JCA-IMT2020
Overview
Introduction

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What is a JCA?

— Joint Coordination Activities (Described in ITU-T A.1)
  — Meant to coordinate the work of more than one study group on a particular topic
  — May also include invited experts and invited representatives of other SDOs
  — Aims mainly at improving coordination and planning.
— Open to ITU Members and designated representatives of relevant Standards Development Organizations and Forums

— The work specific to the topic is conducted by the relevant study groups, external sdos, or open-source communities using the approval process of the parent organization
JCA-IMT2020

— Website:  https://www.itu.int/en/ITU-T/jca/imt2020/Pages/default.aspx

— The scope of JCA-IMT2020 is coordination of the ITU-T IMT2020 standardization work with focus on non-radio aspects within ITU-T and coordination of the communication with standards development organizations, consortia and forums also working on IMT2020 related standards.

— Groups actively being engaged:
  — In the ITU-T: Study Group 2 on Network Management, Study Group 11 on protocols and interoperability, Study Group 12 on QoS, Study Group 15 on transport, fronthaul/ backhaul and Study Group 17 on security
  — SDO Community: 3GPP, BBF, ETSI, IEEE, IETF, MEF, NGMN, and ONF
  — Open Source Community: mainly ONAP
JCA-IMT2020 Activities

— Maintain a roadmap of material sent to the JCA capturing work on-going in the ecosystem.
— Provide a point of coordination between the ITU-T Study Groups to ensure IMT2020 work is not duplicated or work that needs to get done is missed.
— Provide a point of contact for other SDOs if they are looking for relevant work in the ITU-T.
— Advocate for “Dual-Participation”
  — Dual-Participation means that there are people in both (or more) organizations working to accept and drive the perspective from the other organization. For example, if ITU-T SG13 wants to influence BBF, it is more effective to have an advocate in the BBF that can represent the position of SG13. Tossing liaisons without the support of individuals is not effective.
  — Dual-Participation is also the only way to engage the open-source community. The open-source community wants contributions, not liaisons about potential contributions.
  — Dual-Participation is a proven way to have effective coordination between different standards bodies.
JCA-IMT2020 Meetings

— There have been two JCA-IMT2020 Meetings
— Input has been received from many SDOs
  — Roadmap being kept up-to-date
— All of the Documents for the JCA are not public (behind a TIES account)
  — https://www.itu.int/ifa/t/jca/IMT2020
— However the Roadmap is public

— NEXT Meeting
  — 3rd Meeting
  — 13 April 2018, 16:00 - 17:30
  — Geneva, Switzerland
  — Meeting Announcement
  — Registration Link
IMT2020 Roadmap

- The Roadmap is work in progress.
- The ITU-T has created an online database that allows the user to select the subset of information they want to see and then export the information for offline viewing.
- More meta-data is needed in the roadmap.
SG13 WP1 IMT2020 Work

- Defined "Technology Packages"
- Softwarization
- Fixed Mobile Convergence
- Information Centric Networking
- QoS

- SG13 is looking at the opportunity to work with SG2 on the Network Management aspects of IMT2020.
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<tr>
<td>Terms &amp; definitions</td>
<td>Y.3100, &quot;Terms and definitions for IMT-2020 network&quot;</td>
<td>Published</td>
<td>13 September 2017</td>
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<td>Management framework</td>
<td>Y.3111, &quot;IMT-2020 Network Management Framework&quot;</td>
<td>Published</td>
<td>13 September 2017</td>
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<td>Management requirements</td>
<td>Y.3110, &quot;IMT-2020 Network Management Requirements&quot;</td>
<td>Published</td>
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<td>Activity report – NW SWarisation Supplement</td>
<td>Y.3100-series Supplement 44, &quot;Standardization and open source activities related to network softwarization of IMT-2020&quot;</td>
<td>Published</td>
<td>14 July 2017</td>
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<td>Frameworks</td>
<td>Y.IMT2020-frame, &quot;Framework of IMT-2020 network&quot;</td>
<td>Ongoing</td>
<td>Apr-2018</td>
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<td>Requirements</td>
<td>Y.3101, &quot;Requirements of IMT-2020 network&quot;</td>
<td>Consented</td>
<td>17 Nov-2017</td>
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<td>Orchestration for slices</td>
<td>Y.NSOM, &quot;Network slicing orchestration and management:&quot;</td>
<td>Ongoing</td>
<td>Apr-2018</td>
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<td>Framework for multiple slice support</td>
<td>Y.IMT2020-MultiSL, &quot;Framework for the support of Multiple Network Slicing&quot;</td>
<td>Ongoing</td>
<td>Jul-2018</td>
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<td></td>
<td>Y.AMC, &quot;Requirements and Architectural Framework for Autonomic Management and Control of IMT-2020 Networks&quot;</td>
<td>Ongoing</td>
<td>Jul-2018</td>
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<td></td>
<td>Y.IMT2020-BM, &quot;Business models of IMT-2020&quot;</td>
<td>Ongoing</td>
<td>Apr-2018</td>
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## Technology Package: FMC

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<td>Requirements for FMC</td>
<td><strong>Y.3130, “Requirements of IMT-2020 fixed-mobile convergence”</strong></td>
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<td>Arch for FMC</td>
<td><strong>Y.FMC-ARCH - Functional architecture for supporting fixed mobile convergence in IMT-2020 networks</strong></td>
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<td>Mobility management</td>
<td><strong>Y.MM-RN - Mobility management framework over reconfigurable networks</strong></td>
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<td>Nov-2018</td>
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<td>Mobility management</td>
<td><strong>Y.FMC-MM - Mobility management for fixed mobile convergence in IMT-2020 networks</strong></td>
<td>New WI</td>
<td>2019</td>
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<td>Requirements on mgm</td>
<td><strong>Y.FMC-MQ-req, “IMT-2020 FMC functional requirements for management and orchestration”</strong></td>
<td>New WI</td>
<td>Nov-2018</td>
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## Technology Package: ICN

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<td>Data Aware Networking</td>
<td>Y.3071, “Data Aware Networking (Information Centric Networking) - Requirements and Capabilities”</td>
<td>Published</td>
<td>29 March 2017</td>
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<td>ICN</td>
<td>Y.3070-series supplement “Information-Centric Networking - Overview, Standardization Gaps and Proof-of-Concept</td>
<td>Ongoing</td>
<td>Apr-2018</td>
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<td>Y.ICN-FnChain</td>
<td>&quot;Framework for service function chaining in ICN&quot;</td>
<td>Ongoing</td>
<td>Nov-2018</td>
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<td>Y.ICN-ReqN</td>
<td>&quot;Requirements of ICN naming and name resolution in IMT-2020&quot;</td>
<td>Ongoing</td>
<td>Nov-2018</td>
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<td>Y.SuppICN-PoC-DaaS</td>
<td>&quot;PoC for IoT Data as a Service using ICN in IMT-2020&quot;</td>
<td>Ongoing</td>
<td>Apr-2018</td>
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SG15 Work on 5G

— The ITU-T Technical Report – GSTR-TN5G "Transport network support of IMT-2020/5G" – provides a reference model for the 5G transport network, with particular focus on the interfaces between 5G entities and the transport network. The report's primary aim is to identify the 5G architectures and interfaces of importance to ITU-T SG15.

— UML-based modeling work is being handled in Q14/15
— Architecture work for Transport in Q12/15
— Protocol-based work in Q11/15
Workshops Related to 5G

— Joint IEEE 802 and ITU-T Study Group 15 workshop “Building Tomorrow’s Networks”
  — https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20180127/Pages/Programme.aspx

— ITU Workshop on “Machine Learning for 5G and beyond”
  — https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20180129/Pages/Programme.aspx

— ITU – ETSI joint workshop “Towards Setting Environmental Requirements for 5G”

— ITU Workshop on “5G, EMF & Health”

— Second Joint ITU-NGMN Alliance Workshop on Open Source and Standards for 5G
  — This one was mainly focused on IPR and Copyright issues related to open-source

— Workshop on the evolution of transport networks to support IMT-2020/5G

— IMT-2020/5G Workshop and Demo Day
Future Activities

- JCA-IMT2020 Meeting in April
  - 3rd Meeting, 13 April 2018, 16:00 - 17:30, Geneva, Switzerland
- Hosting JCA-IMT2020 outside of ITU-T SG13
  - Looking at potential JCA @ BBF meeting in Osaka in June
  - SG15 Meeting in October
  - IEEE 5G Initiative Standards Working Group
  - eMeetings to progress coordination when necessary
- Workshops
  - ITU Workshop on 5G Security
  - IMT-2020/5G Workshop and Demo Day 2018
    - Details forthcoming
  - Machine learning for a 5G future