

Certification Final Report
GDSN Item Authorisation
Second Quarter 2006 (2Q06)

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Disclaimer

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Test Participants

 <p>Agentrics</p> <p>http://www.agentrics.com/</p> <p>Data Pool Name: GenSync, v4.2.1</p>	 <p>1SYNC</p> <p>http://www.1sync.org/</p> <p>Product Name: Price and Promotion, v2.3</p>
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Certification Event Overview

Interoperability Test Summary

This is the first GDSN Item Authorisation Certification test. It involved two GDSN Certified Data Pools, Agentrics and 1SYNC, executing tests with each other during the two days of June 26 and 27. The GS1 Global Registry was not involved in testing. Agentrics and 1SYNC were able to execute all test criteria without error. The Item Authorisation messages exchanged were examined by Drummond Group to insure conformance to standards. Both Data Pools are certified conformant to the Item Authorisation standard and interoperable with each in exchanging Item Authorisation messages.

Both Data Pools executed each of the 4 Test Tasks listed below twice, once acting as a Supplier and the Supplier's Data Pool and then again as a Retailer and the Retailer's Data Pool. Test Tasks were designed by Drummond Group but similar in scope to the Data Pool requirements of the GDSN Item Authorisation Pilot.

About Item Authorisation

Item Authorisation is a GS1 GDSN standard for allowing trading partners to authorise items to be sold among trading partners within GDSN. Either the Retailer or Supplier creates the Item Authorisation message of given items (GTINs) for its trading partner, including multiple GLNs within the Trading Partner organization, then sends the message to the Trading Partner's Data Pool where the Trading Partner finally receives the message. The Trading Partner replies back through the same message path with an Item Authorisation Response indicating it if accepts or rejects the item authorisation.

The Data Pool is required to validate the Item Authorisation messages to schema and successfully transmit the message to the Trading Partner or the Trading Partner's Data Pool. Data Pools certified for Item Authorisation are not responsible for creating the Item Authorisation message as it is the Supplier/Retailer/User who has that responsibility.

The business requirements for Item Authorisation can be found at BRAD Align Item Authorisation document (vs. 0.0.2) dated January 11, 2005. The business messaging documentation is in BMS Align Item Authorisation (vs. 0.0.4) dated January 13, 2006. Both documents can be viewed through the GS1US eRoom or by contact GS1 GDSN.

Test Results Caveats

During testing, lessons were learned and decisions were made which were deemed important for the GDSN users to understand when interpreting these test results and using Item Authorisation within GDSN.

- Both Data Pools simulated a Retailer and Supplier user for the execution of the Certification Event. GDSN Users who use either Data Pool for Item Authorisation are responsible for creating and interpreting of Item Authorisation and Item Authorisation Response messages.
- The user choice of issuing an Item Authorisation Response of "ACCEPT" or "REJECT" for the item authorisation of an item is the sole discretion of the user. The Item Authorisation standard does not provide the scope for making these decisions. Data Pools do not fail Item Authorisation Response messages that contain a "REJECT" on an item authorisation and pass the message on to the user. Disagreements between trading partners on the response status of a "REJECT" must be handled off-line outside of the involved Data Pools.
- Item synchronisation is a pre-requisite for item authorisation. Users must not send Item Authorisation messages involving items which have not be synchronised with the GS1 Global Registry and GDSN. Data Pools certified for Item Authorisation are to reject Item Authorisation messages if the message contains item GTINs which have not been synchronized. However, this error scenario was not tested within Item Authorisation Certification as it was a test assumption that item synchronisation had already occurred.

Test Case Summary

Test Task #1

Overview: Authorizing Ten Items

Purpose: This test task confirms basic item authorisation.

Testing Assumption: Party and items synchronization has occurred.

Testing Procedure: For this test, Data Pools will execute with each test step as both SDP and RDP.

Test Step 1.1:

Description: Supplier generates IA message and authorizes GTINs 1–10 to Store–1. The Document Command value must be ADD or CHANGE BY REFRESH.

Confirm: Store–1 receives IA message with GTINs 1–10 with each GTIN having Authorisation Code of "AUTHORISE".

Verify: Both SDP and RDP email the IA messages to GDSN-Support.

Test Step 1.2:

Description: Store–1 returns IAR with response status of "ACCEPTED".

Confirm: Supplier receives IAR message with GTINs 1–10 with each GTIN having a response status of "ACCEPTED".

Verify: Both SDP and RDP email the IAR message to GDSN-Support.

Test Step 1.3:

Description: Supplier generates IA message and deauthorizes the 10 GTINs from 1.1 to Store–1.

Confirm: Store–1 receives IA message for with GTINs 1–10 with each GTIN having authorisation code of "DEAUTHORISE".

Verify: Both SDP and RDP email the IA message to GDSN-Support.

Test Step 1.4:

Description: Store–1 returns IAR with response status of "ACCEPTED".

Confirm: Supplier receives IAR message with GTINs 1–10 with each GTIN having a response status of "ACCEPTED".

Verify: Both SDP and RDP email the IAR message to GDSN-Support.

Test Task #2

Overview: Authorizing 1 Item with all Item Authorisation Fields

Purpose: This test task confirms ability to use all optional fields in Item Authorisation.

Testing Assumption: Party and items synchronization has occurred.

Testing Procedure: For this test, each Data Pool will execute with each test step as both SDP and RDP.

Test Step 2.1:

Description: Supplier generates IA message and authorizes GTIN 21 to Store–1. All optional fields in the IA message are populated.

Confirm: Store–1 receives IA message with GTIN 21 having Authorisation Code of "AUTHORISE".

Confirm: Receiver–1 recognizes all optional fields and does not fail in validating them.

Verify: Both SDP and RDP email the IA messages to GDSN-Support.

Test Step 2.2:

Description: Store–1 returns IAR with response status of "ACCEPTED". All optional fields in the IAR message are populated.

Confirm: Supplier receives IAR message with GTIN 21 with each GTIN having a response status of "ACCEPTED".

Confirm: Supplier recognizes all optional fields and does not fail in validating them.

Verify: Both SDP and RDP email the IAR message to GDSN-Support.

Test Task #3

Overview: Authorizing Items to 5 Stores

Purpose: This test task confirms capability of authorising one item to five different stores.

Testing Assumption: Party and items synchronization has occurred.

Testing Procedure: For this test, each Data Pool will execute with each test step as both SDP and RDP.

Test Step 3.1:

Description: Supplier generates IA message and authorizes GTIN 22 to Store-1, Store-2, Store-3, Store-4 and Store-5.

Confirm: RDP receives IA message for Store-1, Store-2, Store-3, Store-4 and Store-5 for GTIN 22 having Authorisation Code of "AUTHORISE".

Verify: Both SDP and RDP email the IA messages to GDSN-Support.

Test Step 3.2:

Description: Store-1, Store-2, Store-3, Store-4 and Store-5 returns IAR with response status of "ACCEPTED".

Confirm: Supplier receives IAR message from Store-1, Store-2, Store-3, Store-4 and Store-5 with GTIN 22 having a response status of "ACCEPTED".

Verify: Both SDP and RDP email the IAR message to GDSN-Support.

Test Step 3.3:

Description: Supplier generates IA message and deauthorizes GTIN 22 to Store-4 and Store-5.

Confirm: Store-4 and Store-5 receives IA message with GTIN 22 having authorisation code of "DEAUTHORISE".

Verify: Both SDP and RDP email the IA message to GDSN-Support.

Test Step 3.4:

Description: Store-4 and Store-5 returns IAR with response status of "ACCEPTED".

Confirm: Supplier receives IAR message from Store–4 and Store–5 with GTIN 22 having a response status of "ACCEPTED".

Verify: Both SDP and RDP email the IAR message to GDSN-Support.

Test Task #4

Overview: Demonstrating REJECT processing

Purpose: This test task confirms ability to reject item authorisation without prior item synchronisation.

Testing Assumption: Party and items synchronization has occurred.

Testing Procedure: For this test, Data Pools will execute with each test step as both SDP and RDP.

Test Step 4.1:

Description: Supplier generates IA message and authorizes GTINs 23–32 to Store–1.

Confirm: Store–1 receives IA message with GTINs 23–32 having Authorisation Code of "AUTHORISE".

Verify: Both SDP and RDP email the IA messages to GDSN-Support.

Test Step 4.2:

Description: Store–1 returns IAR with response status of "REJECTED" for GTINs 31 and 32 and response status of "ACCEPTED" for GTINs 23–30.

Confirm: Supplier receives IAR message with response status of "REJECTED" for GTINs 31 and 32 and response status of "ACCEPTED" for GTINs 23–30.

Verify: Both SDP and RDP email the IAR message to GDSN-Support.

About Drummond Group Inc.

Drummond Group Inc. (DGI) is an independent, privately held company that works with software vendors, vertical industries and the standards community to drive adoption for standards by conducting interoperability and conformance testing, publishing related strategic research and developing vertical industry strategies. Founded in 1999, DGI represents best-of-breed in the industry on linking horizontal infrastructure technologies, standards and interoperability issues with the needs of vertical industries such as retail, grocery, health care, transportation, government and automotive. For more information, please visit www.drummondgroup.com or email: info@drummondgroup.com.