Update on MC Topics after S6#48-e

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SA6 Chair

Release 18 Timeline

2021	2022				2023				2024	
Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2

TSG#94-e Dec. TSG#95-e Mar. TSG#96 Jun. TSG#97 Sep. TSG#98 Dec. TSG#99 Mar. TSG#100 Jun. TSG#101 Sep. TSG#102 Dec. TSG#103 Mar.

Rel-17 Stage 3 Freeze

Rel-17 Protocol Coding Freeze (ASN.1, OpenAPI)

Rel-18 Package (content) Approval

Rel-18 Stage 2 Functional Freeze

Rel-18 Stage 3 Freeze

Rel-18 Protocol Coding Freeze (ASN.1, OpenAPI)
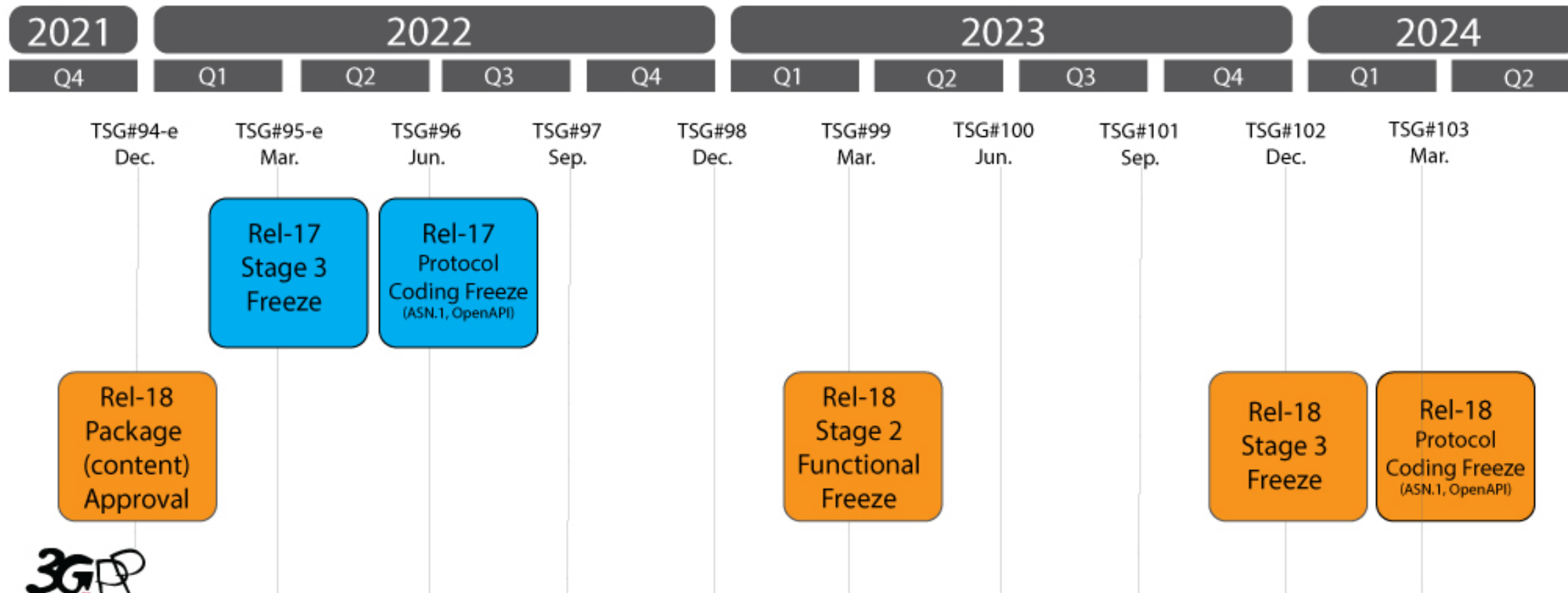
Sept. 2021

Rel-18 MC Study Items

Study Item	WI Code	SID Approved	SA6#48-e	Target Completion
Study on Mission Critical Services support over 5G System	**FS_MCOver5GS**	SA#80 (06/2018)	**100%**	SA#96 (06/2022)
Study on sharing of administrative configuration between interconnected MC service systems	**FS_MCShAC**	SA#94 (12/2021)	**15%**	SA#99 (03/2023)
Study on Mission Critical Ad hoc Group Communications Support for Mission Critical Services	**FS_MCAHGC**	SA#94 (12/2021)	**40%**	SA#97 (09/2022)

FS_MCAHGC is expected to have a corresponding Rel-18 normative work item

New Study Items

🦅 FS_MCShAC – Rapporteur: BDBOS

- Support configuration of requests and responses to configure MC user information
- Support for the exchange of operationally relevant information for specific MC users, e.g., MC user capability information, with partner MC service systems,
- Support for the secure exchanging of administrative and security related information with interconnected MC service systems considering aspects

🦅 FS_MCAHGC – Rapporteur: Samsung

- Review and identify unfulfilled MC ad-hoc group communications requirements
- This study will also address the MCData and MCVideo services

Rel-18 MC Work Items

Study Item	WI Code	WID Approved	SA6#48-e	Target Completion
Mission Critical Services over 5MBS	**MCOver5MBS**	SA#93 (09/2021)	**65%**	SA#95 (03/2022)
Mission Critical Services over 5GProSe	**MCOver5GProSe**	SA#94 (12/2021)	**70%**	SA#99 (03/2023)
Gateway UE function for Mission Critical Communication	**MCGWUE**	SA#93 (09/2021)	**85%**	SA#96 (06/2022)
Enhanced Mission Critical Push-to-talk architecture phase 4	**enh4MCPTT**	SA#94 (12/2021)	**20%**	SA#99 (03/2023)
Interconnection and Migration Aspects for Railways	**IRail**	SA#95 (03/2022)	**20%**	SA#98 (12/2022)

New Work Items

☞ MCOver5GProSe – Rapporteur: Huawei

- Support of MC Services over 5GS for Off-network communication and On-network communication
- Address group member discovery via 5G ProSe for off-network private and group communication
- Address usage of layer-2 and layer-3 based UE-to-network relay

☞ enh4MCPTT – Rapporteur: Motorola Solutions

- Continuation of Items not yet concluded from previous releases
- Update to remotely initiated call request procedure to support pre-emptive or high priority and commencement mode

☞ IRail – Rapporteur: Nokia

- Private/Group call forwarding, transfer, migration and using a functional alias to partner systems
- Optimize connectivity for media and signaling routing and the IP connectivity between MC systems
- Support of migration for MC service users towards an MC system when the primary and the partner MC system are not interconnected

Other Interesting Rel-18 Items

Study Item	WI Code	WID Approved	SA6#48-e	Target Completion
Study on Network Slice Capability Exposure for Application Layer Enablement	**FS_NSCALE**	SA#91 (03/2021)	**75%**	SA#96 (06/2022)
Study on enhanced Application Architecture for enabling Edge Applications	**FS_eEDGEAPP**	SA#92 (06/2021)	**60%**	SA#96 (06/2022)
Study on enhanced architecture for UAS Applications	**FS_eUASAPP**	SA#93 (09/2021)	**35%**	SA#97 (09/2022)

Brief Overview of Other Interesting Items

FS_NSCALE – Rapporteur: China Mobile

- Investigate existing SA6 enablement layer function usage of network slicing aspects
- MC applications could decide to take advantage of these capabilities

FS_eEDGEAPP – Rapporteur: Samsung

- Support for roaming, federation and service continuity across MNOs and ECSPs
- Alignment with ETSI MEC and GSMA OP architectures
- MC applications could be deployed in Edge networks for optimal performance

FS_eUASAPP – Rapporteur: InterDigital

- Support for multiple USS/UTMs and monitoring inter-UAV communication link status
- Usage of 5MBS and PC5 communication
- MC applications might benefit from UAS integration in emergency situations

Future Meetings

- 3GPP is slowly returning to F2F meetings, but there are regional and logistical issues that are resulting in the continuation of electronic meetings for much of 2022.

SA6#49-e	16 – 25 May 2022	Online
SA6#49-BIS-e	22 June – 01 July 2022	Online
SA6#50	22 – 26 August 2022	Wroclaw
SA6#51	10 – 14 October 2022	Asia, Location, TBC
SA6#51-e	10 – 19 October 2022	Online
SA6#52	14 – 18 November 2022	North America, Location, TBC
SA6#52-e	14 – 23 November 2022	TBC in SA6#49-e

- Elections to the vacant SA6 Vice-chair position to be held in SA6#49-Bis-e meeting.

Thank You!