TTC Standardization Activity Report

September 23, 2013

Yoichi Maeda,
CEO & S.V.P TTC, JAPAN
Chairman, ITU-T Review Committee
TTC Business Strategy in 2013

- Expansion of business in order to promote inter-industry innovation and develop new strategies of ICTs.
- Promotion of strategic standardization activities through technical working groups and advisory groups in TTC.
- Global collaboration with the related standardization organizations including CJK, GSC, APT and ITU-T.
- Promotion of TTC standards and publicity activities.
- Focus on the hot standardization topics.
High Interest Subjects in 2013

- Disaster relief/emergency communications
- M2M and IoT including e-health
- Cloud computing and SDN *(New)*
- Security
- Smart grid and Home networking *(New)*
- ITS (Intelligent Transport Systems)
- Conformance & Interoperability Testing
- ICT & Environment (Climate Changes)
- New Generation Networks and Photonic based Infrastructure *(New)*
ITU-T Review Committee

- RevCom was established in WTSA-12 in order to review ITU-T strategic plan and the existing ITU-T SG structure and prepare a strategic restructuring proposal to WTSA-2016

- Since ITU-T SG restructuring will impact the future TTC standardization activities, TTC plans to contribute to ITU-T RevCom discussion by expanding mandates of the existing Global Collaboration AG (GCAG)
  - contribution to ITU-T TSAG and RevCom
  - global collaboration with CJK, APT ASTAP, GSC, ITU-T etc.
Officers

- Chairman of the Board: Prof. Mitsutoshi HATORI
- CEO & Senior Vice President: Mr. Yoichi MAEDA
  also serves as Chairman of ITU-T RevCom
- Secretary General: Mr. Noriyuki SHIGETA
- Director General of I3C: Mr. Yukio Yamanaka
Inter-Industry Innovation Center

- Step forward of ICT global standardization from intra-industry innovation to inter-industry innovation such as Cloud Computing, M2M/IoT, ITS (Smart Car), Smart Grid (Smart Energy), and Disaster relief and emergency communications, etc.

- TTC has established, in April 2011, "Inter-Industry Innovation Center (I3C)“, which surveys the trends of the inter-industry collaboration, identifies the areas where TTC should play an active role of innovation and develops new strategies of ICTs.
## TTC Membership

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vendors</td>
<td>42</td>
</tr>
<tr>
<td>NW operators</td>
<td>16</td>
</tr>
<tr>
<td>Broadcasters</td>
<td>1</td>
</tr>
<tr>
<td>CATV Operators</td>
<td>1</td>
</tr>
<tr>
<td>Others</td>
<td>19</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>79</strong></td>
</tr>
</tbody>
</table>

*as of March 2013*
TTC Standards development

ITU-T

MiC
- ICT Council
- ITU Sectional Meeting

TTC Working Groups

NW operators, broadcasters, vendors, user groups, etc.

Upstream activities

Participation/Proposals

Downstream activities

Participation/Proposals
## Categories of TTC Documents

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>Relationship</th>
</tr>
</thead>
<tbody>
<tr>
<td>JT</td>
<td>TTC Stds based on ITU-T Recommendations</td>
<td>ITU-T</td>
</tr>
<tr>
<td>JP</td>
<td>TTC Stds based on deliverables developed by regional SDOs or partnership projects</td>
<td>3GPP, 3GPP2</td>
</tr>
<tr>
<td>JF</td>
<td>TTC Stds based on the de-facto stds/deliverables developed by fora</td>
<td>IETF, IrDA, NMF, IEEE, etc.</td>
</tr>
<tr>
<td>JJ</td>
<td>TTC Stds developed originally by Japan/TTC</td>
<td>Japan/TTC original</td>
</tr>
<tr>
<td>JS</td>
<td>TTC Stds based on ISO Stds</td>
<td>ISO</td>
</tr>
<tr>
<td>TS</td>
<td>Technical Specification</td>
<td>3GPP, 3GPP2, RCSS, etc.</td>
</tr>
<tr>
<td>TR</td>
<td>Technical Report</td>
<td>3GPP, 3GPP2, RCSS, etc.</td>
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### Number of TTC documents

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<tr>
<th>Category</th>
<th>No.</th>
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<tbody>
<tr>
<td>JT</td>
<td>409</td>
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<tr>
<td>JP</td>
<td>173</td>
</tr>
<tr>
<td>JF</td>
<td>143</td>
</tr>
<tr>
<td>JJ</td>
<td>54</td>
</tr>
<tr>
<td>JS</td>
<td>38</td>
</tr>
<tr>
<td><strong>TS</strong></td>
<td><strong>8201</strong></td>
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<tr>
<td><strong>TR</strong></td>
<td><strong>385</strong></td>
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</table>

*as of July 2013

Note: this graph does not include TS or TR
TTC Standards in each year

Mar-04: 604
Mar-05: 609
Mar-06: 644
Mar-07: 676
Mar-08: 708
Feb-09: 715
Feb-10: 773
Feb-11: 788
Feb-12: 809
Feb-13: 817
Working Groups (WGs)

- NGN & FN (Future Network) WG
- Optical transport networks and EMC WG
- DSL WG
- IPTV WG
- Network Management WG
- ICT & Climate Change WG
- Signaling WG
- Security WG
- Next-generation HN System WG
- Optical Fiber Transmission WG
- Numbering Plan WG
- Bridging Standardization Gap WG (New)
- oneM2M WG (New)
- 3GPP and 3GPP2 WGs, etc.
oneM2M WG (New)

Chairman : Nick YAMASAKI (KDDI)
Vice Chair : Akihiro TSUTSUI (NTT)
Members : 12 companies as of March. 2013
(including 6 oneM2M member companies)

ToR
- oneM2M Steering Committee issues
- Information/opinion exchange for oneM2M Technical Plenary & WGs
- Information sharing of new movements in other organizations relating to M2M
- Downstream activities of Technical Specification and Reports agreed at oneM2M
- Promotion activities
oneM2M in Japan

International

oneM2M

M2M Service Layer Specifications

National

Responsible for wireless access

Responsible for other network and service aspects

ARIB
IMT Partnership / oneM2M WG

TTC
oneM2M WG

Joint Meeting
Advisory Groups (AGs)

✓ Technology Research AG
✓ Global Collaboration AG
✓ Interoperability AG
✓ Cloud computing AG
✓ Multimedia AG
✓ Smart Communication AG (restructured)
  • Smart Grid WP
  • Smart Car WP
  • Disaster relief/Emergency Comms WP
  • E-health, etc.
IPR Committee

- develops and updates "Fundamental and Operational Procedures on TTC IPR Policies" so that they are consistent with
  a) relevant lawful regulations in Japan, such as Patent Act, Copyright Act and Anti-trust Law; and,
  b) ITU/ISO/IEC Common Patent Policy and guidelines for its implementation

- develops and updates “Operational Treatment of Copyright for TTC Deliverables“. For more details, see http://www.ttc.or.jp/e/index.html
### Forms of collaboration

<table>
<thead>
<tr>
<th>Participation</th>
<th>Examples</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>APT/ASTAP</td>
</tr>
<tr>
<td>Core member</td>
<td>CJK(ARIB, CCSA, TTA), GSC, 3GPP/3GPP2</td>
</tr>
<tr>
<td>MoU/LoI</td>
<td>ITU, ETSI, IEEE, GISFI, MSTFB, ICU, <strong>ZigBee Alliance</strong> <em>(New)</em>, Wi-SUN Alliance <em>(New)</em> etc</td>
</tr>
</tbody>
</table>
## MoU & LoI

<table>
<thead>
<tr>
<th></th>
<th>Organizations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MoU</strong></td>
<td>ITU&amp;CJK, ETSI, ATIS, TIA, ICU, MSTFB, IEEE, ZigBee Alliance*, Wi-SUN Alliance*, etc.</td>
</tr>
<tr>
<td><strong>LoI</strong></td>
<td>GISFI</td>
</tr>
</tbody>
</table>

*Agreements in 2013*
MoU with ZigBee Alliance

- TR-1043 Implementation guidelines of Home network communication interface
- JJ-300.10 Home network communication Interface for ECHONET Lite

Feb-21, 2013
MoU with Wi-SUN Alliance

- TR-1043 Implementation guidelines of Home network communication interface
- JJ-300.10 Home network communication Interface for ECHONET Lite

Mar-5, 2013
Thank you very much for your attention!

If you have any comments or questions, please contact to yoichi.maeda@tc.or.jp
http://www.ttc.or.jp/e/