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| **TSAG** |
| **Original: English** |
| **Question(s):** | N/A | E-Meeting, 10-17 January 2022 |
| **TD(Ref.:** [SG20-LS251](http://handle.itu.int/11.1002/ls/sp16-sg20-oLS-00251.docx)) |
| **Source:** | ITU-T Study Group 20 |
| **Title:** | LS/r on requesting all ITU-T study groups to provide an update on Recommendations related to WTSA-16 Resolution 73 (Rev. Hammamet, 2016) (reply to TSAG-LS45) [from ITU-T SG20] |
| **Purpose:** | Information |
| **LIAISON STATEMENT** |
| **For action to:** | - |
| **For comment to:** | - |
| **For information to:** | TSAG |
| **Approval:** | ITU-T Study Group 20 management team (25 November 2021 by correspondence) |
| **Deadline:** | N/A |
| **Contact:** | Nasser Saleh Al Marzouqi Chairman SG20 | Tel: +97 6118 468 Fax: +97 6118 484 E-mail: nasser.almarzouqi@tra.gov.ae  |
| **Contact:** | Hyoung Jun KimWP1/20 Co-chairman | Tel: +82 428606576 Fax: +82 428015404 E-mail: khj@etri.re.kr  |
| **Contact:** | Ramy Ahmed FathyWP1/20 Co-chairman | Tel: +202 353 44182Fax: +202 353 44155E-mail: ramy.ahmed@ieee.org  |
| **Contact:** | Ziqin SangWP2/20 Co-chairman | Tel: +86 27 8769 4040 Fax: +86 27 8769 4034 E-mail: zqsang@wri.com.cn  |
| **Contact:** | Harinderpal Singh GrewalWP2/20 Co-chairman | Tel: +65 9795 0698 Fax: +65 6211 2116 E-mail: harin@yahoo.com  |

This liaison statement answers [TSAG-LS45](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00045.docx).

A new liaison statement has been received from SG20.

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-sg20-oLS-00251.docx>.

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| **STUDY GROUP 20** |
| **Original: English** |
| **Question(s):** | All/20 |  |
| **LIAISON STATEMENT** |
| **Source:** | ITU-T Study Group 20 |
| **Title:** | LS/r on requesting all ITU-T study groups to provide an update on Recommendations related to WTSA-16 Resolution 73 (Rev. Hammamet, 2016) (reply to TSAG-LS45) |
| **LIAISON STATEMENT** |
| **For action to:** | -  |
| **For comment to:** | - |
| **For information to:** | ITU-T TSAG |
| **Approval:** | ITU-T Study Group 20 management team (25 November 2021 by correspondence) |
| **Deadline:** | N/A |
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| **Contact:** | Harinderpal Singh GrewalWP2/20 Co-chairman | Tel: +65 9795 0698 Fax: +65 6211 2116 E-mail: harin@yahoo.com  |

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| **Keywords:** | Environment; Climate Change; Resolution 73; |
| **Abstract:** | This Liaison Statement contains the list of ITU-T Study Group 20 work items related to Resolution 73 (Rev. Hammamet, 2016). |

This liaison statement answers [TSAG-LS45](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00045.docx).

ITU-T Study Group 20 would like to inform TSAG on existing ITU-T Study Group 20 Recommendations and work items related to Resolution 73 (Rev. Hammamet, 2016) - Information and communication technologies, environment and climate change.

Please see list below.

|  |  |  |
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| **Question** | **Work item** | **Title** |
| Q2/20 | Y.EV-charging | Requirements of smart charging service for electric vehicles |
| Q2/20 | Y.IoT-SFFS | Requirements and Reference functional model of IoT-based smart forest firefighting system |
| Q2/20 | Y.dt-smartfirefighting | Requirements and capability framework of digital twin for smart firefighting |
| Q2/20 | Y.water-SFP | Framework of monitoring of water system for smart fire protection |
| Q2/20 | Y.Sup.SmartAgri-usecases | Use cases of IoT based smart agriculture |
| Q3/20 | Y.smart-PBRS | Functional Architecture of Smart Power Bank Rental Service Framework |
| Q3/20 | Y.Smart-SBS      | Requirements and functional architecture of smart sharing bicycle service |
| Q4/20 | Y.energy-data | Framework of city-level energy data sharing and analytics among buildings |
| Q4/20 | Y.DSGS-reqts | Requirements and a reference model of data for smart greenhouse service |
| Q6/20 | Y.FW.IC.MDSC | Framework of identification and connectivity of moving devices in smart city |
| Q6/20 | Y.IoT-Ath-SC | Framework of IoT-devices authentication in smart city |
| Q6/20 | Y.IoT-IoD-PT | Identity of IoT devices based on secure procedures to enhance trust of IoT systems |
| Q6/20 | Y.IoT-Smartcity-Risk | Reference framework of cybersecurity risk management of IoT ecosystems on smart cities |
| Q6/20 | Y.oneM2M.SEC.SOL | oneM2M Security Solutions |
| Q6/20 | YSTR.Feas-DID-IoT | Feasibility of Decentralised Identifiers (DIDs) in IoT |
| Q6/20 | YSTR-IADIoT | Intelligent Anomaly Detection System for IoT |
| Q7/20 | Y.4903Rev | Key performance indicators for smart sustainable cities to assess the achievement of sustainable development goals |

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| **Approved Recommendations** |
| **Work item** | **Title** |
| Y.4004 | Overview of smart oceans and seas, and requirements for their ICT implementations |
| Y.4207 | Requirements and capability framework of smart environmental monitoring |
| Y.4121 | Requirements of an Internet of Things enabled network for support of applications for global processes of the Earth |
| Y.4419 | Requirements and Capability Framework of Smart Utility Metering (SUM) |
| Y.4466 | Framework of smart greenhouse service |
| Y.4478  | Requirements and functional architecture for smart construction site services |
| Y.4810 | Requirements of data security for the heterogeneous IoT devices |
| Y.4811 | Reference framework of converged service for identification and authentication for IoT devices in decentralized environment |
| Y.4904 | Smart sustainable cities maturity model |
| Y.4905 | Smart sustainable city impact assessment |

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