7th Data Center Infrastructures Networking and Services Conference



October 6, 2017, Metropolitan Expo, Athens

Organized by

Communication Solutions

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Welcome to

Layer one

7th Data Center Infrastructures
Networking and Services
Conference



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Agenda (HallC2)



	Welcome keynote speeches by:
09:30 - 09:45	George Dritsanos, Schneider Electric
	Nikos Botinis, Cisco
	Triantafyllos Prokopidis, Space Hellas
	Andrea Scaietti, Alcatel-Lucent Enterprise
	Dimitris Filippou, I2QS
	Egon Süssinger, Panduit
	Lambros Kostaras, ESB agents
	Dionisis Grigoropoulos, EATON
	SCHNEIDER ELECTRIC presentation
	Thanassis Tsikogias, Data Center Solutions Architect / Schneider Electric Greece
09:45 - 10:30	Konstantinos Vasileiou, Head of Datacenter & Information Systems Support /
	Information Society SA
	«Presenting the new efficient Data Center of G-Cloud»
	CISCO - SPACE HELLAS presentation
10:30 - 11:10	Nikos Anagnostatos, Network Consultant, Networking Solutions Division / Space Hellas
	«DC Automation: It's a MARVEL»
	Eirini Spanou, Data Center Virtual Systems Engineer / Cisco
	«Cisco Drives Data Center Innovation»
	Lauron

11:10 - 11:50	Alcatel-Lucent Enterprise presentation Mauro Rizzi, Network Business Program Director / Alcatel-Lucent Enterprise «The intelligent answer for the agile business»
11:50 - 12:10	I2QS presentation Giampiero Sforte, Sales Director, Enterprise Division / CommScope Inc. «High Speed Migration Platform (HSM). An Agile Foundation & Future Proof Infrastructure for the Data Center Flexible Growth»
12:10 - 12:50	PANDUIT - KAFKAS presentation Sander Kaempfer, EMEA Business Development Manager, Integrated Data Centers / PANDUIT Vounos Panagiotis, ICT Business Unit Manager, Business Development & Solutions Department / KAFKAS «Panduit's Converged Data Center Infrastructure Solution»
12:50 - 13:10	NEXANS Network Solutions presentation Lambros Kostaras, Business Development Manager, ESB Agents, South East Europe "Intelligent, high bandwidth and energy efficient cabling infrastructure architecture"



13:10 - 13:50	EATON presentation Martijn Imming, EMEA Business Development Manager, Data Centers for Power Distribution / EATON "All back up power applications require low voltage distribution around 3ph UPS. Eaton introduces a concept that will give the best of both worlds and more" Robert Kokai, Business Development Manager for White Space solutions / EATON "An intelligent answer for data center power management"
13:50 - 14:10	Coffee Break
14:10 - 14:35	Keynote presentation Mike Gilmore - Senior Partner, The Cabling Partnership and Managing Director / e-Ready Building - Director, STANDARDS@fia - Chairman BSITCT/7/1 and Meeting Secretary TCT/7/2 and TCT/7/3 - Chairman CLC TC215, Convenor WG1 and Secretary WG2 - Leader, ISO/IEC JTC1 SC25 WG3 "Bonding" - Secretary, ISO/IEC JTC1 SC25 WG3 "AIM" "EN 50600 standards for data centers and their international implementation"
14:35 - 14:55	I2QS presentation Dimitris Filippou, Technical Director / I2QS «Ethernet - A technology without borders»



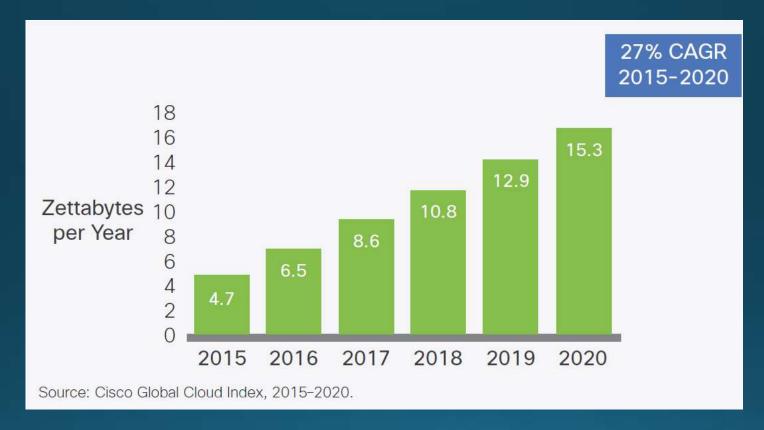
14:55 - 15:15	NEXANS Network Solutions presentation Didier Galindo, Regional Sales Director / Nexans Cabling Systems "Smart choices for enterprise cabling infrastructures"
15:15 - 15:30	Rittal presentation Thanos Dazelidis, Sales & Project Manager / Rittal "LEFDAL MINE datacenter Rittal"
15:30 - 15:45	TECHNICAL DEVELOPMENT presentation Konstantinos Dimitriou, Electrical Engineer, General Manager / Technical Development "Measurement instruments for qualifying and certifying the performance of IT systems. In to the Lightning Protection of Data Centers"
15:45 - 16:15	Panel Discussion, Q&A
16:15	Lunch - End of LAYER ONE Greece 2017 Conference



DC&IPTraffic Growth



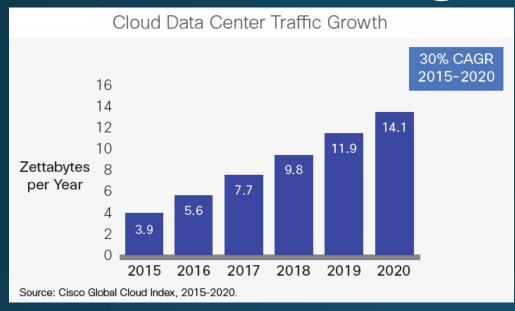
Data Center IP Traffic growth projections

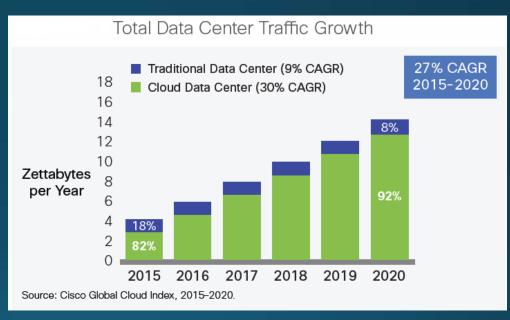


• Total Data Center IP traffic will be 15.3 Zettabytes in 2020, it will grow 3-fold at a CAGR of 27%*.



Cloud IP traffic growth projections



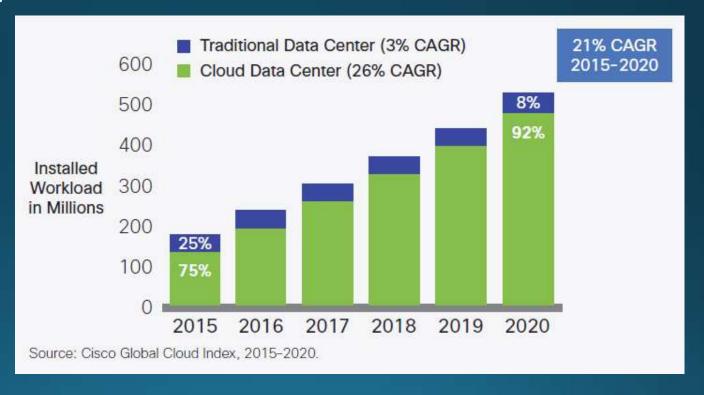


- Global Cloud IP traffic will reach 14.1 ZB in 2020, 3.7x times more than in 2015 growing at a CAGR of 30%*.
- Global Cloud IP traffic will account for more than 92% of total data center traffic by 2020*.

^{*} Cisco Global Cloud Index 2015-2020, Revised Nov16

Workloads growth projections

- By 2020, 92% of workloads will be processed by cloud data centers; 8% will be processed by traditional data centers*.
- Data center workloads will more than double (x2.6) from 2015 to 2020; cloud workloads will more than triple (x3.2) over the same period*.

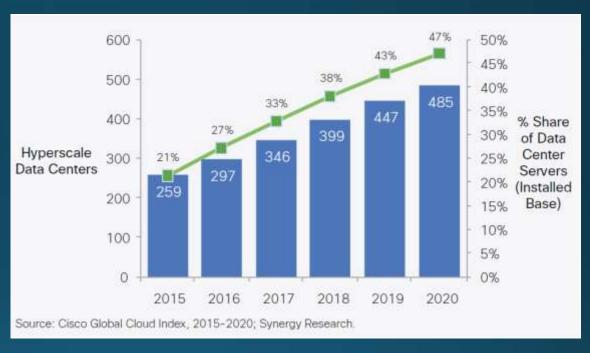




Hyperscale DCs on the rise

• Hyperscale Data Centers will represent 47 % of all installed data center servers by 2020. They will account for 83% of the public cloud server installed base in 2020 and 86% of public cloud workloads*.

By 2020,	Hyperscale Data Centers Will House:	Today
47%	of all data center servers	21%
68%	of all data center processing power	39%
57%	of all data stored in data centers	49%
53%	of all data center traffic	34%

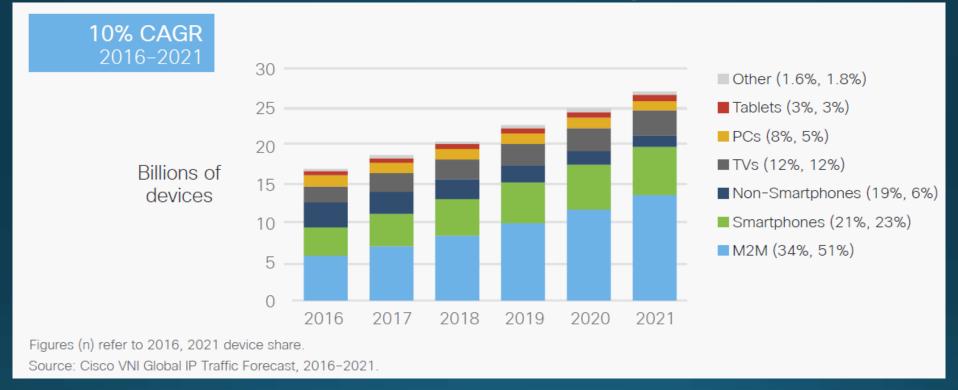




Devices Growth



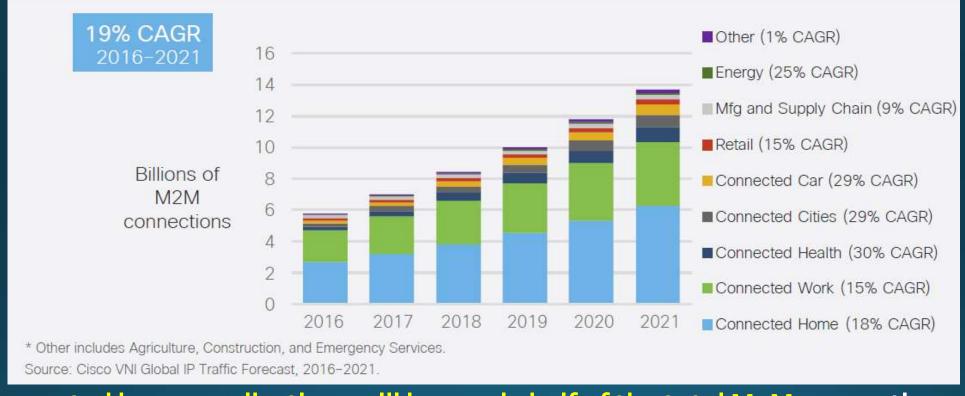
Devices & connections growth



- Connected devices grow 10x faster (10% CAGR) than earth population (1.1% CAGR) and Internet users (7% CAGR)**
- M2M devices are the fastest growing category, Smartphones the 2nd fastest**



M2M connection growth by industries



- Connected home applications will be nearly half of the total M2M connections by 2021**
- Connected healthcare will be the fastest-growing segment, at 30% CAGR**



The end of the Cloud monopoly?

And the rise of Fog and Mist Computing



loE devices traffic estimates

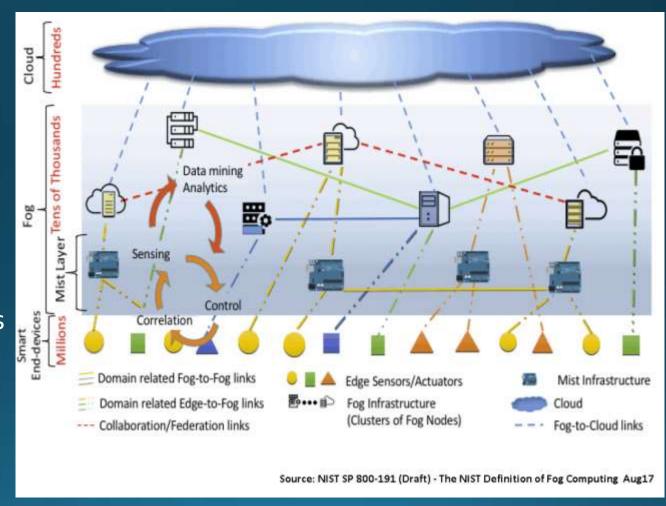


• The total amount of data created by any device will reach 600 ZB per year by 2020, up from 145 ZB per year in 2015. Data created is two orders of magnitude higher than data stored*.



Fog and Mist Computing

- Fog computing is a resource that resides between IoE devices and the cloud / data centers (i.e. in an IoT gateways). It provides computing, storage, and network connectivity at a powerful level.
- Mist computing is a form of computing power that resides at the edge of the network (sensors, controllers etc.), bringing elastic compute, storage, and communication directly onto the Things.





Trends & Directions



To keep an eye on it

IT-as-as-Service growing = will represent more than half of IT spending by 2021/2022. *Deloitte Technology, Media and Telecommunications Predictions 2017

iPaaS = new Buzz meaning integration-Platform-as-a-service, a suite of cloud services enabling development, execution and governance of integration flows connecting any combination of on premises and cloud-based processes, services, applications and data. *Gartner IT Glossary

Micro and mini DCs at the edge = e.g. at the base of Cell Towers (Vapor IO with Project Volutus, DataBank & Vertical Bridge), in spare office space / real estate.

WUE (Water Usage Effectiveness) is becoming crucial = as a complement of PUE, WUE is defined as annual site water usage (for cooling purposes) divided by IT Energy Usage. Huge issue especially for Hyperscale DCs.



Let's Start



