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**Economic Commission for Europe**

Executive Committee

**Centre for Trade Facilitation and Electronic Business****Twenty-seventh session**

Geneva, 19-20 April 2021

Item 6 (e) of the provisional agenda

**Recommendations and standards:**

Support to capacity building and technical cooperation

**Meeting Report of the Forty-Second Session of the Electronic  
Business Memorandum of Understanding Management  
Group Meeting of 9-10 December 2020***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 9-10 December 2020. The UNECE served as secretary of this group throughout 2020 and passed this responsibility to IEC at this meeting. 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 N861 on the website of the eB-MoU.

Document ECE/TRADE/C/CEFACT/2021/INF.9 is submitted by the secretariat to the twenty-seventh 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 signatory bodies but also other relevant international users of standards. Over its two decades of meetings, the Management Group has had an independent chair, has conducted studies on issues relevant to electronic business standardization and has drafted resolutions designed to support cooperation.
3. As outlined in document ECE/TRADE/C/CEFACT/2020/INF.4, this group is currently viewed as a forum for information sharing and for pooling of resources when possible. It is chaired by each of the signatory bodies in turns, rotated on an annual basis. UNECE was secretary to this group from the forty-first session through to the forty-second session. In December 2020, ITU became the chair and IEC became the secretary. The UNECE will take the position of chair in December 2021.
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-second meeting of the eB-MoU Management Group, the European Committee for Standardization (CEN), the Universal Postal Union (UPU) the Open Application Group Inc. (OAGi), and the Organization for the Advancement of Structured Information Standards (OASIS) participated. The full list of participants is available in the annex of the meeting report. Twenty-seven participants took part in this virtual meeting, ten of these participated from the UNECE side, representing the work of the United Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT).
5. The lists of active resolutions and actions of the group are provided in annex to the meeting report. These are listed throughout the meeting report with a symbol RYY/00 and AYY/00 respectively. There are several resolutions and actions which are barred; this signifies that they were considered complete during the forty-second meeting and will be deleted in the subsequent reports.
6. The reports and documents listed in the Annex are only available to members of the Group but can be provided upon request to United Nations Member State delegations.
7. The signatories propose to hold several webinars in between official Management Group meetings. These webinars aim to delve deeper into specific topic in order to share the work that each organization has completed and to try to avoid duplication of efforts. In 2018, the UNECE organized such a webinar on the internet of things (IoT). In 2019, the ITU organized one on e-accessibility for e-business. In 2020, the UNECE organized one on traceability. Three further topics were identified for future webinars on blockchain technology, quantum computing and semantic interoperability.

## Draft Meeting Minutes

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

#### Executive summary

The 42<sup>nd</sup> meeting of the MoU/MG was a virtual meeting held 9-10 December 2020. The meeting was kindly hosted by ISO.

Reports from organizations were circulated in advance allowing for information exchange and identification of coordination points. Some reports were received/made during the meeting.

#### Attendance:

27 participants both in person and online from:

IEC participants (2)

ISO participants (7)

ITU participants (2)

UNECE participants (10)

Partner organizations = CEN (1), UPU (2), OAGi (1) and OASIS (1)

Apologies received (3): IEC TC3, ISO/TC46, and ISO/TC68).

#### Reports and presentations

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

IEC TC3; ISO TC215 ISO TC154; 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 eData; UN/CEFACT AGRI; UN/CEFACT T+T, UN/CEFACT CBM; ITU-T, OAGi, OASIS and UPU.

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

ISO TC37.

## **Minutes of the meeting**

### **1. Introduction**

The 42<sup>nd</sup> MoU/MG meeting took place on 9 and 10 December 2020 and was held as a virtual meeting. This meeting was kindly hosted by ISO.

### **2. Opening of the meeting**

Following the decision to have an annual rotating leadership of this group between the four signatories, Mr Martin Euchner (ITU-T) replaced Ms Laura Mathew, ISO as MoU/MG Chair and Mr Stephen Dutnall (IEC) replaced Mr Lance Thompson, UNECE as secretary to this group; their mandate will run until the 43<sup>rd</sup> MoU/MG meeting.

The Chair opened the meeting on 9 December 2020 at 10:00 CET. The meeting was hosted by ISO and was attended by 27 participants remotely. The list of participants is available in Annex A.

A number of representatives were unable to participate in this meeting and conveyed their apologies: IEC TC3, ISO/TC46, and ISO/TC68.

Meeting documents identified as their “Nxxx” number, are available on the ISO webpage at: <http://isotc.iso.org/livelink/livelink?func=ll&objid=15630294&objaction=ndocslst>

### **3. Agenda**

The draft meeting agenda was available as document N838 later updated to N855. The agenda was adopted with amendments. The agenda was further updated on the second day to N859 and approved.

### **4. Approval of the minutes of the previous meeting**

The minutes of the 41<sup>st</sup> MoU/MG on e-Business (4 December 2019) were available as document N836. A number of modifications were requested and approved on the clarification of the partner organizations on the cover page.

A clean version of the final report is available in the public documents folder of the MoU/MG on the ISO Livelink system.

### **5. Updates 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 UNECE reports**

##### **5.1.1 UN/CEFACT International Trade Procedures Programme Development Area**

[MoU/MG N840](#) was presented by Mr Lance Thompson, Secretary of UN/CEFACT. Achievements in 2020 presented were:

- Publication of the revised Recommendation no. 33 on Single Window
- Publication of the revised Recommendation no. 5 on Incoterms, updated in cooperation with the International Chamber of Commerce
- Publication of a White Paper on Core Principles for Managing Risks and Contingencies in the Operation of Single Windows
- Publication of a White Paper on Integrated Services for MSMEs in International Trade (ISMIT)
- Publication of a White Paper on Pandemic Crisis Trade-Related Response

Current activities include:

- Finalization of a Recommendation on Cross Border Facilitation Measures for Disaster Recovery
- Finalization of a Recommendation on Trade Information portals which will be accompanied by a related e-business standard
- A future project to revise recommendation n° 18 on Facilitation Measures Related to International Trade Procedures and a call of interest was launched
- A future guidance document (recommendation or white paper) on an assessment methodology of Single Window will be launched soon; a call of interest was launched

Output: The report of the UN/CEFACT International Trade Procedures PDA was noted.

### **5.1.2 UN/CEFACT Methodology and Technology Programme Development Area**

[MoU/MG N841](#) was presented by Ms Sue Probert, Chair of UN/CEFACT. The report highlights the various work of the M+T PDA. Achievements in 2020 presented were:

- Publication of Core Component Library (UN/CCL) releases 20.A and 20.B and related schema.
- Publication of UN/EDIFACT Directories 20A and 20B
- Completion of the Message/Header alignment project in partnership with OASIS in order to create a single technical specification that would cover the requirements for both organizations.
- Completion of the Message Construction Guide which introduces how to define a Message Assembly (MA) constructed with Message Business Information Entities (MBIE) and Qualified Data Type (QDT).
- Completion of the Electronic Application Error and Acknowledgement standard which can be used as a functional response message to all XML standard messages.

Current activities include:

- A project (RDM2API) to define a standard methodology that can be used to produce high quality Open API specifications and JSON-LD dictionaries from existing UN/CEFACT semantic library content based on its Reference Data Models (RDMs).

Ms Probert reminded the importance of resolution R07/06 and invites all groups developing electronic messages to submit their data requirements for harmonization to UN/CEFACT. She also reminded that the M+T PDA groups invite any interested parties to join their work on conformance and compliance, in line with resolution R14/04 and that M+T PDA is happy to assist IEC/TC57 on the development of their Core Component needs, in line with resolution R16/09.

MoU/MG Chair Mr Euchner highlighted that both the message and header alignment project and the RDM2API project were likely of interest for other organizations.

Output: The report of the UN/CEFACT Methodology and Technology PDA was noted.

### **5.1.3 UN/CEFACT Transport and Logistics Domain**

[MoU/MG N842](#) was presented by Ms Sue Probert. The report highlights the various work of the T+ L Domain and the multi-modal aspect of this work as well as the extensive code lists which are developed within UN/CEFACT for this domain and others. Achievements in 2020 presented were:

- Publication of standards for the Shipping Instruction, Waybill and Status Request/Report, all for multimodal transport and conducted under a United Nations Development Account project to support efforts during and after COVID-19
- Publication of the revised Recommendation 16 on the United Nations Code for Trade and Transport Locations (UN/LOCODE)
- Finalization of a revised Recommendation on Ship Agent and Ship Broker Minimum Standards completed in partnership with United Nations Convention on Trade and Development (UNCTAD)

Current activities include

- Mapping of the IMO eFAL data requirements, in partnership with the IMO
- Mapping of Dangerous Goods data requirements, in partnership with the UNECE Transport Division and the International Civil Aviation Organization (ICAO)

Ms Probert 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.

Note that UNECE has a category A liaison with ISO TC 154 JWG 8 (see clause 5.4.5); experts from this UN/CEFACT domain are active in this liaison.

Output: The report of the UN/CEFACT Transport and Logistics Domain was noted.

#### **5.1.4 UN/CEFACT Supply Chain Management and Procurement Domain**

[MoU/MG N843](#) was presented by Mr Edmund Gray, SCMP Domain Coordinator. The report highlights the various work of the SCMP Domain, especially the comprehensive set of standards for supply chain such as the family of Cross Industry e-business standards. Achievements in 2020 presented were:

- Publication of the Export Packing List based on the UN/EDIFACT UNSM HANMOV standard and compatible with the Cross-Industry family of e-business standards

Current activities include:

- White Paper and e-business standard for supply chain track and trace assisting with the tracking of physical assets in multimodal transport
- White Paper and a test pilot on the exchange of transferable records such as a Bill of Lading, based on the UNCITRAL Model Law on Electronic Transferable Records
- eNegotiation project allowing for an AI or robot process automation of the negotiation process prior to purchase
- Automotive project which will develop a sector specific version of the Cross Industry Scheduling and Cross Industry Delivery standards for the global automotive sector

Mr Gray 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 also restated the invitation to all interested parties in Electronic Invoicing to join its relevant work and reuse the publicly available standards on Cross Industry Invoice as stated in resolution R16/06.

Output: The report of the UN/CEFACT Supply Chain Management and Procurement Domain was noted.

#### **5.1.5 UN/CEFACT Finance and Payment Domain**

[MoU/MG N844](#) was presented by Mr Fabio Sorrentino, F+P Domain Coordinator. The report highlights the various work of the F+P Domain. Current activities of this domain include:

- White paper on open finance, which may lead to a project for an e-business standard on the subject
- Use of new technologies such as IoT, API, blockchain or other, as developed in the eData Management Domain of UN/CEFACT.

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.

Output: The report of the UN/CEFACT Finance and Payment Domain was noted.

#### **5.1.6 UN/CEFACT Accounting and Audit Domain**

[MoU/MG N845](#) was presented by Ms Liliana Fratini, UN/CEFACT Vice Chair. The report highlights the various work of the A+A Domain. Current activities of this domain include:

- Creation of 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. The group is trying to liaise in order to integrate mappings to XMRL GL and OECD SAF-T and SAF-P.

Output: The report of the UN/CEFACT Accounting and Audit Domain was noted.

It was highlighted by the CEN representative that Europe has a project on electronic legislation in Europe to provide financial reports in electronic format. As such there may be a need to be to have some input from UN/CEFACT to this area. An open invitation was provided to UN/CEFACT to look into this to see if they can contribute to this European initiative with ideas and/or guidance.

A request was made to report back on this at the next MoU/MG meeting in December 2021 and also asks ISO TC 295 experts to assist at the next UN/CEFACT A+A meeting.

### **5.1.7 UN/CEFACT eData Management Domain**

[MoU/MG N846](#) was presented by Mr Kaushik Srinivrasan, eData Domain Coordinator. The report highlights the various work of the eData Domain. Achievements in 2020 presented were:

- Updated white paper on Blockchain for trade (updated document from 2019 paper)

Current activities of this domain include:

- Development of a framework for inter-ledger interoperability of blockchain and Distributed Ledger Technologies (current text in Public Review)
- Development of a cross-border inter-(blockchain) ledger exchange for Preferential Certificates of Origin
- Development of two white papers and a case study repository on Internet of Things for trade facilitation
- Planned white paper on AI for trade facilitation.
- White paper on best practise on Digital Identity for Trade.
- Planned Guidance material on Trusted Third Party services and eNotarisation.

It was noted that members of the meeting highlighted the complexity of the term “trust” which is an intrinsic quality between two stakeholders. The technology is just one element among many others which allows to build “trust” and as such it contributes to “trustworthiness” but does not directly establish “trust”.

Mr Srinivrasan 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.

Output: The report of the UN/CEFACT eData Management Domain was noted.

### **5.1.8 UN/CEFACT Agriculture, Fisheries and Agri-food Domain**

[MoU/MG N847](#) was presented by Ms Sue Probert. The report highlights the various work of the AGRI Domain and underlines the wealth of standards which have been developed for agriculture and related industry, notably the eCert SPS certificate, eQuality certificate, UN/FLUX on fisheries, animal traceability, etc. Achievements in 2020 presented were:

- Publication of the Rapid Alert System for Food and Feed (RASFF) e-business standard specifications.
- eQuality Certificate. The project has developed and published the business models and business class diagrams for documenting the business scenarios and business transactions for eQuality certificates.

Current activities of this domain include:

- Sustainable Textile and Leather Traceability and Transparency. The project is currently finalizing a Policy Recommendation, a Business Requirement Specification and the corresponding data requirements and proposed XML schemas. These deliverables are currently under public review.
- eCert Guide. Plan to produce the e-Cert implementation guide which should be able to be used by governments implementing the UN/CEFACT eCert standard.
- Certificates. The proposal is to align certificate requirements to the Buy Ship Pay Reference Data Model (BSP RDM) to ensure interoperability and harmonization with the rest of the supply chain.
- Sustainable Development and Circular Economy Reference Data Model project. It was highlighted that there are many areas of development in the circular economy.

Ms Probert 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.

There was further discussion on the subject of circular economy in the context of e-business.

- ITU-T SG5 also has topic on circular economy.
- ISO TC 323 is looking into this area in particular implementation guide from linear economy to circular economy.
- ISO TC 215 Health Informatics.

Output: The report of the UN/CEFACT Agriculture, Fisheries and Agri-Food Domain was noted.

Recognising the importance of the circular economy in the context for e-business a new MoU/MG Action was proposed and agreed, unanimously: see A20/01 in clause 12.

#### **5.1.9 UN/CEFACT Travel and Tourism Domain**

[MoU/MG N848](#) was presented by Mr Sachin Mehta, T+T Domain Coordinator (previous Domain Coordinator was Mr Akio Suzuki). The report highlights the various work of the T+T Domain and underlined the negative impact that COVID 19 has had on the tourism industry. Current activities of this domain include:

- Business Standards for Sustainable Tourism
- Experience Programs Technical Artefacts

Mr Mehta 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.

A comment was raised on work that may be potentially being developed in other organizations such as ISO on sustainable tourism and e-business. An open invitation was extended for any such groups to provide input into this UN/CEFACT work.

Output: The report of the UN/CEFACT Travel and Tourism Domain was noted.

#### **5.1.10 UN/CEFACT Cross Border Management Domain**

[MoU/MG N849](#) was presented by Mr Ananth Rathakrishan, CBM Domain Coordinator. The report highlights the various work of the CBM Domain and underlined that this was the revival of a long-standing group within UN/CEFACT formally known as the eCustoms Domain.

Current activities of the group include:

- Cross Border Management Reference Data Model (CBM RDM). This project as a first step, uses the EU Customs Data Model and eventually the data models of other administrations which are either freely available or expressly contributed to this effort. This project is well advanced and should deliver in 2021.

Future proposed work items include:



- Standards-based ICT for government development strategies.
- Blockchain based AEO mutual recognition data exchange and guidelines.
- Guidelines for setting up of Digital Corridors including land locked countries.

Mr Rathakrishnan 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.

Output: The report of the UN/CEFACT Cross Border Management Domain was noted.

## 5.2 ITU-T report

[MoU/MG N837](#) was presented by Mr Olivier Dubuisson, ITU-T representative to the MoU/MG on e-business. An extensive contribution of 35 slides covering the various areas of ITU-T development related to e-business. The first 6 slides highlight the various identified MoU/MG resolutions, actions, and coordination items addressed in the report. Subsequent slides in the report provide information on related projects approved and ongoing for Study Groups:

- SG2 Operational aspects of service provision and telecommunication management.
- SG3 Tariff and accounting principles and international telecommunication/ICT economic and policy issues.
- SG5 Environment, climate change and circular economy.
- SG11 Signalling requirements, protocols, test specifications and combating counterfeit products.
- SG13 Future networks, with focus on IMT-2020, cloud computing and trusted network infrastructures.
- SG16 Multimedia coding, systems and applications.
- SG17 Security, and
- SG20 IoT, and smart cities and communities.

As well as the two “Global Initiatives:

- Digital Currently Global Initiative, and
- the global initiative on AI and Data Commons.

The MoU/MG resolutions and Actions identified to projects and actual work within the ITU-T were shown as:

- R09/06 Continuous work with health alliance ITU-T SG 16 with ISO TC 215.
- R16/04 on security with SG 11 and linked with ISO TC 292.
- R16/15 How to normatively reflect text from another organization (IPR consistent with ISO IEC etc.). This is covered in the slide on SG17 and the work with the organisation UPU, although it was reported there are still some issues to resolve with UPU, this is being handled by the two respective organisations.
- R19/01 Trust and trustworthiness covered in the ITU-T in SG11 and SG13 slides, note this item was also highlighted in the UNECE reports. See comment on the term trust raised above in 5.1.7.
- R19/02 Digital Identity Management, under SG3.
- R19/03 Autonomous assisted driving (SG 16 focus group on AI) and also highlights the ISO/IEC JTC1 SC42 committees on Artificial Intelligence and the ISO TC 204 on autonomous / assisted driving.
- R19/04 AI and machine learning.
- A18/01 Quantum Computing (quantum key distribution) is covered in SG17 although this is more related to security.

There were further discussions on the following two topics:

## **Cooperation with UPU:**

UPU confirmed its strong interest to collaborate with ITU-T SG17 and with ITU-T towards becoming ITU-T A.5 qualified for joint publication of UPU S68 and cross recognition of their UPU and ITU-T standards. There are still some legal issues to be clarified, and UPU and ITU-T agreed to be handling this matter off-line under legal advice.

## **Blockchain and distributed ledger technologies**

The question of interoperability of blockchain is gathering interest across various committees (UN/CEFACT and ISO TC 307, as well as in the ITU-T SG16 Q22/16 addressing a work item on invoicing). To be followed up by the respective parties and reported back at the next MoU/MG meeting.

Output: A new Action was proposed and agreed see Action A20/02 in clause 12.

## **Quantum computing**

Standards related to quantum computing and /or quantum technologies are now being carried out in several committees in ITU-T under SG13 and SG17, in CEN CENELEC (Focus Group on Quantum Technologies), ETSI QSC TC Cyber, and in ISO /IEC JTC1 (WG 14). This includes not just key distribution, or quantum computing but a wider view across the spectrum of quantum technologies. As such it was proposed that Action A18 should be updated accordingly. There was also the discussion on post quantum cryptography and its impact in on e-business. It was noted this is currently being studied at NIST and ISO/IEC JTC1 SC27 WG2.

Output: It was agreed to change the title of Action A18 from quantum computing to quantum technologies. This has been reflected in the MoU/MG resolutions and actions in clause 12.

Quantum computing / quantum technologies was also suggested as a potential webinar candidate in the future. This was added to potential webinars see clause 9.2.2.

Output: The report of the ITU-T was noted.

## **5.3 IEC reports**

### **5.3.1 IEC/TC 3 “Documentation, graphical symbols and representations of technical information”**

[MoU/MG N850](#) was presented by Mr Stephen Dutnall on behalf the IEC TC 3 Chair.

The report highlights the scope of the work of TC 3 and its subcommittees:

- SC3C “Graphical Symbols for Use on Equipment”, and
- SC3D “Classes, Properties and Identification of products - Common Data Dictionary (CDD)”.

The report also underlined that these committees focus on requirements for the presentation of information and how to unambiguously identify objects within a system, with less focus on requirements on how to prepare the documents. There was also reference to its approaches in the IEC Whitepaper of 2019 on Semantic Interoperability.

Output: The report from the IEC/TC 3 was noted.

### **5.3.2 IEC/TC 57 “Power systems management and associated information exchange”**

No report received. Request for a follow up on work related to e-business to be made for 2021 related to resolution R14/09 and R16/09.

## **5.4 ISO reports**

### **5.4.1 ISO/TC 8 “Ships and marine technology”**

No report received. Request for a follow up on work related to e-business to be made for 2021.

#### 5.4.2 ISO/TC 37 “Language and terminology”, e-Accessibility

[MoU/MG N856](#) and [MoU/MG N858](#) were presented by Mr Christian Galinski. The report highlights the scope and structure of TC 37 and its 5 Sub committees:

- SC 1 “Principles and methods”,
- SC 2 “Terminology workflow and language coding”,
- SC 3 “Management of terminology resources”,
- SC 4 “Language resource management”, and
- SC 5 “Translation, interpreting and related technology”.

The report also highlighted that the output of the MoU/MG webinar on e-accessibility was well received, identifying the needs for more coordination and efforts.

The recommendation of the ISO/TC 37 is for the ISO/IEC JTC1 SC35 for input and comment at the next MOU/MG meeting in this area of e-accessibility.

Linked to resolutions R11/07, R12/09, R18/01.

Output: A new MoU/MG resolution on e-accessibility was drafted, presented and agreed. See MoU/MG resolution R20/01 in clause 12.

Output: The report from ISO TC 8 was noted.

#### 5.4.3 ISO/TC 46 “Information and documentation”

No report received. Request for a follow-up on work related to e-business to be made for 2021.

Linked to resolution R11/07 and R12/09.

#### 5.4.4 ISO/TC 68 “Financial services”

No report received. Request for a follow up on work related to e-business to be made for 2021.

Linked to resolutions R11/07, R16/06, R16/07.

#### 5.4.5 ISO/TC 154 “Processes, data elements and documents in commerce, industry and administration”

[MoU/MG N853](#) was presented by Ms Zhu Hongru, Chair of ISO/TC154. The report highlighted the activities of ISO /TC 154. Standards published in 2020 were:

- ISO 19626 ISO 19626-1:2020 Trusted communication platforms for electronic documents Part 1: Fundamentals
- ISO 22468 :2020 Value Stream Management (VSM)
- ISO 23354 :2020 Business requirements for end-to -end visibility of logistics flow.

Projects under development:

- ISO/PRF 19626-2 Trusted Communication Platforms for Electronic Documents—Part 2: applications
- ISO/PRF 15000-1 Electronic business eXtensibleMarkup Language (ebXML) —Part 1: Messaging service core specification
- ISO/PRF 15000-2 Electronic business eXtensibleMarkup Language (ebXML) —Part 2: Applicability Statement (AS) profile
- ISO/AWI9735-11 EDIFACT-Part 11: Version 3 compatible profile for Version 4 of ISO 9735
- ISO/AWI 36100 Standardization documents —Document meta model
- ISO 8601 and 34000 series: Unified date and time standards, including syntaxes, BIPM/space time reference systems, calendar systems and temporal models
- ISO 14533 Long term signature profiles
- ISO/AWI 14533-1 Long term signature profiles-Part 1: profiles for CMS Advanced Electronic Signatures (CAeS)

- ISO/DIS 14533-2 Long term signature profiles-Part 2: profiles for XML Advanced Electronic Signatures (XAdES)
- ISO/AWI5054-1 Specification for an Enterprise Canonical Model —Part 1: Architecture
- ISO/WD23355-Visibility data interchange between logistics information service providers.

The ISO/TC 154 next plenary will be held in October 2021.

Related resolutions: ISO/TC154 reviewed its related resolutions status and proposed closure of the following three MoU/MG resolutions:

- Resolution R16/18: Request to close this resolution as the “StreaM” project which was led by ISO/TC 154 was finalised and published as ISO 22468: 2020 Value Stream Management (VSM).
- Resolution R17/04: Request to close this resolution on Business Semantic Thesaurus (BST) as the project was cancelled due to lack of active participation.
- Resolution R18/02: Request to close this resolution on open data interchange framework as the project was cancelled due to lack of active participation.

Output: The meeting approved closing all three MoU/MG resolutions and this is registered in clause 11.

UN/CEFACT acknowledged good, ongoing collaboration with ISO/TC154.

Output: The report from ISO TC 154 was noted.

#### **5.4.6 ISO/TC 171 “Document management applications”**

No report received. Request for a follow up on work related to e-business to be made for 2021.

#### **5.4.7 ISO/TC 184/SC 4 “Industrial data”**

No report received. Request for a follow up on work related to e-business to be made for 2021.

Linked to resolution R16/18.

#### **5.4.8 ISO/TC 211 “Geographic information/Geomatics”**

No report received. Request for a follow up on work related to e-business to be made for 2021.

#### **5.4.9 ISO/TC 215 “Health informatics”**

[MoU/MG N852](#) was presented by Mr Michael Glickman for ISO/TC 215. The report highlighted the activities of ISO/TC 215, where they are looking to have consistent way of reporting affects and terminology, resulting in deep semantic taxonomies and terminologies which have specific semantic implications. Their standards published in 2020 were:

- ISO/TS 23303:2020 Health informatics — Categorical structure for Chinese materia medica products manufacturing process
- ISO/TS 21831:2020 Information model of Chinese materia medica processing
- ISO/IEEE 11703-20701:2020 Health informatics — Device interoperability — Part 20701: Point-of-care medical device communication — Service oriented medical device exchange architecture and protocol binding
- ISO 17115:2020 Health informatics — Representation of categorial structures of terminology (CatStructure)
- ISO/TR 22696:2020 Health informatics — Guidance on the identification and authentication of connectable Personal Healthcare Devices (PHDs)
- ISO/IEEE 11073-10201:2020 Health informatics — Device interoperability — Part 10201: Point-of-care medical device communication — Domain information model
- ISO/TR 21835:2020 Health informatics — Personal health data generated on a daily basis
- ISO/IEEE 11073-10101:2020 Health informatics — Device interoperability — Part 10101: Point-of-care medical device communication — Nomenclature

- ISO/TS 22756:2020 Health Informatics — Requirements for a knowledge base for clinical decision support systems to be used in medication-related processes
- ISO/TS 16791:2020 Health informatics — Requirements for international machine-readable coding of medicinal product package identifiers
- ISO 17090-4:2020 Health informatics — Public key infrastructure — Part 4: Digital signatures for healthcare documents
- ISO 12967-1:2020 Health informatics — Service architecture (HISA) — Part 1: Enterprise viewpoint
- ISO 12967-2:2020 Health informatics — Service architecture (HISA) — Part 2: Information viewpoint
- ISO 12967-3:2020 Health informatics — Service architecture (HISA) — Part 3: Computational viewpoint
- ISO 12860:2020 Health Informatics — Reference standards portfolio (RSP) — Clinical imaging.

The following two projects are under production:

- ISO/TS 22272 Health Informatics - Methodology for analysis of business and information needs of health enterprises to support standards-based architectures.
- ISO/TS 18530 Health informatics — Automatic identification and data capture marking and labelling — Subject of care and individual provider identification.

In 2020 the new subcommittee on Genomics Informatics was approved and formed.

The next ISO TC 215 plenary meeting is set for June 2021.

It was highlighted that the impacts of lockdown has been very productive for TC 215 and whilst there are pros and cons of 100% virtual versus 100% face to face, meetings there has been significant development in 2020.

No actions raised and the report was noted.

The work is related to MoU/MG resolution R16/04 and Action A19/02.

Output: The report from ISO TC 215 was noted.

#### **5.4.10 ISO/TC 307 “Blockchain and electronic distributed ledger technologies”**

No report received. Request for a follow up on work related to e-business to be made for 2021.

There has been a request for a webinar on blockchain in 2021 which is to be organised by ISO and it is expected that ISO TC 307 will contribute. This is captured in clause 9.2. This work area is linked to MoU/MG resolutions R16/08 and resolution R16/16.

#### **5.4.11 ISO/TC 295 “Audit data services”**

No report received. It was explained that in 2020 the committee changed from a PC to a TC with an updated title. Concerns on duplication and lack of coordination have been raised by UN/CEFACT, see clause 5.1.6. It was agreed to keep MoU/MG resolution R16/14.

Request for a follow up on work related to e-business to be made for 2021.

The work is linked to MoU/MG resolution R16/14.

#### **5.4.12 ISO/IEC JTC 1 “Information technology”**

No report received. Request for a follow up on work related to e-business to be made for 2021.

Linked to MoU/MG Action A09/42.

#### **5.4.12.1 SC 32 “Data management and interchange”**

No report received. Request for a follow up on work related to e-business to be made for 2021.

Linked to MoU/MG Action A13/01.

#### **5.4.12.2 SC 35 “User interfaces”**

A request was made to invite JTC1 SC35 for the next MoU/MG meeting. The MoU/MG would welcome the participation of ISO/IEC JTC1 SC35 on user interfaces, and an invite will be sent in 2021 with a request for a highlight report in the area of e-business.

#### **5.4.12.3 SC 40 “IT service management and IT governance”**

A request was made to invite JTC1 SC40 for the next MoU/MG meeting. The MoU/MG would welcome the participation of ISO/IEC JTC1 SC40 and an invite will be sent in 2021 with a request for a highlight report in the area of e-business. In parallel WG14 of ISO TC 36 will also follow this up. This is linked with MoU/MG resolution R16/13.

### **5.5 Participating international user groups and interested parties**

#### **5.5.1 OASIS**

[MoU/MG N854](#) was presented first by MoU/MG Chair Mr Euchner and then followed up by Mr James Clark from OASIS. The report provides a list of the projects approved in 2020 and those ongoing projects:

- OSLC Core v3.0, OSLC Query v3.0, OSLC Requirements Management v2.1, and OSLC Change Management v3.0
- ebXML Collaboration Protocol Profile and Agreement v3.0
- OSLC Quality Management Version 2.1
- ebXML Messaging v 3.0 and ebXML AS4 Profile of ebXML MSG 3.0
- PKCS #11 Cryptographic Token Interface Base Specification Version 3.0, PKCS #11 Cryptographic Token Interface Profiles Version 3.0, PKCS #11 Cryptographic Token Interface Current Mechanisms Specification Version 3.0, PKCS #11 Cryptographic Token Interface Historical Mechanism Specification Version 3.0
- Repeatable Requests Version 1.0
- OData JSON Format, OData Common Schema Definition Language (CSDL) JSON Representation, and OData Common Schema Definition Language (CSDL) XML Representation (all version 4.01)
- OData version 4.01 (base specification)
- Static Analysis Results Interchange Format (SARIF) V2.1.0
- STIX Version 2.1.

Other recent relevant activity:

- ebXML Messaging Protocol Binding for RegRep Version 1.0
- Service Metadata Publishing (SMP) Version 2.0 CS02
- Baseline Protocol
- OASIS Electronic Secure Authentication (ESAT) TC: New Project (identity authentication protocols)
- Exchange Header Envelope (XHE) Version 1.0
- XACML v3.0 Related and Nested Entities Profile Version 1.0 CSD02
- Open Document Format for Office Applications (OpenDocument) v1.3
- UBL 2.1 JSON Alternative Representation Version 2.0, UBL 2.2 JSON Alternative Representation Version 1.0, UBL 2.3 JSON Alternative Representation Version 1.0, UBL Maintenance Governance Procedures Version 1.1, UBL Naming and Design Rules Version 3.1
- Security Algorithms and Methods (SAM) TC
- OASIS uses GitHub as the primary platform.

It was requested that future reports from OASIS also link to the scope of the MoU/MG and underline how their projects are linked to the various MoU/MG resolutions.

It was highlighted that the Exchange Header Envelope (XHE) was a joint project with UN/CEFACT. This work area is linked with the following MoU/MG resolutions R16/04, R16/06 and R16/07.

Output: The report from OASIS was noted.

### **5.5.2 OAGi**

[MoU/MG N851](#) was presented by Mr Jim Wilson, OASIS President and CEO. OAGi is an industry association whose objective is to develop inter-operable, cross-functional, cross-industry, data-model-driven, and extensible standards for the global digital economy. OAGi's approach is to create ontology libraries (using OWL but not developing ontologies themselves), using Github for development.

- In 2020 OAGi launched their "Score" as an open-source project. Score is a cloud-based tool to enable collaborative development and produce xml schema, json schema etc. OAGi has developed this tool with NIST. The members of the group asked if it were possible to get feedback with the experience on open-source developments.
- A question was raised if this work was related to work within UN/CEFACT. UN/CEFACT responded that it works on semantic data models not on ontologies (where it is understood that semantics looks at base definitions and higher models, whilst ontologies is looking at forming links across data). As such this is not currently being worked on within UN/CEFACT.
- It was also highlighted that there are many different types of ontologies (not just OWL). There is work in ISO TC 37 SC3 Distributed ontology language to make ontologies interoperable, other works on ontologies were identified in the OMG.

Output: It was agreed that the relevance of ontologies in the e-business context should be considered further. Proposed area for discussion in the next MoU/MG meeting in 2021.

Output: The report from OAGi was noted.

### **5.5.3 GS1**

There was no report received from GS1. Given the previous experience and contribution of GS1 to the MoU/MG over the years, the MoU/ MoU/MG would very much like to identify a new contact since the normal contact is no longer there.

It was asked if anyone with contact to GS1 could reach out and help to MoU/MG to get a replacement for Mr Anders Grangard. Mr Michael Glickman offered to help.

### **5.5.4 SWIFT**

No report received. Request for a follow up on work related to e-business to be made for 2021.

### **5.5.5 CEN eBCG**

No report received. Request for a follow up on work related to e-business to be made for 2021.

### **5.5.6 IMO**

No report received. Previous contact has retired and no updated information received since then.

It was highlighted that IMO handles conventions but do not have a tool to create messages for the electronic exchange of e-business related messages. IMO has an MoU with UN/CEFACT for their e-data exchange needs, however, it was reported that IMO does not have a group on e-business.

Proposal to remove IMO on the active list and create a dormant organisations list.

Output: A dormant organisations list will be added to the draft agenda for the next plenary meeting and IMO will be moved to this area.

### 5.5.7 UPU

[MoU/MG N857](#) was presented by Mr Paul Donohoe from Universal Postal Union (UPU). The report provides an overview of the activities of UPU in the e-business area. There are two main areas of work for UPU:

- 1) Supply chain and trade logistics digitalisation
- 2) Digital transformation of the UPU and digital financial services.

There are currently two open MoU/MG action items for UPU:

- A08/01: UPU and ISO were to explore references to each other. Given that a joint publication has been made on A08/01 this item can be seen as closed.  
Meeting approved the proposal and the MoU/MG Action A08/01 was closed.
- A09/41: Investigation putting RFID tags (on receptacles, bags or the items on themselves). But RFID is already used for checking quality of service as such it was proposed that this MoU/MG action could be removed. After some discussion in the meeting and also due to some of the stakeholders not being present it was agreed to keep the action open and review at the next MoU/MG meeting in 2021.

Output: Action A08/01 Agreed to be closed.

Action A09/41: to be reviewed for closure at the 2021 December MoU/MG meeting.

Output: The report of the UPU was noted.

### 5.5.8 WCO

No report received.

Request for a follow up on work related to e-business to be made for 2021.

Linked to MoU/MG resolution R17/11 and MoU/MG Action A17/06.

## 6. New coordination items with respect to e-business

The items listed below correspond to coordination items which do not have MoU/MG resolutions/actions – they should receive a resolution / action through requests in reports under item 5 or during the plenary meeting, in order to be moved to existing actions and be retained on this agenda. If they do not, they shall be candidates for closure. At each plenary meeting the outstanding proposed coordination items are reviewed, those covered elsewhere or not relevant for e-business are groomed out. The template for justifying the continuation of a topic is:

- Rationale for e-business.
- Justification not to remove.
- Action/output.

### 6.1 Archiving for legal purposes

- Rationale for e-business: May have relevance for ISO TC 37, JTC1 SC35, ISO TC 46 and potentially in IEC. One item highlighted was compatibility on PDF structure.
- Justification not to remove: Needs further investigation on identified groups.
- Action/output: keep and ask for contributions: to be reviewed at the next MoU/MG meeting.

### 6.2 Fraud countermeasure

- Rationale for e-business: Work carried out under this area such as SG11, SG20 (ITU-T) counterfeit mobile devices and various use cases for traceability ISO TC 292 WG4 and in the areas of trustworthiness, blockchain, etc.
- Justification not to remove: MoU/MG asks for some follow up to conclude on this (resolution, action or drop).
- Action/output: keep and ask for contributions: to be reviewed at the next MoU/MG meeting.



### 6.3 Internet-of-Things: Impact on e-business (new title)

- Rationale for e-business: The impacts of IoT on e-business is beginning to be documented (see UN/CEFACT references in 5.1.5 and 5.21.7, the ITU-T report, the OAGI report and the ISO/IEC JTC1 SC41). Note there was also an MoU/MG Webinar on IoT in September 2018 <https://unece.org/trade/uncefact/webinar-IoT-eB-MoU> see [MoU/MG N816](#))
- Justification not to remove: Needs further investigation on identified groups.
- Action/output: keep and ask for contributions; to be reviewed at the next MoU/MG meeting.

### 6.4 Security (proposed to remove)

- Rationale for e-business: Security has a major impact on e-business.
- Justification not to remove: Security is too broad a term and that the aspects of security on e-business are now being covered in more specific areas (trustworthiness, etc.)
- Action/output: Agreed at the meeting that security to be removed from the list in clause 6 in future as it is already being covered at a more detailed level in the group.

### 6.5 Transportation (proposed to remove)

- Rationale for e-business: Proposed in 2016 this was on the agenda and was linked to intelligent transportation systems (ITS) for UN/CEFACT standards and ITU-T ITS standards, although no MoU/MG resolution was produced at the time.
- Justification not to remove: There is confusion here as some interpretations of transport could be at protocol level. No input provided on this area for over three years.
- Action/output: Agreed at the meeting that transportation to be removed from the list in clause 6 in future.

## 7. Coordination of existing actions

Due to time constraints of the virtual meeting, it was decided that the MoU/MG secretariats would review them in a meeting end of January 2021 and update the MoU/MG meeting report accordingly. Any resolution / action not referred to in the 2020 meeting reports will be flagged as candidate for closure to be addressed at the next (43<sup>rd</sup>) MoU/MG meeting in 2021.

## 8. Promotional activities

This part was not covered in the meeting due to lack of time. It will be addressed at the meeting of the four MoU/MG secretariats' signatories end of January 2021 where promotional activities will be considered.

## 9. Secretariat

### 9.1 Upcoming MoU/MG meetings

The MoU/MG uses a rotating system for Chair and Secretary across the 4 MoU/MG signatories. The rotation occurs before each MoU/MG and lasts 12 months. The Chair and Secretary for the period 2020 to 2021 are:

- Chair: ITU-T, and
- Secretary: IEC.

There are two types of meetings identified within the MoU/MG:

1. The MoU/MG meetings: Occurs annually in December. The next MoU/MG meeting will either be hosted or will be a virtual 2-days meeting depending on the situation due to COVID19. Note that the plenary for 2021 will be comprised of
  - Chair for MoU/MG meeting 2021: UNECE
  - Secretary for MoU/MG meeting 2021: ISO
  - Host for MoU/MG meeting 2021: ITU-T.

2. 4 MoU/MG secretariats' signatories meeting: Occur roughly 3 times a year. Comprised of the 4 MoU/MoU signatories to discuss promotional activities, webinar management, plenary preparations and associated activities.

## 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. A template will be added to the draft agenda to encourage its take up.

It was highlighted that individual organizations are responsible for contacting their constituencies.

Reminders should be sent out by the respective members as part of the agenda for the next plenary meeting.

## 9.3 MoU/MG webinars

### 9.3.1 Webinar on Traceability

An MoU/MG webinar was organized by UNECE in 2020 on traceability on 22<sup>nd</sup> October 2020 13:00-15:30. This webinar investigated the activities of international standards setting organizations on the topic and shed insights into their traceability related standards as relevant in the context of e-business. In e-business exchanges, traceability can take several different meanings depending on the context:

- Traceability can include the operational tracking of an asset (merchandise, pallet, container), to know where it is on the supply chain.
- Traceability can include regulatory compliance of merchandise, to ensure that regulations (economic, social or other) have been respected, especially when crossing borders.
- Traceability can also include technical visibility of all the data exchanges, to ensure that the information has not been compromised or changed.

This webinar included input from UN/CEFACT, ITU-T Study Group 16, ITU-T Study Group 11, ITU-T Study Group 2, IEC TC 57 and ISO TC215. For more information and presentation material used please go to the following URL:

<https://unece.org/trade/events/webinar-traceability-within-context-ebusiness-standards>

The 4 MoU signatories will want to consider any conclusions from this traceability webinar, and possible implications to the MoU/MG.

### 9.3.2 Future proposed webinars

Potential webinars and their relation to e-business:

- Semantic Interoperability (led by IEC) in 2021, To be confirmed at a later date.
- Blockchain and distributed ledger technologies (led by ISO) in 2021, To be confirmed at a later date.  
OASIS was interested to participate and to be included.
- Quantum technology (Technology (led by ITU-T).  
Note this area may need to be delayed for maturity in the market, to understand any specific relationship with e-business, and to allow for ideas to be more consolidated.

## 10. Any other business

No points were raised.

## 11. Resolutions and actions closed at the meeting

- Taken from 5.1.2: The following MoU/MG resolutions are now complete and should be removed from the list
  - Resolution R17/09

- Resolution R18/03.
- Taken from 5.4.5: The following MoU/MG resolutions are now complete and should be removed from the list:
  - Resolution R16/18,
  - Resolution R17/04, and
  - Resolution R18/02.
- Taken from 5.5.7: The following MoU/MG actions are now complete and should be removed from the list:
  - Action A08/01.
  - Action A15/02: ETSI was contacted and joined an MoU/MG meeting since 2015; the following action is therefore closed:
  - Action A15/02

## 12. New resolutions and actions approved at the meeting

The following MoU/MG resolutions and actions were presented for approval.

R20/01	Accessibility	The MoU/MG, conscious about web content accessibility increasingly becoming legally obligatory in many countries especially in the public domain, encourages members of the MoU/MG (in line with MoU/MG Resolution 18/01) to consider the aspect of web content accessibility complying with ISO/IEC 40500 in the development of structured data (such as codes, symbols, nomenclatures, classifications, etc.)	New, in force
A20/01	Circular economy	The MoU/MG, in support of sustainable electronic business in general, and of the UN sustainable development goal 12 “Ensure sustainable consumption and production patterns” (SDG12), invites its members to provide inputs to the MoU/MG on circular economy for e-business at its next meeting.	New
A20/02	Blockchain and distributed ledger technologies	The MoU/MG found considerable interest in the use of blockchain and distributed ledger technologies (DLT) with an impact on electronic business, and invites its members to report to the MoU/MG their approaches and requirements on interoperability of DLT.	New
A18/01	Quantum technologies	MoU/MG invites its members to provide inputs to the next MoU/MG meeting on the subject of quantum technologies in the scope of electronic business.	New

All items were approved unanimously and are now included in the established list.

## 13. Closing of the meeting

The following information is provided to help gauge the time needed if a virtual meeting is repeated.

- Day 1, the timing of the meeting was 10.00 to 14.30 CET
- Day 2, the timing of the meeting was 13.00 to 16.00 CET.

The meeting closed on the second day, 10 December 2020 at 16.00 CET.

**Annex A – List of participants, 9 and 10 December 2020 MoU/MG on e-Business meeting**

<b>Title</b>	<b>Surname</b>	<b>First Name</b>	<b>Entity</b>	<b>Group</b>
Mr	Benhayoun	Jalal	UNECE	UN/CEFACT SWD
Mr	Boixo	Ignacio	CEN	
Mr	Clark	Jamie	OASIS	
Mr	Donohoe	Paul	UPU	
Mr	Dubuisson	Olivier	ITU	ITU-T representative Secretariat
Mr	Dulmage	Rae	ISO	PC245
Mr	Dutnall	Stephen	IEC	IEC Secretariat
Mr	Euchner	Martin	ITU	ITU-T Secretariat
Ms	Fratini Passi	Liliana	UNECE	UN/CEFACT Vice Chair
Mr	Galinski	Christian	ISO	ISO TC/37
Mr	Glickman	Michael	ISO	TC 215
Mr	Gray	Edmund	UNECE	UN/CEFACT SCMP
Ms	Mathew	Laura	ISO	ISO Central Secretariat
Mr	Mehta	Sachin	UNECE	UN/CEFACT T+T
Ms	Phelan	Elizabeth	UPU	
Ms	Probert	Sue	UNECE	UN/CEFACT Chair
Mr	Rathakrishnan	Ananth	UNECE	UN/CEFACT CBM
Mr	Rossi	Gernot	IEC	SC3D
Mr	Sorrentino	Fabio	UNECE	UN/CEFACT F+P
Mr	Srinivasan	Kaushik	UNECE	UN/CEFACT eGOV
Mr	Suzuki	Akio	UNECE	UN/CEFACT T+T
Mr	Thompson	Lance	UNECE	UNECE Secretariat
Ms	Wang	Linda	ISO	
Mr	Wilson	Jim	OAGi	
Mr	Zhang	Jianfang	ISO	TC154 secretary
Ms	Zhu	Hongru	ISO	TC/154

IEC participants = 2

ISO participants = 7

ITU participants = 2

UNECE participants = 10

Partner organizations = CEN (1), UPU (2), OAGi (1) and OASIS (1)

Total = 27 participants

### Annex B – List of standing MoU/MG Resolutions

<b>Resolution</b>	<b>Area</b>	<b>Resolution text</b>	<b>Status</b>
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
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
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
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
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
R12/09	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

<b>Resolution</b>	<b>Area</b>	<b>Resolution text</b>	<b>Status</b>
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
R14/09	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
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
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

<b>Resolution</b>	<b>Area</b>	<b>Resolution text</b>	<b>Status</b>
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
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
R16/10	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
R16/13	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
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

<b>Resolution</b>	<b>Area</b>	<b>Resolution text</b>	<b>Status</b>
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
R17/03	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
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
R17/11	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
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



<b>Resolution</b>	<b>Area</b>	<b>Resolution text</b>	<b>Status</b>
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 C – List of MoU/MG Actions**

<b>Action</b>	<b>Area</b>	<b>Action text</b>	<b>Status</b>
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
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

Action	Area	Action text	Status
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
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 <sup>rd</sup> edition of the ISO/IEC 14662 "Information technology – Open-edi Reference Model" standard. MoU/MG member organizations are requested to contact the JTC 1/SC32/WG1 Convenor, Mr Wenfeng Sun ( <a href="mailto:sunwf@cnis.gov.cn">sunwf@cnis.gov.cn</a> ) 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
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
A17/06	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 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