

3GPP TSG SA Meeting #80
La Jolla, CA, USA, 13-15 June 2018
Agenda item 5.2

SP-180348



RELEASE 16 – ESSENTIAL FOCUS AREAS



Release 16 3GPP Scoping

Based on SA2 work items



- 17 ongoing SA2 Study Items plus one work item ongoing
- 7 new SA2 Study Items expected for approval at SA#80

- Release 15 delivered a new generation of system – 5GS
 - As for any first release of a new system, the maintenance work will need enough and prioritized meeting time

- Currently a clear risk of spreading too thin on everything
 - Release 16 timeline is guided by ITU-R submissions

- 3GPP needs to focus the activities to secure market essential features
 - Phasing of work should be considered

5G expands the addressable market

Offers new revenue streams



Platform for addressing industry and society transformations

Massive IoT

- Smart meter
- Logistics
- Tracking
- Fleet management



IoT

Industrial IoT

- Industrial applications
- Remote manufacturing
- Industry 4.0



Cost effective delivery of increased data traffic

Automotive

- Traffic safety & control
- Connected Mobility
- Self driving cars

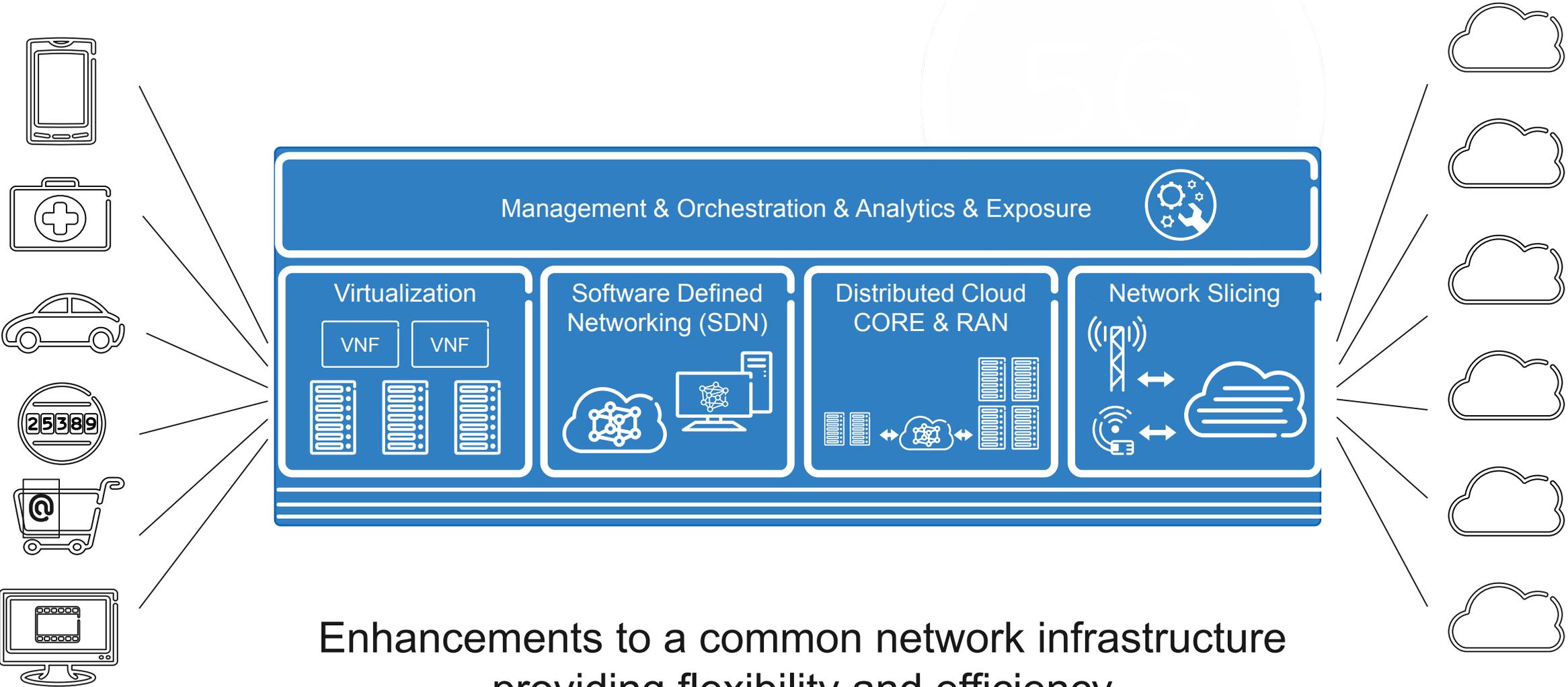


Fixed wireless access

- Mobile / wireless / fixed
- Enterprise
- Home



5G SYSTEM ARCHITECTURE ENHANCEMENTS ≡



Enhancements to a common network infrastructure providing flexibility and efficiency

Rel-16 3GPP Scoping

Ericsson Essential Focus Areas



Theme “5G architecture enhancements”

— Architecture enhancement (FS_eSBA, FS_eNA, FS_ETSUN, FS_eNS)

Theme “5G addressing new market segments”

— Industrial IoT (FS_Vertical_LAN, FS_5GURLLC, FS_eLCS)

— Automotive (FS_eV2XARC)

— Massive IoT (FS_C-IoT_5G)

— Fixed Wireless Access (FS_5WWC)



Focus Areas	Essential Rel-16 WIs	Expected RAN Dependencies
5G Architecture Enhancements	Study on Enhancements to the Service-Based 5G System Architecture (FS_eSBA)	None
	Study of enablers for Network Automation for 5G (FS_eNA)	None or minor
	Study on Enhancing Topology of SMF and UPF in 5G Networks (FS_ETSUN)	None
	Study on Enhancement of Network Slicing (eNS)	Not expected
Industrial IoT	Study on 5GS Enhanced support of Vertical and LAN Services (FS_Vertical_LAN)	Yes
	Study on enhancement of URLLC supporting in 5GC (5G_URLLC)	Yes
	Study on Enhancement to the 5GC Location Services (FS_eLCS)	Yes
Automotive	Study on architecture enhancements for 3GPP support of advanced V2X services (FS_eV2XARC)	Yes
Massive IoT	Study on Cellular IoT support and evolution for the 5G System (FS_CIoT_5G)	Yes
Fixed wireless access	Study on the Wireless and Wireline Convergence for the 5G system architecture (FS_5WWC)	Minor (N2/N3 interface)

