

***Implementation Guide and Business Rules  
Task Team (IGBRTT):  
Report - 5 years since foundation***

S1000D User Forum 2010  
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# Content



- The team
- IGBRTT activities: Past
- IGBRTT activities: Present
- IGBRTT activities: Future





# The team





# The IGBRTT Team



- Initially two teams:
  - Implementation Guide Task Team
  - Business Rules Task Team
  - Both founded at the S1000D User Forum 2005 in Munich
  - Founded as a result of discussion groups at the User Forum in Munich
- Members, observers and interested community today:
  - Active members: 18 (participate in WebCons and shape the team's work)
  - Observers: 17 (receive / have access to all the information produced by and exchanged within the team)
  - Interested community: 68 (receive meeting minutes time to time for information)



# The IGBRTT Team: Scope

- Scope:
  - Write new and/or enhance the available chapters on Business Rules (BR) and BR mechanisms. This includes proposals for enhancing the capability of the Business Rules EXchange (BREX) mechanism and the methods for creating the project business rules data module information set.
  - Propose check lists for projects and organizations to assist them in elaborating their BR,
  - Provide prototype tools assisting the projects and organizations in elaborating their BR, in case the necessity is indicated and applicability of those tools is proved,
  - Write and update chapters and supplementary information for the Implementation Guide (IG) of all relevant aspects of this specification,
  - Identify further BR-related issues and elaborate proposals for their implementation into S1000D and/or related guidelines.



# The IGBRTT Team: Main tasks

- Main tasks:
  - Provide a comprehensive and exhaustive S1000D Implementation Guide (IG)
  - Provide complete input necessary for BR-standardization
  - Identify requirements to BREX and implement them
  - Maintain the S1000D default BREX DM
  - Create a Business Rules Decision Points (BRDP) index (incl. BR markup and BRDP list)
  - Provide test data and test tools in the context of the team's work
  - Liaise with the other S1000D Task Teams

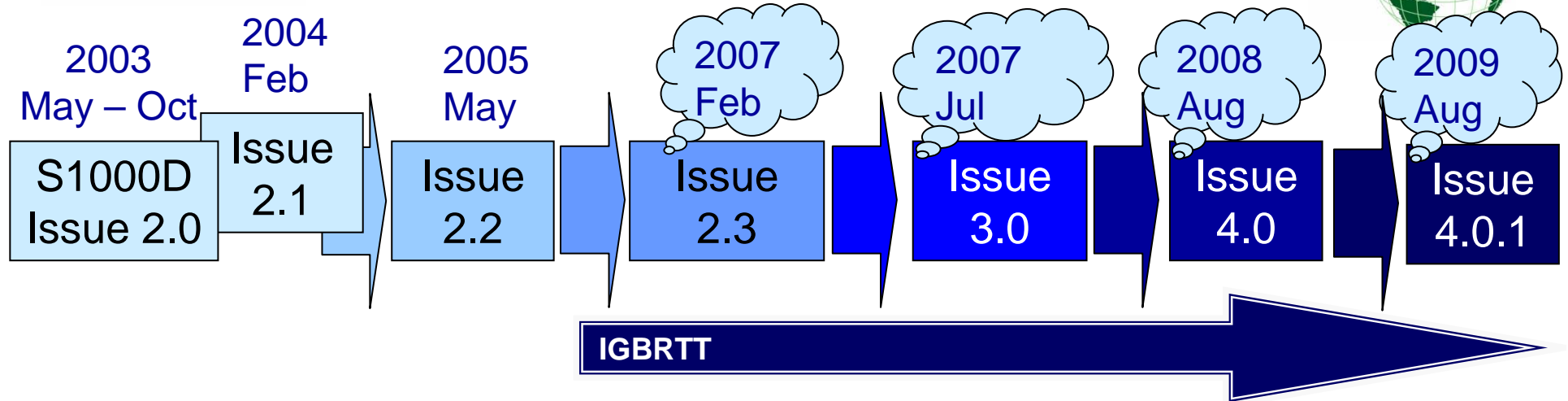


# IGBRTT activities: Past





# IGBRTT since 2005 until today



## Business Rules (BR) in general:

(All below since Issue 4.0, Chap 2.5 and Chap 2.5.1)

- BR definition
- Definition of 10 BR Categories
- Introduction of BR-layers concept
- Guidance on sequence of BR-generation
- Guidance on conflicting BR

## BREX developments:

- Introduction of BREX-layering principle
- SNS marking introduced
- Pattern support introduced
- Enhancement of default BREX

## Implementation guide (IG):

- Starting point: CPF 2005-62DE "Implementation guide"
- Necessity stated and approved by TPSMG (SC)
- IG was put on the roadmap by Council in 2009
- CPFs submitted in 2009 in frame of IG-work:
  - CPF 2009-038S1 "IG Concept Index" (will be implemented as "Subject Index" in Issue 4.1)
  - CPF 2009-093S1 "IG use cases" (will be implemented after Issue 4.1)





# IGBRTT activities: Present





# Business Rules Decision Points (BRDP) index

## *Business rules - Business rules decision points (BRDP) index*

- Based on CPF 2004-034US “Business rules index”
- This is how it will (most probably) look like

BRDP unique identifier	BRDP title	BRPD definition	BRDP reference/location
	Using of data module code extensions	Decide whether the extended data module identification scheme has to be applied to achieve unique data module instance identities.	Chap 3.9.5.1 Para 2.1.1.1
	Define a list of CAGE codes	Decide on the definition of a list of allowed CAGE codes that can be used to populate the attribute <code>extensionProducer</code> .	Chap 3.9.5.1 Para 2.1.1.1
	Data module coding strategy	Decide on a data module coding strategy. Refer to Chap 4.3.	Chap 3.9.5.1 Para 2.1.1.2
	SNS specification	Decide on which SNS is best suited to project needs. Refer to Chap 8.2.	Chap 3.9.5.1 Para 2.1.1.2
	Information code allocation	Allocate information codes best suited to project/organizational needs. Refer to Chap 8.4.	Chap 3.9.5.1 Para 2.1.1.2

This column will be filled with unique identifiers: Concept for these was proposed by IGBRTT to SC. The SC decision will be implemented into Issue 4.1.



## Implementation guide

- Eventually we envision a comprehensive amount of useful information applicable when you are about to implement S1000D
- Our starting point ...

### *Glossary of terms, abbreviations and acronyms - Subject Index*

- Based CPF 2009-038S1 IG - Concept Index
- One dimensional flat index in a unordered list format and in alphabetical order

A clear advantage, especially for users new to S1000D and/or new to some of its parts: easy to find due to alphabetical order and straight link to chapters giving concept definition as well as related chapters.



An extract/example

business rule(s)  
decision

**Definition/description in [Chap 9.2](#)  
"Terms and data dictionary - Glossary of terms, abbreviations and acronyms"**

Related chapters: Chap 2.5, Chap 2.5.1, Chap 9.2

business rule(s)  
category

**Definition/description in [Chap 2.5.1](#)  
"Business rules - Categories and layers"**

Related chapters: Chap 9.2

Business Rules  
EXchange, BREX  
(supported by  
Schema)

**Definition/description in [Chap 4.10](#)  
"Information management - Business rules exchange"**

Related chapters: Chap 2.5.1, Chap 3.9.5.1, Chap 3.9.5.2.1.4, Chap 3.9.5.2.1.10, Chap 3.9.5.2.7, Chap 3.9.5.2.9.2 thru Chap 3.9.5.2.9.4, Chap 3.9.5.2.11.10, Chap 4.10.1, Chap 4.10.2, Chap 4.10.3, Chap 7.3.1.1, Chap 7.3.1.3 thru Chap 7.3.1.5, Chap 9.2



# Business Rules EXchange (BREX) Data Module



# Affected chapters and IGBRTT CPFs affecting them



## 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

2009-039S1

2009-040S1

2009-041S1

2009-042S1

2009-043S1

2009-130S1

2009-132S1

## CPF title

Handle missing BREX default explanation

BREX introduction paragraph

Clarify layered BREX priorities

Explain layered BREX checking process

Explain unassigned BREX flag value

Default BREX coding

BREX narrative rules



# IGBRTT activities: Future







# Continuing Business Rules standardisation:

## BR generation and use concept



## Issue 4.1+ BR - generation and use



- White Paper on BR-generation and use concept → embraces and brings together the following CPFs:
  - 2009-112S1 BR relationships
  - 2009-122S1 BR - Infoset and publications
  - 2009-123S1 BR severity levels
  - 2009-133S1 BR - markup
  - 2009-134S1 BR identification
  - 2009-135S1 BR reports
  - 2009-136S1 Guidance for BR tools



## Issue 4.1+



# BR - generation and use (cont'd)

- The above CPFs propose to define / to enable / to identify / to provide:
  1. Requirements and rules for creation of Business Rules (BR) publications
  2. BR-markup for Business Rules Decision Points (BRDP) and Business Rules Decisions (BRD)
  3. Unique identifier for Business Rule Decisions as a persistent identification number (ie not ID/IDREF) in project and organizational BR-documents
  4. Indication of a severity level on a Business Rule in BREX and BR data modules
  5. Relationship between applicable Business Rule Decision Points (BRDP)
  6. Guidance for SW-tools necessary for automatic BR generation and checking processes
  7. Standard reports from the BR generation and checking processes (like audit protocol after BR generation and error report during BR-use, ie during checking project DMs against BREX DM(s))



# Other IGBRTT visions for the future



## Other IGBRTT CPFs meant for Issue 4.1+



- 2009-093S1 “IG - Use Cases”
- 2009-131S1 “BREX objectUse conformance”
- 2009-156S1 “BREX allowable notations”
  
- New CPFs not submitted yet, but planned:
  - to add bullets on zoning and access (related to BRDPs of Chap 3.4) into BR category 2 in Chap 2.5.1
  - to include guidance which BR categories should address which S1000D chapters

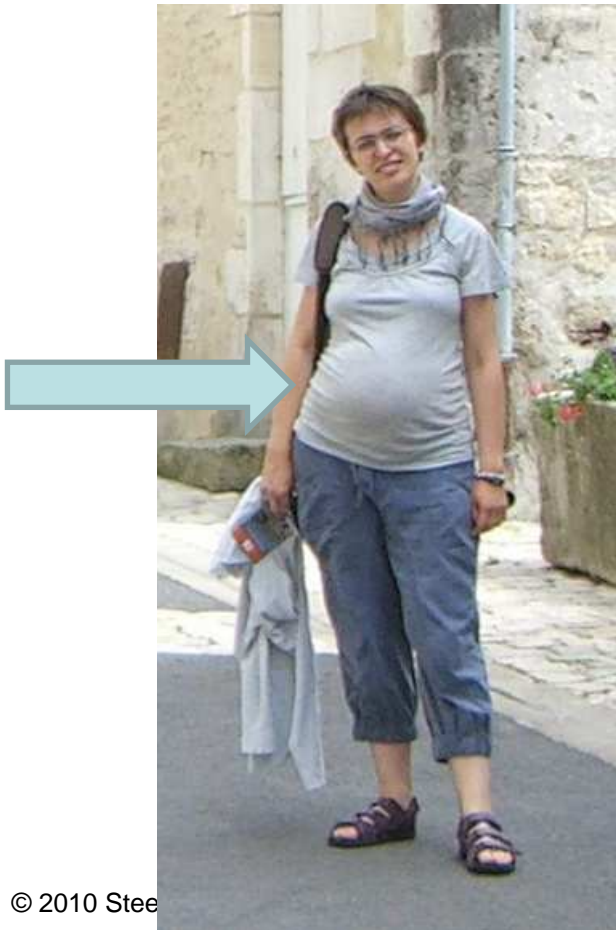


# IGBRTT:

## a great S1000D “playground”



- IGBRTT achieved visible results so far
- But the most exciting is yet to come



Join IGBRTT and/or its interested community:  
contact [Victoria.Ichizli-Bartels@corena.com](mailto:Victoria.Ichizli-Bartels@corena.com)

**Большое спасибо!**

**Mulțumesc mult!**

**Thank you very much!**

**Merci beaucoup!**

**Mille grazie!**



**Mange tak!**

**Danke schön!**

**Tack so mycket!**

**Tusen tak!**