**EN Alignment and upgrade of BIS2 specifications**

**Estimations on work effort**

2018-01-12

### Project management

Project management is estimated as 0,5 days, 4 hrs a week on average for the duration of the project excluding summer holidays. Calculated as 30 weeks 120 hr. Covers handling of meetings, minutes, general project management and coordination.

### Aligning with Invoice BIS.

The key objective of the project. Requires listing up where the Invoice (EN) varies from the current specification and then applying that to individual BIS specifications. The Invoice Gap analysis did identify most of those gaps in the context of the invoice but did not relate them to other documents. In some cases, probably mostly in terms of code lists, this may require decision making on if a gap is aligned or not.

The preparation stage of this work (identifying the gaps) is estimated as 1 week of work and applying the changes to each BIS is estimated on average as 2 days for each.

### Changing documentation format from Word to “AskiiDoc”.

The new BIS specification will have to be documented and it is logical to do that in the same way as has been adopted for the Invoice BIS. This is by using structured text editing with tools like GitHub and text editors such as AsciiDoc. This requires transferring the text and data tables from the current Word and GEFEG format to the AsciiDoc.

This work is estimated on average as 3 days for each BIS.

### Processing and adoption of new requirements.

There are already some new requirements for some of the BIS and they need to be processed and adopted as agreed. This task should not provide for significant changes to the workflow and design of the BIS specifications.

Exactly what those requirements are is not known but for planning it is estimated as one week for all BIS specifications.

### Adopting unit testing for validation objects.

OpenPEPPOL has developed and implemented unit testing for testing validation rules. This means creating multiple test files that test individual rules and include them in the OpenPEPPOL test environment.

Using the following calculation, creating tests, verifying and 1 hour pr rule. Average of 20 rules pr transaction and a total of 10 transaction gives 200 hours or 25 days (5 weeks)

### Aligning Syntax bindings between documents.

It has been identified that the approach to the syntax binding of the same or similar concepts is not consisted across the CENBII specifications on which the BIS specifications are based. Additionally, there are some new variances introduced through the EN syntax binding. This task involves.

Identifying the syntax binding issues and agreeing on the alignment is estimated as 2 weeks. This tends to be an issue that is close at heart to technicians. Applying this to the transactions is estimated as 0,5 to 1 day to a total of 8 days.

### Summary of effort

The following table considers direct work on the object but does not include general project management and participation in team meetings.

The main project is tasks 1, 2 and 3 but there is interest in doing tasks 4 and 5 as well. The effort for the main project, including PM is estimated as 520 hours but the additional tasks add 344 hours.

The resourcing is done on the basis that each Peppol authority funds the direct work on one BIS. SE funds the project management and, with Denmark and Norway, the work on general alignment.

The additional tasks are funded by SE, NO and DK with the bulk of the testing falling on Norway since it has most experience in that field.

If other Peppol Authorities are not able to find the work on the different BIS’s then that funding needs to be shifted to the participating authorities and one or both of the additional tasks dropped.

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| **Task** | **Description** | **Days** | **Unit** | **Pce** | **Total days** | **Hours** | **SE** | **NO** | **DK** | **BE** | **IT** | **PL** | **UK** | **SI** | **IE** |
| 0 | Project management | 15 | All | 1 | 15 | 120 | 120 |  |  |  |  |  |  |  |  |
| 1 | Aligning gaps | 5 | All | 1 | 5 | 40 | 20 |  | 20 |  |  |  |  |  |  |
| 1 | Applying alignment | 2 | BIS | 8 | 16 | 128 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 2 | Documentation | 3 | BIS | 8 | 24 | 192 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| 3 | New requirements | 5 | All | 1 | 5 | 40 | 20 |  | 20 |  |  |  |  |  |  |
|  |  |  |  |  |  | 520 |  |  |  |  |  |  |  |  |  |
| 4 | Unit testing | 25 | All | 1 | 25 | 200 | 0 | 150 | 50 |  |  |  |  |  |  |
| 5 | Syntax alignment | 10 | All | 1 | 10 | 80 | 40 | 20 | 20 |  |  |  |  |  |  |
| 5 | Applying syntax | 8 | All | 1 | 8 | 64 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  |  |  |  |  |  | 344 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 108 | 864 | 248 | 218 | 158 | 48 | 48 | 48 | 48 | 48 | 48 |

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| **Task** | **Requirement** | **Options** | **Effort** |
| 1. Project management
 | Must live in Iceland and own a dog and a cat. | Georg | 120 |
| 1. Move everything into askii doc.
 | Requires knowledge of asciidoc and its structure. | Siw, Georg, Charlotta | 40 |
| 1. Align business terms between BIS according to gap.
 | Requires knowledge of the data models. Siw, Georg, Martin. | Siw, Georg, Charlotta | 151 |
| 1. Align syntax bindings.
 | Requires technical syntax knowledge. Siw, Georg, Martin, other? | Siw, Georg, Charlotta | 167 |
| 1. Work on rfc’s
 | Resolution made by team work. Implementing requires knowledge of data model and syntax. | Full team | 40 |
| 1. Documentation cleanup.
 | Requires familiarity with the subject matter. | Most team members. | 100 |
| 1. Update and add to schematrons.
 | Knowledge in schematron.  | Jerry, Erlend**, Oriol, Philip, Jacob,** Siw, Georg, Charlotta. | 100 |
| 1. Create test files.
 | Knowledge on XML messages. | Most team members. | 100 |
| 1. Quality assurance.
 | General knowledge of the subject. | Most team members | 50 |