ITU-T SG13

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IMT2020: How SG13/WP1 can valorise the FG results

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Content

- Baseline: FG IMT 2020 input
- IMT2020 in SG13: WP1 structure
- Workplan and objectives
- How to try to make the results useful for the market: internal work methods and cooperation with other organisations
- Conclusions





FG IMT2020 results an inheritance not to be wasted

- The FG was created to the purpose of conducting pre-standard activities on fixed access/transport and core network aspects of 5G, including management and control
- FG IMT2020 concluded its activities 3 months ago
- 9 documents delivered to SG13 as a basis for the production of standards on 5G





Input documents to WP1

TDs	Title
TD(PLEN)-5	FG IMT-2020 Chairman's report
TD(GEN)-68	TR: Terms and definitions for IMT-2020 in ITU-T
TD(GEN)-69	TR: Application of network softwarization to IMT-2020
TD(GEN)-70	Requirements of IMT-2020 from network perspective
TD(GEN)-71	Framework for IMT-2020 network architecture
TD(GEN)-72	Requirements of IMT-2020 fixed mobile convergence
TD(GEN)-73	TR: Unified network integrated cloud for fixed mobile convergence
TD(GEN)-74	IMT-2020 network management requirements
TD(GEN)-75	Network management framework for IMT-2020
TD(GEN)-76	TR: Application of information centric networking to IMT-2020
56()2016)	

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FG – WP1 work continuity

- The management team of SG13-WP1 is in continuity with the management team of FG IMT2020
- Also the other active participants are now active in WP1

Assure the smoothest continuation of activities and the most efficient exploitation of FG results





WP1/13 Structure

Question	Title
Q6	Quality of service (QoS) aspects including IMT-2020 networks
	Continuation of Q.6/13 from the last study period
Q20	IMT-2020: Network requirements and functional architecture
	Transformation from Architecture WG of FG IMT-2020
Q21	Network softwarization including software-defined networking, network slicing and orchestration
	Continuation of Q. 14/13 and 12/13 from the last study period
	Transformation from Softwarization WG and Network Management WG of FG IMT-2020
Q22	Upcoming network technologies for IMT-2020 and Future Networks
	Continuation of Q. 13/13 and 15/13 from the last study period
	Transformation from ICN WG of FG IMT-2020
Q23	Fixed-Mobile Convergence including IMT-2020
	Continuation of Q. 4/13, 9/13 and 10/13 from the last study period
	Transformation from FMC WG of FG IMT-2020
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Delivery plan for WP1 IMT2020

• Q6

 Document (for Recommendation) on QoS monitoring for IMT2020 in plan (11/2017)





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Delivery plan for WP1 IMT2020

- Q20
 - Terms and definitions
 - General Requirements
 - Framework
 - Architecture

11/2017 11/2017 11/2017 2018 11/2017

2/5

 Network capability exposure requirements (in Q20 or in Q21...still tbd)



Requirements are considered the most urgent WI to be completed



Delivery plan for WP1 IMT2020 3/5

• Q21

- TR on standard and Softwarisation (07/2017)
- Recommendation on High level characteristics/requirements <u>on key aspects</u> of softwarisation (11/2017)
- Recommendation on IMT2020 network management req (07/2017)
- Framework for IMT2020 network management requirements (07/2017)
- Further Softwarisation aspects in 2018

Dependencies on the general Requirements (Q20) will need to be taken care of asap while work is progressing





Delivery plan for WP1 IMT2020

• Q22

- Focus on ICN
- One Reccom. consented in February Y.DAN-reg-arch
- One WI from the input document from the FG
- Alignment with FMC is important
- Workplan under definition
- Requirements for 1st H 2018



Harmonisation with General Requirements (Q20) and other specific requirements will need to be taken care of asap while work is progressing



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Delivery plan for WP15/5

- Q23
 - Recommendation on requirements for FMC (07/17)
 - Recommendation on FMC high level architecture (early 2018)
 - Consented recommendation on FMC-PCM

Harmonisation with General Requirements (Q20) and other specific requirements will need to be taken care of asap while work is progressing







Input documents map in some cases to several Questions Need to manage all that properly!





Collaboration is fundamental: inside.....

 Ongoing discussion about work and deliverable organisation to offer the market greater benefits

Synchronise recommendations and TRs according to the technological area (virtualisation, management, architecture, requirements, FMC, slicing...)

Prioritise the most important areas

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Join forces between different questions and work together as needed

Joint meetings and cross fertilisation

Technical Packages

Almost 30 incoming liaisons at the first meeting:
collaboration is essential!

....and outside

 Exchange of information with other organisations is fundamental for something like 5G...

Participation at common events and comparison of aims, degree of evolution and results, joint sessions and workshops

•but there is need for more, as cooperation:

- Cooperation on FMC with the BBF and 3GPP
- Assure alignment and coherence of specs and coverage of all needed aspects
- Based on member contributions in each organisation and not on formal collaboration
- Evaluate success in 8-12 months (difficulties due to meeting fequence, document management rules, <u>resources</u>)



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Conclusions

- IMT2020 is attractive and challenging
 - Every SDO and innumerable projects and forums work on it
 - Need to avoid the overlap risk
- 5G is an immense field of development
 - Select and prioritise what to do first
- Cooperation is essential
 - Between different Qs
 - With other SGs and external entities
 - Go beyond the usual very formal LS exchange with, in too many cases, little real cooperation
 - Results cannot be understood in a short time frame because of the need to adapt different cadence in work and methods



