

AUDIT
REPORT

OF THE

D08B ACC and BIE CCL Directories
and
All associated RSMs and schemas

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1. Introduction

UN/CEFACT ICG are pleased to announce that the D08B Core Component Library (CCL) directory, the supporting Requirements Specification Mapping (RSM) documents, and the XML Schema libraries have been produced in compliance with existing procedures and are considered satisfactory for implementation.

2. Summary

The D.08B audit began 2008-08-23 on receipt from TBG17 of the draft D.08B CCL. This CCL release underwent four audit passes, each pass necessitating revision. The final submission was received and approved by the ICG on 2009-02-24 and published on the UN/CEFACT website on 2009-03-27.

The D.08B CCL audit identified a number of problems which caused the delay in publication. The D.08B CCL introduced a new concept with the inclusion of a set of ABIE Core Components that were not fully contextualised. The ICG was of the opinion that these semi-contextualised ABIEs did not comply with CCTS 2.01, the concept of semi-contextualised ABIEs was not envisaged in this specification. In addition the ICG was unaware of any approved documentation which explained how such semi-contextualised ABIEs were to be used and how they could be integrated into a schema.

The ICG presented its initial findings to the UN/CEFACT Forum in Saly on 2009-11-12 and proposed that two separate libraries be published. However, there was no real consensus for this proposal.

After considerable dialogue within the FMG and TMG, the problem was referred to the UN/CEFACT Bureau. Their decision was to publish the CCL in two worksheets along with the following text:

"D.08B Core Component Library The BIE (Business Information Entity) and qDT (qualified Data Type) libraries are released in two forms, standard and extended:

Standard *The official audited CCL BIE and qDT libraries consisting of only those ABIEs and qDTs that are required to support the production of the UN/CEFACT Standard message schemas.*

Extended *The un-audited CCL BIE & qDT libraries consisting of the standard ABIEs and qDTs, and other ABIEs and qDTs, harmonised by TBG17.*

The extended BIE and qDT libraries are made available by UN/CEFACT for information as part of the D.08B CCL release in support of ongoing UN/CEFACT standardisation developments that concern the core components. It is work in progress and may be subject to change. These libraries have not undergone a complete audit and as such have not been accorded a status of being a standard."

Refer to Annex D (Bureau Note to Forum Management Group)

The audit also covered the validation of two Requirements Specification Mapping documents, the PSCPM (Project Schedule and Cost Performance Management) RSM and the Accounting Entry RSM.

Schema generation is dependent on finalisation of the CCL. As a consequence the generation of the schemas could not commence prior to 2009-02-24. The ICG validation of the schemas began on 2009-04-22 with the reception of the first schema directory for audit from ATG. Three audit passes were required. The final pass was received on 2009-08-28. The schema library was approved by the ICG on 2009-09-09. However, certain namespace errors came to light during the publication step that necessitated correction and final publication on the 2009-09-09.

This report details the audit findings from the audit cycles of the D.08B CCL and schemas.

CCL file pass 1 CCL08B_23SEP08_ICG.zip

CCL file pass 2 CCL08B_27JAN09_ICG.zip

CCL file pass 3 CCL08B_13FEB09_ICG.zip
CCL file pass 4 CCL08B_17FEB09.zip

Schema file:pass 1 D08B_draft_20090422.zip
Schema file pass 2 D08B-draft_20090821.zip
Schema file pass 3 D08B-draft_20090828.zip

General

The audit of the D.08B CCL and schema library has once again highlighted the need for UN/CEFACT to move to the recommended use of UMM and its supporting UPCC (UML Profile for Core Components) specification. The size of the libraries and the use of Excel spreadsheets makes it difficult to easily gain an informed view of the library and its contents. For example, to identify infinite loops or to detect errors that could occur with the inadvertent addition of ASBIE entries. This issue has become even more pressing with the introduction of the semi-contextualised ABIEs where the difference between what are fully contextualised ABIEs and what are semi-contextualised ABIEs is unclear.

The ICG would like to reiterate that UPCC provides all the necessary mechanisms to enable the libraries to be clearly represented in standard UML modelling tools.

Recommendation 1-D.08B: The ICG recommends that the UN/CEFACT FMG put urgently into place a roadmap to move the CCL for an Excel base to a UPCC compliant library.

D.08B Core Component Library Audit

As mentioned above the single major issue which occurred with the D.08B audit was the introduction of semi-contextualised ABIEs without any supporting procedures for their use. This is breaking the CCTS V2.01 Rule:

[B31] *Syntax Binding* shall not change the semantics of a *Business Information Entity*.

This issue took some time to address for D.08B and was one of the principle causes for the long delay in the D.08B production cycle.

The ICG would like to reiterate the recommendation made in its D.08A audit report and strongly recommends that it be heeded.

Recommendation 2-D.08A: The ICG recommends that any deviation to the UN/CEFACT production process be first formalised, in particular where potential enhancements are required to the process that could necessitate change to the foundation UMM, CCTS and/or NDR specifications.

3. List of Open Issues & Recommendations

The following is a list of the issues still open that have been carried forward from previous audits and that the ICG considers need urgent resolution. Other issues of a minor nature have not been brought forward in this list:

Issue 1: The ICG considers that the allocation of a minor/major change indication to a codelist is inconsistently addressed in the NDR. A change to a codelist is considered a minor change whereas a change to an enumeration is considered a major change. Since an enumeration is merely a codelist embedded in a schema, both types of change should be treated in the same manner. The ICG considers this to be an issue that should be resolved with the evolution of the NDR.

Issue 2: The ICG considers that the rules as defined in appendix H (Naming and Design Rules list) of the NDR should be standalone and respected. Any such rules that require interpretation (e.g. because of the context that they are defined in) should be enhanced to eliminate the requirement for interpretation.

Issue 3: The ICG believes that the release of a schema which is semantically no different from the previous release should have the same version information.

Issue 4: The ICG believes that the convention for the use of Supplementary Component information in a restricted codelist through its namespace should be clearly documented. This appears to be a restriction of the implementation possibilities.

Recommendation 3-D.08A: The ICG recommends that the UN/CEFACT Controlled Vocabulary be published on the UN/CEFACT website and that formal procedures be put into place to cover its ongoing maintenance.

Recommendation 4-D.08A: The ICG recommends that as a matter of urgency the CCL ongoing maintenance process be formalised, in particular to define the CCL change request workflow to ensure the transparent evolution of the directory and assignment of appropriate change indicators (not dissimilar to that implemented for UN/EDIFACT) .

Recommendation 4-D.08A: The ICG recommends that the code list and identifier list be merged into one to better facilitate access and for consistency.

Recommendation 5-D.08A: The ICG recommends that TBG17 refrain from assigning acronyms as qualifier terms to indicate where an ABIE is to be used, as opposed to further define the meaning of the object class.

Recommendation 6-D.08A: The ICG recommends that a formal procedure be put into place to manage the evolutions of the CCL spreadsheet layout to ensure that all interested parties are aware of layout changes before the publication of a CCL release.

Recommendation 7-D.08A: The ICG recommends that the RSM clearly expresses the intent of the use of the multiplicity 'unbounded' so that implementers may know what should be provided. This is especially important when multiple occurrences of data with the same semantic meaning need to be differentiated through different supplementary component values.

Recommendation 8-D.08A: The ICG recommends that TBG17 ensure that the RSM canonical model and the resulting ABIE(s) are in alignment.

Recommendation 9-D.08A: The ICG recommends that the TBG groups make sure that the BRS clearly reflects the resulting implementation of the syntax solution. Any evolutions that have occurred should be reflected in the BRS.

Recommendation 10-D.08A: The ICG recommends that the TBG groups treat the BSP model as a guideline for the development of UN/CEFACT compliant schema and recognise that it is not mandated as criteria to impose design constraints which are not business driven.

Recommendation 11-D.08A: The ICG recommends that the schema components for code lists should only make use of a single version of a given code list within a particular UN/CEFACT release.

Recommendation 12-D.08A: The ICG recommends that as part of its audit checks, it confirms that for each code list, that the version identification is correct and that this version is used as the schema component. This implies that schema components for code lists should only make use of a single version of a given code list within a particular UN/CEFACT release.

Recommendation 13-D.08A: CEFACT needs to establish a more direct liaison with respective ISO Maintenance Agencies for code lists used within CEFACT to ensure that latest versions are correctly identified and published as part of the CEFACT deliverables.

Recommendation 14-D.08A: The ICG recommends that for annotation, that multiple qualifier terms are presented as a single annotation element. This would ensure documentation compatibility with the CCL and comply with the CCTS 2.01 specification.

Recommendation 15-D.08A: The ICG recommends that ATG provide the documentation relevant to the use of supplementary components in the documentation of the XML datatype rendering.


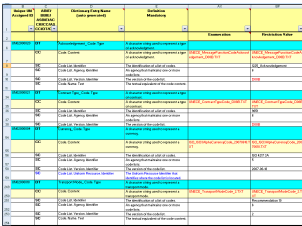
Recommendation 15 D.08A: The ICG recommends that ATG identify two independent tools which can be used for schema generation and which produce the same generation results. It should also be borne in mind the intended evolution to UPCC compliant specifications.

Annex A. D.08B CCL Audit Details

A.1 D.08B CCL Summary

| Directory | Audit Check | Audit Comments |
|-----------------------------|--|-----------------------------|
| ALL | Differences between D.08A & D.08B | See 2.2 below |
| ALL | Duplicate / Missing / Incorrect UIDs | None detected |
| ALL | Duplicate/ Missing / Incorrect DENs | None detected |
| ALL | Duplicate / Missing / Suspect Definitions | See 2.3 below |
| ALL | Definition Spelling / Gramma / Structure | See 2.3 below |
| BIE qDT | Check consistency between the D.08B BIE and qDT libraries. | See 2.4 below |
| ACC BIE | Check consistency between the D.08B BIE and parent ACC libraries. | No inconsistencies detected |
| ASBIE ABIE | Check consistency between the ASBIE and ABIE entries in standard D.08B BIE library. | No inconsistencies detected |
| BIE Standard Extended | Check consistency between the standard D.08B BIE library and the extended D.08B BIE library. | See 2.5 below |
| qDT Standard Extended | Check consistency between the standard D.08B qDT library and the extended D.08B qDT library. | No inconsistencies detected |
| BIE Standard | Check that all root (message) level ABIEs and associated ABIEs are present. Check that there no superfluous ABIEs present. | See 2.6 below |
| ALL | Review of updated PSCPM RSM | See 2.7 below |
| ALL | Review of Accounting Entry RSM | See 2.8 below |
| BIE qDT | Restructuring of BIE and qDT libraries to "standard" and "extended" | See 2.9 below |
| BIE | Observations on endless loops | See 2.10 below |
| ALL | Observations on change indicators | See 2.11 below |
| BIE | Observations on ABIE qualifier terms | See 2.12 below |
| qDT Standard | Check reference values | See 2.13 below |

A.2 D.08A / D.08B Differences

| D.08A UID / Name | D.08B UID / Name | Audit Comments |
|---|---|--|
| UN00000386 Party. Specified. Person | UN00000386 Party. Specified. Person | The sequence position of this ASCC within ACC UN00000376 has changed. Revert to the D.08A position. Confirmed correction |
| UN00002758 Process. Operator. Party | UN00002758 Process. Operator. Party | The sequence position of this ASCC within ACC UN00000430 has changed. Revert to the D.08A position. Confirmed correction |
| UN01002492 Exchanged_ Document. Status. Code | UN01002492 Exchanged_ Document. Status. Code | “CHG” indicated. No apparent change in visible content. Accepted, qDT UID and TDED entries were subject to change. |
| qDT Library | qDT Library | <p>Considerable number of changes applied without indication of “CHG”.</p> <p>Aside from source version changes, unable to determine logic behind the changes applied in D.08B qDT.</p> <p>See examples below (differences highlighted in red).</p> <p>Extract from D.08A QDT</p>  <p>Extract from D.08B QDT</p>  <p>TBG17 – We have removed redundancy and corrected positioning in the meta data and not changed the qDT. Therefore, the data model did not change. Putting CHG in column A would be deceptive and would confuse implementers.</p> <p>Audit - Accepted</p> |

A.3 D.08B Definitions

| UID | Type / Name / Definition | Audit Comments |
|------------|----------------------------------|---|
| UN01003532 | ABIE Evidence_ Document. Details | Qualified ABIE has an identical definition to its |

| | | |
|--------------------------|--|--|
| | A collection of data for a piece of written, printed or electronic matter that provides information or evidence. | parent ACC (UN00000309 - Document. Details) Confirmed change to ABIE definition. |
| UN01002324 | ABIE Regulated_ Dangerous Goods. Details A hazardous or non-hazardous substance which may pose risks to people and/or the environment for which the transportation is regulated by dangerous goods regulations. | Qualified ABIE has an identical definition to its parent ACC (UN00001573 - Dangerous Goods. Details) Confirmed change to ABIE definition. |
| UN01003944 | ABIE Posted_ Accounting Entry. Details A posting of monetary values into accounting books that indicates the financial flow for an economic event, the acquisition or consumption of a resource, or the working contribution of an agent. | Qualified ABIE has an identical definition to its parent ACC (UN00002151 - Accounting Entry. Details) Confirmed change to ABIE definition. |
| UN01004159 | ABIE Supply Chain_ Consignment. Details A separately identifiable collection of goods items to be transported or available to be transported from one consignor to one consignee via one or more modes of transport where each consignment is the subject of one single transport contract. | Qualified ABIE has an identical definition to its parent ACC (UN00001762 - Consignment. Details) Confirmed correction |
| UN01003433 | ABIE Cross-Border_ Customs Procedure. Details Any procedure based on the World Customs Organization (WCO) Kyoto Convention and related to the border crossing of internationally traded goods. | Qualified ABIE has an identical definition to its parent ACC (UN00001860 Customs Procedure. Details) Confirmed correction |
| UN01004440 | BBIE Supply Chain_ Trade Settlement. Creditor Reference Type. Code The code specifying the type of creditor reference for this trade settlement. | Qualified BBIE has an identical definition to its parent BCC (UN00002700 - Trade Settlement. Creditor Reference Type. Code) Confirmed correction |
| UN01001646 UN01004565 | ASBIE Trade_ Contact. Direct_ Telephone. Specified_ Communication ASBIE Trade_ Contact. Direct_ Telephone. Universal_ Communication The direct telephone communication information for this trade contact. | Both ASBIEs have an identical definition Association to Specified_ Communication has been deprecated. Should be indicated with a maintenance indicator of "DEP". TBG17: We are not aware of this indicator. We had previously agreed (in Mexico City) to use 'X' as the indicator for deprecation. However, ICG (in Saly) did not approve the use of 'X'. TBG17 has put deprecation indication in the Publication Comments field. In addition, rules need to be established concerning the meaning of 'deprecation'. |
| UN01001650 UN01004569 | ASBIE Trade_ Contact. Email_ URI. Specified_ Communication ASBIE Trade_ Contact. Email_ URI. Universal_ Communication The email URI communication information for this trade contact. | Both ASBIEs have an identical definition Association to Specified_ Communication has been deprecated. Should be indicated with a maintenance indicator of "DEP". TBG17: See above. |
| UN01001647 UN01004566 | ASBIE Trade_ Contact. Mobile_ Telephone. Specified_ Communication ASBIE Trade_ Contact. Mobile_ Telephone. Universal_ Communication The mobile telephone communication information for this trade contact. | Both ASBIEs have an identical definition Association to Specified_ Communication has been deprecated. Should be indicated with a maintenance indicator of "DEP". TBG17: See above. |
| UN01001575 UN01004858 | BBIE Referenced_ Document. Line. Identifier BBIE Referenced_ Document. Line_ | Both BBIEs have an identical definition Confirmed correction |

| | Identification. Identifier The unique identifier of a line in this referenced document. | |
|--|--|--|
| UN01004464 UN00002295 UN00003105 UN00002318 UN00002060 UN01004884 UN01004263 UN00001843 UN01004735 UN00003219 UN01003412 UN01001276 UN00002314 UN00002300 UN01004469 UN01004633 UN03000155 UN01004470 UN01004734 UN01003964 | | Extra space character in definition. Confirmed correction |
| UN01004481 | | Extra period at end of definition Confirmed correction |
| UN02000002 UN01004618 UN01003533 UN01003423 | | Missing period Confirmed correction |
| UN00001694 | A type of tax, expressed as text,. | Extra comma Confirmed correction |
| UN00003131 UN00002018 | A unloading event for this trade delivery. | "A " to "An " Confirmed correction |
| UN00002980 UN00002964 UN01004158 UN01004257 | | "vanning"??? No controlled vocabulary published "vanning" confirmed as being in the CV; posted on core.gov . |
| UN01004296 | Binary object data ,such as a photograph, describing this supply chain event. | Misplaced comma Confirmed correction |
| UN00001829 UN00001830 UN03000063 UN03000068 UN01004238 UN01004239 UN01002538 UN01002543 | | "baseport"??? No controlled vocabulary published "baseport" confirmed as being in the CV; posted on core.gov . |
| UN01004807 | The specified period of laycan time during which this transport event occurs. | "laycan"??? No controlled vocabulary published Term and definition confirmed as being added to the CV as posted to core.gov 14OCT08. |

Note:

- The Controlled Vocabulary document is a UN/CEFACT deliverable and should be provided in a transparent manner on the UN/CEFACT website. The rules and procedures governing the maintenance and publication of this document should be formally approved.

TBG17: We will post the Controlled Vocabulary on the TBG17 web site. We look forward to working with ICG on rules and procedures.

A.4 **BIE / qDT Consistency**

| D.08A BIE UID / Name | | D.08B qDT UID / Name | Audit Comments |
|--|------|--|--|
| UN01003426 Booked_ Accounting Account. Set Trigger. Code The code specifying the set trigger for this booked accounting account to be used in response to a specific event or a set of events. | | UN02000110 Accounting_ Document_ Code. Type A character string used to represent an accounting document. | Question whether qDT is appropriate code set for BIE TBG17 - Confirmed by TBG12 Chair to be correct. A document type triggers the use of pre-determined accounts. <i>Document. Code and Accounting Account. Set Trigger. Code</i> refer to the same code list. Audit - Accepted |
| E.g. UN01000901 Structured_ Address. Country. Identifier | | UN02000003 Country_ Identifier. Type | qDT UN02000003 does not appear as a "Qualified Data Type UID" in the "Standard-BIE" worksheet. For example it should appear against BIE UN01000901, there may be other BIEs missing qDT identification? TBG17: qDTs are based on the submission. If there are cases where a qDT is not applied, then the submitter did not request it. ICG: The country code is one of the base code sets. If it is not used by any Standard BIE, it should be deleted from the Standard qDT library. ICG recommends that TBG17 consult with the TBGs to determine whether country codes are required in any of the D.08A message types. TBG17: qDTs are based on the submission. If there are cases where a qDT is not applied, then the submitter did not request it. We will ask the submitters about this, and any who want to use it can submit change requests. We have removed this qDT from the message qDTs. |
| UN01000008 | BBIE | Tender_ Bill Of Quantities. Default_ Language. Code | Of note are the following BBIEs without a qDT UID. TBG17: qDTs are based on the submission. If there are cases where a qDT is not applied, then the submitter did not request it. We will ask the submitters about this, and any who want to use it can submit change requests. |
| UN01001288 | BBIE | Lodging House_ Party. Language. Code | |
| UN01001896 | BBIE | Project_ Party. Language. Code | |
| UN01002023 | BBIE | Requesting_ Party. Language. Code | |
| UN01002083 | BBIE | Contractor_ Party. Language. Code | |
| UN01002120 | BBIE | Appropriating_ Party. Language. Code | |
| UN01002130 | BBIE | Approving_ Party. Language. Code | |

| | | | |
|------------|------|--|--|
| UN01002815 | BBIE | Crop Data Sheet_ Document. Type. Code | |
| UN01000901 | BBIE | Structured_ Address. Country. Identifier | |
| UN01002101 | BBIE | Unstructured_ Address. Country. Identifier | |
| UN03000027 | BBIE | SPS_ Address. Country. Identifier | |
| UN03000088 | BBIE | SPS_ Country. Identification. Identifier | |

A.5 **D.08B Standard & Extended BIE Library Differences**

| Standard Library ABIE UID / Name | Extended Library ABIE UID / Name | Audit Comments |
|---|---|--|
| UN01000379 Procuring_ Project. Total_ Budget. Amount | UN01000379 Procuring_ Project. Total_ Budget. Amount | The publication comments in the standard ("Message") library have been truncated. Confirmed correction. |
| UN01001973 Project_ Schedule Task. Lag Time. Measure | UN01001973 Project_ Schedule Task. Lag Time. Measure | The definition in the standard ("Message") library has been truncated. Confirmed correction. |
| UN01002012 Reporting_ Data Node. Hierarchical Level. Numeric | UN01002012 Reporting_ Data Node. Hierarchical Level. Numeric | The definition in the standard ("Message") library has been truncated (full stop missing). Confirmed correction. |
| UN03000053 SPS_ Consignment. Details | UN03000053 SPS_ Consignment. Details | The definition in the standard ("Message") library has been truncated. Confirmed correction. |
| UN03000190 PSCPM_ Acknowledgement_ Document. Details | UN03000190 PSCPM_ Acknowledgement_ Document. Details | The ABIE UN03000190 and the supporting BBIEs in the Extended library differ from the equivalent entries in the Standard library (e.g. Unique submitter ID is missing, TBG17 Comments differ). Confirmed correction. |

A.6 **D.08B Standard Library ABIE content**

ABIEs and qDTs specific to the Cross Industry Invoice (CII) Version 1, were initially added then deleted based on FMG decision to remove CII V1 from the libraries for D.08B.

The following ABIE is not associated with a message or other ABIE.

| UID | Type | Name | Audit Comments |
|------------|------|---------------------------------|---|
| UN01003984 | ABIE | Project_ Software Configuration | Appears to relate to PSCPM, see also comments in section 2.7. Confirmed correction.. |

A.7 **Restructuring of BIE and qDT libraries**

Rename BIE and qDT library worksheets and include health warning at the beginning of each extended BIE and qDT library worksheet as per FMG task group agreement:

- 1) Publish the D.08B CCL BIE library in two sections (i.e. as separate XLS worksheets);

| | |
|-----------------|---|
| Standard | The official audited CCL BIE library consisting of only those ABIEs that are required to support the production of the UN/CEFACT Standard message schemas |
| Extended | The un-audited CCL BIE library consisting of the standard ABIEs and other ABIEs harmonised by TBG17. To include the following health warning: <i>This extended BIE library is made available by UN/CEFACT for information as part of the D.08B CCL release in support of ongoing UN/CEFACT standardisation developments that concern the core components. It is work in progress and may be subject to change. It has not undergone a complete audit and as such has not been accorded a status of being a standard. This extended BIE library should be treated as an informal publication.</i> |

TBG17: We do not agree. To be decided by Extended Bureau.

- 2) Publish the D.08B CCL qDT library in two sections, as for the CCL BIE library above.
- 3) Audit and publish as the D.08B standard schemas, the D.08B message schemas together with the supporting schemas based on the Standard CCL BIE and qDT libraries.

ICG: Confirmed changes to publication format. Recommend that the worksheet tab should be change from "Info" to "Introduction" and deletion of text "To include the following health warning". Proposed changes in the attached.

TBG17: Changes made as recommended, in order to get CCL 08B published.

However, we recommend calling the two libraries 'base' and 'message'. In addition, submitters have worked to harmonize for 08B, and calling this library only 'informative' will cause difficulties for them. Thus the information paragraph needs to be changed. We recommend these changes for 09A.

A.8 Endless Loops

Attention needs to be given to constraining the number of occurrences of ABIEs where the repetition produces an endless loop, i.e. avoiding the use of recursive structures where maxOccurs = "unbounded". Examples in the D.08B standard ABIE library are:

| UID | Type | Name | Min | Max |
|------------|-------|---|-----|-----------|
| UN01000025 | ASBIE | Work Item_ Quantity Analysis. Breakdown. Work Item_ Quantity Analysis | 0 | unbounded |
| UN01000042 | ASBIE | Basic_ Work Item. Subordinate. Basic_ Work Item | 0 | unbounded |
| UN01000053 | ASBIE | Grouped_ Work Item. Subordinate. Grouped_ Work Item | 0 | unbounded |
| UN01000061 | ASBIE | Work Item_ Dimension. Component. Work Item_ Dimension | 0 | unbounded |
| UN01000329 | ASBIE | Tendering_ Deliverable. Supplementary. Tendering_ Deliverable | 0 | unbounded |
| UN01001858 | ASBIE | Project_ Document. Reference. Project_ Document | 0 | unbounded |
| UN01001870 | ASBIE | Project_ Location. Subordinate. Project_ Location | 0 | unbounded |
| UN01001885 | ASBIE | Project_ Organization. Subordinate. Project_ Organization | 0 | unbounded |
| UN01002016 | ASBIE | Reporting_ Data Node. Subordinate. Reporting_ Data Node | 0 | unbounded |
| UN03000084 | ASBIE | SPS_ Country Sub-Division. Superordinate. SPS_ Country | 0 | unbounded |

| | | | | |
|------------|-------|---|---|-----------|
| | | Sub-Division | | |
| UN03000085 | ASBIE | SPS_ Country Sub-Division. Subordinate. SPS_ Country Sub-Division | 0 | unbounded |

In implementation, allowing for a finite number of occurrences is considered to be less problematic to having to cater for potentially an infinite number of occurrences. Guidance along the following lines should be considered for structuring of ABIEs:

- 1) Refrain from using maxOccurs = "unbounded"
- 2) Don't use open ended recursive constructions
- 3) Set maxOccurs to a number that represents a practical maximum (e.g. 1, 2, 4, 10, 40, 100, etc).

TBG17: Thank you for the advice. We will take this into account; some of these have existed since 06B.

A.9 Change Indicators

Currently change indicators (ADD, CHG, DEP) are applied against the BCC or ASCC or BBIE or ASBIE that is subject to the change. Since this also represents a change to the parent ACC or ABIE, the indicator of CHG should also be applied at the ACC or ABIE level whenever there is a change (ADD, CHG, DEP) to its CC or BIE content. In the case of DEP, the CHG indicator at the ACC or ABIE level should only be triggered in the CCL release in which DEP was first applied.

Propose that D.08B is adjusted to reflect the above.

Also the use of the change indicator "DEP" needs to be fully defined as part of a life-cycle management of library objects. For example, to deprecate an ASBIE does not remove it from the library, the consequences on the subsequent schema generation need to be defined.

TBG17: We know of no such change indicator DEP. We indicate possible deprecation is in a publication comment.

TBG17: As agreed during the TBG17 February face-to-face meeting, ICG and TBG17 will work together to define all needed indicators.

A.10 Use of ABIE Qualifier terms

It has been noted that qualifier terms have been added to the ABIEs which in fact restrict the use of the ABIE to a single document or document set. These qualifiers do not "further" qualify the object class by giving it more meaning but rather they identify where the object class is to be used and do not add additional semantics to the object class itself. Examples: LodgingHouse, MSDS, SPS, PSCPM.

This practise should be avoided since it limits significantly the reusability of these ABIEs. It is the message assembly template which indicates where the ABIEs are to be used.

In addition, query whether it is correct (and good practise) to use specialised terms such as "MSDS", "SPS" and "PSCPM" in respect to Dictionary Entry Names according to the CCTS, these terms do not appear in the Controlled Vocabulary for instance. They are not common terms.

TBG17: We are so glad that you have said "This practise should be avoided since it limits significantly the reusability of these ABIEs". It is precisely what TBG wants to do.

As for acronyms, the rules are that acronyms should be spelled out in the definition; we have done that for all acronyms.

A.11 qDT References

The following Standard qDT references need to be updated:

| UID | Type | DEN | Comments |
|------------|------|--|---|
| UN02000003 | DT | Country_ Identifier. Type | |
| | CC | Identifier. Content | File name needs to be updated to reflect SC changes, as appropriate |
| | SC | Identification Scheme. Version. Identifier | 2009-01-07 |
| UN02000004 | DT | Currency_ Code. Type | |
| | CC | Identifier. Content | File name needs to be updated to reflect SC changes, as appropriate |
| | SC | Identification Scheme. Version. Identifier | In the absence of access to the latest ISO 4217 amendments, the version should be the date that the code list is sourced from http://www.iso.org/iso/support/faqs/faqs_widely_used_standards/widely_used_standards_other/currency_codes/currency_codes_list-1.htm e.g. 2009-02-16 |
| UN02000026 | DT | Duration_ Measure. Type | |
| | CC | Identifier. Content | File name missing |
| UN02000043 | DT | Package Type_ Code. Type | |
| | CC | Identifier. Content | File name needs to be updated to reflect SC changes, as appropriate |
| | SC | Code List. Identifier | Recommendation 21 |
| | SC | Code List. Agency. Identifier | 6 |
| | SC | Identification Scheme. Version. Identifier | 6 |

TBG17: Jostein Fromyr and Michael Dill will take care of this as part of schema development.

Annex B. D.08B RSM Audit Details

B.1 RSM – PSCPM (Project Schedule and Cost Performance Management)

Document: PSCPM RSM Final Rev20080728.doc (Date modified 12/11/2008)

TBG17: All appropriate RSM changes have been made, per TBG project manager.

| Section | Audit comments |
|--|---|
| Cover page. | Document is dated July 28, 2008. However, file modification date is November 12, 2008. These dates should be consistent to ensure that the latest version is the subject of audit review and report. Confirmed change. |
| Document Change History Log | Would assist review if further elaboration was provided on the changes applied. In addition, highlighting the actual document changes, e.g. with Word track changes. See also comments that follow. Confirmed change. |
| 4.1.6. - Acknowledgements | In the conceptual data model for acknowledgments, "Document. Details" indicates a business requirement to optionally provide details of any referenced document(s). Changes in the canonical data model (see comment for 4.2.6. – Acknowledgements) should be consistent with the business requirements. Potential change required to the conceptual data model (and BRS) to remove this link? Confirmed change. |
| 4.2.1 – 4.2.6. | Unclear as to what changes have been applied to the existing canonical message models. Confirmed changes. |
| 4.2.6. - Acknowledgements | Is Acknowledgement_ Document. Details (UN01002071) to be replaced with PSCPM_ Acknowledgement_ Document. Details (UN03000190)? If correct, this change should be highlighted Confirmed change. |
| 4.2.7. Cost and Schedule | This appears to be a new message type for D.08B and should be highlighted as such. Confirmed change. |
| 5.2. Aggregate Business Information Entities section | <i>Project_ Software Configuration. Details</i> Unclear as in which PSCPM message type(s) this new ABIE (UN01003984) is used. Confirmed change. |
| | <i>Schedule Task_ Timing Constraint. Details</i> New ABIE (UN01004072), used in existing Schedule Data message. Change should be highlighted. Confirmed change. |
| | Is Acknowledgement_ Document. Details (UN01002071) to be replaced with PSCPM_ Acknowledgement_ Document. Details (UN03000190). If correct, this change should be highlighted Confirmed change. |
| 5.3. Association Business Information Entities section | In the PSCPM canonical data models, it is noted that certain ASBIEs as defined in the BIE library are not shown and are not detailed in section 5.3 for the BIEs in question. This implies that these ASBIEs may be redundant and may mean that associated structures are not to be required in the resulting schema. For example: |

| | | |
|------------|-------|--|
| UN01001842 | ABIE | Project_Document.Details |
| UN01001843 | BBIE | Project_Document.Identification.Identifier |
| UN01001844 | BBIE | Project_Document.Type.Code |
| UN01001845 | BBIE | Project_Document.Name.Text |
| UN01001846 | BBIE | Project_Document.Purpose.Text |
| UN01001847 | BBIE | Project_Document.Description.Text |
| UN01001848 | BBIE | Project_Document.Issue.Date Time |
| UN01001849 | BBIE | Project_Document.Submission.Date Time |
| UN01001850 | BBIE | Project_Document.Receipt.Date Time |
| UN01001851 | BBIE | Project_Document.Control Requirement.Indicator |
| UN01001852 | BBIE | Project_Document.Creation.Date Time |
| UN01001853 | BBIE | Project_Document.Copy_Status.Code |
| UN01001854 | BBIE | Project_Document.Copy.Indicator |
| UN01001855 | BBIE | Project_Document.Response.Date Time |
| UN01001856 | ASBIE | Project_Document.Effective.Project_Period |
| UN01001857 | ASBIE | Project_Document.Acceptable.Project_Period |
| UN01001858 | ASBIE | Project_Document.Reference.Project_Document |
| UN01001859 | ASBIE | Project_Document.Issuer.Project_Party |
| UN01001860 | ASBIE | Project_Document.Owner.Project_Party |

The ASBIEs highlighted in red appear not to be used in the PSCPM canonical data models and do not appear in section 5.3.

Are these highlighted ASBIEs candidates for deprecation? Unclear as to what is intended. Section 5.3 may require further elaboration for these and any other like ASBIEs used in PSCPM.

PSCPM: Canonical model diagrams did not include all associations down to the lowest level in order to maintain clarity and readability of the diagrams. They included only the associations deemed most significant for business purposes. It was assumed that associations as defined in the CCL would be used in the messages unaltered.

Audit: Accepted. However it should be noted that by accepting as default the lower level ASBIEs in the library, any subsequent changes to these ABIEs may impact the message without it being apparent from the model. The ICG recommends to maintain a clear and unambiguous model in the supporting documentation.

B.2 RSM – Accounting Entry

Document: RSM accounting entry 1.0_final.doc (Date modified 5/11/2008)

| Section | Audit comments |
|----------------------|---|
| RSM & CCL difference | New ABIE: UN01003901 (Originator_Accounting Voucher.Details) BBIE UN01003906 (Originator_Accounting Voucher.Attachment.Binary Object) is specified in the canonical model with a cardinality of 0..*. Implemented in ABIE library with a cardinality of 0..1. Confirmed change. |
| RSM & CCL difference | New ABIE: UN01003932 (Posted_Accounting Entry Line.Details) ASBIE UN01003943 (Posted_Accounting Entry Line.Related.Fiscal_Tax) is specified in the canonical model with a cardinality of 0..1, in section 5.3 with a cardinality of 0..*. Implemented in ABIE library with a cardinality of 0..*. Confirmed change. |
| RSM & CCL difference | New ABIE: UN01003600 (Fiscal_Tax.Details) ASBIE UN01003615 (Fiscal_Tax.Specified.Booked_Accounting Account) is specified in the canonical model & in section 5.3 with a cardinality of 0..1. Implemented in ABIE library with a cardinality of 1..*. Confirmed change. |

| | |
|---|---|
| RSM & CCL difference | <p>New ABIE: UN01003657 (Linked_ Report. Details) BBIE UN01003658 (Linked_ Report. Required Items List. Identifier) and BBIE UN01003660 (Linked_ Report. Item. Identifier) are specified in the canonical model with a cardinality of 1..1. Implemented in ABIE library with a cardinality of 0..1. Confirmed change.</p> |
| RSM & CCL difference | <p>New ABIE: UN01002800 (Delimited_ Period. Details) Structure and cardinality do not match that specified in the canonical model. Confirmed change.</p> |
| 5.2 Aggregate Business Information Entities | <p>A number of new Accounting Entry ABIEs that restrict a source ACC are missing, e.g. "Delimited_ Period. Details", "Posted_ Accounting Entry Line. Details". Confirmed change.</p> |
| 5.4 Qualified data type | <p>Many of the code lists have been designated as being maintained by EDIFICAS as an external code maintenance agency.</p> <p>1) A URL should be provided in the CCL standard qDT to enable users outside EDIFICAS or the EU to submit change requests and to view/download the latest code list versions. TBG12 Added the general URL: <u>http://www.edificas.eu/index.php/eng/Download/Code-lists;</u> Plus the direct URL for each one. TBG17: URL added for all nine qDTs.. ICG: Confirmed addition.</p> <p>2) The code list version number is from UN/CEFACT, e.g. "D08B". This should be assigned by EDIFICAS. TBG12 Added in 5.4</p> <p>"The qualified data type codes lists used in the message "Accounting Entry" may be either restricted enumeration from UN-EDIFACT/UNCL maintained by UN-CEFACT, or from ISO official lists of codes, or are lists maintained by EDIFICAS EU when the code list was created for typical accounting purpose. In the current RSM document the term "D08B" used as part of EDIFICAS EU codes lists name belongs to the standard UN-CEFACT versioning codification scheme. Qualified data types can be downloaded from http://www.edificas.eu/index.php/eng/Download/Code-lists"</p> <p>3) 5.4.2.2 EDIFICASEU_AccountingEntryLineSource_D08B.TXT The term "lost" appears incorrect, should it be "loss"? TBG12 Indeed, the right word is "loss" Changed in RSM and EDIFICAS EU TBG17: Gefeg FX changed. Confirmed change.</p> |
| 5.5 Associated documentation | <p>Root Level Message Assembly The root level message assembly needs to be shown for the Accounting Entry message to facilitate XML schema generation. Suggest that this be added to this section to indicate at the root level, the respective root ABIEs, order and cardinality for the Accounting Entry message. The template:</p> <div data-bbox="651 1630 719 1697" data-label="Image"> </div> <p>Business Message Template.xls</p> <p>Would appear that there is only one root element, UN01003901 (Originator_ Accounting Voucher). TBG17: RSM changed per TBG12. Confirmed inclusion.</p> |

Annex C. D.08B Schema Audit Details

D.08A Schema Library Audit

No issues of significance were encountered

General

Issues detected in order of decreasing importance:

- The Acknowledgement document file, IMO, should be renamed "PSCPMacknowledgement". This is because the name of the element has changed from "Acknowledgement" to "PSCPMacknowledgementDocument". This implies IMO that its a different document and this in fact signifies that the general name "acknowledgement document" has disappeared which leads to asking the question where has it gone?. However, lets not go into that but I do believe that we have created a document "PSCPMacknowledgementDocument" which should be version "1.0" and not '4.0". This will lead people astray.

ATG2 response: ATG2 disagrees with this change without the support of an updated RSM. This far no such document has been received.

Resolution: No change to XML schemas.
- In the Lodging house messages we have added an attribute "id=" to all elements which is taking the UID as data. This appears strange since it doesn't happen in any of the other documents and is only adding a schema construct. I don't see any justification for such an addition and for overall consistency I do see problems.

ATG2 response: This is resulting from an unfortunate mistake during the operation of the production tool.

Resolution: XML schemas have been corrected.
- The UID of "LodgingHouseInformationRequestType" has been changed. There is no justification to change a UID as this implies that we have a different component when in reality we don't.

ATG2 response: ATG2 agrees that this change suggest that a new component have been created when in fact this is not the case. The change is a consequence of implementing a programmatic approach to the allocation of UIDs for the xsd:type in order to distinguish it from the root-element. As this message was first developed prior to the introduction of this systematic approach manual editing in required to make use of the UID originally allocated. The error is thus due to a mistake in the manual correction.

Resolution: XML schemas have been corrected.
- The UID of "LodgingHouseInformationResponseType" has changed in a similar fashion to point 3 above.

ATG2 response: See item 3 above.

Resolution: XML schemas have been corrected.
- The dictionary entry name of "Local Organisation" has changed from "Lodging House Information Request. Local_ Organization" to "Lodging House Information Request. Local_ Organization. Local_ Organization" which seems incorrect (a "Local_ Organization" too many). This doubling up has occurred throughout nearly all the Lodging House messages.

ATG2 response: This is resulting from an unfortunate mistake during data capture in the production tool.

Resolution: XML schemas have been corrected.

6. In addition the IndustryContextValue of the same element ("LocalOrganization" has changed from "Travel, Tourism and Leisure", which I would have thought the correct value, to "In All Contexts".

ATG2 response: This is resulting from an unfortunate mistake during data capture in the production tool.

Resolution: XML schemas have been corrected.

7. In "LodgingHouseInformationResponse" the "BusinessProcessRoleContextValue" has changed from "Lodging House Response" to "Lodging House Request".

ATG2 response: This is resulting from an unfortunate mistake during data capture in the production tool.

Resolution: XML schemas have been corrected.

8. In the Lodging house response message the element "SpecifiedPeriod" has had its "IndustryContextValue" changed from "Travel, Tourism and Leisure" to "In All Contexts"

ATG2 response: This is resulting from an unfortunate mistake during data capture in the production tool.

Resolution: XML schemas have been corrected.

9. We appear to have a series of version changes which go from "1.0" to "2.7", or from "0.1" to "RSM document version 2.6", or from "0.1" to "RSM document version 2.7", or from "1.0" to "2.7" which is neither very consistent nor coherent. I think that especially the version changes to "RSM document version XX" as being totally inconsistent.

ATG2 response: Version "2.7" is applicable for the PSCPM messages. This changed is justified based on the latest version of the RSM supporting these messages.

"RSM document version 2.6" is applicable to the eTendering messages. This was done by mistake during data capture in the production tool.

ATG2 has not been able to locate any file with a version indication as "RSM document version 2.7"

Resolution: eTendering schemas have been corrected.

10. In RegistrationApplication there is an error in the element "RegistrationApplicationDocument" since its name has been changed to "DocumentRegistrationApplicationDocument". There is also a problem with the Dictionary entry name much in line what I sent previously. I missed this one

ATG2 response: This is resulting from an unfortunate mistake during data capture in the production tool.

Resolution: XML schemas have been corrected.

11. UN01000131

FF name: "Tender_ Document. Bill **Of** Quantities_ Attachment. Binary Object". CCL08B has "of".

ATG2 response: Having discussed this issue with TBG17 it is concluded that this issue is due to an undocumented change in the source files used for generation of both the CCL and the XML schemas.

Resolution: XML schemas have been corrected.

12. UN01002324
CCL08B definition has an extra space at end of definition. Corrected in D.09A. No action required.
13. UN01002418
FF name: "Accidental Release Measure_ Instructions. Clean-Up_ Procedure. Text". CCL08B has "up".
ATG2 response: In the file available to ATG2 named "CCL08A 13AUG08.xls" modified on 15.08.2008 12:59 the dictionary entry name is shown as "Accidental Release Measure_ Instructions. Clean-Up_ Procedure. Text" (row 11). Thus there is no difference to the provided XML schema.
Resolution: XML schemas have been corrected.
14. UN01002836
FF ObjectClassQualifierTerm missing second qualifier term "_ Telecommunication"
ATG2 response: Similar to what was implemented for the D08A publication the second qualifier term is implemented in the XML schemas as a second occurrence of ccts:ObjectClassQualifierTerm.
Resolution: No change to XML schemas.
15. UN01002837
FF ObjectClassQualifierTerm missing second qualifier term "_ Telecommunication"
ATG2 response: See 4 above
Resolution: No change to XML schemas.

Codelists

1. Codelists which have disappeared (i.e. present in D.08A and no longer present in D.08B):
UNECE_AdjustmentReasonDescriptionCode_D08A.xsd
UNECE_DeliveryTermsCode_D08A.xsd
UNECE_DocumentNameCodeBillingDocument_D08A.xsd
UNECE_EventTimeReferenceCode_D08A.xsd
UNECE_EventTimeReferenceCodePaymentTermsEvent_D08A.xsd
UNECE_PaymentGuaranteeMeansCode_D08A.xsd
UNECE_PaymentMeansCode_D08A.xsd
UNECE_PaymentMethodCode_D08A.xsd
UNECE_PriceTypeCode_D08A.xsd
UNECE_TransportMeansTypeCode_2007.xsd
ATG2 response: These code lists were exclusively used by the draft CII. As this message has been removed the code lists were removed as well.
Resolution: No change to XML schemas.
2. There are 2 versions of ISO 3 alpha country codes. The file "ISO_ISO3AlphaCurrencyCode_20070618.xsd" should be deleted.
ATG2 response: We assume this comment referees to the two versions of the ISO Currency Code - not Country Code. As was the case for the D08A publication, ATG2 agrees to this observation. At the moment this is not accommodated for in the automated schema production, and is thus the result of an unfortunate manual mistake.
Resolution: XML schemas have been corrected by removing the oldest version.

3. The file "IANA_MIMEMediaType_20090304.xsd" is not in the same format as the previous version thus making it difficult to verify.
ATG2 response: ATG2 is not able to identify any changer to this file justifying this comment from ICG.
Resolution: No change to XML schemas.

4. The UNCL D.08B was not used to generate the equivalent D.08B schema codelists and the following new codelists are consequently missing codes:

UNECE_CargoTypeClassificationCode_D08B.xsd

UNECE_GovernmentActionCode_D08B.xsd

UNECE_MeasuredAttributeCode_D08B.xsd

UNECE_PartyRoleCode_D08B.xsd

UNECE_ProcessTypeCode_D08B.xsd

UNECE_StatusCode_D08B.xsd

ATG2 response: At the moment there is no direct or indirect link between the preparation and publication of the UNCL and the preparation and publication of the XML schemas. Thus ATG2 does not currently receive any information on changes to the UNCL requiring changes to its XML schemas. Such procedures ought to be implemented. Further it should be noted that these are all code lists in support of qualified data types and thus should be under the control of the respective user groups. For those code lists published as part of the UNCL, ATG2 will for future publications ensure consistency to the UNCL as part of its production process.

Resolution: XML schemas have been corrected.

5. The following existing codelists have not been updated with the D.08B revised codelists:

UNECE_AgencyIdentificationCode_D08B.xsd

UNECE_DocumentNameCode_D08B.xsd

ATG2 response: See 4 above

Resolution: XML schemas have been corrected.

Annex D. Bureau Note to Forum Management Group



Bureau Note on CCL
08B - Revised - 2009I