



**ORGANIZACION DE LOS ESTADOS AMERICANOS
ORGANIZATION OF AMERICAN STATES**

**Comisión Interamericana de Telecomunicaciones
Inter-American Telecommunication Commission**

**34 MEETING OF PERMANENT CONSULTATIVE
COMMITTEE I: TELECOMMUNICATIONS/
INFORMATION AND COMMUNICATION
TECHNOLOGIES
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Lima, Peru**

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RECENT ACTIVITIES AT ITU-T STUDY GROUPS 2 AND 20

(Item on the Agenda: 4.2.2)

**(Information document submitted by American Registry for
Internet Numbers - ARIN)**

Recent Activities at ITU-T SG2 and SG20

Disclaimer: this is for informational purposes. ARIN is a sector member of ITU D and ITU T. Role in SG 2 as Chair of WP1, Vice-chair of the Adhoc on Resolution 64, and member of the NCT (Numbering Co-ordination Team per E.164.1).

ITU-T SG 2: Operational aspects of service provision and telecommunication management

Lead study group:

- for numbering, naming, addressing, identification (NNAI) and routing
- for service definition
- on telecommunications for disaster relief/early warning, network resilience and recovery
- on telecommunication management (WP2)

Continuing evolution and management of NNAI

Telephone numbers (E.164) and International mobile subscriber identity numbers (IMSI, E.212) are some of the number resources available directly from the ITU. Proposed policy changes to the number allocation criteria:

1. Numbers for IoT/M2M that may have limited voice (closed user group)
2. Non-operators, for example a membership organization. SG2 approved a temporary assignment to an organization whose members intend to deploy LTE-based services in unlicensed and shared spectrum. Examples include stadiums and mining facilities.
3. Trials and private use assignments.
4. A country code for organizations that provide telecoms to people with disabilities.

Some of the work items at SG2:

1. Spoofing. Unwanted calling appears to be on the rise around the world. The unwanted calls often use non-existent telephone numbers, or use a number that is not the number of the originator. This work will provide information on nuisance calling, spoofing, etc. and initiatives to address those concerns.
2. Use of telephone numbers as identifiers for purposes such as mobile financial services.
3. E.156 and E.157 (misuse of telephone numbers and calling party number delivery)
4. IoT/M2M network provider portability
5. Traffic deemed impermissible (OTT bypass and simboxes)

Mapping of ITU-T SG2 work with ITU-D activities. See SG2-TD698 attached below.

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ITU-T SG 20: Internet of things (IoT) and smart cities and communities (SC&C)

Lead study group:

- on Internet of things (IoT) and its applications
- on smart cities and communities, including its e-services and smart services
- for Internet of things identification

Continuing activities:

Some of the topics under discussion have included IoT device interoperability, IoT device ID systems, AI (machine learning), Distributed Ledger Technology, Digital Financial Transactions, UAVs, crowd sourcing systems, aftermarket vehicle e-call systems, and IPv6.

Y.Interop/Y.4459 "An architecture for IoT interoperability"

"Summary

This Recommendation introduces the Digital Object Architecture (DOA) and its prospective in addressing security and interoperability among IoT applications."

There were a dozen last call submissions with substantive comments. These comments were presented and discussed.

Status: The PCC1 deadline occurred before SG20 had ended.

IPv6

Draft Y.IPv6RefModel (IPv6 reference model for an IoT deployment)

Basics: Split the network into 4 equal parts, first two are for traditional network purposes, 3rd part is for IoT devices, and 4th part is spare.

ARIN has stated: IP number policy is RIR/Operator group matter. This is unnecessary and unwanted.

Status: The PCC1 deadline occurred before SG20 had ended.

IoT Interoperability - OneM2M

Transposition project of OneM2M Technical Standards and Technical Reports

OneM2M is a Partnership, with a dozen SDOs including ATIS and ETSI, and 200 members (mobile providers, mobile manufactures, automobile manufacturers, etc.)

Many Y series standards and technical reports approved (align with OneM2M release 2).

Security Solutions was the last one, presented and discussed for consent at April SG 20 meeting.

Status: The PCC1 deadline occurred before SG20 had ended.



INTERNATIONAL TELECOMMUNICATION UNION
TELECOMMUNICATION
STANDARDIZATION SECTOR
STUDY PERIOD 2017-2020

SG2-TD698
STUDY GROUP 2
Original: English

Question(s): All/2 Geneva, 19-28 February 2019

TD

Source: Chairman, ITU-T SG2

Title: LS/o/r on ITU inter-Sector coordination (reply to [TSAG-LS 13](#)) [to TSAG]

Purpose: Discussion

LIAISON STATEMENT

For action to: -

For comment to: -

For information to: TSAG

Approval: ITU-T SG2 meeting (Geneva, 19–28 February 2019)

Deadline: -

Contact: Phil Rushton Tel: +44 1206 729738
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Keywords: Inter-sector coordination

Abstract: This liaison contains the reply to the liaison received from TSAG on “ITU inter-Sector coordination”

SG2 would like to thank TSAG for the liaison statement on “ITU inter-Sector coordination”.

Regarding your question, "We kindly seek your views if inclusion of work items that are evolving rapidly is deemed to support collaboration and cooperation across the Sectors, and is worthwhile to be maintained for the future maintenance of the tables; or if it would rather be deemed sufficient to have the tables just on the study groups and Questions without the list of work items?"

SG2 finds the work item information to be useful. The question descriptions are good, but it's also good to see what the questions are actually working on.

In addition, the tables (for D and R sectors) appear accurate where SG2 is concerned. We note that per WTSA Resolution 2 the operational impact of OTT on international telecommunication services and networks is in SG2's remit and subsequently SG2 has begun to study the use of E.164 Numbers as identification for OTT for understanding of their current use and for the purpose of creating guidance and this should be included in the table of possible areas of inter-sector coordination.

SG2 also provides some updates to the matching tables of ITU-D Questions vis-à-vis ITU-T Questions, please see the Attachment 1 for details.

SG2 looks forward to continuing inter-sector coordination, cooperation, and collaboration.

Attachment 1

Matching of ITU-D SG1 and SG2 Questions of interest to ITU-T study groups

Table 1 – ITU-D Questions vis-à-vis ITU-T Questions

ITU-D SG1		
<u>Question 1/1: Strategies and policies for the deployment of broadband in developing countries</u>		
ITU-T SG	ITU-T Question	Work items
SG2	Q1/2 : Application of numbering, naming, addressing and identification plans for fixed and mobile telecommunications services	E.129 Presentation of national numbering plans E.101 Definitions of terms used for identifiers (names, numbers, addresses and other identifiers) for public telecommunication services and networks in the E-series Recommendations; E.A-ENUM Principles and procedures for the administration of E.164 country codes for registration into the Domain Name System; E.spn Management and assignment of global Service Provider Numbers (SPN); E.164 Supplement 2 Management and Assignment of Global Service Provider Numbers (SPN); M.rdm Requirements for Data Management in the TMN
	Q2/2: Routing and interworking plan for fixed and mobile networks	
	Q6/2 : Management architecture and security	M.somm (ex M.inomsa) Framework of smart operation, management and maintenance

ITU-D SG1		
<u>Question 3/1: Emerging technologies, including cloud computing: m-services, and OTTs: Challenges and opportunities, economic and policy impact for developing countries</u>		
ITU-T SG	ITU-T Question	Work items
SG2	Q5/2 : Requirements, priorities and planning for telecommunication management and operation, administration and maintenance (OAM) Recommendations	M.3070/Y.3521 : Overview of end-to-end cloud computing management M.3071 : Cloud-based network management functional architecture M.3371 : Requirements for service management in cloud-aware telecommunication management system M.3372 : Requirements for resource management in cloud-aware telecommunication management systems M.rcsnsm : Requirements for cloud and SDN-base network synergy management
	Q6/2 : Management architecture and security	M.somm (ex M.inomsa) Framework of smart operation, management and maintenance
	Q7/2 : Interface specifications and specification methodology	

Table 2 – Matrix of ITU-D Questions and ITU-T Questions

		ITU-D SG 1							ITU-D SG 2						
		<u>Q1/1</u>	<u>Q2/1</u>	<u>Q3/1</u>	<u>Q4/1</u>	<u>Q5/1</u>	<u>Q6/1</u>	<u>Q7/1</u>	<u>Q1/2</u>	<u>Q2/2</u>	<u>Q3/2</u>	<u>Q4/2</u>	<u>Q5/2</u>	<u>Q6/2</u>	<u>Q7/2</u>
ITU-T SG2	<u>Q1/2</u>	X					X		X			X			
	<u>Q2/2</u>	X													
	<u>Q3/2</u>												X		
	<u>Q5/2</u>			X											
	<u>Q6/2</u>	X		X					X						
	<u>Q7/2</u>			X								X			