



"Progress in standardizing BR* documentation in S1000D"

This presentation is made on behalf of Implementation Guide and Business Rules Task Team

S1000D User Forum 2013 Vienna, 2013-09-16/19

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Agenda

☐ IGBRTT: the Team

Business rules: what we had

Business rules: what we have today

Business rules: what we will have soon





☐ IGBRTT: the Team

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IGBRTT: active since Fall 2005



to all active members and observers of the team, especially to the "Checkpoint Charlie" group!!!

Starting with Issue 4.0 we made huge steps towards standardization of S1000D business rules!

One of highlights in reactions to our work:

Users applying earlier Issues of S1000D

wish the Chapters and concepts developed by IGBRTT

would have been introduced into these earlier Issues they use!



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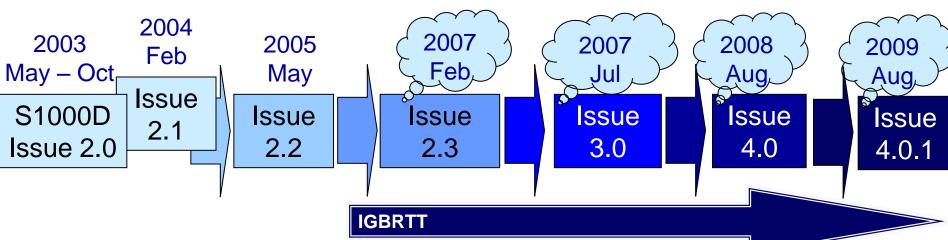


Business rules: what we will have soon





Business rules practices in the past



Business Rules before Issue 4.0:

- Prior to Issue 4.0 it was difficult for projects to find the points in the Specification on which they had to make a business decision.
- For this purpose, they often searched for the words "project", "must", "should", "shall" and those searches did not give consistent results.
- The whole work of business rules production was very complex and cumbersome.

Business Rules in Issue 4.0.1 (4.0):

- A step forward by isolating 'business rules decision points'
 (BRDP) into a separate paragraph, 'Para 3', and by having
 pointers within main body of the given chapter, 'Para 2', to the
 corresponding BRDP.
- The problem with this structure: The main body of a chapter was ripped apart. It was difficult to follow and understand the given chapter because the users had to jump between the main body and Para 3 (often many pages apart) in order find out the details on business rules.
- All the business rules paragraphs, Para 3, did not give a clear picture of how many BRDPs S1000D defines altogether.
- A number of BRDPs were captured twice in the Specification.





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Chapter 2.5.3 Business rules - Business rules decision points (BRDP) index

S1000	

S1000D-I9005-01000-00

BRDP reference/loc	BRDP unique	BRDP title	BRDP definition		
ation	identifier			Special high	liahts:
Chap 3.4.3		No BRDP			
Chap 3.4.3.1		No BRDP		Structure, access	•
Chap 3.4.3.2		No BRDP		usability and clear	n-up!!!
<u>Chap 3.5</u>		No BRDP			
<u>Chap 3.6</u> Para 2.4	BRDP-S1- 00012	Define security classification values and terms (attribute securityClassific ation)	Decide which values to use for the attribute securityClassification and allocate suitable definitions. Refer to Chap 3.9.6.1.		
<u>Chap 3.6</u> Para 2.4	BRDP-S1- 00013	Use and markings of security classifications (attribute securityClassific ation)	Determine how the security classifications will be used.		
<u>Chap 3.6</u> Para 2.4	BRDP-S1- 00014	Application of caveats	Determine if the policies that apply to security marking, instructions, etc, and how those markings are required to be applied within the given project.		



BREX enhancements

Chapter number

4.10

4.10.2

4.10.3

7.9 (New Chapter)

Chapter Title

Information management - Business rules exchange

Business rules exchange - The BREX data module

Business rules exchange - The default BREX data module

Information processing - Business rules processing

Including guidance for handling layered BREX DMs

CPF number and title	Summary and/or title of the change
2009-039S1 Handle missing BREX default explanation	Attribute valueTailoring added to element <objectvalue> to allow indication if/how a value can be tailored to a project</objectvalue>
2009-040S1 BREX introduction paragraph	Element <commoninfo> added to enable inclusion of an introduction to a BREX data module</commoninfo>
2009-041S1, See title →	Clarify layered BREX priorities
2009-042S1, See title →	Explain layered BREX checking process
2009-043S1 Explain unassigned BREX flag value	Use of attribute allowedObjectFlag has been revised and a new value (default) has been added
2009-130S1, See title →	Default BREX coding
2009-132S1, See title →	BREX narrative rules





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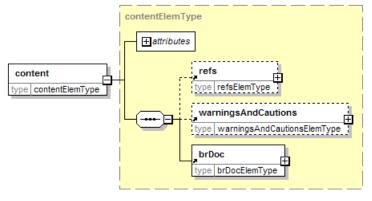
Plans for next S1000D Issue in respect to BR

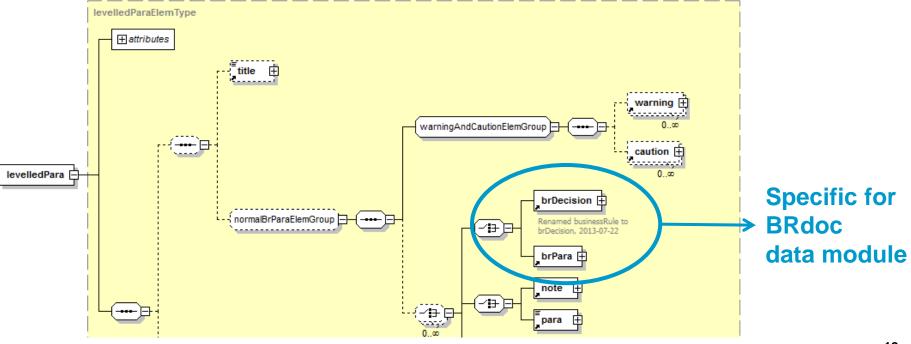
Highlights of the intended changes:

- Rules for production of Business rules publications will be given.
- Business rules publications will consist mainly of BR document data modules (new Schema) and BREX data modules.
- A business rule or a set of business rules will be defined for each required Business Rule Decision Point (BRDP). These are either defined by S1000D or added by project/organization.
- BRDPs and business rules are uniquely identified. The former by using a specific unique identity, the latter by ID-IDREF mechanism.
- Business rules will be classified regarding their severity enabling severitybased actions in case they are not followed.
- Projects and organizations will be able to assign creation priority for a business rule.
- Relationships between various S1000D BRDPs are being currently identified.
- BREX data modules will be enhanced with unique identifiers and severity for business rules.



BR document (BRdoc) data module → uses 90% of the descriptive Schema



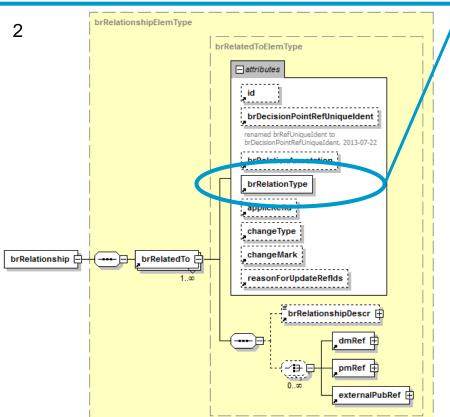


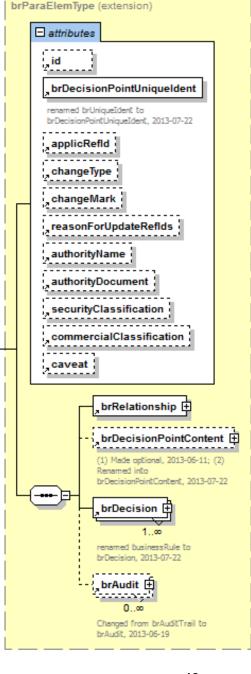


BR paragraph

brRelationType (M), the indicator of the type of relationship between the given brPara and the one it relates to. It can have the following values:

- "no_relation", meaning that the given BR paragraph has no relation to any other business rule paragraph
- "dependant_on", meaning that the given business rule is dependent on the one it refers to
- "affecting", meaning that the given business rule affects the brPara it refers to





brPara



BRdoc Schema can be used to XMLize the portions of S1000D needed in BR publications for guidance and rules purposes

2 Using change markup

2.1 General rules

2.1.1 Use limitations

The use of the change markup is limited to indicate technical changes only. Change markup must only be used to indicate changes since the previous issue of a data module and not between increments of the attribute inwork. Any changes indicated in the previous issue must be deleted for the up-issue.

Note

The previous issue of the data module remains stored in the CSDB with the change markup at that issue.

Editorial changes must not use change markup.

<note><notePara>The previous issue of the data module remains stored in the CSDB with the change markup at that issue.</notePara></note>

- <brDecision id="S1-00095"><brDecisionText>
- <para>Editorial changes must not use change markup./para>
- <brDecisionBrexDefinition><contextRules><structureObjectRuleGroup><structureObjectRule>
 <objectPath allowedObjectFlag="2">//@changeMark</objectPath>
- <objectUse>Editorial changes must not be marked (Chap 3.9.5.2.1.1, Para 2.1.1).</objectUse>
 </structureObjectRule></structureObjectRuleGroup></contextRules></br/>brDecisionBrexDefinition>
- </br></br/>brDecisionText></br/>/brDecision>



BRDP markup

Business rule decision point BRDP-S1-00089 - Standard wording for reasons for update:

- Decide standard reason for update sentences to be used. Reason for update can be used to automatically generate a highlights data module. Normally, a project will mandate its use from issue "002" upwards. Examples are:
 - Revised to incorporate modification XYZ
 - Deleted. Data module no longer required

```
<brPara brDecisionPointUniqueIdent="BRDP-S1-00089">
```

- <brRelationship><brRelatedTo brRelationType="no_relation"></brRelatedTo></brRelationship>
- <brDecisionPointContent><title>Standard wording for reasons for update</title>
-
brDecisionPointText>Decide standard reason for update sentences to be used. Reason for update can be used to automatically generate a highlights data module. Normally, a project will mandate its use from issue "002" upwards.
- <brDecisionPointExplanation><para>Examples are:<randomList><listItem><para>Revised to incorporate modification XYZ</para></listItem><listItem><para>Deleted. Data module no longer required</para></listItem></randomList></para></br>
- </br/>brDecisionPointContent>
- <brDecision><brDecisionPending/></brDecision></brPara>





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The missing part is experience and guidance

- As with any new concept, we need to gather experience with BRdoc Schema, BR publication rules, BR relationships and corresponding BREX enhancements → Guidance should be provided based on this gathered experience
- Guidance is to be provided for BR tools creators, and in respect to how various kinds of reports can be created and used
- For these purposes the following CPFs have been submitted:
 - CPF 2009-093IGBRTT IG Use Cases
 - CPF 2009-135IGBRTT BR reports
 - CPF 2009-136IGBRTT Guidance for BR tools



If you would like to contribute or follow, join IGBRTT as member or observer: contact Victoria at vib@corena.com

Vielen Dank!

Multumesc mult!

Thank you very much!

Merci beaucoup!

Mille grazie!



Mange tak!

Большое спасибо!

Tack så mycket!

Tusen tak!