**Work Plan of ASTAP**(as of ASTAP-33, June 2021)

| **No.** | **EG** | **Work Plan no.** | **Title** | **Expected Deliverable** | **Duration** | | **Contributions at  ASTAP-33** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Start** | **End** |
| **WG PSC** | | | | | | | |
| 1 | BSG | BSG-1 | Handbook to Introduce ICT Solution for the Community in Rural Areas | Report | ASTAP-28 | ASTAP-33 | INP-38 (Rev.1) |
| 2 | BSG-2 | Guideline on referencing Int’l Standards in developing National Standards in the field of ICT | Guideline | ASTAP-28 | ASTAP-33 | INP-25 |
| 3 | BSG-3 | Guideline on setting up National ICT Standardization Regime | Guideline | ASTAP-29 | ASTAP-35 | N/A |
| 4 | PRS | PRS-1 | Measurement Scenarios and Sampling Methodologies to Assess Quality of Popular Mobile Services | Report | ASTAP-30 | ASTAP-35 | INP-34 |
| 5 | PRS-2 | Compliance Label of Communication Devices Implemented by APT Member Countries | Report | ASTAP-29 | ASTAP-33 | INP-06 |
| 6 | GICT&EMF | GICT&EMF-1 | Status Report on Efforts to Green Data Centres in the ICT/Telecommunication Sector in the APT member countries | Report | ASTAP-26 | ASTAP-34 | N/A |
| 7 | GICT&EMF-2 | Status report for standardization activities on e-waste and rare metals | Report | ASTAP-26 | ASTAP-34 | INP-33 |
| 8 | GICT&EMF-3 | Status Report of Asia Pacific Regional Activities on Human Exposure to EMF (EMF impact) | Report | ASTAP-26 | ASTAP-34 | INP-32 |
| 9 | GICT&EMF-4 | APT members’ status on the Deployment of Green or Environment friendly ICT project | Report | ASTAP-28 | ASTAP-34 | N/A |

| **No.** | **EG** | **Work Plan no.** | **Title** | **Expected Deliverable** | **Duration** | | **Contributions at  ASTAP-33** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | ITU-T | ITU-T-1 | Practical experience in combating counterfeit and stolen mobile devices | Report | ASTAP-31 | ASTAP-34 | N/A |
| 11 | ITU-T-2 | Technical solutions for optical cable rural backhaul connectivity together with relevant ITU-T standards and its implementation | Report | ASTAP-31 | ASTAP-34 | N/A |
| **WG NS** | | | | | | | |
| 12 | FN& NGN | FN&NGN-1 | Guidelines on application of ICT Trust index to APT Member countries | Report | ASTAP-31 | ASTAP-35 | N/A |
| 13 | FN&NGN-2 | APT Report on AI/ML for networking | Report | ASTAP-33 | ASTAP-36 | INP-16 |
| 14 | DRMRS | DRMRS-1 | Local-area resilient information sharing and communication systems | Report | ASTAP-33 | ASTAP-36 | INP-18 |
| 15 | SACS | SACS-1 | Airport Runway foreign object debris detection system using radio over fiber technologies | Report | ASTAP-32 | ASTAP-34 | INP-05 |
| 16 | SACS-2 | Cascaded free space optical and millimeter-wave communication system for mobile transport and indoor access network | Report | ASTAP-33 | ASTAP-36 | INP-22 |
| 17 | SACS-3 | Seamless access systems for wideband THZ services | Report | ASTAP-33 | ASTAP-36 | INP-24 |
| **WG SA** | | | | | | | |
| 18 | IOT | IOT-1 | High-priority Targets in Goal 11 of SDGS for Smart Sustainable Cities in the APT Region | Report | ASTAP-30 | ASTAP-34 | INP-15, TMP-06 |
| 19 | IOT-2 | Requirements and Framework of IoT Elderly Care Solutions | Report | ASTAP-33 | ASTAP-35 | N/A |
| 20 | IOT-3 | Guidance for Emergency Medical Services in the Digital Age | Report | ASTAP-31 | ASTAP-35 | INP-35, TMP-31 |
| 21 | IS | IS-1 | Framework of 4-tier Cloud Access Security Broker for cloud service security | Guideline | ASTAP-28 | ASTAP-34 | TMP-13 |
| 22 | IS-2 | The Security Guideline: Guideline for Security Use of IT Devices and Services (Revision) | Guideline | ASTAP-31 | ASTAP-34 | INP-31 (Rev1), TMP-51 |
| 23 | IS-3 | Security Guideline for Information and Network Security Management | Guideline | ASTAP-30 | ASTAP-34 | N/A |
| 24 | MA | MA-1 | Survey of IPTV services in APT region | Report | ASTAP-28 | ASTAP-33 | INP-17 |
| 25 | AU | AU-1 | Survey on the Mobile Application Accessibility in the AP Region | Report | ASTAP-27 | ASTAP-33 | INP-29 |
| 26 | AU-2 | Relay Services for Accessible Emergency Communications | Report | ASTAP-31 | ASTAP-36 | N/A |
| 27 | AU-3 | Accessible IoT Services in the AP Region | Report | ASTAP-31 | ASTAP-35 | INP-28 |
| **TOTAL CONTRIBUTIONS TO WORK PLAN** | | | | | | | **19** |

**detail Workplan for EG BSG**

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| **Number** | BSG-1 |
| **Title** | HANDBOOK TO INTRODUCE ICT SOLUTIONS FOR THE COMMUNITY IN RURAL AREAS |
| **Output Document Type** | Report |
| **Group/Chairman** | EG BSG / Mrs. Nguyen Thi Khanh THUAN |
| **Editor(s)** | Dr. Hideyuki IWATA, TTC, Japan ([iwata@s.ttc.or.jp](mailto:iwata@s.ttc.or.jp) )  Mayumi KOBAYASHI ([kobayashi.mayu@jp.fujitsu.com](mailto:kobayashi.mayu@jp.fujitsu.com)) |
| **Scope** | Collecting ICT pilot project cases including e-Agriculture and Aquaculture, e-Education, e-Environment, e-Healthcare, e-Disaster risk management, Smart City, and so on in rural communities and generalizing the knowledge of them. |
| **Purpose** | Providing the actual and useful information to start the related new ICT application projects |
| **Related Documents** | The APT Report on Handbook to introduce ICT solutions for the community in rural area (APT/ASTAP/REPT-13 (Rev.2), August 2017) |
| **Related Organization** | The Telecommunication Technology Committee  (Working Group on BSG) |
| **Timelines** | Aug. 2014: Approval of APT/ASTAP/REPT-13  Sept. 2015: Approval of APT/ASTAP/REPT-13 (Rev.1)  ASTAP-28: Issuing a questionnaire on smart city application case studies  ASTAP-29: (1) Approval to add the e-aquaculture project (APT/ASTAP/REPT-13 (Rev.2)) (2) Postponement of questionnaire on Smart City use case deadline  ASTAP-30: Report on summary of Smart City use case response  ASTAP-31: Contribution of draft revised HANDBOOK (Rev.3) and move to approval  ASTAP-33: Contribution of draft HANDBOOK (Rev.4) to add a case study on e-Healthcare solution and move to approval  After ASTAP-33: Continue to update the report with new case-studies relevant to the scope of work item. |

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| **Number** | BSG-2 |
| **Title** | Guideline on referencing int’l standards in developing national standards in the field of ICT |
| **Output Document Type** | Guideline |
| **Group/Chairman** | EG BSG / Mrs. Nguyen Thi Khanh THUAN |
| **Editor(s)** | Mr. Kihun KIM, TTA, Rep. of Korea (channel@tta.or.kr) |
| **Scope** | The guideline describes type (category) of ICT standards, definition of standards, and general procedure of development of standards as well as general principles in referencing ICT int’l standards when developing standards. This guideline will also provide various cases of national ICT standards of some countries which refers int’l standards. |
| **Purpose** | One of objectives of EG BSG is to assist developing countries in applying ITU-T Recommendations/int’t standards. The purpose of this work item is to provide basic principle and cases of referencing international standards including ITU-T recommendations when developing national standards.  This work item is related to the Strategic Plan of the Asia-Pacific Telecommunity 2015-2017, specifically, 1.4\* of Strategic Actions of the Strategic Plan  \*1.4 Share best practices, skills, regulations, and technologies to reduce the ICT development gap and to further develop ICT infrastructure so as to promote the innovation growth in the region; |
| **Related Documents** | ASTAP-30/INP-33, ASTAP-30/INP-37 |
| **Timelines** | ASTAP-28: Initiation of the project  ASTAP-29: Survey and selection standards list which developing countries have high interests to develop as their national standards  ASTAP-29: Submission of a table of contents of the guideline  ASTAP-30: Collecting cases on various countries  ASTAP-31: Discussion on a draft guideline  ASTAP-31: Submission of the draft guideline  ASTAP-33: Discussion of the draft guideline and submission of the final output to the Plenary meeting  After ASTAP-33: Continue to update the guideline with new case-studies relevant to the scope of work item. |

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| **Number** | BSG-3 |
| **Title** | Guideline on setting up national ICT standardization regime |
| **Output Document Type** | Guideline |
| **Group/Chairman** | EG BSG / Mrs. Nguyen Thi Khanh THUAN |
| **Editor(s)** | Mr. Shizhuo ZHAO, CCSA, P.R.China (zhaosz@ccsa.org.cn)  Mr.Iwata Hideyuki, TTC, Japan ([iwata@s.ttc.or.jp](mailto:iwata@s.ttc.or.jp)) Mr. Ken SUGAWARA, ARIB, Japan (k-sugawara@arib.or.jp)  Mr. Yoshiaki KUMAGAI, ARIB, Japan (y-kumagai@arib.or.jp) Mr. Kihun KIM TTA, Rep. of Korea ([channel@tta.or.kr](mailto:channel@tta.or.kr))  Mr. Thaib Mustafa, MTSFB, Malaysia ([thaibmus@tm.com.my](mailto:thaibmus@tm.com.my)) (**Leader of editors**) |
| **Scope** | The Guideline will provide:   * Rationale for establishing a national standardization regime such as national standard development organization/ committee; * Various models of SDOs/committee to be considered and recommended for APT Members which would suit to their circumstance; * Role and mission of the organization/committee * Role and responsibilities of various stakeholders such as government, industry, academia, etc.; * Practical recommendations to operate the organization/committee.   In order to develop the Guideline, this Work Plan will commence with examining the real needs of developing countries in standardization in particular, setting up national regime for standardization. |
| **Purpose** | This Work Plan and the Guideline will facilitate the understanding of the needs of standardization framework as well as assist APT Members in setting up a national regime in particular a standard development organization or committee. |
| **Related Documents** | <http://www.itu.int/en/ITU-T/gap/Documents/NSSGuidelines.pdf> |
| **Timelines** | ASTAP-29: Initiation of the work plan;  ASTAP-30: Nominating editor  ASTAP-31: Improving the editors members. Send templates to SDOs to get contribution on establishing and running SDO.  ASTAP-32: Discuss the commonalities and differences of SDO’s models. Develop the framework for the Guideline;  ASTAP-34: Determining the first draft of the Guideline;  ASTAP-35: Holding a Standardization Workshop to get feedback from SDOs and Finalizing the draft of the Guideline and publication. |

**detail Workplan for EG PRS**

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| **Number** | **PRS-1** |
| **Title** | **Measurement scenarios and sampling methodologies to assess quality of popular mobile services.** |
| **Output Document Type** | Report |
| **Group/Chair** | EG PRS |
| **Editor(s)** | Mr. Binh VUONG THE ([vtbinh@mic.gov.vn](mailto:vtbinh@mic.gov.vn))  Mr. Khoa NGUYEN VAN ([nvkhoa@mic.gov.vn](mailto:nvkhoa@mic.gov.vn)) |
| **Scope** | The report presents best practice of measurement scenarios and sampling methodologies to assess quality of popular mobile services. This report covers the following:   * Key performance parameters used for end-to-end mobile popular services QoS assessment. * Case studies of APT regulators policies of QoS measurement. * Best practices of measurement scenarios used for field testing (includes but not limited to indoor, outdoor, drive-test), sampling methodologies; general requirements for testing systems used in scenarios. |
| **Purpose** | The purpose of this work item is to provide best practice of measurement scenarios and sampling methodologies for regulator to assess quality of popular services in the mobile network among APT members. |
| **Related Documents** | - ITU-T E.804 “Quality of service aspects for popular services in mobile networks”.  - ITU-T P.863 “Perceptual objective listening quality assessment”.  - ITU-T Q.3691 “Framework for Internet related performance measurements”.  ASTAP-30/IN-13 |
| **Timelines** | ASTAP-30: Initiation of the work item  ASTAP-31:   * Conduct survey to collect case examples from APT countries.   ASTAP-33:   * Submission of draft of the report skeleton.   ASTAP-33 to ASTAP 34: Collect and analyse survey data; draft report  ASTAP-35: Submission of draft report. |

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| **Number** | **PRS-2** |
| **Title** | **Compliance Label of Communication Devices Implemented by APT Member Countries** |
| **Output Document Type** | Report |
| **Expert Group / Chairman** | EG PRS / Mr. Felix Rupokei |
| **Rapporteur(s)** | Ms. Nadia Hazwani Yaakob, MCMC, Malaysia, [nadiahazwani.yaakob@cmc.goc.my](mailto:nadiahazwani.yaakob@cmc.goc.my)  Mr Ahmad Zulhelmi Ab Hamid, MCMC, Malaysia  [zulhelmi.hamid@cmc.gov.my](mailto:zulhelmi.hamid@cmc.gov.my) |
| **Scope** | The scope of this report is to cover the implementation of compliance label of communications devices in APT member countries. |
| **Purpose** | The purpose of this work item is to produce a report on the implementation of compliance label of communications devices in APT member countries. |
| **Related Document** | ASTAP-29/IN-58  ASTAP-30/IN-29 |
| **Related Organization** | APT Member countries |
| **Timelines** | ASTAP-30: Seek approval and initiation of the new work item  ASTAP-31: Seek approval of the draft questionnaire  ASTAP-33: Finalize the report and present to ASTAP plenary for approval. |

**detail Workplan for EG ITU-T**

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| **Number** | ITU-T-1 |
| **Title** | Practical experience in combating counterfeit and stolen mobile devices |
| **Output Document Type** | Report |
| **Relevant EG** | WG PSC, EG BSG |
| **Editor(s)** | Kaoru Kenyoshi (kaoru.kenyoshi@nict.go.jp) |
| **Scope** | Collect information challenges faced by APT member countries and share technical and legal solutions and best practices to combat counterfeit and stolen mobile devices among APT member countries. |
| **Purpose** | Providing practical and useful information to mitigate negative impact of counterfeit and stolen mobile devices. |
| **Related Documents** | Solution for Combating Counterfeit Mobile Handsets: A case of Nepal (ASTAP-31/INP-09) |
| **Related Organization** | ITU-T SG11 |
| **Timelines** | ASTAP-31: Initiate a new work item  ASTAP-32: Introduction of ITU-T SG11 activities with regards to combating counterfeit and stolen mobile devices  ASTAP-33: Revise draft APT report with contributions  ASTAP-34: Finalize APT report |

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| **Number** | ITU-T-2 |
| **Title** | Technical solutions for optical cable rural backhaul connectivity together with relevant ITU-T standards and its implementation |
| **Output Document Type** | Report |
| **Relevant EG** | WG PSC, EG BSG |
| **Editor(s)** | Kaoru Kenyoshi (kaoru.kenyoshi@nict.go.jp) |
| **Scope** | Collect and share use cases in ASTAP member countries regarding implementation of affordable optical cable broadband connectivity in rural area. |
| **Purpose** | Providing practical and useful information to facilitate local community’s toward getting broadband connectivity in an affordable manner. |
| **Related Documents** | Development of new ITU Standards on High-speed Broadband Services for Rural communities, Global Plan Inc., Japan ([ASTAP-31/INF-15](https://www.apt.int/sites/default/files/2019/06/ASTAP-31-INF-15-_Okamura.docx)) |
| **Related Organization** | ITU-T SG15 |
| **Timelines** | ASTAP-31: Initiate a new work item  ASTAP-32: Introduction of ITU-T SG15 activities  ASTAP-33: Revise draft APT report with contributions  ASTAP-34: Finalize APT report |

**detail Workplan for EG GICT & EMF**

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| **No.** | GICT&EMF-1 |
| **Title** | Status Report on Efforts to Green Data Centres in the ICT/Telecommunication sector in the APT member countries |
| **Output Document Type** | Status report |
| **Relevant EG** | EG GICT & EMF |
| **Editor(s)** | Mr. Alex Kuik/ MTSFB, Malaysia  Mr. Nur Akbar Said/ MCIT, Indonesia |
| **Scope** | The scope of this report covers efforts in Asia Pacific region such as policies and activities on the Green Data Centre in the ICT/Telecommunication sector. |
| **Purpose** | The purpose of this report is to share existing regional green data centre efforts and best practices in the ICT/Telecommunication sector; as a reference and baseline document for future standardization work on green data centre. |
| **Related Documents** | ASTAP-26-INF-16, [ASTAP-27/INP-23](http://www.apt.int/sites/default/files/2016/02/ASTAP-27-INP-23-NTT-Datacenter.docx), [ASTAP-27/INP-38](http://www.apt.int/sites/default/files/2016/03/ASTAP-27-INP-38-MTSFB_-_Malaysia_Govt_Data_Centre_Baseline_Study.docx)  [ASTAP-27/INP-39](http://www.apt.int/sites/default/files/2016/03/ASTAP-27-INP-39-MTSFB_-_Malaysia_Technical_Code_Green_Data_Centre.docx), [ASTAP-27/INF-13](http://www.apt.int/sites/default/files/2016/03/ASTAP-27-INF-13-Indonesia-GreenDataCenter.docx), ASTAP-31/INP-45, ASTAP-31/TMP-06 |
| **Related Organization** | APT Member countries |
| **Timelines** | ASTAP-26: Draft (skeleton) Status Report presented and endorsed  Request for members’ contribution  ASTAP-27: Member countries contributions and presentations  Update on the progress of the report  Request for members’ contribution  ASTAP-28: Update and present First Draft Document.  Member countries contribution and presentations  ASTAP-29: Update and present Second Draft Document body.  Finalize the report  ASTAP-30: Update and present draft report on the base of input documents  ASTAP-31: The final draft report was approved at the ASTAP 31 plenary and published as APT-ASTAP-REPT-43-Green Data Centre.  ASTAP-34: 1st amendment work will be available based on input documents. |

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| **No.** | GICT & EMF-2 |
| **Title** | Status report for standardization activities on e-waste and rare metals |
| **Output Document Type** | Status report |
| **Relevant EG** | EG GICT & EMF |
| **Editor(s)** | Dr. Bum Sung Kim/ KITECH, Republic of Korea  Dr. Artprecha Rugsachart/NBTC, Thailand |
| **Scope** | The scope of this report introduces e-waste & rare metal related strategies, activities & management systems of international organizations as well as APT member countries. |
| **Purpose** | The purpose of this report is to share information related to E-waste & rare metals in order to raise awareness on the possible hazards & values of E-waste and rare metals. |
| **Related Documents** | ASTAP-23-OUT-14Rev.2  ASTAP-24-OUT-25  ASTAP-25-OUT-06Rev.1  ASTAP-28/INP-45  ASTAP-29-INP-41, ASTAP-29-INP-66, ASTAP-29-TMP-37  ASTAP-30/INP-50. ASTAP-30/TMP-04  ASTAP-31/INP-51, ASTAP-31/INP-52, |
| **Related Organization** | APT member countries |
| **Timelines** | ASTAP-26: Request for members’ contribution  ASTAP-27: Member countries contributions and presentations  update on the progress of the report  ASTAP-28: Member countries contributions and presentations  request for members’ contribution and draft status report  ASTAP-29: Member countries contributions and presentations  case study and best practices  ASTAP-30: Final report was approved in the ASTAP30 closing plenary and published as APT-ASTAP-REPT-30-Ewaste and Rare metals  ASTAP-33: Discussion to prepare the 1st amendment and agreement to carry it out at the ASTAP-34  ASTAP-34: 1st amendment task will be carried out. Contributions are needed to update the contents of the report. |

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| **No.** | GICT&EMF-3 |
| **Title** | Status report of Asia Pacific regional activities on human exposure to EMF (EMF impact) |
| **Output Document Type** | Status Report |
| **Relevant EG** | EG GICT&EMF |
| **Editor(s)** | Mr. Alex Kuik/ MTSFB, Malaysia  Dr. Juno An/IFRE, Republic of Korea |
| **Scope** | The scope of this Status Report cover international regulations and guidelines, related international activities of EMF exposure, national policy, regulation and guideline for EMF exposure, awareness and education outreach activities of EMF exposure in the APT member countries. |
| **Purpose** | The purpose of this Status Report is to share existing regional activities and best practices in order to raise awareness on the human exposure to EMF. This document can be a reference for future standardization activities. |
| **Related Documents** | ASTAP-24-OUT-25, ASTAP-25-TMP-16, ASTAP-26-INF-15,  ASTAP-27/INP-46, ASTAP-27/INP-47, ASTAP27/INP-09, ASTAP27/TMP-05  ASTAP-30/INP-51, ASTAP-30/INP-47, ASTAP-30/INP-49  ASTAP-31/INP-54, ASTAP-31/INF-08, ASTAP-31/TMP-57 |
| **Related Organization** | APT member countries |
| **Timelines** | ASTAP-26: Request for members’ contribution  ASTAP-27: Member countries contributions and presentations  Update on the progress of the report  ASTAP-28: Member countries contribution and presentations, draft the status report  ASTAP-29: Finalize the report and approved in the ASTAP 29  ASTAP-31:1st amendment draft report was approved in the ASTAP plenary and published as APT-ASTAP-REPT-29-R1-Human exposure to EMF  ASTAP-33: Discussion to update the report and agreement to carry it out at the next ASTAP 34 meeting  ASTAP-34: Development of the 2nd amendment of the report based on the input documents from the member countries |

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| **No.** | GICT & EMF-4 |
| **Title** | APT members’ status on the deployment of green or environment friendly ICT project |
| **Output Document Type** | Report |
| **Relevant EG** | EG GICT&EMF |
| **Editor(s)** | Mr. Ratnam N. A./ MTSFB, Malaysia  Mr. Nguyen Van Khoa/ MIC, Vietnam |
| **Scope** | To collect use cases from any implementation of green ICT projects or applications from APT members and affiliate members including green ICT policies and strategies with key successful factors or challenges. |
| **Purpose** | To develop a report which will be a reference to prepare APT guideline for best practices and environment friendly policies for effective ICT deployment methods. |
| **Related Documents** | WTSA-16 Res. 73, ASTAP-28-INF-10, Presentations at Industry Workshop "Rare metal and e-waste" held at ASTAP-23, APT Report #1 "Introduction to Green ICT activities"  ASTAP-29-TMP-10  ASTAP-30/INF-12,  ASTAP-31/INP-30, ASTAP-31/TMP-07 |
| **Related Organization** | APT members and affiliate members |
| **Timelines** | ASTAP-28: Propose work plan  Request for members’ contribution  ASTAP-29: Member countries contributions and presentations  Update on the progress of the report  Request for members’ contribution  ASTAP-30: Update and present 1st draft report  Member countries contribution and presentations  ASTAP-31: Update and present 2nd draft report  Finalize the report. Extend the deadline to ASTAP-32  ASTAP-33: No progress  ASTAP-34: Discussion on any activities and contribution for this work item |

**Detailed Work Plans**

**A. EG FN&NGN**

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| --- | --- |
| **Number** | FN&NGN-1 |
| **Title** | Guidelines on application of ICT Trust index to APT members countries |
| **Document Type** | Report |
| **Group/Chair** | FN&NGN-EG / Dr. Joon Won LEE |
| **Editor(s)** | Dr. Joon Won LEE |
| **Scope** | To make the guidelines of ICT trust index application to APT members countries. |
| **Purpose** | To emphasize the importance of ICT trust area.  To facilitate the application of trust index to APT member countries. |
| **Related Documents** | Recommendation ITU-T Y.3052 : Overview of trust provisioning for information and communication technology infrastructure  and services  Draft Recommendation Y.trust-index: Trust index for ICT infrastructures and services |
| **Related Organization** | ITU-T SG13 (Q16/13) |
| **Timelines** | ASTAP31: Initiate a work item  ASTAP32: Follow-up ITU-T SG13 activities  ASTAP34: Draft APT report  ASTAP35: Final APT report |

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| **Number** | FN&NGN-2 |
| **Title** | APT Report on AI/ML for networking |
| **Output Document Type** | Report |
| **Relevant EG** | EG FN&NGN |
| **Editor(s)** | Mr. Kazunori TANIKAWA (NICT, kaz.tanikawa@nict.go.jp) |
| **Scope** | The scope of this work item is followings:  1) to survey information on technical standards on AI/ML for networking, which are mainly in ITU-T. Detailed aspects are;  - Expect use case using AI/ML techniques for networking;  - Key technologies for AI/ML for networking;  - General architectural frameworks for AI/ML for networking.  2) and to show guidelines for the usage of AI/ML for networking in APT member countries. |
| **Purpose** | The purpose of this work item is to introduce technical standards including use cases on AI/ML for networking for practical usage in APT member countries. |
| **Related Documents** | * ITU-T Y.3172 “Architectural framework for machine learning in future networks including IMT-2020”; * ITU-T Y.Sup55 : ITU-T Y.3170-series - Machine learning in future networks including IMT-2020: use cases; * ASTAP-33/INP-16; * ASTAP-33/INF-03. |
| **Timelines** | ASTAP-33: Initiation of the work item  ASTAP-34: Submission of draft report  ASTAP-35: Continuous surveying of standards on AI/ML for networking in various SDOs  ASTAP-36: Submission of finalized report |

**B. EG DRMRS**

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| **Number** | DRMRS-1 |
| **Title** | Local-area resilient information sharing and communication systems |
| **Output Document Type** | APT Report |
| **Relevant EG** | EG DRMRS |
| **Editor(s)** | Dr. Toshiaki KURI (NICT, kuri@nict.go.jp)  Dr. Masugi INOUE (NICT, inoue@nict.go.jp) |
| **Scope** | The scope of this work item are follows:  1) to survey on technical specifications on local communications and information sharing without public network services. Detailed study points are;   * An overview of local-area information sharing and communication system without public network services in peacetime and during/after disaster; * resilient capabilities and specifications based on both network-layer and information-layer technologies; * its use cases.   2) and to show guidelines for the usage of the system in APT member countries. |
| **Purpose** | The purpose of this work item is to introduce technical specifications and use cases on local-area resilient information sharing and communication systems for practical usage in APT member countries. |
| **Related Documents** | * ITU-D SG2 Question 5/2 Output Report "Utilization of telecommunications/ICTs for disaster preparedness, mitigation and response" * ASTAP-33/INP-18; |
| **Timelines** | ASTAP-33: Initiation of the work item  ASTAP-34: Submission of initial text of draft report  ASTAP-35: Submission of updated text  ASTAP-36: Submission of finalized report |

**C. EG SACS**

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| **Number** | SACS-1 |
| **Title** | AIRPORT RUNWAY FOREIGN OBJECT DEBRIS DETECTION SYSTEMS USING RADIO OVER FIBER TECHNOLOGIES |
| **Document Type** | Report |
| **Group/Chairman** | EG SACS / Dr. Hiroyo OGAWA |
| **Editor(s)** | Dr. Sevia Mahdaliza Idrus, Malaysia (sevia@utm.my) |
| **Scope** | This report provides the technical specifications of the RoF network for the FOD detection system. Specific specification of the network in the FOD detection system is also provided to detect the small FODs under tropical weather conditions. |
| **Purpose** | To provide technical guidance to APT member countries to implement RoF transmission links in the FOD detection system. |
| **Related Documents** | APT/ASTAP/REPT-03: Characteristics and requirements of optical and electrical components for millimeter wave radio on fiber systems  APT/ASTAP/REPT-11: Wired and wireless seamless connections using millimeter-wave radio over fiber technology for resilient access networks  ITU-T G.9803: Radio over Fiber Systems |
| **Related Organization** | ITU-T SG15 (Q2/15) |
| **Timelines** | ASTAP-32   * + - No EG meeting     - Review work plan   ASTAP-33   * + - Consider the input contributions     - Continue drafting a working document of a draft new APT Report     - Prepare a liaison statement to SG15 Q2 if necessary   ASTAP-34   * + - Finalize the draft new APT Report and submit to the plenary |

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| **Number** | SACS-2 |
| **Title** | CASCADED FREE SPACE OPTICAL AND MILLIMETER-WAVE COMMUNICATION SYSTEM FOR MOBILE TRANSPORT AND INDOOR ACCESS NETWORK |
| **Document Type** | Report |
| **Group/Chairman** | EG SACS / Dr. Hiroyo OGAWA |
| **Editor(s)** | Dr. Pham Tien Dat, Japan (ptdat@nict.go.jp) |
| **Scope** | This report provides the technical specifications and the application use cases of the hybrid wireless system based on free-space optical communication and millimeter-wave communication systems. Specific specification of the transceiver and network is also provided in the transmission of the signals. |
| **Purpose** | To provide technical guidance to APT member countries to implement hybrid wireless system based on free space optical and millimeter-wave communication systems utilized in mobile fronthaul/backhaul and indoor access networks. |
| **Related Documents** | APT/ASTAP/REPT-03: Characteristics and requirements of optical and electrical components for millimeter wave radio on fiber systems  APT/ASTAP/REPT-09: APT Report on Direct Single-Mode-Fiber Coupled Free Space Optical Communications to Expand the Flexibility in Fiber-Based Services  APT/ASTAP/REPT-11: Wired and wireless seamless connections using millimeter-wave radio over fiber technology for resilient access networks  ITU-T G.640: Co-location longitudinally compatible interfaces for free space optical systems  ITU-T G.9803: Radio over fiber systems  ITU-T G.9991: High-speed indoor visible light communication transceiver – System architecture, physical layer and data link layer specification |
| **Related Organization** | ITU-T SG15 (Q2/15) |
| **Timelines** | ASTAP-33   * + - Develop a new workplan     - Initiate the work on free space optical and millimeter-wave communication systems   ASTAP-34   * + - Consider the input contributions     - Continue drafting a working document of a draft new APT Report     - Prepare a liaison statement if necessary   ASTAP-35   * + - Consider the input contributions     - Continue drafting a working document of a draft new APT Report     - Prepare a liaison statement if necessary   ASTAP-36   * + - Finalize the draft new APT Report and submit to the plenary |

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| **Number** | SACS-3 |
| **Title** | SEAMLESS ACCESS SYSTEMS FOR WIDEBAND THZ SERVICES |
| **Document Type** | Report |
| **Group/Chairman** | EG SACS / Dr. Hiroyo OGAWA |
| **Editor(s)** | Dr. Tetsuya Kawanishi, Japan (kawanishi@waseda.jp) |
| **Scope** | This report provides the technical specifications of the seamless access systems for wideband THz services. Specific specification of the optical networks or signal processing in the seamless access systems is also provided to mitigate impact of the THz wave interference. |
| **Purpose** | To provide technical guidance to APT member countries to implement seamless access systems for wideband THz services. |
| **Related Documents** | APT/ASTAP/REPT-03: Characteristics and requirements of optical and electrical components for millimeter wave radio on fiber systems  APT/ASTAP/REPT-04: Technology trends of telecommunications above 100GHz  APT/ASTAP/REPT-11: Wired and wireless seamless connections using millimeter-wave radio over fiber technology for resilient access networks  ITU-T G.9803: Radio over fiber systems |
| **Related Organization** | ITU-T SG15 (Q2/15) |
| **Timelines** | ASTAP-33   * + - Develop a new workplan     - Initiate the work on seamless access systems for wideband THz services   ASTAP-34   * + - Consider the input contributions     - Continue drafting a working document of a draft new APT Report     - Prepare a liaison statement if necessary   ASTAP-35   * + - Consider the input contributions     - Continue drafting a working document of a draft new APT Report     - Prepare a liaison statement if necessary   ASTAP-36   * + - Finalize the draft new APT Report and submit to the plenary |

**detail Workplan for EG IOT**

1-1

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| **Title** | **Report on High-Priority Targets in Goal 11 of SDGs for Smart Sustainable Cities in the APT Region** |
| **Output Document Type** | APT Report |
| **Group/Chair** | EG IOT / Dr. Toru Yamada |
| **Editor(s)** | Dr. Masahiro Serizawa |
| **Scope** | The scope of this work item is followings:  - This document reports high-priority targets in the 11th goal of Sustainable Development Goals (SDGs) for APT member countries.  - This document reports specific actions and policies of the member countries toward the high-priority targets. |
| **Purpose** | A lot of cities have introduced Smart Sustainable City solutions in order to solve social issues. Since the social issues are different from city to city, various Smart Sustainable City solutions have been developed for the different social issues.  The Sustainable Development Goals (SDGs) identify 17 goals and 169 targets for social and economic development issues to be solved by 2030. The 11th goal of the SDGs identifies ten targets for sustainability of cities and humans.  In the APT region, there are a lot of countries with various social issues. It is considered that each country has different priority levels regarding the targets defined by SDGs. For providers of Smart Sustainable City solutions, it will be important to recognize high-priority targets of countries when they consider to develop optimal solutions for each country. It is also useful for country/city government to know status of neighboring regions when it makes policies to achieve the targets. |
| **Related Document** | [ASTAP-33/TMP-06](https://www.apt.int/sites/default/files/2021/06/ASTAP-33-TMP-06-Update-Report-Goal11-SDGs.docx) |
| **Timelines** | ASTAP-34, 2022 |
| **Relevance to APT Strategic Plan** | 1.4, 2.1, 2.3, 6.2, 8.1, 8.6 |

1-2

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| --- | --- | --- |
| **Title** | | **Requirements and Framework of IoT Elderly Care Solution** |
| **Output Document Type** | APT Report | | |
| **Group/Chair** | EG IOT / Dr. Toru Yamada | | |
| **Editor(s)** | Dr. Gopinath Rao Sinniah | | |
| **Scope** | The scope of this work item is followings:   * Introduction to Elderly care ecosystem including the need for elderly care solutions * Use cases of elderly care solution * Requirements of the elderly care solution * Existing elderly care solutions that have been deployed and challenges within the scope of implementation | | |
| **Purpose** | Monitoring of elderly people remotely would reduce the anxiety of the family members. As the aging nations are increasing, it is crucial that a proper system is in place to monitor the elderly people. As such, it is important to provide the requirements and framework of an IoT elderly care use case that will benefit countries. The purpose of this are   * Provide report on the use cases of Elderly care solution * Provide report on the requirements of Elderly care solution * Provide report on existing solutions from APT member countries | | |
| **Related Document** | ASTAP-31/TMP-18 | | |
| **Timelines** | ASTAP-33 (2021): Submission of the revised draft  ASTAP-35 (2022): To ask approval for the final output at plenary | | |
| **Relevance to APT Strategic Plan** |  | | |

1-3

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| **Title** | | **Guidance for Emergency Medical Services in the Digital Age** |
| **Output Document Type** | APT Report | | |
| **Group/Chair** | EG IOT / Dr. Toru Yamada | | |
| **Editor(s)** | Dr. Teerawat Issariyakul | | |
| **Scope** | The scope of this work item is followings:  Provide information of Emergency Medical Service in member countries. The EMS policy makers can use the blueprint as a starting point, and customize the blueprint according to the context of their countries. | | |
| **Purpose** | To providing a best practice for integrating digital technology into pre-hospital emergency care. | | |
| **Related Document** | ASTAP-33/TMP-31 | | |
| **Timelines** | ASTAP-31 (2019) Project initialization  ASTAP-33 (2021) Survey, collect, and analyze related standards  ASTAP-34 (2022) Consider input contribution  ASTAP-35 (2022) Submission of report | | |
| **Relevance to APT Strategic Plan** |  | | |

**detail Workplan for EG IS**

2-1

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| --- | --- |
| **Title** | Guidelines for Framework of 4-tier Cloud Access Security Broker for cloud service security |
| **Output Document Type** | Guideline |
| **Group/Chair** | EG IS / Miho Naganuma |
| **Rapporteur (s)** | Kihyo Nam and Heuisu Ryu |
| **Scope** | This document is to provide a framework of 4-tier CASB with following below. Here are some of the following, including what to include in the future.   * Introduction to gap analysis of standard activity * Access Control Protocol for Cloud Service Security in 4-tier CASB * Security control process for efficient cloud service security in 4-tier CASB environments * Secure communication protocols between CASBs in 4-tier CASB settings * Methods to manage security control for CASB and non-CASB secure devices in BYOD(Bring Your Own Device) environments * Simulation and performance evaluation of the framework |
| **Purpose** | This draft document is to propose the framework that has to be included in 4-tier cloud access security broker (CASB), consisted of secure agent, CASB proxy, CASB inline gateway, and CASB secure API.  The discussion and the outcome of this work item are related to efficiency of cloud service security. Many security companies around the world are developing and selling CASB products. CASB products can be divided by four types, but many problems may arise in a heterogeneous CASB environment, such as overlapping and overload of security control, inconsistency or desynchronizing of security policy, and bypassing. This document provides the framework of 4-tier CASB solving these problems. |
| **Related Document** | [ASTAP-31/TMP-13](https://www.apt.int/sites/default/files/2019/06/ASTAP-31-TMP-13-4th_document_version_of_Framework_of_Cloud_Security_Broker_for_cloud_service_security_2_0.docx) |
| **Timelines** | Final output: ASTAP-34 (2022) |

2-2

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| **Title** | The Security Guideline: Guideline for Security use of IT Devices and Services (Revision) |
| **Output Document Type** | Guideline |
| **Group/Chair** | EG IS / Miho Naganuma |
| **Rapporteur (s)** | Dongil Seo, Heuisu Ryu and Miho Naganuma, |
| **Scope** | This document is to guide minimum security points that have to be noticed by ICT users. It can be applied to general situation and all ICT users – it is worth understanding that users can protect their data with careful attention and basic knowledge.  The guidelines in this document are for all users of ICT devices such as smartphone, PC, tablet PC, and services such as electronic bank transfer and SNS. |
| **Purpose** | EGIS published this first guideline at the ASTAP-28 meeting.  In ASTAP-29, it was also agreed to revise it to update recent technologies and solutions for security issues/topics accordingly. The final revised document is available at ASTAP-31 ([ASTAP-31/TMP-51](https://www.apt.int/sites/default/files/2019/06/ASTAP-31-TMP-51-Base_text_of_security_guidelines_for_ITdevices__services-revision.docx)). |
| **Related Document** | [ASTAP-31/TMP-51](https://www.apt.int/sites/default/files/2019/06/ASTAP-31-TMP-51-Base_text_of_security_guidelines_for_ITdevices__services-revision.docx) |
| **Timelines** | Final output: ASTAP-34 (2022) |

2-3

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| --- | --- |
| **Title** | Security Guidelines for Information and Network Security Management |
| **Output Document Type** | Guideline |
| **Group/Chair** | EG IS / Miho Naganuma |
| **Rapporteur (s)** | Thaib Mustafa and Rafeah Omar |
| **Scope** | The scope covers the security guideline for establishing, implementing, maintaining and continually improving an information and network security management within the context of an organization. |
| **Purpose** | The purpose of this work item is to provide a security guidelines that are generic and intended to be applicable to all organizations, regardless of size, type or nature. This guideline also includes the assessment and treatment of information security risks tailored to the needs of the organization. |
| **Related Document** | [ASTAP-31/TMP-59](https://www.apt.int/sites/default/files/2019/06/ASTAP-31-TMP-59-Guideline_for_Information_and_Network_Security_Management.docx) |
| **Timelines** | Final output: ASTAP-34 (2022) |

**detail Workplan for EG MA**

3-1

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| **Title** | Survey of IPTV services in APT region |
| **Output Document Type** | Report |
| **Group/Chair** | EG MA / Hideki Yamamoto |
| **Editor(s)** | JEE-IN KIM, Konkuk University, KOREA (Republic of)  Email: jeeink@gmail.com  Hideki Yamamoto, Oki Electric Industry Co., Ltd., Japan  Email: yamamoto436@oki.com |
| **Scope** | Survey of IPTV commercial and/or prototype service. |
| **Purpose** | To assist the basic design of deployment of IPTV services in Asia Pacific region |
| **Related Document** | ASTAP-25/INP-25,  ASTAP-28/TMP-18 “Draft Liaison statements of EG MA” (ASTAP-28/OUT-17 “Liaison Statement to ITU-T SG16, and ITU-T SG9 on IPTV Survey Study”)  ASTAP-29/INP-07 (SG9-LS17) “Reply liaison statement from ITU-T SG9 “  ASTAP-29/INP-07 (SG16-LS37) “Reply liaison statement from ITU-T SG16” |
| **Timelines** | ASTAP-28: Discussion of draft Questionnaire, issuing liaison statement on call for contribution on questionnaire.  ASTAP-29: Approval of Questionnaire  ASTAP-33: Approval of the report |

**EG AU**4-1

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| **Title** | **Survey on the Mobile Application Accessibility in the AP Region** |
| **Output Document Type** | Report |
| **Relevant EG** | Accessibility & Usability |
| **Editor(s)** | Yong Lee, Center for Accessible ICT, Hark Sohn, SCE Inc, and Jee-In Kim, Konkuk University (Republic of Korea) |
| **Scope** | The report describes the status of mobile application accessibility and its standardization activity in the APT region. The report can be used to promote the mobile accessibility strategies of the APT countries and the international standardization activities. The current issues with the mobile application accessibility and its improvement are discussed. The status and work plans of the APT countries in the mobile application accessibility are also discussed. |
| **Purpose** | The report aims to provide with general understanding of the status of the standardization activities for mobile application accessibility in the APT countries. It is also aimed to identify standardization issues of mobile application accessibility in the region. The mobile application developers can have information for their design and implementation of mobile applications which is accessible by persons with disabilities in the APT countries. The standard developers, who deal with national as well as international standards, are also able to utilize the report. |
| **Related Documents** | ASTAP-31/INP-49 “Draft Report of Surveying Mobile Accessibility in the APT Region”  ASTAP-33/INP-29 “Report of Surveying Mobile Accessibility in the APT Region” |
| **Related Organization** | TTA, KATS and NIA, Korea  TTC, JBMIA and JISC, Japan  TISI, NECTEC and NBTC, Thailand and the APT countries  ITU-T Q26/16 |
| **Timelines** | 2016 ASTAP-27: Initiation and discussion on the direction of the report  2017 ASTAP-28: Detailed planning and preparing a draft.  2017 e-mail correspondence group: Discussion on the draft  2017 ASTAP-29: Start the survey process  2017 ~ 18: e-mail correspondence group: Collecting data and preparing the report  2018 ASTAP-30: Discussion and submission of the preliminary report  2018 ~ 19: Collecting data from more APT countries and preparing the final report  2019 ASTAP-31: Discussion and revision of the report  2021 ASTAP-33: Submission of the final report |

4-2

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| --- | --- |
| **Title** | **Relay Services for Accessible Emergency Communication** |
| **Output Document Type** | Report |
| **Relevant EG** | Accessibility & Usability |
| **Editor(s)** | Wantanee Phantachat, Nattanun Thatphithakkul, Analanda Chotimongkol, NSTDA (Thailand), Yong Lee, Center for Accessible ICT (Republic of Korea) and Jee-In Kim, Konkuk University (Republic of Korea) |
| **Scope** | The report describes the status and the use cases of relay services for accessible emergency communication in the AP region. The report can be used to promote relay services for accessible emergency communication in the APT countries. The current issues, use cases and their improvement are discussed. The status and work plans of the APT countries in relay services for accessible emergency communication are also discussed. |
| **Purpose** | The report aims to provide with general understanding of the status and the use cases of relay services for accessible emergency communication in the AP countries. It is also aimed to identify standardization issues of the relay services for accessible emergency communication in the region. The relay service for accessible emergency communication providers can have information for their operations and improvements of the relay services for emergency communication accessible by persons with hearing and speaking impairments in the APT countries. The standard developers, who deal with national as well as international standards, are also able to utilize the report. |
| **Related Documents** | ASTAP-31/INF-21 “Relay Service with Accessible Emergency Communication” |
| **Related Organization** | TTA, KATS and NIA, Korea  TTC, JBMIA and JISC, Japan  TISI, NECTEC and NBTC, Thailand and the APT countries  ITU-T Q26/16 |
| **Timelines** | 2019 ASTAP-31 ~ 2021 ASTAP-33: Initiation and discussion on the direction of the report  2022 ASTAP-34: Approval of a questionnaire, detailed planning and preparing a draft.  2023 ASTAP-35: Collection of inputs from the AP countries  2024 ASTAP-36: Discussion and submission of the final report |

4-3

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| **Title** | **Accessible IoT Services in the AP Region** |
| **Output Document Type** | Report |
| **Relevant EG** | Accessibility & Usability |
| **Editor(s)** | Yong Lee, Center for Accessible ICT, Hark Sohn, SCE Inc., and Jee-In Kim, Konkuk University (Republic of Korea) |
| **Scope** | The report describes examples of accessible Internet of Things (IoT) and Smart Cities applications that provides useful services to citizens including persons with disabilities, those with age-related disabilities and those with specific needs. The use cases may include specific services for persons with disabilities as well as services for everyone that provides accessibility features for persons with disabilities. |
| **Purpose** | The report aims to provide use cases of possible application that provide accessibility services. There are many possible IoT services in various environments that provide accessibility services such as home automation services, IoT for work environments, transportation services, etc. For example, home automation services can increase the capacity for independent living for persons with disabilities, persons with age related disabilities and those with specific needs. The report shall provide understanding IoT services for persons with disabilities, and also promote and address the necessity and importance of accessibility considerations in IoT services developments. |
| **Related Documents** | ASTAP-31/INP-50 “Overview of ITU-T Recommendation Y.4204 Accessibility Requirements for Internet of Things Applications and Services”  ASTAP-33/INP-28 “Accessible IoT Use Case – Preventive Safety Service System of Korea” |
| **Related Organization** | ETRI, TTA and NIA, Korea  TTC, JBMIA and JISC, Japan  TISI, NECTEC and NBTC, Thailand and other APT countries  ITU-T SG20/Q2, SG16/Q26 |
| **Timelines** | 2019 ASTAP-31 ~ 2021 ASTAP-33: Initiation and discussion on the direction of the report  2022 ASTAP-34: Collection of use cases from the APT countries  2023 ASTAP-35: Publication of final report |