION, SDN NFV FORUM, KossLab
- 프로그램위원회
그룹장: 이건 (포항공대, ONF)
위 원: 김동균 (KISTI), 박민철 (SKT), 신상호 (SKT), 이성원 (경희대), 한상윤 (경희대)

시간	프로그램	
Session1		
14:00 - 14:10	Welcome Address	
14:10 - 14:40	Introduction to OpenVirteX (OVX)	한상윤 (경희대)
14:40 - 15:30	Updates on Network Virtualization Brigade	한윤선 (포항공대)
15:30 - 15:50	Coffee Break	
Session 2		
15:50 - 16:40	Updates on Virtual Dedicated Network (VDN)	김동균 (KISTI)
16:40 - 17:20	Updates on CORD Virtual Tenant Network (VTN)	문현선 (SKT)
17:30 - 17:50	LION Brigade, discussion on ONOS Build 2017	이건 (포항공대, ONF)
17:50 - 18:00	Wrap-up	

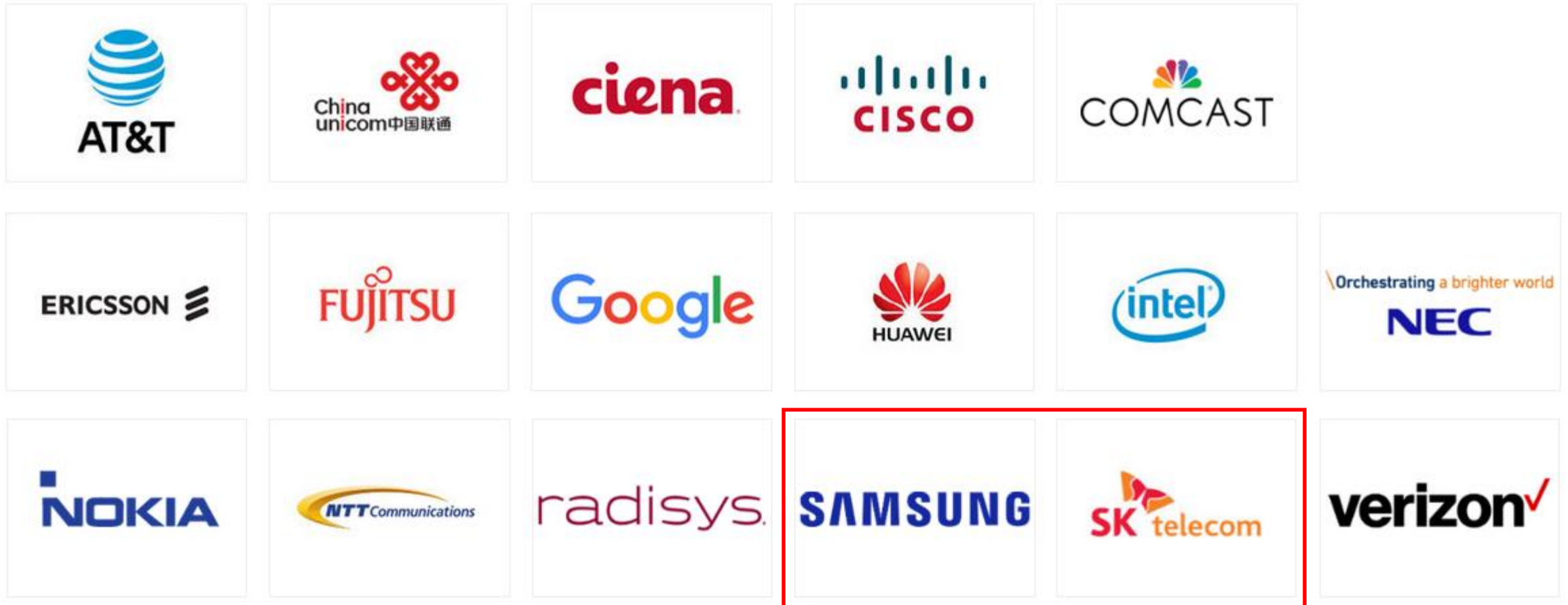


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