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| ITU logo | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATION STANDARDIZATION SECTOR**STUDY PERIOD 2017-2020 | TSAG-TD942 |
| **TSAG** |
| **Original: English** |
| **Question(s):** | N/A | E-Meeting, 11-18 January 2021 |
| **TD(Ref.:** [SG2-LS176](http://handle.itu.int/11.1002/ls/sp16-sg2-oLS-00176.docx)) |
| **Source:** | ITU-T Study Group 2 |
| **Title:** | LS on ITU-T SG2 lead study group activities [from ITU-T SG2] |
| **Purpose:** | Information |
| **LIAISON STATEMENT** |
| **For action to:** | - |
| **For comment to:** | - |
| **For information to:** | TSAG |
| **Approval:** | ITU-T Study Group 2 management (8 January 2021, by correspondence) |
| **Deadline:** | N/A |
| **Contact:** | Phil RushtonUK | Tel: +44 1206 729738E-mail: philrushton@rcc-uk.uk  |

A new liaison statement has been received from SG2.

This liaison statement follows and the original file can be downloaded from the ITU ftp server at <http://handle.itu.int/11.1002/ls/sp16-sg2-oLS-00176.docx>.

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| **STUDY GROUP 2** |
| **Original: English** |
| **Question(s):** | All/2 |  |
| **(Ref.:** [**SG2-TD1266-R1**](https://www.itu.int/md/T17-SG02-201218-TD-GEN-1266/en)**)** |
| **Source:** | ITU-T Study Group 2 |
| **Title:** | LS on ITU-T SG2 lead study group activities |
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| **Keywords:** | Numbering, Naming, Identifiers, Services, Routeing, Telecommunications Management, Fraud Management. |
| **Abstract:** | This liaison contains the report of the ITU-T SG2 on lead study group activities (September to December 2020). |

# Background

According to Resolution 2 of WTSA-16, ITU-T SG2 is the lead study group on:

– Lead study group on numbering, naming, addressing, identification and routing

– Lead study group on service definition

– Lead study group on telecommunications for disaster relief/early warning, network resilience and recovery

– Lead study group on telecommunication management

# Report of ITU-T SG2 on lead study group activities (September – December 2020)

## 2.1 Allocation of Global Resources

These resources are assigned by the Director of the TSB in accordance with the criteria detailed in the relevant ITU-T Recommendations that are under the responsibility of ITU-T SG2. These criteria are both service based and network based.

The activity in support of allocations for service based allocations, for the period between SG2 meetings (September – December 2020), is as follows:

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| **Number of processed requests for UIFN =**  (A) - Number of Assigned and implemented UIFN = 85 (C) - Number of Cancelled UIFN = 2 (D) - Number of Disconnected UIFN = 101 (M) - Number of Modified UIFN’s Details = 33 (O) - Number of UIFN Operated by a secondary operator = 15 (X) - Number of UIFN Disconnected by a secondary operator = 5 (R) - Number of Reserved UIFN = 99 (S) - Number of Temporary Reserved UIFN = 36 (Y) + (Z) - Number of Transferred UIFN to another ROA = 20 | **396** |
| **Number of processed requests for Universal International Premium Rate Number** | **0** |
| **Number of processed requests for Universal International Shared Cost Number** | **0** |
| **Number of processed requests for ITU International Network Designator ATM End System Address** | **0** |

In addition, the following resources were allocated to networks:

**Applications for E.164 and E.212 shared codes**

The following applications for global resources are still being progressed:

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| --- | --- |
| **Applicant** | **Request/application** |
| Nokia | Request for an E.212 shared MCC and MNC and an E.164 shared CC and IC for Nokia |
| Afinna One Srl | Request for an E.164 shared CC and IC for Afinna One Srl |
| Flo Live Limited | Request for an E.212 shared MCC and MNC for Flo Live Limited |

The following applications were reviewed and progressed at the SG2 meeting in September 2020 as the request was deemed to be outside of current criteria, or the request required guidance from the study group:

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| **Applicant** | **Request/Application** |
| WGT (World’s Global Telecom) | WGT's initiative of global mobile digital platform for people with disabilities (GLEOSS) |

The following applications are awaiting a response from the applicant:

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| --- | --- |
| **Applicant** | **Request/Application** |
| Athalos PRS-Telecom | Request for an E.164 shared CC and IC for Athalos |
| OCHA | Reservation of E.164 CC 888 and E.212 MCC and MNC 901 88 for humanitarian purposes to OCHA |
| G3ict | Application for the allocation by ITU of the 887 Country Code to G3ict to establish a global telecommunication service for Persons with Disabilities in cooperation with WGT |

An inquiry regarding the assignment of 4-digit IINs was received by TSB and, in light of the ongoing work to update Recommendation ITU-T E.118, was submitted to the NCT for consideration at its meeting held on 23 November. The NCT’s response is repeated below.

*A request from an industry consortium on the role of E.118 identifiers was brought to the attention of the NCT, specifically who did the E.118 identifiers identify? And were card manufacturers able to use the identifiers?*

*An initial discussion on the questions raised several issues.*

*E.118 identifiers were originally associated with the home country direct service and were used by operators/service providers for the purpose of accounting. Over time the use of E.118 identifiers have evolved to other uses, such as identifiers on SIM cards in mobile phones. In both cases the principle intended use of the identifiers has been maintained.*

*That said there are examples of some Member States assigning such resources to chip manufacturers. Such an approach by Member States reflects reality, namely that Member States can utilise the resources to their own requirements. Such an approach brings with it responsibility.*

*Setting aside the proposed amendments to the current Recommendation ITU-T E.118, which reflect an approach by the GSMA to assign UICC identifiers, the assignment of the resource is by Member States, and they can make such assignments according to their national requirements. That said were such an assignment be made to a consortium then the question over the proposed use and how overall control of the resource would be exercised were identified as initial comments.*

## 2.2 Reports of misuse

No reports of misuse were received by TSB during the period September – December 2020.

## 2.3 Recommendations

At its last meeting (December 2020), SG2 took the following decisions with respect to:

Recommendations Approved

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| Rec. # | Rec. title | Documents |
| ITU-T E.212 (2016) Amd.3 | The international identification plan for public networks and subscriptions - Annex H: Criteria and procedures for the assignment and reclamation of shared ITU-T E.212 mobile country codes (MCC) for regional and other international organizations (ROIO)/standards development organization (SDO)-specified networks and their respective mobile network codes (MNCs) | [SG2-TD1230-R1](https://www.itu.int/md/T17-SG02-201218-TD-GEN-1230) |

Recommendations Determined under TAP

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| --- | --- | --- |
| Rec. # | Rec. title | Documents |
| E.157 (revised) | International calling party number delivery | [SG2-TD1246-R1](https://www.itu.int/md/T17-SG02-201218-TD-GEN-1246/en) |

Recommendations Consented under AAP

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| --- | --- | --- |
| Rec. # | Rec. title | Document |
| M.3080(ex M.AI-tom) | Framework of AI enhanced Telecom Operation and Management (AITOM) | [SG2-TD1253-R1](https://www.itu.int/md/T17-SG02-201218-TD-GEN-1253) |

**Supplements or other non-normative texts approved**

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| Supp.# | **Supp. Title** | **Document** |
| TR.TRAFGR | Technical report of the analysis of F.930 for global resource assignment | [SG2-TD1254](https://www.itu.int/md/T17-SG02-201218-TD-GEN-1254/en) |

## 2.4 Proposal to create a new focus group

A proposal was received to create a new Focus Group on "Artificial Intelligence for Natural Disaster Management" (FG-AI4NDM). The rationale and draft Terms of Reference for the group are contained in [*SG2-C292*](https://www.itu.int/md/T17-SG02-C-0292/en), submitted by Fraunhofer HHI & IIS (Germany), Monash Data Futures Institute (Australia), The University of Tokyo (Japan), TU Berlin (Germany), UNEP, Universidad Del País Vasco (Spain) , Université de Genève (Switzerland), WMO.

As a result of discussions between the Chairman of ITU-T SG2 and supporters of the proposal in order to clarify the potential scope of the focus group, the Chairman of ITU-T SG2 prepared [SG2‑TD1274](https://www.itu.int/md/T17-SG02-201218-TD-GEN-1274), which was put forward for a decision by the SG2 e-plenary on 18 December 2020.

After discussion, the study group agreed to create the new focus group using the Terms of Reference given in [SG2-TD1274-R1](https://www.itu.int/md/T17-SG02-201218-TD-GEN-1274/en). Meeting participants agreed that due all the regions of the ITU, including Developing Countries, should be broadly represented in the management team and among the participants. Proponents of the group committed to contribute to the work, and the decision to create the focus group was supported by the following Member States: Argentina, Burundi, Canada, China, Cyprus, Egypt, Germany, Greece, India, Korea (Republic of), Russian Federation, Sudan, Tanzania, Turkey, United Kingdom and United States.

Of the consultation carried out with the Chairs of ITU-T SGs, as required by Recommendation
ITU-T A.7, the replies that we had were both positive and helpful. In their responses several of the Chairs indicated potential activity to be reviewed by the FG as possible input to its work.

The revised Terms of Reference set a lifespan of one year from the first meeting, with the possibility for a further year subject to the agreement of the study group. The meeting appointed the following:

• Chairman: Dr Monique KUGLITSCH (Ms) (Fraunhofer HHI & IIS).

• Vice-chairman: Ms Preeti BANZAL (Office of the Principal Scientific Adviser, Government of India).

• Vice-chairman: Mr Jürg LUTERBACHER (WMO).

• Vice-chairman: Ms Yanchuan WANG (China Telecom).

# WTSA20 preparations

After consultation with the ITU-T SG2 experts and management team, the Chairman of SG2 submitted [TSAG-TD973](https://www.itu.int/md/T17-TSAG-210111-TD-GEN-0973/en) for consideration at the TSAG RG-WP e-meeting (8 December 2020). [TSAG-TD973-R1](https://www.itu.int/md/T17-TSAG-210111-TD-GEN-0973/en), which includes a typographical correction to the title of Q5/2, was subsequently submitted for endorsement at the TSAG meeting (virtual, 11-18 January 2021). [TSAG-TD973-R1](https://www.itu.int/md/T17-TSAG-210111-TD-GEN-0973/en) contains as attachments the SG2 Question texts that would have been submitted to WTSA-20 had it taken place during the original timeframe.

An ad-hoc e-meeting on streamlining Resolutions was held 16 October 2020 to discuss issues remaining with WTSA Resolutions 20 and 29 (meeting report in [SG2-TD1231](https://www.itu.int/md/T17-SG02-201218-TD-GEN-1231)). An update on these discussions that include the views of SG2 will be included in a separate liaison ahead of TSAG’s consideration for WTSA20.

# Progress

The limited time between the September and December 2020 meetings SG2 reflected efforts to seek agreement on and progress work as much as possible, ahead of the WTSA 20 that had been scheduled for Q1 2021. Hence the time frame of three months between SG plenaries. During this time period the focus of the work of SG2 was on, and progress was made, during Rapporteur Group Meetings.

Discussions on the assignment of global resources continues to address emerging requirements. The approval of Annex H of Recommendation ITU-T E.212 (2016) “International Mobile Subscriber Identification” continues to demonstrate the importance of this NNAI resource in the deployment of new technology. Annex H defines the criteria by which applications for global E.212 resources from Industry alliances and other SDOs are evaluated. As part of the criteria, there is a requirement that the applicant is at least an Associate member of SG2.

Recommendation ITU-T M.3373 was approved. This Recommendation introduces the management function set and requirements for synergy management of cloud and SDN-based networks, and includes the general background of the synergy service of cloud and SDN-based networks as well as the benefit of introducing synergy management of cloud and SDN-based networks is explained.

The revision to Recommendation ITU-T E.157 on International Calling Delivery has been updated to reflect developments that have been seen globally. As reported previously Members have implemented national decisions that could be seen as best practice, and in some cases complimentary to E.157. Where such decisions reflected NNAI solutions they have been reflected in the text of the Recommendation. The current Supplement on (countering) spoofing is being developed as Members discuss further technical solutions that might be deployed in seeking tools to validate numbers presented to called users and which may contribute to illegal activity.

Progress was made on revising Recommendation ITU-T E.118, International Charge Card, which specifies the Issuer Identification Number that is used on SIM cards and has been in demand for mobile connections for emerging technology. The current amendments reflect the development of an expansion of the NNAI resource by embedding the current structure in a new structure administered by the industry for use within embedded SIMS.

Progress was made on AI-enhanced telecom operation and management (AI-TOM), and some use cases. Consequently, M.AI-tom has reached a stable state and was Consented at the SG2 e-plenary on 18 December 2020 as Recommendation ITU-T M.3080. Draft Recommendation ITU-T M.AI-tom was developed in interim e-meetings, which set up a new framework of telecommunications management and operations with AI introduced, and described how AI is used in network management activities. Two other draft Recommendations, M.resm-AI and M.rowp-AI, deal with “Requirements for energy saving management of 5G RAN system with AI” and “Requirements for work orders processing in TMN with AI”, respectively. These two work items can be viewed as two use cases for applying AI in the network management domain.

The discussion on a global numbering resource for humanitarian purposes continues, with the criteria for the assignment of resources behind an as-yet unassigned country code being developed. During the Q1/2 RGM in November 2020 it was also noted that were this to be the way forward then, according to Recommendation ITU-T E.164, additional recommendations would be needed to define the service(s) that would use such a resource. . SG2 experts have previously identified an alternative global resource that could readily be available. SG2 also approved the technical report that analysed Recommendation ITU-T F.930 for global resource assignment

Progress was made on REST-based network management framework, which involves draft Recommendations ITU-T X.rest, Q.rest, and X.rest-ics. REST/HTTP technology has been widely used in many fields, and in other SDOs. REST has been adopted as a main stream technology for network management interface. These series of draft recommendations have been developed in SG2 for more than two years, jointly with 3GPP SA5, and the purpose is to provide the guidelines for defining REST-based managed object and management interfaces, the REST-based supporting management services, and the guidelines for implementation conformance statements proformas associated with REST-based systems.

# Cooperation with other SGs

In the limited time since the last lead study group report there has been insufficient time for progress.

# SG2 regional groups

During the period September – December 2020, there were no meetings of the Study Group 2 Regional Groups for the Americas (SG2RG-AMR), Africa Region (SG2RG-AFR) or Arab Region (SG2RG-ARB).

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