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Centre for Trade Facilitation and Electronic Business

Twenty-sixth session

Geneva, 4-5 May 2020

Item 7 (e) of the provisional agenda

Recommendations and standards:

Support to capacity building and technical cooperation

Meeting Report of the 41st Session of the Electronic Business Memorandum of Understanding Management Group Meeting of 4 December 2019

Summary

The Electronic Business Memorandum of Understanding (eB-MoU) between the International Electrotechnical Commission (IEC), the International Telecommunication Union (ITU), the International Organization for Standardization (ISO) and the United Nations Economic Commission for Europe (UNECE) held its Management Group meeting on 4 December 2019. The UNECE served as secretary to this meeting and remains secretary of this group throughout 2020. This document provides the complete report of this meeting along with the resolutions and actions which are still active. This report is recorded as document N836 on the website of the eB-MoU.

Document ECE/TRADE/C/CEFACT/2020/INF.5 is submitted by the Secretariat to the twenty-sixth session of the Plenary for information.

1. In January of 1995, the United Nations Economic Commission for Europe signed a first Memorandum of Understanding (MoU) on Electronic Business with two leading international standards-setting organizations, namely the International Electrotechnical Commission (IEC) and the International Organization for Standardization (ISO). The International Telecommunication Union (ITU) became the fourth signatory of this MoU in 2000.
2. The Management Group relevant to the eB-MoU was established in the early 2000s in order to coordinate activities and encourage the pooling of resources on specific topics. The Management Group holds annual meetings and brings together not only the four signatories but also other relevant international users of standards. Over its two decades of meetings, the Management Group had an independent chair, had conducted studies on issues relevant to electronic business standardization and drafted resolutions designed to support cooperation.
3. Since 2017, the four signatories have been in discussion on the way forward for this group. It was agreed that the Management Group should not be an independent body, but it should rather provide a forum for information sharing and pooling of resources when possible. The signatories took the opportunity of the resignation of the last independent chair to revise the annexes to the MoU and redefine the structure. The chair of the Management Group is held by each of the signatories in turns and rotated on an annual basis; in 2019, ISO held the chair – the UNECE will take the position of chair in 2021. This position leads the meeting of the Management Group and eventually any ad-hoc meetings during the year. The secretary of the Management Group is also held by the signatories in turns and rotated on an annual basis; in 2019, UNECE became the secretary. This position ensures during a one-year period the operation of the Group, any minutes, the management of any documentation. Annex 1 provides the full report of the forty-first meeting of the eB-MoU Management Group.
4. The relevant international users of standards and other standards-setting bodies are welcome to join the eB-MoU Management Group meetings and to partake in the information sharing and when possible, the pooling of resources. At this forty-first meeting of the eB-MoU Management Group, the Comité Européen de Normalisation (CEN) and Oasis participated. The full list of participants is available in Annex 2. The meeting was held face-to-face in Geneva with distant participation and attended by twenty-three participants, eleven of which on behalf of the UNECE, representing the work of the United Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT).
5. The list of active resolutions of the Group is provided in Annex 3. These are listed throughout Annex 1 with a symbol RYY/00. There are several actions which are barred; this signifies that they were considered complete during the forty-first meeting and will be deleted. The list of active actions of the Group is provided in Annex 4. These are referenced throughout Annex 1 with a symbol AYY/00. Likewise, all barred actions were considered complete during the meeting and will be deleted. The reports and documents listed in the Annex 1 are only available to members of the Group but can be provided at request of UN member State delegations to the UNECE Secretariat.
6. The signatories propose to hold a number of webinars in between official Management Group meetings. These webinars aim to delve deeper into specific topic in order to share work that each organization has completed and try to avoid duplication of efforts. In 2018, such a webinar was held on Internet of Things (IoT); in 2019 on eAccessibility for e-business; and in 2020 three potential topics were identified on traceability, blockchain and semantic interoperability.

Annex 1

MoU/MG/19 N836

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Draft Meeting Minutes

FOURTY-FIRST MEETING OF THE IEC-ISO-ITU-UNECE MOU ON E-BUSINESS MANAGEMENT GROUP (MoU/MG)

1.1 Executive Summary

The 41st meeting of the MoU/MG was held face-to-face 4 December 2019 in Geneva with on-line participation. The meeting was kindly hosted by IEC.

Reports from organizations were circulated in advance allowing for information exchange and identification of coordination points. Some reports were received/made during the meeting. A comprehensive review of current resolutions and outstanding actions was also undertaken.

1.1 Attendance:

23 participants both in person and on line from:

IEC (1)

ISO (7)

ITU (2)

UNECE (11)

Participating organizations (2)

Apologies received (4).

1.1 Reports and Presentations

The following reports were made available on the [MoU/MG eCommittee page](#) prior to the meeting:

IEC TC3; ISO TC8; ISO TC37; ISO TC171/SC 2; UN/CEFACT ITP-PDA; UN/CEFACT M+T PDA; UN/CEFACT T+L; UN/CEFACT SCMP; UN/CEFACT F+P; UN/CEFACT A+A; UN/CEFACT eGOV; UN/CEFACT AGRI; UN/CEFACT T+T; and, UN/CEFACT ISCO.

The following reports were received during the meeting and are available on the same page:

ISO TC154; OASIS.

Minutes of the meeting

1.1 1. Introduction

The 41st MoU/MG meeting took place on 4 December 2019. This meeting was kindly hosted by the IEC. The Secretariat made available a teleconferencing facility for remote participation.

1.1 2. Opening of the meeting

Following the decision to have an annual rotating leadership of this group between the four signatories, Ms. Laura Mathew, ISO, chairs this group and Mr. Lance Thompson, UNECE, serves as secretary to this group until the 42nd MoU/MG meeting.

The Chair opened the meeting on 4 December 2019 at 09:30 CET. The meeting was hosted by IEC and was attended by 9 participants in person and 12 participants remotely. The list of participants is available in Annex 2.

A number of representatives were unable to participate in this meeting and conveyed their apologies: Ørnulf Jan Rødseth (ISO TC8), Ms. Sue Probert (UNECE), Mr. Harm Jan van Burg (UNECE), Ms. Liliana Fratini Passi (UNECE).

Meeting documents are available on the ISO webpage at:

<http://isotc.iso.org/livelink/livelink?func=ll&objid=15630294&objaction=ndocslist>

1.1 3. Agenda

The draft meeting agenda was available as document [N815](#). The agenda was adopted.

1.1 4. Approval of the minutes of the previous meeting

The minutes of the 41st MoU/MG on e-Business (5 December 2018) were available as document [N814](#). A number of modifications were requested and approved. The text of Resolution R18/01 was reworded as follows:

The MoU/MG, recognizing the importance of accessibility and inclusion of persons with disabilities resolves to take up eAccessibility and eInclusion as a theme of coordination and endorses Recommendation 2016 (reference MoU/MG N812) on this topic and proposes a webinar on the topic before the next MoU/MG meeting.

A clean version of the final report is available as document N835.

1.1 5. Update from organizations

Organizations were invited to provide a brief and concise update of news and issues related to the scope of the MoU/MG since the last meeting. The main focus of these updates is to identify coordination issues.

5.1.1 UN/CEFACT ITP-PDA

Ms. Virginia Cram Martos presented the UN/CEFACT International Trade Procedures PDA report in [N818](#). The report was noted. She reminded the extent of recommendations that have been developed by this group and reported on Recommendations and White Papers which have recently been published and which will soon be published, including on [Single Submission Portals](#) (private sector platforms which allow traders to fulfil all or most of their trading requirements), [Integrated Services for MSMEs in International Trade](#) (ISMIT – an eService platform allowing traders to access core international trading services), a revision of UNECE Recommendation 33 on Single Window and a revision in partnership with the International Chamber of Commerce of [UNECE Recommendation 5 on Incoterms](#). Future work includes [Cross Border Management of Humanitarian Relief](#), Smart Corridors, [Core Principles for the Operation of Single Window](#), [Trade Information Portals for Trade Facilitation](#), a revision of Recommendation 18 on Facilitation Measures Related to International Trade Procedures and a revision of Recommendation 31 on Electronic Commerce Agreements.

Ms. Cram Martos requested to remove the Resolution R16/01 as the UN/CEFACT ITP PDA has finished its White Paper project on Women in Trade Facilitation.

5.1.2 UN/CEFACT M+T-PDA

Mr. Anders Grångard presented the UN/CEFACT Methodology and Technology PDA report in [N819](#). The report was noted. He presented the long-standing work that UN/CEFACT has done on technical specifications and harmonization of e-Business standards. Since the last MoU/MG meeting, the [UN/Core Component Library](#) releases 19.A and 19.B were published along with their corresponding schema featuring nearly 13000 Business Information Entities (BIEs). The [UN/EDIFACT Directories](#) 19A and 19B were approved and published. The joint project with OASIS on a [Standard Business Document Header / Envelope](#) has finalized and soon to be published, in line with Resolution R16/17 and action A17/01, both of which can now be closed. A project on [Message Construction](#) is being developed.

On semantic harmonization, (R07/06), a question was raised as to how to submit data requirements for harmonization within UN/CEFACT. Such requests should be addressed to the UNECE Secretariat (uncefact@un.org) who would then forward these to the UN/CEFACT Library Maintenance (former TBG17). If there are questions on procedure or harmonization, this can be addressed to the UNECE Secretariat or to the Focal Point of UN/CEFACT Library Maintenance.

Mr. Grångard reminded the importance of resolution R07/06 and invites all groups developing electronic messages to submit their data requirements for harmonization to UN/CEFACT. He repeated that UN/CEFACT M+T PDA are happy to assist the IEC/TC57 on the development of their Core Component Needs as per resolution R16/09. He suggested the closing of resolution R15/06 as well as R17/09 and R18/03 as this work will be conducted as a UN/CEFACT project and the results brought to ISO TC154 for republication if they so desire.

5.1.3 UN/CEFACT T+L Domain

Ms. Hanane Becha presented the UN/CEFACT Transport and Logistics Domain report in [N820](#). The report was noted. She underlined the extensive work that this group has done over several decades. Since the last MoU/MG meeting, this group has completed eBusiness standards on [Smart Containers](#) using Internet of Things (IoT) devices as well as standards on the [Data Pipeline](#) principle (capturing data at its source earlier in the supply chain in order to ensure better quality data) and the [eCMR standard](#). This group has also finalized a revised recommendation 16 on UN/LOCODE. She further explained that this group is working on [mappings of the IMO eFAL](#) and the reengineering of UN/LOCODE.

Ms. Becha reminded the importance of resolution R07/06 and invites all groups developing electronic messages on Transport and Logistics to submit their data requirements for harmonization to UN/CEFACT. She further reminded UNECE's interest in resolution R17/06 encouraging the WCO to review and consider the reuse of its eCMR deliverable.

5.1.4 UN/CEFACT SCMP Domain

Mr. Ian Watt presented the UN/CEFACT Supply Chain Management and Procurement Domain report in [N821](#). The report was noted. He reminded the comprehensive set of standards which have already been developed by this group and the recent revision of the Cross-Industry Delivery standard. He outlined the different projects which are currently being developed by this group including a [Supply Chain Track and Trace project](#) and a standard for the [exchange of Transferable Records](#) such as Bills of Lading. This group is further considering the launch of an alignment of Tender and Procurement to the UN/CEFACT Supply Chain Reference Data Model.

Mr. Watt reminded the importance of resolution R07/06 and invites all groups developing electronic messages on Supply Chain Management and Procurement processes to submit their data requirements for harmonization to UN/CEFACT. He further restated the offer for ISO PC245 to participate in its relevant work in support of resolution R14/08 and restated the invitation to all interested parties on Electronic Invoicing to join its relevant work and reuse the publicly available standards on Cross Industry Invoice as stated in resolution R16/06.

5.1.5 UN/CEFACT F+P Domain

Mr. Fabio Sorrentino presented the UN/CEFACT Finance and Payment Domain report in [N822](#). The report was noted. He explained the recently published [Purchase Order Financing](#) e-Business standard and the

contribution of this group into UN/CEFACT's Blockchain work. He outlines future activities on the use of Application Programming Interfaces (APIs) with Open Banking as well as the use of IoT in Supply Chain Finance.

Mr. Sorrentino reminded the importance of resolution R07/06 and invites all groups developing electronic messages on Finance and Payment processes to submit their data requirements for harmonization to UN/CEFACT.

5.1.6 UN/CEFACT A+A Domain

Mr. Lance Thompson presented the UN/CEFACT Accounting and Audit Domain report in [N823](#). The report was noted. He reminded the extent of messages which have already been developed within UN/CEFACT and the current work to create a [Reference Data Model for Accounting and Audit](#) which would cover all of the needs of this area of activity and integrate the freely available work from other standards.

Mr. Thompson reminded the importance of resolution R07/06 and invites all groups developing electronic messages on Accounting and Audit processes to submit their data requirements for harmonization to UN/CEFACT. He further renewed UNECE's interest in resolution R16/14 and the potential duplication and/or overlap of work with ISO/PC295 and its successor.

5.1.7 UN/CEFACT eGOV Domain

Mr. Kaushik Srinivasan presented the UN/CEFACT eGovernment Domain report in [N824](#). The report was noted. He reminded the work that has been undertaken by this group on authentication and blockchain for trade facilitation ([White Paper Overview on Blockchain for Trade](#); [White Paper on Technical Applications of Blockchain to UN/CEFACT Deliverables](#), [Blockchain in Trade Facilitation: Sectoral Challenges and Examples](#), [White Paper on Trusted Transboundary Environment](#), [UNECE Recommendation 14 on Authentication of Trade Documents](#)). He outlined the current project of this group on [inter-ledger interoperability of blockchain](#) (and Distributed Ledger Technology) solutions with a current use case on cross-border exchange of preferential certificates of origin. This group is also developing guidance material on [Internet of Things for Trade Facilitation](#), [Digital Identity for Trade](#), Artificial Intelligence for Trade Facilitation and Data Retention and Time Stamping.

There was a comment that other groups within the eB-MoU are working on IoT and on the notion of trustworthiness. ISO TC37 has worked on this type of controlled vocabulary ([ISO 10241-2](#)). It was suggested that coordination would be useful on this topic. UNECE reminded that it has been working on this topic since the 1970s and that it has recently updated its work on the topic in line with UNCITRAL and their definitions. It has been suggested that a new resolution be proposed on the topic of trustworthiness as follows:

R19/01

The MoU/MG encourages standards organizations to compare their notions of trust and trustworthiness with an aim to providing a consistent use of these terms.

It was noted that ITU has worked on Digital Identity management and suggested that their results may be shared on these topics. It has been suggested that a new resolution be proposed on the topic of digital identity management as follows:

R19/02

The MoU/MG welcomes the involvement of UN/CEFACT eGovernment Domain in ITU-T on Digital Identity Management in order to consider this work in their Digital Identity project.

Mr. Srinivasan reminded the importance of resolution R07/06 and invites all groups developing electronic messages on regulatory processes to submit their data requirements for harmonization to UN/CEFACT.

5.1.8 UN/CEFACT AGRI Domain

Mr. Frans van Diepen presented the UN/CEFACT Agriculture, Fisheries and Agri-food Domain report in [N825](#). The report was noted. He presented the comprehensive eBusiness standards which have been developed by this group in this area and the constant updating that is being undertaken on the deliverables. This group is currently working on a set of standards and guidance for [traceability and transparency of sustainable textile and leather](#) taking into account environmental and social aspects.

Mr. Van Diepen reminded the importance of resolution R07/06 and invites all groups developing electronic messages on agriculture, fisheries and agri-food processes to submit their data requirements for harmonization to UN/CEFACT.

5.1.9 UN/CEFACT T+T Domain

Mr. Akio Suzuki presented the UN/CEFACT Travel and Tourism Domain report in [N826](#). The report was noted. He briefly presented the work of this group in the recent past and more specifically on the recent [Green Paper on Sustainable Tourism](#) which studies how Experience Programs in tourism can be a catalyst to enhance local economies and promote decent employment at a micro-, rural level. He then presented the current projects which will work on [eBusiness messaging standards to support Experience Programs](#), and a [White Paper on Sustainable Tourism](#).

Mr. Suzuki reminded the importance of resolution R07/06 and invites all groups developing electronic messages on travel and tourism processes to submit their data requirements for harmonization to UN/CEFACT. He further explained that the Green Paper on Experience Programs has been finalized and therefore requested that resolution R16/02 be closed.

5.1.10 UN/CEFACT ISCO Domain

Mr. Rajiv Garg presented the UN/CEFACT International Supply Chain Orchestration Domain report in [N827](#). The report was noted. He presented this recently created group and the work that has been under discussion aiming to harmonize UN/CEFACT deliverables. This group has launched new work within 2019 in order to study the [development of APIs](#) within UN/CEFACT and the guidance on how these should be produced. It is planned to soon finalize a project which will set the foundation for JSON and Open API development.

Mr. Garg reminded the importance of resolution R07/06 and invites all groups developing electronic messages on supply chain, transport and logistics processes to submit their data requirements for harmonization to UN/CEFACT.

5.2 ITU-T

Mr. Martin Euchner presented the ITU-T report in [N817](#). The report was noted. He outlined the work of the Telecommunication Standardization Advisory Group (TSAG). This group has launched a Focus Group on Quantum Information Technology for Networks along the lines of action A18/01. He noted that the Focus Group on Distributed Ledger Technology and the Focus Group on Digital Currency including Digital Fiat Currency were both concluded. And revised rules and procedures have been approved on A.5 “[Generic procedures for including references to documents of other organizations in ITU-T recommendations](#)”, A.13 “[Non-normative ITU-T publications, including Supplements to ITU-T Recommendations](#)” and A.25 “[Generic procedures for incorporating text between ITU-T and other organizations](#)” in line with resolution R16/15.

Mr. Euchner outlined the completion of three recommendations in Study Group 2 (Operational aspects of service provision and telecommunication management), as well as three recommendations in Study Group 3 (Tariff and accounting principles and international telecommunication / ICT economic and policy issues). This latter group has also started a number of new work items on topics such as regulations for digital transformation and roaming aspects of IoT.

The Study Group 5 (Environment, climate change and circular economy) has launched a new ITU-T Focus Group on environmental efficiency for artificial intelligence and other emerging technologies.

The Study Group 11 (Signaling requirements, protocols, test specifications and combating counterfeit products) has several recommendations recently approved or under approval on counterfeit ICT devices, stolen mobile devices and IoT gateways; work continues in this group on testing identification systems for IoT framework.

The Study Group 13 (Future networks, with focus on IMT-2020, cloud computing and trusted network infrastructures) have approved four recommendations in this area and started five new recommendations including on quantum key distribution; work has continued in this group on Artificial Intelligence standardization roadmap as well as Machine Learning for Future Networks including 5G.

The Study Group 16 (Multimedia coding, systems and applications) established a new focus group on AI for autonomous and assisted driving as well as digital culture-related systems and services. This group has also progressed work on multimedia coding, e-health, accessibility of ICT and intelligent transport systems. Two Recommendations and two Technical Papers on Distributed Ledger Technology were agreed.

The Study Group 17 (security) started eight work items on topics such as Quantum Key Distribution and cloud-based platforms and has eight items under approval including on security in IoT environment, potential security threats in connected vehicles, security in cloud computing and others.

The Study Group 20 (IoT, smart cities and communities) concluded work on Data Processing and Management to support IoT and Smart Cities and Communities.

It was noted that a lot of work has been progressed within the UNECE on intelligent transport systems and autonomous/assisted driving. It was suggested that the Study Group 16 work with the UNECE Transportation Division to build upon their ongoing work. IEC also noted the work of JTC1 SC42 and ISO TC204 in this area. It has been suggested that a new resolution on the topic of autonomous / assisted driving as follows:

R19/03

The MoU/MG welcomes the involvement of the ITU-T Study Group 16 in the work of the UNECE Transportation Division and the work of ISO-IEC JTC1 SC42 and the work of ISO TC204 on the topic of autonomous / assisted driving.

A question was raised on the quantum key distribution on how to protect post quantum algorithms. For the moment, it does not seem that ITU is working on this. The current ITU work is looking into the communication applications. There will likely be further work on quantum networks leading perhaps even to a quantum internet.

5.3.1 IEC TC 3

Mr. Stephen Dutnall presented the IEC TC 3 (Documentation, graphical symbols and representation of technical information) report in [N831](#). The report was noted. He reminded the overall goals of this group and their database [Common Data Dictionary](#) (CDD) providing a metadata registry for product classifications. He reminded the three areas of standards which are developed by this group as well as the ongoing work including SC3C working on graphical symbols and SC3D working on definitions of properties, classes and ontologies.

5.3.2 IEC/TC 57

No report was received

5.4.1 ISO/TC 8

The ISO Ships and Marine Technology (TC 8) report in [N828](#) was noted. The UNECE noted that it is working closely with this group as well as with the WCO and the IMO to create a harmonized IMO Data Reference Model and looks forward to this continued collaboration.

5.4.2 ISO/TC 37

Mr. Christian Galinski presented the Language and Terminology (TC37) report in [N830](#). The report was noted. He underlined the work that this group has been doing on eAccessibility and that content accessibility should be differentiated from interface accessibility. He further underlined the importance of the fundamental standard ISO 40400:2012 which is also WCAG 2.1 which calls for horizontal and vertical standards for eAccessibility. He presented the notion of “Plain language” (this is a type of controlled communication); this has been taken up under its WG11. Recommendation 2016 concerning standards on eAccessibility and eInclusion have been picked up by the Association for the Advancement of Assistive Technology in Europe (AAATE) and the International Conference on Healthcare and Technology (ICHT). Work has been ongoing in order to ensure that sign language can be identified and referenced in computer programs.

Mr. Galinski suggested to close coordination item 7.8 of the agenda on content interoperability as this is being taken up elsewhere.

5.4.3 ISO/TC 46

There was no report.

5.4.4 ISO/TC 68

Mr. Patrice Hertzog stated that the same report from last year [N809](#) is still valid.

5.4.5 ISO/TC 154

Ms. Judy Zhu presented the ISO TC 154 report in [N833](#) provided during the meeting. The report was noted. She noted that ISO TC154 has taken the required actions of the following resolutions and that these could be closed: R16/12, R16/18, R17/01, R17/04 and R18/02. She renewed her interest in resolutions R18/03 and 18/04. She reported that in 2019, this group has published [ISO 8601](#) (date and time representations for information interchange) parts 1 and 2 as well as [ISO 14533](#) (long term signature). There are eight PWIs. It was noted that UN/CEFACT M+T requested that resolutions R17/09 and R18/03 be closed as a Joint Maintenance Agency is not possible within the ISO system. The updating work of the UNTDED will be done within the appropriate UN/CEFACT working groups – all other organizations will be welcome to join this work – and the results will be provided to ISO TC154 if they would like to publish an update of ISO 7372.

OASIS reminded the importance of the resolution R18/04 on the update of the date and time representations recently updated in ISO 8601.

5.4.6 ISO TC171

The ISO Document Management Applications (TC171) report in [N829](#) was noted.

5.4.7 ISO/TC 184 SC4

There was no report.

5.4.8 ISO/TC 211

There was no report.

5.4.9 ISO/TC 215

There was no report.

5.4.10 ISO/TC 307

There was no report.

5.4.11 ISO/PC 245

There was no report. The project team has delivered its standards [ISO 20245](#) and was subsequently disbanded. This entry will therefore be removed in subsequent MoU/MG meetings.

5.4.12 ISO/TC 295

There was no report.

5.4.13 ISO/IEC JTC 1

There was no report.

5.5.1 OASIS

Jamie Clark presented the OASIS report in [N834](#). The report was noted. He underlined that several of the new projects are based on open licences and many of the groups prefer this method of working. A lot of work continues on cybersecurity and e-government. He reminded that OASIS stands as a host for submissions of standards and has done this in the area of autonomous vehicles. There is work on ebXML validation. Work has continued on XACML which will be moving back to ITU-SG17.

ITU noted the new work within OASIS and encouraged cooperation with the ITU-SG17 in order to eventually update their recommendations.

5.5.2 OAGI

There was no report.

5.5.3 GS1

There was no report.

5.5.4 SWIFT

There was no report.

5.5.5 CEN eBCG

There was no written report. Mr. Ignacio Boixo made an oral report. He mentioned that CEN is working with financial reporting through data point methodology (DPM); this will be presented to ISO for standardization (through ISO TC68). Also, CEN will soon initiate the use of this methodology for making change methodology. Network for Greening the Systems (NFGS) recommends to create a taxonomy for environmental reporting; CEN will propose that this will be done using the DPM as “Green Filing.”

5.5.6 IMO

There was no report.

5.5.7 UPU

There was no report.

5.5.8 WCO

There was no report.

1.1 6. New Coordination Items

The meeting examined the current coordination items.

6.1 Quantum computing in the scope of electronic business

Question was raised about the risks of cyberattacks from quantum computing. Financial services noted the major threats that this can pose for their operations. It may be necessary to replace current algorithms with post-quantum algorithms; however, this will require investment and currently few organizations are making such investments.

The ITU presented some of its work on this subject and CEN underlined that the National Institute for Standards and Technologies (NIST) in the US is also working on this topic. There are no current work items under ISO or UNECE on the subject; There is some in work in ISO-IEC JTC1 SC27 WG2 on this subject. The MoU/MG agreed that this topic should remain in the list of new coordination items. It is still early in this technology. It was decided to retain the Action item A18/01.

6.2 Open Source in the scope of electronic business

There does not yet seem to be a consistent approach to open source. It was suggested that we should try to work towards a harmonized approach. There perhaps needs to be more time in order to understand the situation and how standards organizations can contribute to this. There is an advisory group in JTC1 and a group in ITU-T TSAG. CEN is working on this subject and proposes to make a presentation on the subject at the next MoU/MG meeting.

The MoU/MG agreed that this topic should remain as a coordination item and to retain resolution R/16/03. It was suggested to slightly modify R16/03 in order to clarify “in the scope of electronic business.”

6.3 Data governance and data quality for e-business

Question was raised about resolution R16/13 calling for a presentation from ISO/IEC JTC 1/SC 40 on the scope of their work. It was decided to retain this resolution and request this group to present on this topic at the next meeting.

The resolution R16/12 was discussed. The intention seems to have been to see if the [ISO 8000](#) data quality series is applicable to the other organizations listed in this resolution. Question was raised if this resolution is still relevant; ISO TC 154 and ISO/IEC JTC 1/SC 32 have set up a liaison. The MoU/MG decided to close this resolution.

6.4 Common data dictionary (CDD)

It was suggested to remove CDD as this is an example and not necessarily a coordination item. This topic should be encompassed within the topic of semantic interoperability.

The MoU/MG decided to remove this topic from the new coordination items in future MoU/MG meetings.

6.5 Semantic interoperability and harmonization for electronic business

This topic was moved to existing actions.

6.6 Future convergence of transaction standards

No input has been provided on this topic over the past MoU/MG meetings. It was therefore decided to remove this topic at this time.

6.7 Smart Manufacturing in the scope of electronic business

No organization reported on this topic during this meeting (as per Action A18/02). There is work with ISO SMCC (Smart Manufacturing Coordinating Committee), ISO TC184, IEC Systems Committee Smart Manufacturing SyC SM (previously SEG 7) and IEC TC 65. There are also a number of joint working groups in operation, such as the IEC TC65 JWG21 Smart Manufacturing Reference Model(s) linked with ISO TC184, and the SyC SM: SM2 Smart Manufacturing Standards Map linked with ISO SMCC. The ISO SMCC and IEC SyC SM is attempting to map all available standards in this field. It is unsure if there are e-business applications of this work.

The MoU/MG decided to carry this topic and the Action item A18/02 over and request that organizations present their work on this topic at the 2020 MoU/MG meeting in the objective of awareness building on the topic.

6.8 Big Data for e-business

The ITU reported on their work on Big Data (in line with Action item A16/05). Other groups do have work on this topic, but have not reported on their activities in this area to the MoU/MG meeting, specifically IEC 42, ISO TC69, ISO TC204 and perhaps others.

The MoU/MG decided to carry this topic and the Action item A16/05 over and request that the relevant organizations present their work on this topic at the 2020 MoU/MG meeting in the objective of awareness building and coordination.

6.9 Traceability

The UNECE proposes to organize a webinar on this topic in Q2/Q3 2020. It was underlined that there can be two different types of traceability, the first linked to logistics (tracking - where's the box) and the second linked to regulations (conformance - have the standards and regulations been applied in a way that is compliant with the regulations). It was suggested that such a webinar provide the opportunity for member organizations to fulfill resolution R17/08.

6.10 Artificial Intelligence and Machine Learning

A new resolution was suggested during this meeting on autonomous / assisted driving which corresponds with this topic. More broadly, the MoU/MG recognizes the potential and relevance of artificial intelligence in relation to this topic and proposes a new resolution:

R19/04

The MoU/MG encourages the member organizations to look into the potential of artificial intelligence and machine learning in the area of e-business and report in future MoU/MG meetings on this topic.

1.1 7. Coordination of existing actions

7.1 eAccessibility and eInclusion

The MoU/MG renews its interest in the updated text of the resolution R18/01.

7.2 Trade transactions

The MoU/MG reviewed resolution R14/08; [ISO 20245](#) has been published and the project team PC245 has been disbanded so this resolution can be closed.

The UNECE noted that the Women on Trade Facilitation project has been finalized and published so resolution R16/01 can be closed.

It was noted during the meeting that the topic of semantic harmonization often covers trade transactions. It was therefore decided to remove this topic from existing coordination actions.

7.3 Semantic harmonization

As reflected in the reports of its groups, UNECE repeats its engagement and interest in resolution R07/06. It was suggested to slightly reword resolutions R16/06 and R16/07 and list these under this point.

The resolution R15/06 was discussed; the TC292 is currently revising the 28000 series (security in the supply chain). As this work is currently being revised, ISO repeats the invitation for the establishment of active liaison with this group.

The resolution R16/09 was discussed. It was suggested to slightly reword this resolution as:

The MoU/MG invites IEC/TC57 to look into inclusion of their relevant data requirements into the UN/CEFACT Core Component Library.

The MoU/MG repeated its interest in R18/04 and created a new resolution on trust and trustworthiness as R19/01.

7.4 ISO 15000 development

UNECE repeated its support and interest in resolution R14/01.

7.5 eCatalogues; product data; classification and terminology

The initial resolutions and actions came out of needs from over a decade ago which have since been resolved. It was considered that R07/37, R07/38, A05/25 and A06/34 can be closed. The resolution R10/11 can be moved to the topic of semantic harmonization and can remain valid.

7.6 Security

ITU-T SG17 established a liaison with ISO TC68 in order to correspond with resolution R09/32. This has therefore been resolved and can be closed.

There is ongoing work within several organizations on this topic, so it was suggested to retain this topic as a coordination item for future consideration.

7.7 Radio-frequency identification (RFID)

The topic of RFID seems to have been a hot topic a few years ago, but there does not seem to be a need for a global coordination on this topic. It was therefore decided to close this topic and close the resolutions R06/35, R07/51, R08/05 and action A07/09.

It was considered that we have surpassed the technology noted in R12/05 so this resolution could also be closed. This agenda entry will be removed from future MG meetings.

7.8 Content interoperability

The MoU/MG considered that this topic is now covered under eAccessibility so this topic could be closed.

7.9 Identification of standards and their components on the Web, URN

There were no comments to continue this coordination item, so this topic could be closed.

7.10 Signed digital evidence interoperability

It was underlined the potential problems that lack of interoperability may cause. The UNECE noted a [White Paper](#) that they have published on this topic. It was suggested to add an action as follow:

A19/01

The MoU/MG invited organizations to provide inputs to the next MoU/MG meeting on the subject of interoperability of signed digital evidence.

7.11 Name and address

The Action A09/27 has been initiated; the MoU/MG considered that this action could be closed.

The MoU/MG decided to keep resolution R12/09 and to added “language codes” to the list of coordination points on topic 7.11.

7.12 Identification of objects and parties

The liaison in resolution R11/07 is ongoing. The resolution R12/03 is ongoing. The resolution R12/05 has been closed. The invitation in action A06/59 should be known and this point can be closed.

7.13 Record and Document Management

The MoU/MG considered the resolution R08/13; they may have resolved the issues, so the MoU/MG decided to close this point.

7.14 Healthcare Informatics

The MoU/MG considered the resolution R07/23. ISO TC215 will be asked to report on this at the next meeting to see if this point should be maintained at the next meeting. The following action point is proposed:

A19/02

The MoU/MG invites ISO TC215 to report on the coordinated approach on healthcare and the current liaisons in place for this. (see R07/23, R08/04 and R09/06).

The R08/04 was considered closed. UNECE requested the R16/02 to be closed as this project has been finalized and published.

The MoU/MG was not sure of the status of the resolution R16/04 so decided to maintain it.

7.15 Fraud Countermeasures

The MoU/MG decided to leave the topic and explore in the future topics which might need to be coordinated under this point.

7.16 Archiving for legal purposes

The action A08/06 was no longer in the list of actions, this should be removed under this agenda item. The MoU/MG decided to leave the topic and explore in the future topics which might need to be coordinated under this point.

7.17 Internet of Things in the e-business environment

The MoU/MG recognized the importance of this topic, decided to leave it and explore in the future topics which might need to be coordinated under this point.

7.18 Smart Grid / Energy markets

There was no input on resolutions R09/09, R09/33 and R10/20; as these are around a decade old, it was decided to close them.

It was decided to retain resolutions R14/09 and R16/06.

7.19 ePublication

The MoU/MG discussed the publication requirements within their respective organizations which they cannot always influence or change. The goal of resolution R13/02 is laudable; however, it is not clear how this could practically be put in place. It was therefore decided to close this resolution and this agenda topic.

7.20 Transportation

The MoU/MG recognized the importance of this topic, decided to leave it and explore in the future topics which might need to be coordinated under this point.

1.1 8 Promotional activities

No follow-up has been made with a potential presentation at the European Commission Multi-Stakeholder Platform so this point is removed from the agenda.

1.1 9 Secretarial

The ITU Secretariat volunteered to continue maintaining the MoU/MG website and document portal in line with action item A09/30.

9.1 Upcoming meetings

DECEMBER 2019			
4-5 Dec	ITU	Geneva, CH	Financial Inclusion Global Initiative (FIGI) Security Clinic
9-13 Dec	ISO	Washington DC, US	ISO TC 171/SC2 Meeting
JANUARY 2020			

30 Jan	UNECE	Geneva, CH	1st Advisory Group on Advance Technologies meeting
FEBRUARY 2020			
4 Feb	UNECE	Geneva, CH	3rd Team of Specialists on Sustainable Fisheries meeting
4-5 Feb	UNECE	Paris, FR	UN/CEFACT T+L Interim Meeting
MARCH 2020			
APRIL 2020			
6-7 Apr	ITU	Geneva, CH	World Summit on the Information Society (WSIS)
27 Apr-1 May	UNECE	Geneva, CH	UN/CEFACT 35 th Forum
MAY 2020			
4-5 May	UNECE	Geneva, CH	UN/CEFACT 26 th Plenary
4-7 May	ISO	Paris, FR	ISO TC 171/SC2 Meeting
4-9 May	ITU	Geneva, CH	4th AI for Good Global Summit
11-15 May	ISO	Oslo, NO	ISO TC68 Plenary
JUNE 2020			
21-26 June	ISO	Bangor, UK	ISO TC37 Meeting and Plenary
JULY 2020			
AUGUST 2020			
SEPTEMBER 2020			
Sept-Oct (tbc)	UNECE	TBD	UN/CEFACT 36 th Forum
OCTOBER 2020			
NOVEMBER 2020			
DECEMBER 2020			
9 Dec	MoU/MG	Geneva, CH	MoU/MG meeting
Dec (tbc)	ISO	TBD	ISO TC 171/SC2 Meeting

9.2 Reminder for resolutions and action items

All of the relevant resolutions and actions should be mentioned in the reports of individual organizations. If they are not mentioned, they may be closed.

It was suggested that the reports be standardized for next year in order to add clarity and efficiency. Perhaps with the following sections: background, recent achievements, upcoming activities and relevant resolutions/actions.

The action A11/18 was slightly modified so that it is the individual organizations to contact their constituencies.

ETSI was contacted and joined an MoU/MG meeting; the action A15/02 is therefore closed.

9.2 MoU/MG Webinars

An MoU/MG Webinar was organized by ITU-T on eAccessibility for e-business on 21 October 2019 13:00-15:25 and a report was prepared [N816](#). The report was noted. This webinar investigated the activities, results and plans of international standards setting organizations on the topic and shed insights into their eAccessibility related standards as relevant in the context of e-business. The webinar focused specifically on the following topics/themes from a standardization perspective:

- legal framework (e.g., EU) on e-accessibility,
- e-procurement and public e-procurement;
- accessible user interfaces and accessible content,
- e-accessibility in the context of broadcasting,
- certification for e-accessibility and systems,
- aspects of users on usability for e-accessibility.

Future webinars are planned on the following topics:

- traceability (organized by UNECE in Q2 2020)
- blockchain (ISO Q3/Q4?)
- semantic interoperability (IEC Q3/Q4?)

1.1 10. Any other business

1.1 11. New Resolutions and Actions for approval

R19/01	Semantic harmonization	The MoU/MG encourages standards organizations to compare their notions of trust and trustworthiness with an aim to providing a consistent use of these terms.	New, in force
R19/02	Digital Identity	The MoU/MG welcomes the involvement of UN/CEFACT eGovernment Domain in ITU-T on Digital Identity Management in order to consider this work in their Digital Identity project.	New, in force
R19/03	Artificial Intelligence	The MoU/MG welcomes the involvement of the ITU-T Study Group 16 in the work of the UNECE Transportation Division and the work of ISO-IEC JTC1 SC42 and the work of ISO TC204 on the topic of autonomous / assisted driving.	New, in force
R19/04	Artificial Intelligence	The MoU/MG encourages the member organizations to look into the potential of artificial intelligence and machine learning in the area of e-business and report in future MoU/MG meetings on this topic.	New, in force
A19/01	Signed digital evidence	The MoU/MG invited organizations to provide inputs to the next MoU/MG meeting on the subject of interoperability of signed digital evidence.	New
A19/02	Healthcare informatics	The MoU/MG invites ISO TC215 to report on the coordinated approach on healthcare and the current liaisons in place for this. (see R07/23 and R09/06).	New

1.1 12. Closing of the meeting.

Annex 2

List of participants, 4 December 2019 MoU/MG on e-Business meeting

Title	Family Name	Given Name	Entity	Group
Ms.	Becha	Hanane	UNECE	T+L Domain
Mr.	Boixo	Ignacio	CEN	
Mr.	Carson	Ben	ISO	ISO Central Secretariat
Mr.	Clark	Jamie	OASIS	
Ms.	Cram Martos	Virginia	UNECE	ITP-PDA
Ms.	Cutting-Decelle	Anne Francoise	ISO	ISO TC/184 SC/4
Mr.	Dutnall	Stephen	IEC	IEC Secretariat
Mr.	Euchner	Martin	ITU	ITU Secretariat
Mr.	Galinski	Christian	ISO	ISO TC/37
Mr.	Garg	Rajiv	UNECE	ISCO Domain
Mr.	Dubuisson	Olivier	ITU	ITU Secretariat
Mr.	Grangård	Anders	UNECE	M+T PDA
Mr.	Gray	Edmund	UNECE	SCMP Domain
Mr.	Hertzog	Patrice	ISO	ISO/TC68
Ms.	Mathew	Laura	ISO	ISO Central Secretariat
Mr.	Sorrentino	Fabio	UNECE	F+P Domain
Mr.	Srinivasan	Kaushik	UNECE	eGOV Domain
Mr.	Suzuki	Akio	UNECE	T+T Domain
Mr.	Thompson	Lance	UNECE	UNECE Secretariat
Mr.	Van Diepen	Frans	UNECE	AGRI Domain
Ms.	Wang	Linda	ISO	
Mr.	Watt	Ian	UNECE	ISC PDA
Ms.	Zhu	Judy	ISO	ISO TC/154

IEC participants = 1

ISO participants = 7

ITU participants = 2

UNECE participants = 11

Partner organizations = CEN (1) and OASIS (1)

Total = 23 participants

Annex 3

List of standing MoU/MG Resolutions

Resolution	Area	Resolution text	Status
R06/35	RFID application standards	The MoU/MG encourages developers of RFID application standards to coordinate their development work noting the role of ISO/IEC JTC 1/SC 31 in coordinating the development of necessary base standards.	To be closed
R07/06	Semantic harmonization	MoU/MG encourages member SDOs to submit their core components to the UN/CEFACT library maintenance point of contact, and participate in relevant UN/CEFACT activities.	In force
R07/23	Healthcare Informatics	MoU/MG welcomes the coordinated approach on healthcare being taken by ISO/TC 215, CEN TC 251, GS1, HL7, IHTSDO, IHE, and DICOM, and encourages continued collaboration.	In force
R07/37	eCatalogues; product data, classification and terminology	MoU/MG encourages those members who have an interest in using the country and currency codes for e-business purposes to build a liaison with ISO/TC 46 and ISO/TC 68 respectively to ensure that their requirements are addressed.	To be closed
R07/38	eCatalogues; product data, classification and terminology	MoU/MG resolves that earlier editions of coding standards need to be maintained, to support long term retention of data which references them.	To be closed
R07/51	Radio-frequency identification (RFID)	MoU/MG encourages members to include mobile RFID when reviewing the RFID taxonomy.	To be closed
R08/04	Healthcare Informatics	The MoU/MG recognises the potential synergy on eHealth between ITU-T SG 17, IEC/TC 25, ISO/TC 12, UN/CEFACT and the existing ISO/TC 215 standards, and encourages active liaison between the groups to make maximum use of existing standards.	In force
R08/05	Radio-frequency identification (RFID)	The MoU/MG notes the UPU requirements for RFID standards and encourages collaboration with ISO/IEC JTC 1, ISO/IEC JTC 1/SC 31, ITU-T SG 16 and SG 17 and GS1 to ensure that full use is made of existing standards.	To be closed
R08/13	Record and Document Management	The MoU/MG notes the ISO/TC 46 work on records management, the joint ISO TC10/IEC TC3 work on document management and the ISO TC171 NP in this area, and invites the groups to coordinate their deliverables.	To be closed

Resolution	Area	Resolution text	Status
R09/06	Healthcare Informatics	The MoU/MG invites ITU-T SG 16 to coordinate its work on eHealth with ISO/TC 215 and its related groups (in progress).	In force
R09/09	Smart grid /Energy markets	The MoU/MG notes the OASIS EMIX (Energy Market Information Exchange) initiative and the leadership role of IEC in this field, with further interest from other SDOs, and invites collaboration with the existing work, and consideration of the relationship to securities trading.	To be closed
R09/32	Security	MoU/MG invites ITU T SG17 to consider available security standards for healthcare and banking as part of its work	To be closed
R09/33	Smartgrid/ Energy markets	The MoU/MG notes the OASIS Energy Interoperation initiative and invites collaboration with other work on SmartGrid in IEC and ISO/IEC JTC 1.	To be closed
R10/11	eCatalogues; product data, classification and terminology	MoU/MG recommends that standards groups developing code lists should consider provision within the standards to prevent reuse of codes, in order to avoid invalidating earlier usages.	In force
R10/20	Smartgrid/ Energy markets	IEC would encourage the communities working on Smart Grid to collaborate on putting together a solution set to identify the work to be done.	To be closed
R11/07	Identification	The MoU/MG welcomes the contact between ISO/TC 37 for language codes, the ISO/TC 46 Maintenance Agency for country codes and the ISO/TC 68 Maintenance Agency for currency codes in order to maintain consistency.	In force
R11/21	IMO	MoU/MG extends an invitation to the International Maritime Organization (IMO) to become a Participating International User Group under the terms of the Memorandum of Understanding on e-Business.	In force
R12/03	Identification	MoU/MG recognizes that no single identification scheme for digital objects and other items will satisfy all business requirements, and therefore invites bodies responsible for identification schemes to ensure that their schemes and registration arrangements will accommodate interoperation with other schemes.	In force
R12/05	Internet Of Things	The MoU/MG informs ISO/IEC JTC 1 about the existence of Recommendation ITU-T Y.2060, Overview of internet of things, (http://www.itu.int/rec/T-REC-Y.2060) and invites JTC 1 to take into account Y.2060 for their work.	To be closed

Resolution	Area	Resolution text	Status
R12/09	Name and address, Records management	MoU/MG encourages those members who have an interest in using language and script codes (ISO 639, ISO 15924) for e-business purposes to build a liaison with ISO/TC 37 and ISO/TC 46, to ensure that their requirements are addressed.	In force
R13/02	ePublication	Noting the initial deployment of ePub for ISO standards, MoU/MG encourages its member organizations to adopt a consistent approach for the development, production and electronic delivery of the contents of their documents in terms of text, illustrations, terminology, tables of values, databases, schemas, software and other content, in order to facilitate their consumption by their consumers. The approach should be designed to accommodate the emerging range of standards, tools and technologies.	To be closed
R14/01	ISO 15000 development	The MoU/MG noted the publication of ISO 15000-5, Electronic Business Extensible Markup Language (ebXML) -- Part 5: Core Components Specification (CCS), and invites any organization that has a core component-based specification to review their specifications against it for conformance and to define the set of production rules required to implement ISO 15000-5 that result in their published content (libraries/messages).	In force
R14/04	UN/CEFACT	The MoU/MG invites UN/CEFACT to make its forthcoming Business Requirements Specification on conformance and compliance available to other members for comment, in order to foster compatible approaches across various standards.	In force
R14/08	ISO/PC 245, UN/CEFACT	The MoU/MG notes the publication of ISO/TS 20245 on cross-border trade in second-hand goods, and the intention of ISO/PC 245 to raise the document to IS status. Noting the previous discussion on the exploitation of existing standards and processes for cross-border trade, UN/CEFACT extends its offer for the group to participate in the ongoing development of relevant trade procedures to support their requirements.	To be closed
R14/09	Smart Grid	The MoU/MG recognises the broad scope of requirements identified by IEC/TC 57 for the Smart Grid, and draws attention to the existing available standards and user investments which can contribute to addressing those requirements.	In force

Resolution	Area	Resolution text	Status
R15/02	Updates from organizations	All MoU/MG organizations are requested to distribute brief descriptions of all their relevant, proposed, preliminary and new work items via the MoU/MG mailing list. MoU/MG recommends that all relevant approved new work items from the MoU/MG members shall be disseminated to the MoU/MG mailing list for information and possible action at the earliest stage.	In force
R15/06	Semantic harmonization	MoU/MG welcomes the cooperation between ISO/TC 8 and UN/CEFACT on the development of the ISO 28000 series, and invites UN/CEFACT and ISO/TC 154 to form a liaison with ISO/TC 292 for its parts of 28000 series.	To be closed
R16/01	Trade transactions	The MoU/MG welcomes the offer from ISO/TC 215 to assist UN/CEFACT in their proposed project to develop a discussion paper on women in trade facilitation.	To be closed
R16/02	Healthcare Informatics	The MoU/MG notes the proposed UN/CEFACT work on Healthcare tourism and the potential relevance of the EU-US collaboration on International Patient Record, and encourages information sharing between UN/CEFACT and ISO/TC 215 on this topic.	To be closed
R16/03	New Coordination	The MoU/MG members note the growth of opportunities to apply open source techniques to the development, implementation and use of standards, and encourage sharing best practices and the potential approach to a consistent approach to open source in the scope of e-business across the member organizations.	Revised, in force
R16/04	Healthcare Informatics	The MoU/MG notes the work of ISO/TC 292 Security and resilience, UNECE Working Party on regulatory cooperation and standardization policies (WP.6) and UNISDR on disaster risk reduction, ISO/TC 215 on Patient tracking, ITU-T SG17 on Security and OASIS EDXL Tracking of Emergency Patients, and invites these groups to explore collaboration on patient tracking and other areas of preparedness.	In force
R16/06	Trade transactions	The MoU/MG notes the work of CEN/TC 434 Electronic invoicing and CEN/TC 440 Electronic Public Procurement and encourages the groups to take advantage of liaisons with ISO/TC 68, UN/CEFACT and OASIS (the source organizations for their messages and syntaxes).	Revised, in force
R16/07	Trade transactions	The MoU/MG notes the work of CEN/TC 445 Digital information Interchange in the Insurance Industry and encourages the group to take advantage of liaisons with ISO/TC 68, UN/CEFACT and OASIS (the source organizations for its messages and syntaxes).	Revised, in force

Resolution	Area	Resolution text	Status
R16/08	New Coordination	The MoU/MG notes that the proposed ISO new work on blockchain technology is potentially applicable to multiple business areas that are already represented by standards groups in the MoU/MG and, in the event of the formation of a new group to undertake the work, invites that group to participate in the MoU/MG.	In force
R16/09	Smart Grid, Semantic harmonization	The MoU/MG welcomes the involvement of experts from UN/CEFACT in IEC/TC 57 to support the development of the necessary core components and to facilitate their inclusion in the UN/CEFACT core component library. The MoU/MG invites IEC/TC57 to look into inclusion of their relevant data requirements into the UN/CEFACT Core Component Library.	Revised, in force
R16/10	Quantities and Units	The MoU/MG encourages ITU-T SG17, IEC/TC 25, ISO/TC 12, ISO/TC 215 and UN/CEFACT to join the planned ISO/IEC joint taskforce on quantities and units and to send experts to that taskforce.	Closed
R16/11	Semantic harmonization	MoU/MG notes the completion of the action from the December 2015 meeting under Resolution R15/05, closes the POC project on semantic interoperability, and once again, invites stakeholder commitment to the project proposal for a shared central repository of terminology.	Closed
R16/12	Data quality	MoU/MG notes the work on the ISO 8000 data quality series of standards and encourages its participating organisations, especially ISO/TC 46, ISO/TC 154, ISO/TC 215, ISO/IEC JTC 1/SC 32, and UNECE, to explore their respective requirements, to take advantage of liaison opportunities, and coordinate as appropriate with ISO/TC 184/SC 4/WG 13.	To be closed
R16/13	Data governance	MoU/MG notes the work of ISO/IEC JTC 1/SC 40 relating to data governance, and requests a presentation on the scope of the work to a future meeting in order to understand its relationship to the existing activities of the MoU/MG participants.	In force
R16/14	Semantic harmonization	MoU/MG was made aware of concerns raised by UN/CEFACT regarding potential duplication and/or overlap of work with ISO/PC 295 on audit data, and recommends UN/CEFACT to submit their concerns in writing to the Committee Secretariat, in copy to the MoU/MG to allow tracking of progress.	In force

Resolution	Area	Resolution text	Status
R16/15	Collaboration and coordination	MoU/MG recognizes Recommendations ITU-T A.5 “Generic procedures for including references to documents of other organizations in ITU-T Recommendations”, A.25 “Generic procedures for incorporating text between ITU-T and other organizations”, and A-series Supplement 5 “Guidelines for collaboration and exchange of information with other organizations”, and invites the participating members of the MoU/MG to utilize these documents in developing joint documents, and to provide feedback to ITU-T on their use.	In force
R16/16	New coordination	MoU/MG notes the formation of ISO/TC 307 “Blockchain and electronic distributed ledger technologies” and invites MoU/MG members to liaise with this new group as it develops its work programme.	In force
R16/17	Semantic harmonization	MoU/MG welcomes the joint OASIS – UN/CEFACT project to develop a consistent approach to message envelopes and headers, and invites OASIS and UN/CEFACT to share the project proposals with the MoU/MG. Other organizations are invited to participate in this work as necessary.	To be closed
R16/18	New coordination	MoU/MG noted the presentation on preliminary work item “StreaM” submitted to ISO/TC 154 and recommends that the concepts be circulated among the chairmen of ISO/TC 184, IEC/TC 65, ISO SMCC and IEC/SEG 7, for advice and feedback to the leadership of ISO/TC 154.	In force
R17/01		The MoU/MG expresses its great appreciation to Mr. Klaus Dieter Naujok (retiring Chair of ISO/TC 154) for his persistent and outstanding contributions to the creation and work of the MoU/MG since its inception, and most recently for his leadership on the proof of concept work on semantic interoperability and harmonization.	To be closed
R17/02		The MoU/MG expresses its great appreciation to Mr. Kenji Itoh for his work in UN/CEFACT and the MoU/MG over many years to address transportation messages and exchange.	To be closed
R17/03	Secretariat issues	The MoU/MG recognizes the need to have timely reports from its participating organizations, available at least one week before the start of the meeting, and with a reminder sent out by the secretariat one month in advance.	In force

Resolution	Area	Resolution text	Status
R17/04	Semantic harmonization	The MoU/MG notes the approval of ISO NWIP TS 21981 "Business semantics thesaurus (BST)" and that ISO is currently reviewing the status of this new project in ISO/TC 154. The MoU/MG encourages its member organisations to participate through active liaisons to undertake this project as part of the shared semantic repository activity in MoU/MG Resolution R16/17.	In force
R17/06	New coordination item	The MoU/MG notes the formation of IEC/SEG 8 on Communication Technologies and Architectures of Electrotechnical Systems, and invites MoU/MG member organisations to interact directly with that group.	In force
R17/07	New coordination item	The MoU/MG notes the formation of IEC/SEG 9 on Smart Home/Office Building Systems, and invites MoU/MG member organisations to interact directly with that group.	In force
R17/08	New coordination item	The MoU/MG notes a number of initiatives on traceability in various industries such as aerospace, diamonds, agriculture, medical products, and counterfeiting, and identifies traceability as a new coordination item for the forthcoming MoU/MG meetings, and invites MoU/MG members to provide more information on this topic of interest.	In force
R17/09	UNTDed and ISO 7372 Maintenance Agency	The MoU/MG notes the ongoing review of the new terms of reference for UNTDED and ISO 7372 Maintenance Agency, and encourages the work of the maintenance agency to continue to be joint between UNECE and ISO.	To be closed
R17/10		The MoU/MG expresses its greatest appreciation to Mr Howard Mason, Chairman of the MoU/MG from 2003–2017 for his outstanding and long-term leadership, and his contributions to the success of the MoU/MG. Acclamation!	To be closed
R17/11	WCO	MoU/MG encourages WCO to take advantage of its participation in the MoU/MG to seek inputs from existing e-commerce standards activities.	In force
R18/01	New coordination item	The MoU/MG, recognizing the importance of accessibility and inclusion of persons with disabilities resolves to take up eAccessibility and eInclusion as a theme of coordination and endorses Recommendation 2016 (reference MoU/MG N812) on this topic.	In force

Resolution	Area	Resolution text	Status
R18/02	New Coordination Item	MoU/MG encourages interested experts to participate in and contribute to ISO/TC154 work on ISO/PRF TR 18262 on open data interchange framework.	In force
R18/03	Semantic harmonization	MoU/MG calls for members to participate through liaisons in the works of UNECE UNTDED/ISO 7372 Joint Maintenance Agency (JMA) in the revision of the UNTDED and ISO 7372.	To be closed
R18/04	Semantic harmonization	MoU/MG encourages its members to reference in their standards the revised ISO 8601 series of standards on date and time.	In force
R19/01	Semantic harmonization	The MoU/MG encourages standards organizations to compare their notions of trust and trustworthiness with an aim to providing a consistent use of these terms.	New, in force
R19/02	Digital Identity	The MoU/MG welcomes the involvement of UN/CEFACT eGovernment Domain in ITU-T on Digital Identity Management in order to consider this work in their Digital Identity project.	New, in force
R19/03	Artificial Intelligence	The MoU/MG welcomes the involvement of the ITU-T Study Group 16 in the work of the UNECE Transportation Division and the work of ISO-IEC JTC1 SC42 and the work of ISO TC204 on the topic of autonomous / assisted driving.	New, in force
R19/04	Artificial Intelligence	The MoU/MG encourages the member organizations to look into the potential of artificial intelligence and machine learning in the area of e-business and report in future MoU/MG meetings on this topic.	New, in force

Annex 4

List of MoU/MG Actions

Action	Area	Action text	Status
A05/25	eCatalogues; product data; classification and terminology	Collect information on how organizations are deploying their localization efforts and on the relationship between localization and reference data.	To be closed
A06/34	eCatalogues; product data; classification and terminology	Members are invited to report further on classification schemes initiatives.	To be closed
A06/41	Secretariat issues	The MoU/MG secretariat to prepare a calendar of the main meetings of MoU/MG member organizations, to be posted on the MoU website. The MoU/MG members are therefore requested to send this information as early as possible to the MoU/MG secretariat.	Open
A06/59	Identification of objects and parties	Members were invited to engage in the ITU T Joint Coordination Activity on Internet of Things and Smart Cities and Communities (JCA-IoT and SC&C), http://www.itu.int/en/ITU-T/jca/iot .	To be closed
A07/09	Radio frequency identification (RFID)	The members of MoU/MG encourage the signatory organization to recognise the opportunity to identify issues related to the growing use of RFID, and the need for effective coordination between RFID projects.	To be closed
A07/14	Secretariat issues	Member organizations were encouraged to update their lists of participants, link and contacts point under the MoU/MG site.	Open
A08/01	UPU	UPU and ISO to explore references to individual clauses from other organizations.	Open
A09/27	Name and address	Members to contact ISO/TC 37 if they wish to participate on NP on appellation, where work has not yet started.	Open
A09/30	Secretariat	The MoU/MG Secretariats are requested to send to ITU Secretariat necessary updates needed on the website to ensure content is topical - needs new presentation, updated lists of participating organisations and individuals.	Open
A09/41	UPU	MoU/MG members noted the planned growth areas for UPU, and UN/CEFACT, ITU-T, OASIS, OAGi and GS1 were invited to provide information on relevant standards relating to the use of Mobile Phones and RFID in Postal Union supply chain management.	Open
A09/42	ISO/IEC JTC 1	MoU/MG invites ISO/IEC JTC 1/SC 32 to develop an integrated picture of the relationship between the standards developed in WG 1 and WG 2.	Open
A11/18	Secretariat issues	Each individual organization's secretariat to send out reminders to their respective mailing list on action items.	Revised, on-going

Action	Area	Action text	Status
A13/01 (ref. Resolution 12/08)	ISO/IEC JTC 1	The MoU/MG notes the request from ISO/IEC JTC 1/SC32/WG1 (see document JTC 1/SC32 N2278) for possible update to some Tables (especially Table 3) in the Introduction, as found in the 2010, 3 rd edition of the ISO/IEC 14662 “Information technology – Open-edition Reference Model” standard. MoU/MG member organizations are requested to contact the JTC 1/SC32/WG1 Convenor, Mr Wenfeng Sun (sunwf@cnis.gov.cn) directly with respect to any updates to these Tables.	Open
A15/01	Secretariat issues	The MoU/MG secretariat will make available a draft minutes from the meeting at latest two weeks after the meeting.	Open
A15/02	Secretariat issues	The MoU/MG secretariat to contact ETSI to describe the work of the MoU/MG and offer ETSI membership to the MoU/MG.	To be closed
A16/05	New Coordination	The MoU/MG invites its member organizations to provide information on their activities in the context of Big Data for e-business.	Open
A17/01	New Coordination	Recalling MoU/MG Resolution R16/17, the MoU/MG is inviting its member organisations to review MoU/MG N738 on the Joint OASIS and UN/CEFACT Project Proposal regarding the Header/Envelope Document Exchange Project, and to participate in that work as appropriate in order to ensure coordination as necessary.	To be closed
A17/06	WCO	MoU/MG invites WCO DMPT to review and consider the reuse of the UN/CEFACT eCMR (road consignment document) deliverable.	Open
A18/01	New Coordination	MoU/MG invites its members to provide inputs to the next MoU/MG meeting on the subject of quantum computing in the scope of electronic business.	Open
A18/02	New Coordination	MoU/MG invites its members to provide inputs to the next MoU/MG meeting on the subject of smart manufacturing in the scope of electronic business.	Open
A19/01	Signed digital evidence	The MoU/MG invited organizations to provide inputs to the next MoU/MG meeting on the subject of interoperability of signed digital evidence.	New
A19/02	Healthcare infomatics	The MoU/MG invites ISO TC215 to report on the coordinated approach on healthcare and the current liaisons in place for this. (see R07/23 and R09/06).	New