



# GDSN Healthcare Use Cases Guideline

This document contains healthcare business process and regulatory Use Cases which enable the efficient exchange of accurate and complete product information across the healthcare value chain via the GDSN to fulfil specific needs.

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### 3 Document Summary

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### 4 Contributors

Name	Organisation
Pete Alvarez	GS1
Scott Brown	GS1 US
Steve Capel	Covidien
Ulrike Kreysa	GS1
Rita Laur	GS1 Canada
Hans Lunenburg	GS1 Netherlands
Doris Nessim	GS1 Canada
Steve Robba (Chair)	1 Worldsync
Tania Snioch	GS1 Australia
Peter Tomicki	GE Healthcare
Barb Zenner (Chair)	Baxter
Naeem Ahmed	GS1 Saudi Arabia
Mirva Alatyppö	GS1 Finland
Angie Biles	Mallinckrodt Pharmaceuticals
Chuck Biss	GS1 Global Office
Ana Blasberg	GS1 Guatemala
Bill Bobbie	Cook Medical Inc.
Shaun Bosson	GS1 New Zealand
Malcolm Bowden	GS1 Global Office
Dennis Byer	Alcon Labs
Shawn Cady	FSE, Inc.
Robert Celeste	GS1 US
Omar Cervantes Sánchez	GS1 Mexico

Name	Organisation
Stephen Kovary	Excellis Health Solutions
Sanjeev Kumar	GS1 India
Roger Lamb	GS1 UK
Sébastien Langlois-Berthelot	F. Hoffmann-La Roche AG
Brian Lewis	MEDEC
Sean Lockhead	GS1 Global Office
José Raúl López	GS1 Spain
Valerie Marchand	GS1 France
Julien Matsis	GS1 New Zealand
Hugh McBride	FSE, Inc.
Kirby McBride	FSE, Inc.
Sandi Michel	Franciscan Missionaries Of Our Lady Health System
John Miller	Healthcare Distribution Management Association's Information (HDMA)
Matthew Muldoon	FSE, Inc.
Maryann Nelson	Cardinal Health
Doris Nessim	GS1 Canada
Benjamin Östman	GS1 Finland
Silvério Paixão	GS1 Portugal
Greg Patterson	FSE, Inc.
Fernando Pereira	Saphety Level SA
James Phillips	Franciscan Missionaries Of Our Lady Health System
Melinda Principe	Abbott Laboratories Inc.
Dave Ralph	Commport Communications Int'l Inc.



Name	Organisation
Chris Chandler	USDAM
Jacques Chaput	Baxter Healthcare
Chris Clayton	Cook Pharmica LLC
Holger Clobes	B. Braun Medical Inc.
Stephen Corma	Veterans Health Administration
Jay Crowley	USDAM
Heidy Cuéllar	GS1 Guatemala
Amanda deLaroque	GS1 Netherlands
Braden Depke	Abbott Laboratories Inc.
Séverine Dewerpe	GS1 Belgium & Luxembourg
Margot Drees	GHX
Krystyna Duch	Abbvie
Siobhain Duggan	GS1 Ireland
Juliet Espinosa	GS1 Colombia
John Etrie	IDEA (US)
Neil Farquharson	GHX
Nuno Fernandes	Saphety Level SA
Jesper Franke	GS1 Denmark
Mark Fuller	GS1 Australia
Brian Gallihier	Cook Pharmica LLC
George Gesior	GE Healthcare
Robin Goossens	GS1 Belgium & Luxembourg
Neil Gray	GS1 UK
Gary Hartley	GS1 New Zealand
Christian Hay	GS1 Switzerland
Grant Hodgkins	USDAM
Tracey Holevas	GE Healthcare
Sebastián Infante	GS1 Colombia
Rebecca Jones	Mallinckrodt Pharmaceuticals
Peter Jönsson	GS1 Sweden
Deborah Joplin	GS1 New Zealand
Debbie Joplin	Health Benefits Limited
Eric Kauz	GS1 Global Office
Chris Kilander	Cook Medical Inc.
Janice Kite	GS1 Global Office
Catherine Koetz	GS1 Australia
Neville Kolwane	GS1 South Africa / Consumer Goods Council of South Africa

Name	Organisation
Fernando Ramirez	GS1 Guatemala
Emmanuel Ramos Velazquez	GS1 Mexico
Sylvia Reingardt	GS1 Germany
Diane Riccardi	Johnson & Johnson
Joshua Richardson	Cook Medical Inc.
Alexandre Rieucan	GS1 France
Tiago Rodrigues	www.groquifar.pt
John Roy	Cardinal Health
Sylvia Rubio Alegren	ICA AB
Alison Ryckman	Cook Medical Inc.
Michael Sadiwnyk	GS1 Canada
Francisco Santonja	EDICOM
Michael Sarachman	GS1 Global Office
Katja Schimmel	GS1 Netherlands
Armand Schins	Ahold (Europe)
Gonçalo Silveira	Logiters
Erik Soegaard	GS1 Denmark
Owen Strouse	GS1 Global Office
Peter Sturtevant	GS1 US
Flora Sue	GS1 China
Sule Tarim	GS1 Turkey
Sue Thompson	National Council for Prescription Drug Programs
Lionel Tussau	1WorldSync Holdings, Inc.
Diane Walker	LANSA Ltd
Anthony Walsh	Blue Sphere Health Ltd
Laura Weekley	Abbvie
Tomas Wennebo	GS1 Sweden
Thomas Werthwine	Johnson & Johnson
Mark Widman	GS1 Global Office
Tasha Wiehe	FSE, Inc.
Stephan Wijnker	GS1 Australia
Peter Wisdahl	ICA AB
MJ Wylie	Johnson & Johnson
Daniel Zabalet	Commport Communications Int'l Inc.
Volker Zeinar	B. Braun Medical Inc.
Bill Zimmerman	Cardinal Health

## 5 Log of Changes

Release	Date of Change	Changed By	Summary of Change
Release 1	7 May 2012	Community Review	Edits from the April Community Review
Release 2	20 January 2014	Pete Alvarez	Added Medicine Dispensing and Safety Use Case
Issue 3	31 August 2015	Pete Alvarez	GS1 branding applied
Release 3.0	Dec 2015	Pete Alvarez & D.Buckley	Added links to medical device and pharmaceutical data attributes Updated contributor lists & editorial update prior to publication

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## 45 1 Introduction

46 This document contains healthcare business process and regulatory Use Cases which can bring  
47 significant value for both the supplier and the provider while improving patient safety. The objective  
48 is to enable the efficient exchange of accurate and complete product information across the  
49 healthcare value chain to fulfil specific needs. The exchange of information is facilitated by the use  
50 of the Global Data Synchronisation Network (GDSN), Certified Data Pools and the GS1 Global  
51 Registry to ensure that the customer's database is aligned and current with the manufacturer, as  
52 the source of the information.

53 The Use Cases contained in this document have been tested by existing implementations or  
54 validation with GS1 Healthcare User Group, GS1 Member Organisations and/or GDSN Data Pools.

## 55 2 Use Cases

56 The use cases contained in this document are designed to encourage consistent data  
57 synchronisation practices. Trading partners must have already allocated GTINs to the products for  
58 which they want to synchronise data and GLNs to identify each other. Some use cases may require  
59 the physical marking of the product. Therefore, the steps required to assign GTINs and GLNs are  
60 found in the appropriate implementation guides and not in this document.

61 The link below provides the GDSN data requirements needed to achieve the objective of each use  
62 case. This listing includes the ability to filter the information by country, use case, and product type  
63 (medical device or pharmaceutical drug):

64 [http://www.gs1.org/docs/gdsn/GDSN\\_Healthcare\\_Use\\_Cases\\_and\\_Attributes.xlsx](http://www.gs1.org/docs/gdsn/GDSN_Healthcare_Use_Cases_and_Attributes.xlsx)

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66 **2.1 Tendering/Sourcing**

<b>Use Case ID</b>	UC-1																											
<b>Use Case Name</b>	Tendering / Sourcing																											
<b>Objective</b>	Ensure the supplier provides the buyer accurate and standardised data as part of the tender submission, and that the buyer can subsequently source the correct product at the correct level of packaging.																											
<b>Use Case Description</b>	Generally, tender data is collected by different buyers / jurisdictions using different mechanisms. This may be proprietary spreadsheets or in hard copy format. The lack of clear direction and inconsistency in instruction leads to poor quality tender submissions and inability for buyers to source the appropriate products at the appropriate pack size.																											
<b>Actors (Goal)</b>	Seller, Buyer, GDSN Data Pool, GS1 Global Registry																											
<b>Performance Goals</b>	<i>To be defined by each organisation according to their internal, or industry agreed, metrics</i>																											
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>■ Seller assigns GTINs to their products, and a GLN as required for data synchronisation via their GDSN Data Pool</li> <li>■ Buyer assigns GLNs as required for data synchronisation via their GDSN Data Pool</li> <li>■ Trading Partners subscribe to a GDSN data pool</li> <li>■ The supplier and the customer have an established business relationship and have agreed to synchronise data via the GDSN</li> <li>■ Basic information such as the Trading Partner GLNs and GTINs have been provided to each other as needed to enable data synchronisation</li> <li>■ An agreement has been made that GDSN data will provide the foundation for tender submission and sourcing decisions.</li> </ul>																											
<b>Post conditions</b>	Accurate tender and sourcing information is provided to the customer and available in the recipient's internal system for tendering																											
<b>Scenario</b>	<p><b>Begins when...</b> the manufacturer records in their internal Master Data Management system the appropriate product data needed by this specific Use Case.</p> <p><b>Continues with...</b> the seller is ready to load their product and company data in their GDSN data pool</p> <table border="1" data-bbox="454 1193 1444 1765"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Seller</td> <td>Provides the appropriate data to their GDSN data pool</td> </tr> <tr> <td>2</td> <td>Source Data Pool</td> <td>A small subset of this data is registered in the GS1 Global Registry</td> </tr> <tr> <td>3</td> <td>Buyer</td> <td>The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry</td> </tr> <tr> <td>4</td> <td>GS1 Global Registry</td> <td>Sends a subscription request to the source GDSN data pool</td> </tr> <tr> <td>5</td> <td>Seller</td> <td>Authorises the publication of the requested information</td> </tr> <tr> <td>6</td> <td>Source Data Pool</td> <td>The seller's data pool publishes the requested information to the buyer's data pool</td> </tr> <tr> <td>7</td> <td>Recipient Data Pool</td> <td>The buyer's data pool publishes the data to the Data Recipient</td> </tr> <tr> <td>8</td> <td>Data Recipient</td> <td>The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information</td> </tr> </tbody> </table> <p><b>Ends when...</b> the customer (data recipient) utilises the tendering and sourcing data into their internal system to</p>	Step #	Actor	Activity Step	1	Seller	Provides the appropriate data to their GDSN data pool	2	Source Data Pool	A small subset of this data is registered in the GS1 Global Registry	3	Buyer	The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry	4	GS1 Global Registry	Sends a subscription request to the source GDSN data pool	5	Seller	Authorises the publication of the requested information	6	Source Data Pool	The seller's data pool publishes the requested information to the buyer's data pool	7	Recipient Data Pool	The buyer's data pool publishes the data to the Data Recipient	8	Data Recipient	The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information
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69 **2.2 Contracting**

<b>Use Case ID</b>	UC-2																											
<b>Use Case Name</b>	Contracting																											
<b>Objective</b>	Ensure the customer has accurate and complete product data to enable a fair and appropriate contracting decision to be made.																											
<b>Use Case Description</b>	Very often customers lack consistent information required to make appropriate and detailed contracting decisions, for example it is difficult to make an informed contracting decision if data from different suppliers has been provided in different formats / structures (refer Use Case 2.1 above).																											
<b>Actors (Goal)</b>	Seller, Buyer, GDSN Data Pool, GS1 Global Registry																											
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<b>Preconditions</b>	<ul style="list-style-type: none"> <li>■ Seller assigns GTINs to their products, and a GLN as required for data synchronisation via their GDSN Data Pool</li> <li>■ Buyer assigns GLNs as required for data synchronisation via their GDSN Data Pool</li> <li>■ Trading Partners subscribe to a GDSN data pool</li> <li>■ The supplier and the customer have an established business relationship and have agreed to synchronise data via the GDSN</li> <li>■ Basic information such as the Trading Partner GLNs and GTINs have been provided to each other as needed to enable data synchronisation</li> <li>■ An agreement is in place that allows for contracting decisions to be made based on GDSN data.</li> </ul>																											
<b>Post conditions</b>	Accurate and complete product and price information is provided to the customer and available in their internal system for contracting decisions.																											
<b>Scenario</b>	<p><b>Begins when...</b> the manufacturer records the appropriate product data needed by this specific Use Case in their internal Master Data Management system.</p> <p><b>Continues with...</b> the seller is ready to load their product and company data in their GDSN data pool</p> <table border="1" data-bbox="454 1167 1444 1738"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Seller</td> <td>Provides the appropriate data to their GDSN data pool</td> </tr> <tr> <td>2</td> <td>Source Data Pool</td> <td>A small subset of this data is registered in the GS1 Global Registry</td> </tr> <tr> <td>3</td> <td>Buyer</td> <td>The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry</td> </tr> <tr> <td>4</td> <td>GS1 Global Registry</td> <td>Sends a subscription request to the source GDSN data pool</td> </tr> <tr> <td>5</td> <td>Seller</td> <td>Authorises the publication of the requested information</td> </tr> <tr> <td>6</td> <td>Source Data Pool</td> <td>The seller's data pool publishes the requested information to the buyer's data pool</td> </tr> <tr> <td>7</td> <td>Recipient Data Pool</td> <td>The buyer's data pool publishes the data to the Data Recipient</td> </tr> <tr> <td>8</td> <td>Data Recipient</td> <td>The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information</td> </tr> </tbody> </table> <p><b>Ends when...</b> the customer (data recipient) utilises the product and price data into their internal system to enable informed contracting decisions.</p>	Step #	Actor	Activity Step	1	Seller	Provides the appropriate data to their GDSN data pool	2	Source Data Pool	A small subset of this data is registered in the GS1 Global Registry	3	Buyer	The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry	4	GS1 Global Registry	Sends a subscription request to the source GDSN data pool	5	Seller	Authorises the publication of the requested information	6	Source Data Pool	The seller's data pool publishes the requested information to the buyer's data pool	7	Recipient Data Pool	The buyer's data pool publishes the data to the Data Recipient	8	Data Recipient	The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information
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<b>Related Rules</b>	1. Ensure a mechanism is in place so that the contract information is updated in an amendment to the contract (inclusive of contract price as applicable) between trading partners																											

70 **2.3 Procurement**

<b>Use Case ID</b>	UC-3																											
<b>Use Case Name</b>	Procurement																											
<b>Objective</b>	Ensure the customer has accurate and complete product data to enable an efficient procurement process.																											
<b>Use Case Description</b>	Very often customers do not have complete or the latest information available to place product orders. The GDSN is often used to provide information about products and their levels of packaging to ensure the correct products in the correct quantity are procured.																											
<b>Actors (Goal)</b>	Seller, Buyer, GDSN Data Pool, GS1 Global Registry																											
<b>Performance Goals</b>	<i>To be defined by each organisation according to their internal, or industry agreed, metrics</i>																											
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<b>Post conditions</b>	Accurate and complete procurement information is provided to the customer and available in their internal system for procurement																											
<b>Scenario</b>	<p><b>Begins when...</b> the manufacturer records in their internal Master Data Management system the appropriate product data needed by this specific Use Case.</p> <p><b>Continues with...</b> the seller is ready to load their product and company data in their GDSN data pool</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Step #</th> <th style="width: 20%;">Actor</th> <th style="width: 70%;">Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Seller</td> <td>Provides the appropriate data to their GDSN data pool</td> </tr> <tr> <td>2</td> <td>Source Data Pool</td> <td>A small subset of this data is registered in the GS1 Global Registry</td> </tr> <tr> <td>3</td> <td>Buyer</td> <td>The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry</td> </tr> <tr> <td>4</td> <td>GS1 Global Registry</td> <td>Sends a subscription request to the source GDSN data pool</td> </tr> <tr> <td>5</td> <td>Seller</td> <td>Authorises the publication of the requested information</td> </tr> <tr> <td>6</td> <td>Source Data Pool</td> <td>The seller's data pool publishes the requested information to the buyer's data pool</td> </tr> <tr> <td>7</td> <td>Recipient Data Pool</td> <td>The buyer's data pool publishes the data to the Data Recipient</td> </tr> <tr> <td>8</td> <td>Data Recipient</td> <td>The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information</td> </tr> </tbody> </table> <p><b>Ends when...</b> the customer (data recipient) integrates the procurement data into their internal system to enable procurement</p>	Step #	Actor	Activity Step	1	Seller	Provides the appropriate data to their GDSN data pool	2	Source Data Pool	A small subset of this data is registered in the GS1 Global Registry	3	Buyer	The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry	4	GS1 Global Registry	Sends a subscription request to the source GDSN data pool	5	Seller	Authorises the publication of the requested information	6	Source Data Pool	The seller's data pool publishes the requested information to the buyer's data pool	7	Recipient Data Pool	The buyer's data pool publishes the data to the Data Recipient	8	Data Recipient	The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information
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73 **2.4 Order and Invoice Reconciliation**

<b>Use Case ID</b>	UC-4																																	
<b>Use Case Name</b>	Order and Invoice Reconciliation																																	
<b>Objective</b>	Ensure the customer has accurate product pricing information to address order and invoice discrepancies																																	
<b>Use Case Description</b>	Often invoice payment is delayed due to lack of accuracy in the order price quoted versus the invoice price returned. Alternatively, there is often inaccuracy between the price quoted in the buyer purchase order and the price in the supplier system. GDSN can be used to provide accurate pricing information and allow faster invoice reconciliation and therefore payment.																																	
<b>Actors (Goal)</b>	Seller, Buyer, GDSN Data Pool, GS1 Global Registry																																	
<b>Performance Goals</b>	<i>To be defined by each organisation according to their internal, or industry agreed, metrics</i>																																	
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>■ Seller assigns GTINs to their products, and a GLN as required for data synchronisation via their GDSN Data Pool</li> <li>■ Buyer assigns GLNs as required for data synchronisation via their GDSN Data Pool</li> <li>■ Trading Partners subscribe to a GDSN data pool</li> <li>■ The supplier and the customer have an established business relationship and have agreed to synchronise data via the GDSN</li> <li>■ Basic information such as the Trading Partner GLNs and GTINs have been provided to each other as needed to enable data synchronisation</li> <li>■ An agreement is in place that the GDSN data will be the primary source of data for order placement and invoice reconciliation.</li> <li>■ Tendering, Sourcing, Contracting and Procurement steps have been completed</li> </ul>																																	
<b>Post conditions</b>	Accurate and complete product and price information is provided to the customer and available in their internal system for placing purchase orders and reconciling invoices against these to minimise pricing discrepancies and therefore invoice queries.																																	
<b>Scenario</b>	<p><b>Begins when...</b> the manufacturer records in their internal Master Data Management system the appropriate product data needed by this specific Use Case.</p> <p><b>Continues with...</b> the seller is ready to load their product and company data in their GDSN data pool</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Step #</th> <th style="width: 20%;">Actor</th> <th style="width: 70%;">Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Seller</td> <td>Provides the appropriate data to their GDSN data pool</td> </tr> <tr> <td>2</td> <td>Source Data Pool</td> <td>A small subset of this data is registered in the GS1 Global Registry</td> </tr> <tr> <td>3</td> <td>Buyer</td> <td>The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry</td> </tr> <tr> <td>4</td> <td>GS1 Global Registry</td> <td>Sends a subscription request to the source GDSN data pool</td> </tr> <tr> <td>5</td> <td>Seller</td> <td>Authorises the publication of the requested information</td> </tr> <tr> <td>6</td> <td>Source Data Pool</td> <td>The seller's data pool publishes the requested information to the buyer's data pool</td> </tr> <tr> <td>7</td> <td>Recipient Data Pool</td> <td>The buyer's data pool publishes the data to the Data Recipient</td> </tr> <tr> <td>8</td> <td>Data Recipient</td> <td>The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information</td> </tr> <tr> <td>9</td> <td>Data Recipient</td> <td>Generates purchase order using GDSN data</td> </tr> <tr> <td>10</td> <td>Supplier</td> <td>Order is processed and invoice generated using GDSN data</td> </tr> </tbody> </table> <p><b>Ends when...</b> the customer (data recipient) makes a comparison between the purchase order and invoice applicable to the transaction.</p>	Step #	Actor	Activity Step	1	Seller	Provides the appropriate data to their GDSN data pool	2	Source Data Pool	A small subset of this data is registered in the GS1 Global Registry	3	Buyer	The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry	4	GS1 Global Registry	Sends a subscription request to the source GDSN data pool	5	Seller	Authorises the publication of the requested information	6	Source Data Pool	The seller's data pool publishes the requested information to the buyer's data pool	7	Recipient Data Pool	The buyer's data pool publishes the data to the Data Recipient	8	Data Recipient	The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information	9	Data Recipient	Generates purchase order using GDSN data	10	Supplier	Order is processed and invoice generated using GDSN data
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74 **2.5 Reimbursement Codes and GTINs**

<b>Use Case ID</b>	UC-5																											
<b>Use Case Name</b>	Reimbursement Codes and GTINs																											
<b>Objective</b>	Ensure the customer has the proper regulatory reimbursement code mapped to the appropriate GTIN for their Target Market.																											
<b>Use Case Description</b>	Reimbursement codes vary between markets. There is a need to identify the correct reimbursement code for particular product at specific level of packaging. There are often multiple reimbursement codes for a particular product at a particular level of packaging within a given market. The GDSN provides an effective mechanism to ensure the product is mapped to the proper reimbursement code for a particular market.																											
<b>Actors (Goal)</b>	Seller, Buyer, GDSN Data Pool, GS1 Global Registry																											
<b>Performance Goals</b>	<i>To be defined by each organisation according to their internal, or industry agreed, metrics</i>																											
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>■ Supplier keeps accurate records of the reimbursement numbers that apply to their products.</li> <li>■ Seller assigns GTINs to their products, and a GLN as required for data synchronisation via their GDSN Data Pool</li> <li>■ Buyer assigns GLNs as required for data synchronisation via their GDSN Data Pool</li> <li>■ Trading Partners subscribe to a GDSN data pool</li> <li>■ The supplier and the customer have an established business relationship and have agreed to synchronise data via the GDSN, including reimbursement numbers</li> <li>■ Basic information such as the Trading Partner GLNs and GTINs have been provided to each other as needed to enable data synchronisation</li> </ul>																											
<b>Post conditions</b>	Accurate product identification information and all associated reimbursement code information is provided to the customer and available in their internal system as the first point of reference to be used when reimbursement claims are made.																											
<b>Scenario</b>	<p><b>Begins when...</b> the manufacturer records in their internal Master Data Management system the appropriate product data needed by this specific Use Case.</p> <p><b>Continues with...</b> the seller is ready to load their product and company data in their GDSN data pool</p> <table border="1" data-bbox="454 1220 1444 1792"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Seller</td> <td>Provides the appropriate data to their GDSN data pool</td> </tr> <tr> <td>2</td> <td>Source Data Pool</td> <td>A small subset of this data is registered in the GS1 Global Registry</td> </tr> <tr> <td>3</td> <td>Buyer</td> <td>The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry</td> </tr> <tr> <td>4</td> <td>GS1 Global Registry</td> <td>Sends a subscription request to the source GDSN data pool</td> </tr> <tr> <td>5</td> <td>Seller</td> <td>Authorises the publication of the requested information</td> </tr> <tr> <td>6</td> <td>Source Data Pool</td> <td>The seller's data pool publishes the requested information to the buyer's data pool</td> </tr> <tr> <td>7</td> <td>Recipient Data Pool</td> <td>The buyer's data pool publishes the data to the Data Recipient</td> </tr> <tr> <td>8</td> <td>Data Recipient</td> <td>The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information</td> </tr> </tbody> </table> <p><b>Ends when...</b> the customer (data recipient) uses the GTINs and reimbursement codes specified in GDSN for their reimbursement claims.</p>	Step #	Actor	Activity Step	1	Seller	Provides the appropriate data to their GDSN data pool	2	Source Data Pool	A small subset of this data is registered in the GS1 Global Registry	3	Buyer	The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry	4	GS1 Global Registry	Sends a subscription request to the source GDSN data pool	5	Seller	Authorises the publication of the requested information	6	Source Data Pool	The seller's data pool publishes the requested information to the buyer's data pool	7	Recipient Data Pool	The buyer's data pool publishes the data to the Data Recipient	8	Data Recipient	The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information
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## 2.6 Regulated Product Formulations and Target Markets

<b>Use Case ID</b>	UC-6																											
<b>Use Case Name</b>	Regulated Product Formulations and Target Markets																											
<b>Objective</b>	Ensure the correct relationship between the GTIN (actual products on market) and the product formulations registered with a specific regulator.																											
<b>Use Case Description</b>	Often a supplier will gain regulatory authority to sell a range of pack size combinations and formations of a particular product within a given market. Generally not all of these regulated / authorised pack sizes and formations are released in that market. It is important for that regulatory authority to have a record of the pack sizes and formations actually being sold in a market for recall and traceability purposes.																											
<b>Actors (Goal)</b>	Seller, Buyer, GDSN Data Pool, GS1 Global Registry																											
<b>Performance Goals</b>	<i>To be defined by each organisation according to their internal, or industry agreed, metrics</i>																											
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>■ Seller assigns GTINs to their products, and a GLN as required for data synchronisation via their GDSN Data Pool</li> <li>■ Regulator is a registered GDSN data recipient (and takes on the role of 'buyer' in this use case)</li> <li>■ Buyer assigns GLNs as required for data synchronisation via their GDSN Data Pool</li> <li>■ Trading Partners subscribe to a GDSN data pool</li> <li>■ The supplier and the customer have an established business relationship and have agreed to synchronise data via the GDSN</li> <li>■ Basic information such as the Trading Partner GLNs and GTINs have been provided to each other as needed to enable data synchronisation. This information includes reference to regulatory numbers applicable to the market in which the regulator functions.</li> <li>■ An agreement is in place that GDSN is the mechanism by which suppliers will communicate to the regulator the authorised product configurations for sale in a given market.</li> </ul>																											
<b>Post conditions</b>	The buyer / regulator uses the GDSN data to match the product configurations regulated for sale in a particular market with the actual products being sold.																											
<b>Scenario</b>	<p><b>Begins when...</b> the manufacturer records in their internal Master Data Management system the appropriate product data needed by this specific Use Case.</p> <p><b>Continues with...</b> the seller is ready to load their product and company data in their GDSN data pool</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Step #</th> <th style="width: 20%;">Actor</th> <th style="width: 70%;">Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Seller</td> <td>Provides the appropriate data to their GDSN data pool</td> </tr> <tr> <td>2</td> <td>Source Data Pool</td> <td>A small subset of this data is registered in the GS1 Global Registry</td> </tr> <tr> <td>3</td> <td>Buyer</td> <td>The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry</td> </tr> <tr> <td>4</td> <td>GS1 Global Registry</td> <td>Sends a subscription request to the source GDSN data pool</td> </tr> <tr> <td>5</td> <td>Seller</td> <td>Authorises the publication of the requested information</td> </tr> <tr> <td>6</td> <td>Source Data Pool</td> <td>The seller's data pool publishes the requested information to the buyer's data pool</td> </tr> <tr> <td>7</td> <td>Recipient Data Pool</td> <td>The buyer's data pool publishes the data to the Data Recipient</td> </tr> <tr> <td>8</td> <td>Data Recipient</td> <td>The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information</td> </tr> </tbody> </table> <p><b>Ends when...</b> the regulator (data recipient) uses the GTINs and regulatory codes specified in GDSN for match the product configurations regulated for sale in a particular market with the actual products being sold</p>	Step #	Actor	Activity Step	1	Seller	Provides the appropriate data to their GDSN data pool	2	Source Data Pool	A small subset of this data is registered in the GS1 Global Registry	3	Buyer	The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry	4	GS1 Global Registry	Sends a subscription request to the source GDSN data pool	5	Seller	Authorises the publication of the requested information	6	Source Data Pool	The seller's data pool publishes the requested information to the buyer's data pool	7	Recipient Data Pool	The buyer's data pool publishes the data to the Data Recipient	8	Data Recipient	The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information
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<b>Use Case ID</b>	UC-7																														
<b>Use Case Name</b>	Logistics																														
<b>Objective</b>	Provide accurate dimensions and weights for warehousing and hospital storage optimisation.																														
<b>Use Case Description</b>	Hospitals and other health facilities are finding that storage areas in pharmacy and general stores, as well as operating theatres among other areas are being reduced as more space is claimed for patient facilities. As such, optimisation of available storage space is critical. GDSN is being used to provide accurate weights and dimensions for storage, handling and warehousing purposes.																														
<b>Actors (Goal)</b>	Seller, Buyer, GDSN Data Pool, GS1 Global Registry																														
<b>Performance Goals</b>	<i>To be defined by each organisation according to their internal, or industry agreed, metrics.</i>																														
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>■ Seller assigns GTINs to their products, and a GLN as required for data synchronisation via their GDSN Data Pool</li> <li>■ Buyer assigns GLNs as required for data synchronisation via their GDSN Data Pool</li> <li>■ Trading Partners subscribe to a GDSN data pool</li> <li>■ The supplier and the customer have an established business relationship and have agreed to synchronise data via the GDSN, including reimbursement numbers</li> <li>■ Basic information such as the Trading Partner GLNs and GTINs have been provided to each other as needed to enable data synchronisation</li> </ul>																														
<b>Post conditions</b>	Accurate product identification information and product weights / dimensions are provided to the customer and available in their internal system as the reference to be used by their warehouse management system.																														
<b>Scenario</b>	<p><b>Begins when...</b> the manufacturer records in their internal Master Data Management system the appropriate product data needed by this specific Use Case.</p> <p><b>Continues with...</b> the seller is ready to load their product and company data in their GDSN data pool</p> <table border="1" data-bbox="454 1133 1444 1800"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Seller</td> <td>Provides the appropriate data to their GDSN data pool</td> </tr> <tr> <td>2</td> <td>Source Data Pool</td> <td>A small subset of this data is registered in the GS1 Global Registry</td> </tr> <tr> <td>3</td> <td>Buyer</td> <td>The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry</td> </tr> <tr> <td>4</td> <td>GS1 Global Registry</td> <td>Sends a subscription request to the source GDSN data pool</td> </tr> <tr> <td>5</td> <td>Seller</td> <td>Authorises the publication of the requested information</td> </tr> <tr> <td>6</td> <td>Source Data Pool</td> <td>The seller's data pool publishes the requested information to the buyer's data pool</td> </tr> <tr> <td>7</td> <td>Recipient Data Pool</td> <td>The buyer's data pool publishes the data to the Data Recipient</td> </tr> <tr> <td>8</td> <td>Data Recipient</td> <td>Reviews dimensions and weights provided by supplier to ensure these align with current records and identifies any discrepancies.</td> </tr> <tr> <td>9</td> <td>Data Recipient</td> <td>The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information</td> </tr> </tbody> </table> <p><b>Ends when...</b> the customer (data recipient) uses the identification, weights and measures provided in GDSN as their primary source of logistics and warehousing information.</p>	Step #	Actor	Activity Step	1	Seller	Provides the appropriate data to their GDSN data pool	2	Source Data Pool	A small subset of this data is registered in the GS1 Global Registry	3	Buyer	The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry	4	GS1 Global Registry	Sends a subscription request to the source GDSN data pool	5	Seller	Authorises the publication of the requested information	6	Source Data Pool	The seller's data pool publishes the requested information to the buyer's data pool	7	Recipient Data Pool	The buyer's data pool publishes the data to the Data Recipient	8	Data Recipient	Reviews dimensions and weights provided by supplier to ensure these align with current records and identifies any discrepancies.	9	Data Recipient	The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information
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77 **2.8 Logistics for Distribution Channel**

<b>Use Case ID</b>	UC-8																														
<b>Use Case Name</b>	Logistics for Distribution Channel																														
<b>Objective</b>	Provide accurate product hierarchy information, pack size information, dimensions and weights to allow effective distribution function.																														
<b>Use Case Description</b>	Distributors and suppliers need to understand the pack configurations, relationships and weights / dimensions of the products they handle to ensure that their warehouse operations are seamless. Having incorrect information about a product pack size may mean that an order for 10 items may in fact contain 12. Alternatively, the entity packing a logistics unit may have an incorrect weight for a product meaning that the logistics unit packed is too heavy for the transport provider to handle.																														
<b>Actors (Goal)</b>	Seller, Buyer, GDSN Data Pool, GS1 Global Registry																														
<b>Performance Goals</b>	<i>To be defined by each organisation according to their internal, or industry agreed, metrics.</i>																														
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>■ Seller assigns GTINs to their products, and a GLN as required for data synchronisation via their GDSN Data Pool</li> <li>■ Buyer assigns GLNs as required for data synchronisation via their GDSN Data Pool</li> <li>■ Trading Partners subscribe to a GDSN data pool</li> <li>■ The supplier and the customer have an established business relationship and have agreed to synchronise data via the GDSN, pack size, hierarchy and dimensions / weight information.</li> <li>■ Basic information such as the Trading Partner GLNs and GTINs have been provided to each other as needed to enable data synchronisation</li> </ul>																														
<b>Post conditions</b>	Accurate product identification information and product weights / dimensions as well as pack size / pack hierarchy are provided to the customer and available in their internal system as the reference to be used by their warehouse management system.																														
<b>Scenario</b>	<p><b>Begins when...</b> the manufacturer records in their internal Master Data Management system the appropriate product data needed by this specific Use Case.</p> <p><b>Continues with...</b> the seller is ready to load their product and company data in their GDSN data pool</p> <table border="1" data-bbox="454 1211 1442 1877"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Seller</td> <td>Provides the appropriate data to their GDSN data pool</td> </tr> <tr> <td>2</td> <td>Source Data Pool</td> <td>A small subset of this data is registered in the GS1 Global Registry</td> </tr> <tr> <td>3</td> <td>Buyer</td> <td>The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry</td> </tr> <tr> <td>4</td> <td>GS1 Global Registry</td> <td>Sends a subscription request to the source GDSN data pool</td> </tr> <tr> <td>5</td> <td>Seller</td> <td>Authorizes the publication of the requested information</td> </tr> <tr> <td>6</td> <td>Source Data Pool</td> <td>The seller's data pool publishes the requested information to the buyer's data pool</td> </tr> <tr> <td>7</td> <td>Recipient Data Pool</td> <td>The buyer's data pool publishes the data to the Data Recipient</td> </tr> <tr> <td>8</td> <td>Data Recipient</td> <td>Reviews dimensions and weights provided by supplier to ensure these align with current records and identifies any discrepancies.</td> </tr> <tr> <td>9</td> <td>Data Recipient</td> <td>The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information</td> </tr> </tbody> </table> <p><b>Ends when...</b> the customer (data recipient) uses the identification, weights and measures provided in GDSN as their primary source of logistics and warehousing information.</p>	Step #	Actor	Activity Step	1	Seller	Provides the appropriate data to their GDSN data pool	2	Source Data Pool	A small subset of this data is registered in the GS1 Global Registry	3	Buyer	The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry	4	GS1 Global Registry	Sends a subscription request to the source GDSN data pool	5	Seller	Authorizes the publication of the requested information	6	Source Data Pool	The seller's data pool publishes the requested information to the buyer's data pool	7	Recipient Data Pool	The buyer's data pool publishes the data to the Data Recipient	8	Data Recipient	Reviews dimensions and weights provided by supplier to ensure these align with current records and identifies any discrepancies.	9	Data Recipient	The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information
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78 **2.9 Unique Device Identifier (UDI)**

<b>Use Case ID</b>	UC-9
<b>Use Case Name</b>	Unique Device Identifier (UDI)
<b>Objective</b>	To leverage the GDSN and the use of a Data Pool to register data as an efficient mechanism and trusted source of data for multiple UDI databases, worldwide.
<b>Use Case Description</b>	<p>Unique Device Identification will improve patient safety and business processes and requires an investment by manufacturers, providers and other organisations. A single, global system of standards and a reliable mechanism to provide product data is fundamental to enable an efficient and effective implementation of UDI by all stakeholders worldwide.</p> <p>Different regulators will operate individual databases. These databases will be operated independently of each other and may not contain the same “data elements” (may vary in number and /or definition).</p> <p>By using their GDSN connection, product data will flow from the manufacturer’s internal database to their GDSN data pool and then to the UDI database. This same approach is already used to provide product data to Providers and health authorities in many jurisdictions. The GDSN can serve both needs.</p> <p>This Use Case includes two possible scenarios for the use of the GDSN as a data feed for UDI databases plus an additional scenario for a Provider to subscribe to UDI data published by a manufacturer in the GDSN.</p> <ul style="list-style-type: none"> <li>▪ <b>Regulator Scenario 1:</b> This scenario includes how to use the GDSN as a data feed for a UDI database when a Regulator chooses not to subscribe to a GDSN data pool, such as the U.S FDA and the GUDID. This scenario makes use of the GDSN Third Party Data policy to push data to a UDI database with the authorisation and instructions from the manufacturer who is the owner of the product and source of the data. The data will only be provided to the UDI database indicated by the Data Source (manufacturer). The GDSN Trading Partner Service Agreement (TPSA) will need to be signed by the data source and provided to their data pool. Without this agreement in place the data cannot be provided to a third party (e.g. a UDI database)</li> <li>▪ <b>Regulator Scenario 2:</b> This scenario includes how a Regulator can subscribe to a GDSN data pool and pull data into their UDI data base. In this scenario they will synchronise data as a traditional data recipient within the GDSN.</li> <li>▪ <b>Provider Scenario 1:</b> This scenario illustrates how a Provider can use the GDSN to subscribe to a Manufacturer’s UDI data via a GDSN data pool. It functions the same way as the normal GDSN Publication and Subscription choreography.</li> </ul> <p>All scenarios ensure that the Manufacturer, as the Data Source, maintains control of how, and to whom, their data is provided by their data pool. One of the main benefits of using the GDSN as a UDI data feed is that it provides a single connection through which data is shared and updated, regardless of the data recipient.</p>
<b>Actors (Goal)</b>	<p>Manufacturer, Source Data Pool, UDI Data Recipient (Regulator responsible for the UDID), GS1 Global Registry</p> <p>Provider Scenario 1, additional Actors: Buyer (Provider), Recipient Data Pool</p>
<b>Performance Goals</b>	<i>To be defined...</i>



Use Case ID	UC-9																											
<b>Regulator Scenario 2</b>	<p>This scenario covers the UDID Regulator subscribing to a GDSN Data Pool</p> <table border="1" data-bbox="456 327 1442 952"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Manufacturer (Seller)</td> <td>Provides the appropriate device product data to their GDSN data pool</td> </tr> <tr> <td>2</td> <td>Source Data Pool</td> <td>A subset of this data is registered in the GS1 Global Registry</td> </tr> <tr> <td>3</td> <td>UDI Data Recipient</td> <td>The UDI Data Recipient through its own data pool sends a subscription request to the GS1 Global Registry</td> </tr> <tr> <td>4</td> <td>GS1 Global Registry</td> <td>Sends a subscription request to the Source GDSN data pool</td> </tr> <tr> <td>5</td> <td>Manufacturer</td> <td>Authorises the publication of the requested information</td> </tr> <tr> <td>6</td> <td>Source Data Pool</td> <td>The manufacturer's data pool publishes the requested information to the UDI Data Recipient's Data Pool</td> </tr> <tr> <td>7</td> <td>Recipient Data Pool</td> <td>The UIDD Data Recipient's data pool publishes the data to the Data Recipient</td> </tr> <tr> <td>8</td> <td>UDI Data Recipient</td> <td>The UDI Data Recipient sends a confirmation message to the seller via each other's data pool Note: Check with the appropriate regulator for specific information.</td> </tr> </tbody> </table>	Step #	Actor	Activity Step	1	Manufacturer (Seller)	Provides the appropriate device product data to their GDSN data pool	2	Source Data Pool	A subset of this data is registered in the GS1 Global Registry	3	UDI Data Recipient	The UDI Data Recipient through its own data pool sends a subscription request to the GS1 Global Registry	4	GS1 Global Registry	Sends a subscription request to the Source GDSN data pool	5	Manufacturer	Authorises the publication of the requested information	6	Source Data Pool	The manufacturer's data pool publishes the requested information to the UDI Data Recipient's Data Pool	7	Recipient Data Pool	The UIDD Data Recipient's data pool publishes the data to the Data Recipient	8	UDI Data Recipient	The UDI Data Recipient sends a confirmation message to the seller via each other's data pool Note: Check with the appropriate regulator for specific information.
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<b>Provider UDI Scenario 1</b>	<p>This scenario outlines a Provider receiving a manufacturer's UDI data via a GDSN Data Pool. This scenario is designed to function through the regular GDSN publication and subscription choreography.</p> <table border="1" data-bbox="456 1066 1442 1664"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Manufacturer (seller)</td> <td>Provides the appropriate device product data to their GDSN data pool</td> </tr> <tr> <td>2</td> <td>Source Data Pool</td> <td>A subset of this data is registered in the GS1 Global Registry</td> </tr> <tr> <td>3</td> <td>Buyer</td> <td>The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry</td> </tr> <tr> <td>4</td> <td>GS1 Global Registry</td> <td>Sends a subscription request to the source GDSN data pool</td> </tr> <tr> <td>5</td> <td>Manufacturer</td> <td>Authorises the publication of the requested information</td> </tr> <tr> <td>6</td> <td>Source Data Pool</td> <td>The manufacturer's data pool publishes the requested information to the buyer's data pool</td> </tr> <tr> <td>7</td> <td>Recipient Data Pool</td> <td>The buyer's data pool publishes the data to the Data Recipient</td> </tr> <tr> <td>8</td> <td>Data Recipient</td> <td>The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information</td> </tr> </tbody> </table>	Step #	Actor	Activity Step	1	Manufacturer (seller)	Provides the appropriate device product data to their GDSN data pool	2	Source Data Pool	A subset of this data is registered in the GS1 Global Registry	3	Buyer	The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry	4	GS1 Global Registry	Sends a subscription request to the source GDSN data pool	5	Manufacturer	Authorises the publication of the requested information	6	Source Data Pool	The manufacturer's data pool publishes the requested information to the buyer's data pool	7	Recipient Data Pool	The buyer's data pool publishes the data to the Data Recipient	8	Data Recipient	The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information
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<b>Related Requirements</b>																												
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81 **2.10 Medicine Dispensing and Safety**

82 **Note:** The use case of Medicine Dispensing is included as an example to demonstrate the  
 83 importance of GDSN data in patient safety initiatives. It is understood that there are a range of  
 84 other use cases related to patient safety in which GDSN data is critical, these include:

- 85 ■ Scanning for product validation at point of use (e.g. in the operating theatre, patient bedside)
- 86 ■ Referencing of product information in the patient’s electronic health record

<b>Use Case ID</b>	UC-10
<b>Use Case Name</b>	Medicine Dispensing and Safety
<b>Objective</b>	<p>Ensure accurate, complete and up to date product information for validation of medicines (medications) at point of dispensing (which may be in the pharmacy or by any regulated healthcare provider).</p> <p><b>Note:</b> Identification of the caregiver and patient is out of scope for this particular Use Case.</p>
<b>Use Case Description</b>	The use case involves capturing the unique product identification (.e.g. scanning a bar code) and validation at the point of medicine (medication) dispensing. This process requires accurate data to be in the associated product database.
<b>Actors (Goal)</b>	Seller, Buyer, Healthcare Practitioner / Provider (.e.g. pharmacist, nurse, physician, or other regulated healthcare provider) GDSN Data Pool, GS1 Global Registry
<b>Performance Goals</b>	<p>To measure the effectiveness of:</p> <p>(1) Quantity - number of products dispensed to the number of times it was scanned;</p> <p>(2) Item Identification - accurately identifying and capturing the right medication was dispensed against the record in the pharmacy information system/ electronic medical record.</p>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>■ Seller assigns GTINs to their products’ primary and secondary package, and a GLN as required for data synchronisation via their GDSN Data Pool</li> <li>■ Buyer assigns GLNs as required for data synchronisation via their GDSN Data Pool</li> <li>■ Trading Partners subscribe to a GDSN data pool</li> <li>■ The supplier and the customer have an established business relationship and have agreed to synchronise data via the GDSN</li> <li>■ Basic information such as the Trading Partner GLNs and GTINs have been provided to each other as needed to enable data synchronisation</li> <li>■ An agreement has been made that GDSN data will provide the foundation for data capture for product validation at the time of medicines dispensing. Where the GDSN data does not meet all requirements for a regional or local area, then the regional requirements will need to be accommodated.</li> </ul>
<b>Post conditions</b>	Accurate and complete product information has been integrated in the Provider’s internal systems in order to enable scanning for dispensing of medicine and electronic prescription systems. The Provider’s pharmacy dispensing system has capability to hold the information provided by GDSN.

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<b>Scenario</b>	<p><b>Begins when...</b> the manufacturer records in their internal Master Data Management system the appropriate product data needed by this specific Use Case.</p> <p><b>Continues with...</b> the seller is ready to load their product and company data in their GDSN data pool</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #003366; color: white;">Step #</th> <th style="background-color: #003366; color: white;">Actor</th> <th style="background-color: #003366; color: white;">Activity Step</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Seller</td> <td>Provides the appropriate data to their GDSN data pool</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Source Data Pool</td> <td>A small subset of this data is registered in the GS1 Global Registry</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Buyer</td> <td>The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry</td> </tr> <tr> <td style="text-align: center;">4</td> <td>GS1 Global Registry</td> <td>Sends a subscription request to the source GDSN data pool</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Seller</td> <td>Authorises the publication of the requested information</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Source Data Pool</td> <td>The seller's data pool publishes the requested information to the buyer's data pool</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Recipient Data Pool</td> <td>The buyer's data pool publishes the data to the Data Recipient</td> </tr> <tr> <td style="text-align: center;">8</td> <td>Data Recipient</td> <td>The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information</td> </tr> </tbody> </table> <p><b>Ends when...</b> the Provider (data recipient) utilises the synchronised product data to scan to validate the product when dispensing medicines.</p>	Step #	Actor	Activity Step	1	Seller	Provides the appropriate data to their GDSN data pool	2	Source Data Pool	A small subset of this data is registered in the GS1 Global Registry	3	Buyer	The buyer, through its own data pool, sends a subscription request to the GS1 Global Registry	4	GS1 Global Registry	Sends a subscription request to the source GDSN data pool	5	Seller	Authorises the publication of the requested information	6	Source Data Pool	The seller's data pool publishes the requested information to the buyer's data pool	7	Recipient Data Pool	The buyer's data pool publishes the data to the Data Recipient	8	Data Recipient	The buyer sends a confirmation to the seller via each company's data pool, which informs the supplier of the action taken by the buyer using the information
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87 **3 Additional Requirements**

- 88 ■ Trading Partners must have a pre-established commercial relationship and have exchanged
- 89 necessary information about each other as needed in the process of conducting normal
- 90 business.
  
- 91 ■ Changes to internal processes and systems may be required. Consult with your appropriate
- 92 business unit owner and IT staff.
  
- 93 ■ The minimum set of GDSN mandatory attributes are required in order to facilitate data
- 94 synchronisation. For further information refer to the GDSN Trade Item Implementation Guide
- 95 <http://www.gs1.org/gdsn>
  
- 96 ■ For further information regarding this document or further information regarding GDSN in
- 97 healthcare please contact your local [GS1 Member Organisation](#).