



The Global Language of Business

GDSN Validation Rules subteam

Thursday 23 March 2017 Face-to-Face
Jersey City Event

Who may attend: Opted in

23 March 2017

Anti-trust caution

- GS1 operates under the GS1 anti-trust caution. Strict compliance with anti-trust laws is and always has been the policy of GS1.
- The best way to avoid problems is to remember that the purpose of the group is to enhance the ability of all industry members to compete more efficiently.
- This means:
 - **There shall be no discussion of prices, allocation of customers, or products, boycotts, refusals to deal, or market share.**
 - If any participant believes the group is drifting toward impermissible discussion, the topic shall be tabled until the opinion of counsel can be obtained.
- The full anti-trust caution is available via the link below, if you would like to read it in its entirety: <http://www.gs1.org/gs1-anti-trust-caution>.

Statement & reminder for seeking intellectual property information

- Relevant to the features of the specification that are being developed in this work group, if anyone has knowledge or information about intellectual property rights, such as, patents or patent applications; please promptly convey this information to the work group facilitator.
- The intellectual property rights can either be in development or owned by persons, companies or third parties within this work group or outside this work group.
- We do this under the guidance of the GS1 Intellectual Property Policy, so that GS1 can seek to avoid the uncertainty regarding intellectual property claims against the Specification.

Agenda:

1/2

1. Opening, anti-trust, ... (5 mins) David/co-chairs:
 - Approve agenda and minutes of the 6 March 17 call
 - Review action list
2. Open eBallots / Community Reviews (5 mins) David:
 - Note/address any comments (if required)
3. Implementation timeframe & next steps for "*How to Write a GDSN Validation Rules*" (45 mins) Ewa:
 - Backward re-engineering of existing Validation Rules
 - Implementation Guidelines for Validation Rules (separate from Trade Item Implementation Guide?)
4. Community Room and improving efficiency of subteam (30 mins) David/co-chairs :
 - Community Reviews and eBallots (one WR → multiple VRs)
 - Tracking Excel sheet → publication in Excel, Word, database?



Other improvements?

Agenda:

2/2

-
5. Progress the GDSN Validation Rules (20 mins) Mark
 - [GDSN Validation Rules Work In Progress Summary](#)
 6. GS1 in Europe, upcoming VR requests (20 mins) Tomáš
 7. GS1 Sweden, upcoming VR requests (10 mins) Staffan
 8. Strawman for DateTime (15 mins) Mark
 9. Work load planning (10 mins) All
 10. Close

1) Opening, anti-trust, review action items

Steve Robba, Neil Gray, Gina Tomassi & David Buckley

GDSN Validation Rules, 23 March 2017, Jersey City

Review open action items

No	Action Item	Owner	Date Entered	Due Date	Status/Next Steps
71	Present a firm proposal to a future meeting that provided implementation guidance for VR 437 and/or a Work Request to modify VR 437	Tomáš Tluchoř	13 Feb	23 Mar	
72	Contact Mike Mowad to discuss how best to document guidance on individual Validation Rules (within the Trade Item Implementation Guidance group)?	David Buckley	13 Feb	14 Feb	Done
73	Request the following motion at GMD-SMG: <ul style="list-style-type: none"> - WR 17-004, requested 14-day Community Review impacting VR 1524 - WR 16-107, request errata fix to VR 524 	David Buckley	13 Feb	14 Feb	Done
74	Following an extensive discussion around the request in WR 16-417 for a Validation Rule around TimeDate, it was agreed that: <ul style="list-style-type: none"> - Staffan would withdraw this part of WR 16-417 and submit a new Work Request - Mark would develop some strawman proposal to meet the business requirement 	Mark Van Eeghem Staffan Olsson	13 Feb	27 Feb 6 Mar 23 Mar	Done
75	As no Community Review comments, request a motion to eBallot at GMD-SMG for WR 16-272 - Issue with Validation Rule 451 Validation rule and error message not meaning the same thing	David Buckley	27 Feb	28 Feb	Done
76	As a result of Community Review comments on the Validation Rules part of WR 16-526 (Release 3.1.3) the	Mark Van Eeghem	27 Feb	28 Feb	Done

Review open action items *cont.*

No	Action Item	Owner	Date Entered	Due Date	Status/Next Steps
77	Following on from action 72, it was questioned whether the Trade Item Implementation Guideline was right place to store implementation guidance for Validation Rules (maybe a standalone guide would be better). This topic to be discussed at the face-to-face meeting.	David Buckley	27 Feb	23 Mar	
78	The group resolved the minor Community Review comments, so request a motion to eBallot at GMD-SMG for WR 17-004 Add new GDSN Validation Rule 1524 to prevent two different methods of communicating min & max humidity	David Buckley	6 Mar	7 Mar	Done
79	Reopen the eBallot WR 15-308 How to Write GDSN Validation Rules and inform those who have already voted of the update	David Buckley	6 Mar	7 Mar	Done
80	As a result of Community Review comments on the Validation Rules part of WR 16-526 (Release 3.1.3) the subteam agreed the updated Validation Rules presented by Mark and this would be reported to the GMD-SMG	Mark Van Eeghem / David Buckley	6 Mar	7 Mar	Done

2) Open eBallots / Community Reviews

Address any comments as required

David Buckley

GDSN Validation Rules, 23 March 2017, Jersey City

3) Implementation timeframe & next steps for *“How to Write a GDSN Validation Rules”* and Implementation Guidelines for Validation Rules

Ewa Iwicka

GDSN Validation Rules, 23 March 2017, Jersey City

When to start with new VRs?

- Cut-off release – from that time on all the new and updated VRs will be written in a new way
 - Release: ...
 - Alternative – start immediately for all new requests
- Change existing rules? NOT changing the rule meaning without w WR
 - Pros: all rules will be written in consistent and easier to understand / implement way
 - Cons: significant workload, rules written in different ways (confusion)
 - Alternative: add XPath and attribute categories to existing rules and re-write only when WR is submitted. This decision can be re-visited when the number of “old style” rules becomes small.

Rules in Schematron - 1

- When the Schematron version should be delivered:
 - with the rule itself? May need to be changed if XML structure changes as a result of Community Review
 - with a delay? Would it affect implementation?
- How / where to host Schematron rules?
 - a code excerpt copied to Excel?
 - separate SCH files for download with hyperlinks to SCH files from VR data base and excel

Rules in Schematron - proposal

- Use ISO Schematron & XPath 2.0
- 1 SCH file per rule – any change would result in changing 1 file only
- Use standard rule ID inside the rule and as the SCH file name
- Use standard error messages
- e.g.

```
<sch:pattern id="Rule_0345">
```

```
<!--Rule 345 Sender/authority must equal 'GS1'-->
```

```
<sch:rule
```

```
  context="/catalogue_item_notification:catalogueItemNotificationMessage/  
  sh: StandardBusinessDocumentHeader/sh: Sender/sh: Identifier">
```

```
  <sch:assert test="@Authority='GS1'">The 'Authority' value in Sender  
    and Receiver must be set to GS1</sch:assert>
```

```
</sch:rule>
```

```
</sch:pattern>
```

Implementation Guidelines for Validation Rules?

During the discussion of Work Request WR 17-001 (ADR Classifications) action on GS1 in Europe for clear implementation guidance for VR 437 due to implementation issues.

GDS Validation Rule #	437	Original Rule ID		Constrained Party	Source Data Pool
Date	16-January-17	WR	17-001	BMS	Catalogue Item Notification
Status	NOT DELETED	VR Type	BUSINESS	Target Market	GLOBAL
Targeted Release	3.1.3	Regulation		All Contexts?	YES

Issue with validation rule 437 references classification codes that are now obsolete. Since ADR changes at least ever 2 years, it is best not to have a validation limiting the values. Refer to section 2.2.2.3 in the ADR regulation Remove validation.

https://www.unece.org/fileadmin/DAM/trans/danger/publi/adr/adr2017/ADR2017e_web.pdf

Structured Rule Description

If dangerousGoodsRegulationCode is equal to 'ADR' and classOfDangerousGoods is not empty then classOfDangerousGoods must equal ('1', '2', '3', '4.1', '4.2', '4.3', '5.1', '5.2', '6.1', '6.2', '7', '8' or '9').

Error Message

If classOfDangerousGoods is populated and dangerousGoodsRegulationCode equals 'ADR', then classOfDangerousGoods must be one of the following values: '1', '2', '3', '4.1', '4.2', '4.3', '5.1', '5.2', '6.1', '6.2', '7', '8', '9'.

Impacted Attributes

xPath	AttributeName
HazardousInformationDetail/classOfDangerousGoods	

Where to publish VR guidance?

Trade Item Implementation Guideline (Jan 17)

http://www.gs1.org/docs/gdsn/tiig/3_1/GDSN_Trade_Item_Implementation_Guide.pdf

- Contains 44 references to GDSN Validation Rules including:

9.3 Validation Rule for Gross Weight

For a physical trade item, a validation rule is in place to assist recipient's downstream processes. Processes such as movements of partial shipping units, self-checkouts, and etc. require gross weight information at processes.

22.5 Applicable Validation Rules for Tax

This section provided guidance for tax related [GDSN Validation Rules](#).

22.5.1 GDSN Validation Rule 528

For: Target Market 036 = Australia and dutyFeeTaxTypeCode is equal to 'WET' (Wine Equalisation Tax)

THEN: percentageOfAlcoholByVolume must be populated

22.5.2 GDSN Validation Rule 533

For: Target Market 528 = Netherlands

THEN: dutyFeeTaxCategoryCode must be populated

22.5.3 GDSN Validation Rule 571

For: Target Market 752 = Sweden

IF: dutyFeeTaxAgencyCode is populated

THEN: dutyFeeTaxAgencyCode must = 9SE

22.5.4 GDSN Validation Rule 578

For: Target Markets 056 = Belgium

372 = Ireland, 380 = Italy, 442 =

31.3.1 Implementation Guidance/Validations/Business Rules

Validation rules using isTradeItemABaseUnit can be found in the [BMS GDSN Validation Rules](#).

31.3.2 Example

Pre-packed Fixed Weight Consumer Trade Package with GTIN encoded in the barcode (EAN/UPC)

Consumer Unit	GTIN: 00016000423442	IsTradeItemABaseUnit = True
Case	GTIN: 10016000423449	IsTradeItemABaseUnit = False



Questions for the group

1. Do we need Implementation Guidance on individual VRs:
 - If the VR needs implementation guidance, then write the rule better?
2. Which VRs do we need Implementation Guidance for?
3. Where should the consensus Implementation Guidance be stored:
 - Trade Item Implementation Guide
 - A new standalone document (maintained by this subteam)
 - In the rules themselves (updated error messages)
 - Somewhere else



The Global Language of Business

Data Quality Checker

SCHREK/Schematron framework

GS1 France

22/03/2017



Why it was a top priority project?

1

Increase customer satisfaction by ensuring the accuracy of product information

2

Answer our members that asked for a data quality checker tool

3

Improving Data Quality at the Source

4

Strengthen trust and collaboration between trading partners

SCHREK overview



- ▶ **A web interface to check data quality product**
 - Check a CIN (Catalogue Information Notification) file before sending it to a trading partner
 - Display the GS1 Response message with all the validation rules triggered (Name of the rule, Error message, xpath...)

- ▶ **An API to control the data quality of all the files that will go through GDSN**
 - Contains international and french validation rules
 - Check if the file is OK or not regarding the rules
 - Accept or reject the file depending on the result
 - Generate a GS1 Response with all the information about the rules triggered (Name of the rule, Error message, xpath...)

Web interface and Result



Schematron framework

Past your XML document below :

Or choose your XML document here : cin.LG6F...507.xml

```
<attributeName>nomAttributConcerne</attributeName>
<attributeValue>valeurErronnee</attributeValue>
▼ <xPath>
  /*:catalogueItemNotificationMessage[namespace-uri()='urn:gs1:gdsn:catalogue_item_notification:xsd:3']
  [1]/transaction[6]/documentCommand[1]/*:catalogueItemNotification[namespace-uri()='urn:gs1:gdsn:catalogue_item_notification:xsd:3']
  [1]/catalogueItem[1]/catalogueItemChildItemLink[1]/catalogueItem[1]/catalogueItemChildItemLink[1]/catalogueItem[1]/tradeItem[1]
</XPath>
▼ <gS1Error>
  <errorCode>Rule-1196</errorCode>
  <errorDateTime>2017-03-22T17:42:13.106+01:00</errorDateTime>
  ▼ <errorDescription>
    There must be at most one iteration of freeQuantityOfNextLowerLevelTradeItem per Unit Of Measure
  </errorDescription>
</gS1Error>
</attributeException>
```



Overview of technologies



- **API engine** : java JEE
- **Configuration files** : XSLT, XML
- **Validation rules** : schematron (.sch), xpath

What is missing now ?



Branding and Communication

- ▶ Create Branding (Marketing Name/Logo)
- ▶ Work on a Communication plan

Features

- ▶ Check other type of files like Price (not only CIN)
- ▶ Create a backoffice interface to manage validation rules (state, definition, error message, name...)

Technical update

- ▶ Redesign architecture to manage big files (>8 MB)
- ▶ Update to manage the CIC message for local rules
- ▶ Source code API reengineering

Key Figures

285 international validation rules

96 French validation rules

Launched on the **26th** of May 2016

4) Community Review improvements and subteam working practices

Steve Robba, Neil Gray, Gina Tomassi & David Buckley

GDSN Validation Rules, 23 March 2017, Jersey City

Working direct in Work Request database 1/3

Microsoft Dynamics CRM Service Work Requests Search CRM data

+ NEW EMAIL A LINK RUN REPORT EXCEL TEMPLATES EXPORT TO EXCEL IMPORT DATA CHART PANE

Active Work Requests

Search for records

WR Number	Categorization	Step	Days L...	Days L...	Days in GSM...	Group Routed To	Traffic Light	Company	Contact	Status Reason	WR Owner	Submission Date	Parent WR
WR-14-000171	Maintenance 2 - ...	3 Community Solution eBallot	870	26	428	GSMP Global Ma...		GS1 US	Scott Brown	Pending - Review..	David Buckley	21-Oct-14	
WR-15-000218	Maintenance 1 - ...	2 Approved Requirements	591	4	39	GSMP Global Ma...		GS1 Sweden	Peter Jönsson	Pending - Review..	David Buckley	28-Jul-15	WR-16-000107
WR-15-000258	Maintenance 2 - ...	4 Publication and Communication	554	141	169	GSMP Identificat...		GS1 Global Office	David Buckley	Pending - Review..	David Buckley	02-Sep-15	
WR-15-000308	Maintenance 2 - ...	2 Requirements eBallot	501	33	501	GSMP Global Ma...		GS1 Sweden	Peter Jönsson	Active	David Buckley	26-Oct-15	
WR-15-000343	Maintenance 1 - ...	2 Requirements development	475	476	38	GSMP Global Ma...		1WorldSync Hol...	Steven Robba	Pending - Review..	David Buckley	20-Nov-15	WR-16-000107
WR-15-000350	Maintenance 1 - ...	2 Requirements development	464	465	464	GSMP Global Ma...		1WorldSync Hol...	Steven Robba	Active	David Buckley	01-Dec-15	WR-16-000308
WR-16-000003	Maintenance 1 - ...	2 Requirements development	429	429	151	GSMP Global Ma...		1WorldSync Hol...	Steven Robba	Pending - Review..	David Buckley	05-Jan-16	
WR-16-000107	Maintenance 2 - ...	2 Requirements Community Review	415	54	24	GSMP Global Ma...		GS1 US	Scott Brown	Pending - Review..	David Buckley	19-Jan-16	
WR-16-000109	Development	2 Requirements Community Review	414	91	171	GSMP Global Ma...		1WorldSync Hol...	Steven Robba	Pending - Review..	David Buckley	20-Jan-16	
WR-16-000110	Maintenance 2 - ...	2 Requirements development	414	414	102	GSMP Global Ma...		1WorldSync Hol...	Steven Robba	Pending - Review..	David Buckley	20-Jan-16	
WR-16-000114	Maintenance 2 - ...	2 Requirements eBallot	412	85	39	GSMP Global Ma...		1WorldSync Hol...	Steven Robba	Pending - Review..	David Buckley	22-Jan-16	
WR-16-000229	Maintenance 2 - ...	2 Requirements development	345	344	345	GSMP Global Ma...		GS1 US	Scott Brown	Active	David Buckley	29-Mar-16	
WR-16-000272	Maintenance 1 - ...	2 Requirements eBallot	322	26	322	GSMP Global Ma...		1WorldSync Hol...	Steven Robba	Active	David Buckley	21-Apr-16	
WR-16-000280	Maintenance 1 - ...	2 Requirements development	317	317	159	GSMP Global Ma...		1WorldSync Hol...	Steven Robba	Pending - Review..	David Buckley	26-Apr-16	
WR-16-000307	Maintenance 2 - ...	2 Requirements eBallot	288	85	39	GSMP Global Ma...		1WorldSync Hol...	Steven Robba	Pending - Review..	David Buckley	25-May-16	
WR-16-000308	Maintenance 2 - ...	2 Requirements development	287	288	158	GSMP Global Ma...		GS1 US	Scott Brown	Pending - Review..	David Buckley	26-May-16	
WR-16-000310	Maintenance 2 - ...	2 Requirements development	282	282	282	GSMP Global Ma...		1WorldSync Hol...	Steven Robba	Active	David Buckley	31-May-16	
WR-16-000317	Maintenance 2 - ...	2 Requirements development	279	280	158	GSMP Global Ma...		1WorldSync Hol...	Steven Robba	Pending - Review..	David Buckley	03-Jun-16	
WR-16-000318	Maintenance 2 - ...	2 Requirements eBallot	279	85	38	GSMP Global Ma...		1WorldSync Hol...	Steven Robba	Pending - Review..	David Buckley	03-Jun-16	
WR-16-000322	Maintenance 2 - ...	2 Requirements eBallot	268	85	39	GSMP Global Ma...		1WorldSync Hol...	Steven Robba	Pending - Review..	David Buckley	14-Jun-16	
WR-16-000345	Maintenance 1 - ...	2 Approved Requirements	240	234	234	GSMP Global Ma...		GS1 Australia	Stephan Wijnker	Pending - Review..	David Buckley	13-Jul-16	
WR-16-000516	Maintenance 1 - ...	2 Requirements eBallot	107	54	38	GSMP Global Ma...		GS1 France	Nordine Eddaoudi	Pending - Review..	David Buckley	23-Nov-16	



Working direct in Work Request database 2/3

Microsoft Dynamics CRM | Service | Work Requests | WR-15-000308 | Search CRM data | David Buckley GS1GO

+ NEW | DUPLICATE | RESOLVE | NOT DELIVERED | ON HOLD | PRINT | ADD TO QUEUE | QUEUE ITEM DETAILS | ASSIGN

WORK REQUEST
WR-15-000308

WR Number	WR-15-000308	Working Group	GSMP Global Master Data (GMD) SMG	Work Group Facilitator	David Buckley	Status Reason	Active
Contact *	Peter Jönsson	Categorization	Maintenance 2 - 365 days	Days in System	501	Step *	2 Requirements eBallot
Company *	GS1 Sweden	Topic	The GDSN Validation rules are inconsistent, contains many errors, will be difficult to maintain due to hard coded			OGSM Status	No

- WR SUBMISSION
- ATTACHMENTS/NOTES
- STATUS
- AGENDA TRACKING**
- CLOSE WR
- RELATED WORK REQUESTS

Agenda status	Description of Business Problem/requirements	WR portal link (web)
VR Agenda	The GDSN Validation rules are inconsistent, contains many errors, will be difficult to maintain due to hard coded functionality. This make them hard to understand and implement for users. There are many obvious examples of 2.8 legacy issues in the rules.	http://wr.gs1.org/GS1/WorkRequestsById.aspx?id=c973f7ba-6c7b-e511-80c4-001
Minutes status		Attachment link
VR eBallot		--
Level of effort	A. Create a rule writing rule book that outlines how a validation rule is written	Meeting minutes current (copy into decisions/actions log below each week)
2	B. Move all existing rules into the defined format	14 Mar 17: update the eBallot closes on 21 March
Validation Rule (VR)	C. Remove prerequisites from the rules and handle them separately (for example limitations due to targetMarkets, context, type of message etc.) to make sure that the rules are easy to maintain	
VR Guide, How to Write a VR	D. Divide rules that is for data pools and solution providers (technical validations) from the rules that are for end users (content validations)	
Attribute Value Pair (AVP)	E. Add business case to the rule documentation to extend the understanding of the purpose of the rules	Decisions/actions log
--	F. Remove rules that are not possible to implement	Approved 14-1 1COM How to Write a GDSN Validation Rules; lists the rules and conventions to be used when developing or modifying GDSN Validation Rules (5 -21 February 2017)
WR notes	G. The cost for understanding and implementing the validation rules will be	http://community.gs1.org/apps/org/workgroup/gsmcommunity/ballot.php?id=3831
--		



Working direct in Work Request database 3/3

Pros

- All information held in database
- Easy tracking and tracing of changes (when change agreed, why it was agreed)
- Minutes extracted into Excel for record/approval

Cons

- Online access availability during meeting?

Community Room

The screenshot shows a web browser window with several tabs open, including 'GDSN Validation Rules', 'Procedures - All Documents', 'Facebook', and 'Community Room home'. The address bar shows the URL 'gs1stagesp/sites/cr/#'. The page header includes a search bar with the text 'Search in Community Room' and a user profile for 'David Buckley'. A left-hand navigation menu is open, listing various groups and sub-teams. The main content area features a horizontal navigation bar with buttons for 'Calendar', 'Email', 'Comments', 'Community Reviews', and 'Community eBallots'. Below this is a table of documents with columns for 'Group', 'Related WR', and 'Description'. A 'See all Documents >' button is located to the right of the table. The footer shows the current page URL and a 'Show all' button.

Community Room

Group Directory

Community reviews

Community eBallots

CR3 Focus Group

GSMP Standards Maintenance Groups (SMG)

- GSMP EDI SMG
- GSMP Global Master Data (GMD) SMG
- GDSN Validation Rules sub-team
- GSMP Global Product Classification (GPC) SMG
- GSMP Identification SMG
- GSMP Traceability and Event Sharing SMG

Platform

Search in Community Room

Manage Group | David Buckley

Calendar Email Comments Community Reviews Community eBallots

See all Documents >

	Group	Related WR	Description
227.docx	GDSN Validation Rules sub-team See All Docs	WR-17-000029	Proposed Validation Rule to meet the WR 17-000029
onRules_subteam-6-Mar_2017.pptx	GDSN Validation Rules sub-team See All Docs		
213.docx	GDSN Validation Rules sub-team	WR-17-000004	New Validation Rule

gs1stagesp/sites/cr/smg/gmd/vrsub-team/Pages/Home-wg.aspx

GMD SMG Agenda.xlsx davidplas_72521.jpg

Show all

Benefits for community

- **Custom Built**

- Built to our community needs
- Responsive

- **Integration with other systems**

- Customer Relationship Management
- Work Request System

- **Improved Search**

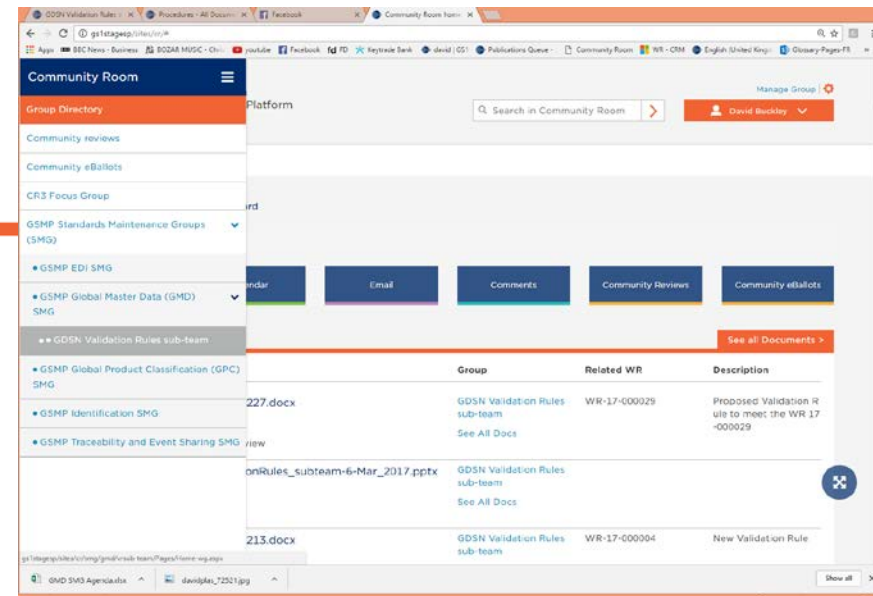
- Find and share information within Community Room

- **Document management**

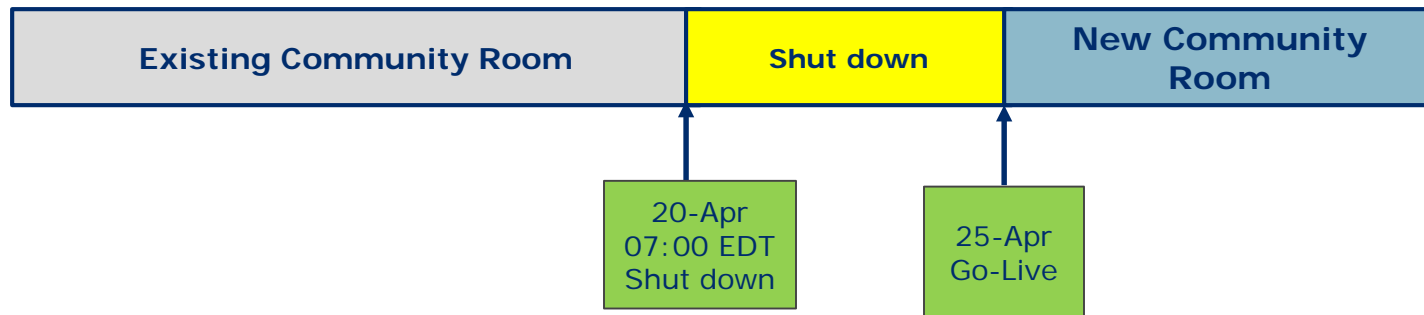
- (Versioning) from inception through publication

- **User Interface**

- Simple navigation
- Modern functionality
- Improved user dashboard (groups / eBallot / Community Review)

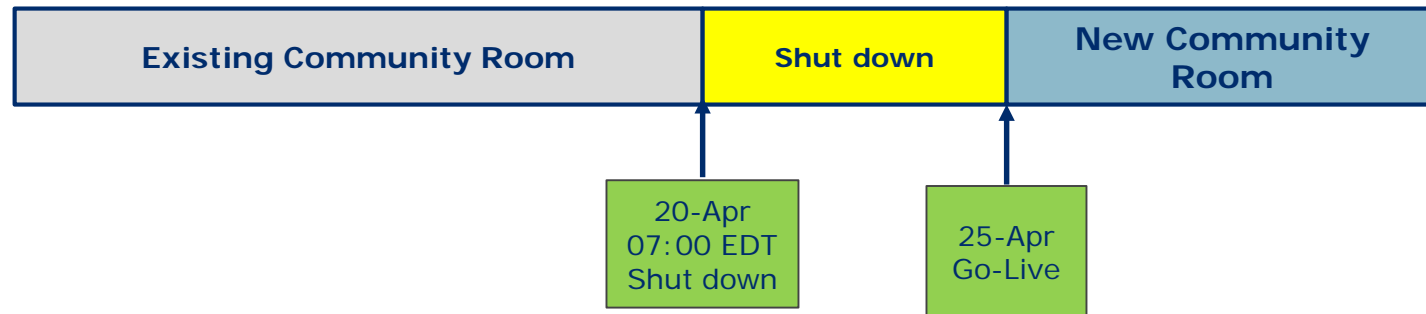


Updated Timeline



All existing Community Reviews/eBallots must end before 20-Apr
All new Community Reviews/eBallots will start on 25-April

Updated Timeline Details



- 20 April @07:00 EDT Shut down Community Room
- 20-24 April NO Access to Community Room and New Community Room
- 25 April NEW Community Room Go Live
- 17 April administrators have access to New Community Room
- By 20 April @07:00 EDT Must end Community Review / Community eBallot
- By 21 April @07:00 EDT Shut Off for administrators
- 20-24 April Lock Down
- 25 April Start Community Review/ Community eBallot on NEW Community Room

Available Features

- ✓ Balloting
- ✓ Calendaring
- ✓ Commenting
- ✓ Document retrieval
 - ✓ Multiple comments
 - ✓ Tagging
- ✓ Email
- ✓ Group Directory
- ✓ Rosters
- ✓ Search
- ✓ User Profile Management

Videos available



Updated Go Live Date 25 April

- Due to Security changes in back end systems
 - The Community Room Focus Group recommended adding additional time for stress testing to ensure a quality deployment.

See Community Room in Jersey City

~~Tuesday 21 March~~

- ~~• 12:30-13:30 Lunch and Learn GS1 Xchange and Community Room~~
- ~~• 11:15-17:00 Community Room Session~~
 - ~~- On site Technology Team to answer your questions~~
 - ~~- See the features~~

Monday – Thursday

- Kiosk for GS1 Xchange and Community Room
 - Location: 3rd Floor by Coffee Break Hudson Pre-function

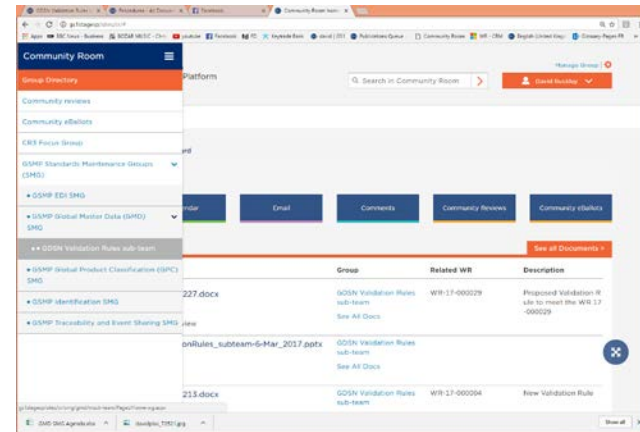
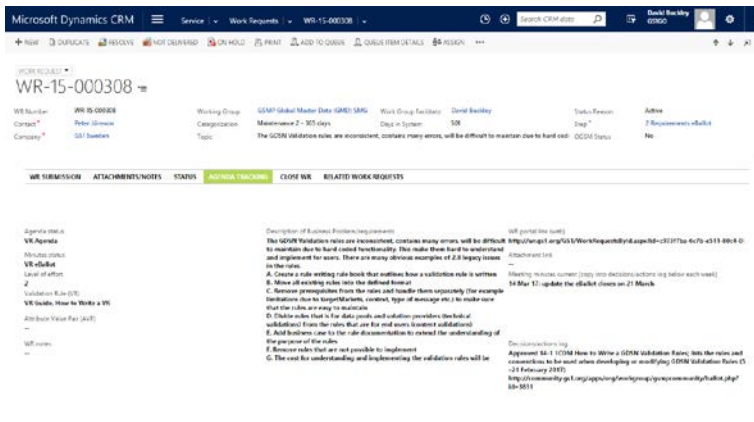
CRM / Community Room

CRM

- Original Work Request
- Work Request status tracking

+ Community Room

- Document sharing
- Comments/discussion
- Community Review
- eBallot



= full transparency and visibility

Community Room

- Break into three or four groups.
- In next 10 minutes consider for the GDSN Validation Rules subteam area:
 - What can we do better than before?
 - What would you like to be improved:
 - Process
 - Procedure

5) Progress GDSN Validation Rules

Mark Van Eeghem

GDSN Validation Rules, 23 March 2017, Jersey City

6) GS1 in Europe, upcoming VR requests

Tomáš Tluchor

GDSN Validation Rules, 23 March 2017, Jersey City

EU Mature Data Model

Work initiated in 2016

Actively participating GS1 MOs:

- BE, DE, DK, ES, FR, NL, SE,
- plus GS1 Global Office and 1WorldSync,
- indirectly also covered by the analysis: AT.

Goals

1. *To provide better visibility of GDSN attributes that are critical for doing business in Europe.*
2. *To work around validation rules to improve quality, especially completeness, of data provided in those critical attributes.*

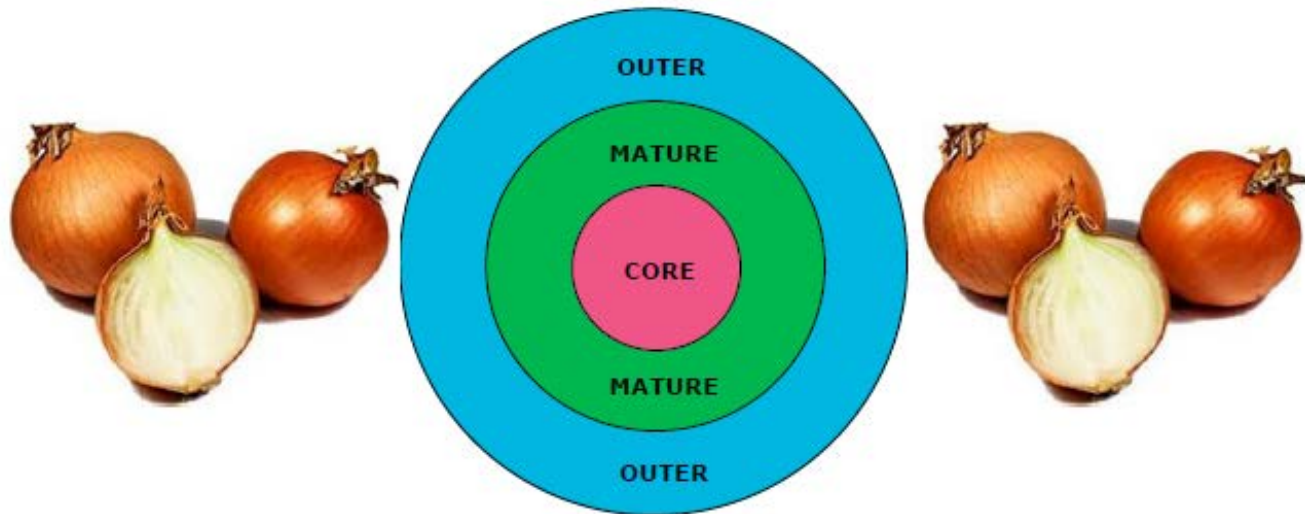
Deliverables

1. List of attributes – an overview
 - DONE
2. New validation rules - submit to GSMP and implement
 - ALMOST DONE
3. Analysis of existing local validation rules - submit to GSMP and implement
 - DELAY

List of attributes

Onion model

1. **Core layer attributes** – attributes that are used in all analysed markets.
2. **Mature layer attributes** – attributes are used in at least 4 analysed markets or they are mandatory or conditionally mandatory in at least one of analysed markets. Conditionally mandatory in this context means that the attribute can become mandatory based on a value in another mandatory attribute.
3. **Outer layer attributes** – attributes are only optional and used in less than 4 analysed markets.



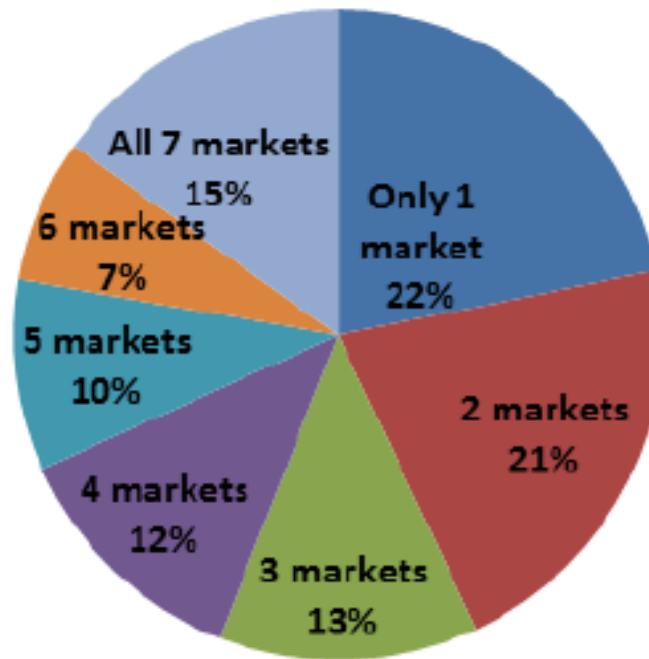
Basic overview

Basic Overview	
Total number of unique attributes	465
Minimum number of attributes used in 1 market	148
Maximum number of attributes used in 1 market	315
Average number of attributes used in 1 market	231

EU Mature Data Model	
Number of attributes in CORE layer	70
Number of attributes in MATURE layer	179
Number of attributes in OUTER layer	216
Number of attributes in Mature data model (CORE+MATURE)	249

Usage of attributes – many differences

Percentage of attributes used in certain number of markets



List of attributes: what is in?

For each attribute, following information is provided

- Name and xpath
- YES/NO indication of usage for each of 7 analysed markets
- Mandatory status for each of 7 analysed markets
 - Mandatory
 - Conditional Mandatory
 - Optional
- EU Data Model Layer (Onion model)
- Number of markets using the attribute

Validation rules

New validation rules

- **Objective:** design new validation rules that would improve data quality (completeness) of CORE attributes.
- **Result: 8 new validation rules (for 8 attributes) - finalized**
 - 3 months period when EU markets can opt-out from using some rules
 - After this period, GSMP work request will be submitted to add those rules into global standard – **approx. mid June 2017**
- **Challenges:**
 - Different business / legal needs in different markets
 - Impossible to translate many exceptions (for products) into validation rules
 - Risk of blocking data

Overview of the 8+1 new validation rules

ID	Affected attribute	Rule Description
VR1	percentageOfAlcoholByVolume	If gpcCategoryCode equals (any code from GPC-VR-1) , then percentageOfAlcoholByVolume SHALL be used. Note: There is a global VR 325 in place for FR and NL.
VR2	descriptionShort	descriptionShort SHALL be used.
VR3	minimumTradeItemLifespanFromTimeOfProduction	If isTradeItemNonphysical does not equal 'true' and isTradeItemAConsumerUnit equals 'true' and tradeItemDateOnPackagingTypeCode equals ('BEST_BEFORE_DATE', 'EXPIRATION_DATE'), then minimumTradeItemLifespanFromTimeOfProduction SHALL be used.
VR4	grossWeight	grossWeight SHALL be used.
VR5	netContent	If isTradeItemNonphysical and isReturnableAssetEmpty does not equal 'true' and isTradeItemAConsumerUnit equals 'true', then netContent SHALL be used.
VR6	packagingTypeCode	If isTradeItemNonphysical does not equal 'true', then packagingTypeCode SHALL be used.
VR7	quantityOfCompleteLayersContainedInATradeItem	If tradeItemUnitDescriptorCode equals 'PALLET', then quantityOfCompleteLayersContainedInATradeItem SHALL be used.
VR8	dutyFeeTaxTypeCode	If isTradeItemABaseUnit equals 'true', then dutyFeeTaxTypeCode SHALL be used.
VR9	tradeItemDescription	tradeItemDescription SHALL be used. Note: The rule already exists as Global VR 590 only for France. OPT-IN Rule

Analysis of existing local validation rules

- **Objective:** compare existing local validation rules (not part of standard) used by 7 participating GS1 EU MOs and discover similarities. Evaluate possibility to harmonize similar local rules and promote them to global.
- **Result:** to be delivered.

7) GS1 Sweden, upcoming VR requests

Staffan Olsson

GDSN Validation Rules, 23 March 2017, Jersey City

Validation rules in Sweden

- Validation rules is considered very important by the Swedish user community
 - Suppliers expect errors to be detected by the data pool (Validoo) so no detectable errors are published to recipients
 - Data recipients expect to get clean data
- Users and service providers are active and constantly proposing new validation rules

Validation rules in Sweden

Our process is (intended to be) the following:

1. Someone has a data issue and asks why an error could occur (this happens in multiple ways)
2. GS1 Sweden creates a VR proposal which is presented to the Swedish user group (includes service providers and Validoo)
3. The user group approves the VR proposal (sometimes after some iterations)
4. The VR is submitted to as a WR to GSMP
5. The VR is published on GS1 Sweden's website in the lista of national VRs and implemented the next release
6. The VR goes through GSMP and is implemented in a release
7. The VR is removed from GS1 Sweden's list of national validation rules

Backlog management

- Some GDSN VRs (submitted by GS1 SE) are no longer correct (so we have implemented similar rules nationally)
- Some national rules were never submitted

Going forward:

- Change/replace some existing GDSN validation rules
- Add some new rules

8) Strawman for DateTime

Mark Van Eeghem

GDSN Validation Rules, 23 March 2017, Jersey City

9) Workload planning

Steve Robba, Neil Gray, Gina Tomassi & David Buckley

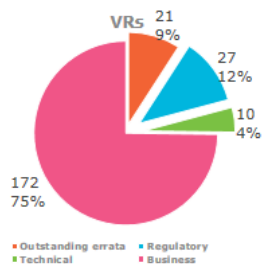
GDSN Validation Rules, 23 March 2017, Jersey City

GDSN Validation Rules work queue: Brussels Event, *October 2016*

Your mission...
if you choose to accept it



125
54%



Total VRs to be worked on = 230



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VR Writing Style: 2 WRs



15-350

- Validation rules with "There must be at most one" is confusing both native English speakers and non-Native. The must makes it sound mandatory that one MUST exist. Try to better word all validations to state "The maximum can be one iteration....."

16-110 (SR)

- General comment to add to Sweden Validation guidelines
- In the structured rule please include exact XML path, not this hand types reference that is not aligned to the xml path. Example Brand Owner GLN.
- The error message can use that type of information, the structured rule is used for implementation and causes people to search unnecessarily for a XML path that does not exist.



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Outstanding Errata: 21 VRs

Validation Rules with associated WR

- 1282 (WR 15-086)
- 1275 (WR 15-087)
- 1063 (WR 15-334)
- 578 (WR 15-343, 16-107)
- 1169 (WR 15-351)
- 549 (WR 16-010)
- 1298 (WR 16-102)
- 491 (WR 16-103)
- 585 (WR 16-109)
- 1279 (WR 16-113)
- 1090 (WR 16-118)
- 635 (WR 16-120)
- 1302 (WR 16-125)
- 1303 (WR 16-125)
- 1304 (WR 16-125)
- 1088 (WR 16-150)
- 1307 (WR 16-308)
- 300 (WR 16-314)
- 1084 (WR 16-314)
- 634 (WR (16-321, 16-114)
- 204 (WR ...)



You can call me errata. I call you guys and they make me feel quite grumpy!



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Regulatory: 27 VRs

- All related to WR 14-171 (**Child nutrition Label and Product Formulation statements**).
- On HOLD until model for this work request has been completed (est. mid november 2016)



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Technical: 10 VRs

VRs with associated WR #

- 1338 (WR 15-218)
- 1339 (WR 15-218)
- 1340 (WR 15-218)
- 1341 (WR 15-218)
- 451 (WR 16-272)
- 635 (WR 16-280)
- New (WR 16-318)
- New (WR 16-322)
- New (WR 16-322)
- New (WR 16-355)

Without natural gifts technical rules are useless.

(Quintilian)



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Business: 172 VRs

Groupings

- 63 "French" validation rules [18 VRs TM France only]
- 5 sundry
- 6 Business Rules to be converted to Validation Rules
- 3 for changes to isTradeItemAConsumerUnit
- 1 for change to Target Market
- 53 new VRs for Sweden (WR 16-421) [Only 2 VRs TM Sweden only]
- 41 new VRs for Sweden (WR 16-417) [29 VRs TM Sweden only]



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GDSN Validation Rules work queue: *today*

- **17-004**: Add new GDSN Validation Rule 1524 to prevent two different methods of communicating min & max humidity (eBallot closes **28 March 2017**)
- **16-310**: The GPC 99999999 is causing issues. We may need a 99999999 context so that validations can run properly against it. (*talked about today*)
- **16-229**: To provide the ability to see the data carrier at any level so as to ascertain how the level might be utilized in operations. (*talked about today*)
- **17-029**: Validation Rules inconsistent use of date & time attributes in GDSN (*talked about today*)

GDSN Validation Rules work queue: *today*

- **17-074:** If GrowingMethodCode is equal to ORGANIC and TargetMarket is equal to EU and GPC Brick belongs to the GPC families 50100000, 50250000, 50260000, 50270000, 5029000, 50310000, 50320000 and 50350000 then at least one iteration of OrganicClaimAgencyCode must be provided.
 - This Validation Rule must be implemented in the next major release, not before, because it is not backwards compatible.
- **17-075:** If TargetMarket is equal to EUR and GPC Brick belongs to the GPC families 50100000, 50250000, 50260000, 50270000, 5029000, 50310000, 50320000 and 50350000 then GrowingMethodCode must be equal (CLONED_FOODS, CONVENTIONAL , FIELD_GROWN, GREENHOUSE, HYDROPONIC, INTEGRATED_PEST_MANAGEMENT, ORGANIC and SHADE_GROWN)
- **To Come:** GS1 in Europe, GS1 Sweden requests?

Other work items:

- How to Write GDSN Validation Rules, rollout?
- Implementation Guidelines for GDSN Validation Rules?

GDSN Validation Rules subteam meeting schedule

No Change

- Mondays 16:00 – 17:00 CET (10:00 – 11:00 EST)?
 - Cancel meeting if not required?
 - Move to a bi-monthly meeting schedule?
 - Other ideas?

- Cancel next Monday's call (27 March 2017)

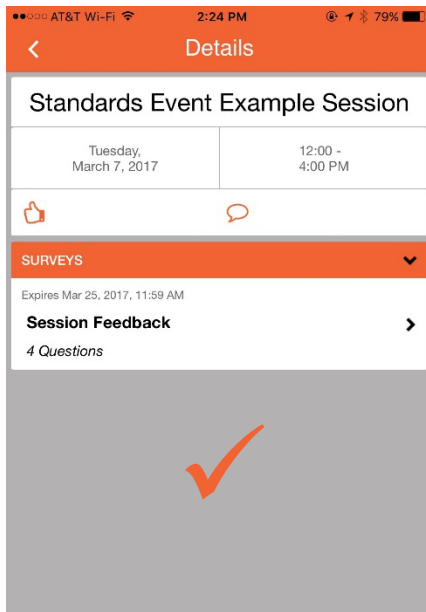
10) Close

Steve Robba, Neil Gray, Gina Tomassi & David Buckley

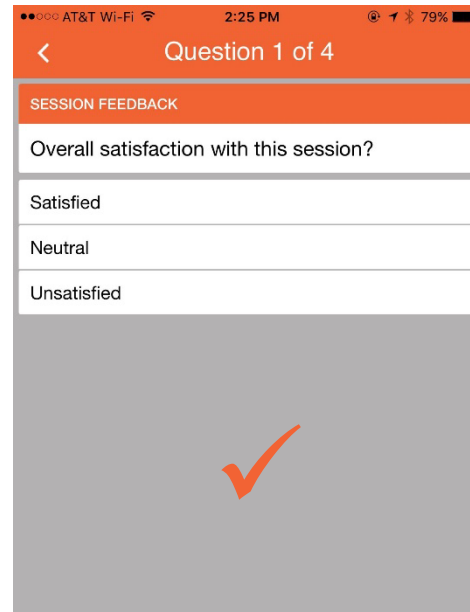
GDSN Validation Rules, 23 March 2017, Jersey City

Your feedback is important: How to rate sessions

- 1 Within each session, you will see "surveys" listed at the bottom



- 2 Select your rating and enter comments



- 3 A confirmation appears

