BUREAU OF THE
Fiscal Service
U.S. DEPARTMENT OF THE TREASURY

G-Invoicing
GT&C Mod/Revert
(Planned Future Enhancement)
Version 1.0 – January 28, 2022
Objective:
- Allow revert of any changes made to a GT&C during a modification and return the GT&C to the previous open for orders or closed state
  - Option for GT&C Manager and Supervising Manager roles only
  - Available only to the partner that initiated the modification
    - Partner 2 has the option to reject the modification and allow Partner 1 to revert
- Allow Order maintenance during GT&C Mod

Changes needed:
1. Add Revert option to Pending Approval (modified) GT&Cs
2. Require Reason (gets cleared once document is moved to next state)
3. Capture audit but do not retain modification details
4. Order creation and modification conditionally allowed during GT&C Mod

What’s not changing:
- General GT&C create/approve/modify process flow (no state changes)
GT&C Mod/Revert Background

• Current G-Invoicing Design
  – Two sets of tables for GT&Cs: Active and Archive
  – The highest GT&C Modification Number is active
    • Previous Mod Numbers are archived (in open for orders, closed or rejected status)

• API Transition
  – Two partners and G-Invoicing must stay in sync
    • Example: Partner 1 wants to Revert, but Partner 2 cannot interpret that action
  – New API(s) will be backwards compatible
    • Use of new feature that might “break” a partner’s GT&C will be controlled through Feature Management
Revert GT&C to Previous Version

• Current functionality
  1. Partner 1 introduces modification to open for orders GT&C
  2. Partner 2 may reject the modification (with Reason)
  3. Partner 1 must then attempt to restore previous values
  4. Both partners must re-approve the GT&C

• New flows for GT&C
  – Allow initiating partner to Revert a pending approval GT&C to the previous open for orders or closed version (with Reason)
    • Accessible to GT&C Manager and Supervising Manager roles only
    • Revert to previous Mod number “n-1”
    • Set the Last Update Date/Time
    • Reprocessing Reason is required for Revert action
  – Both partners must be able to handle the action (i.e., Feature Flags = Yes)
  – UI will show previous version (i.e., the target for the Revert)
  – Abandoned version is audited but not viewable or recoverable
Ordering During GT&C Modification

• Relax validation rules for Order requests while GT&C is being reapproved
  – Ordering will be allowed when all three conditions are met:
    a) GT&C Mod is pending approval
    b) Previous Modification Number (n -1) is open (REC status)
    c) Feature flag for ‘GTC Mod’ is Yes for both partners
      o Both partners must be able to handle this action
  – **Note: Ordering is still allowed when active GT&C is open**

• Flow of GT&C modification remains the same
  – G-Invoicing will validate the GT&C with each UI approval
Implementation Details

• The following slides document what needs to be changed in published G-Invoicing specifications in order to implement this new feature

• Implementation details are provided so that:
  – Product Owner(s) can confirm detailed business requirements
  – Development team(s) can visualize changes needed to support new features

• At this time, we cannot predict when development of this feature will begin, when it will be released into QA or Production, or in which release it will be included

• When the time comes to begin work on these features, the details will be added to the specifications, a release will be targeted, and API specifications will be republished

• One of the implementation details described below is a move from XML to JSON payloads for APIs involving GT&Cs, Orders and Performance
  – Future (post-mandate) APIs will only support JSON payloads
    • Note: Newer APIs (e.g., Pull Org, Remittance) are already in JSON format
Changes to FIDS

• GT&C Federal Intragovernmental Data Standards
  – New data element to capture Reprocessing Reason
    • Definition: Explanation for an action that moves a document back to a prior version or status, including instructions on if/how to correct the document for reprocessing.
    • reprocessingReason (JSON), 1024 characters

  Note: This one data element will cover multiple Reprocessing Reasons, such as Return (for GT&C and Orders), Revert (for GT&C and Orders), and Reverse (for EZ).

  – New data element to capture Modification Reason
    • Definition: Explanation for a change to a versioned document (e.g., Order), significant enough to warrant reapproval of the document.
    • modificationReason (JSON), 1024 characters
Changes to SM&VR

- GT&C System Mapping and Validation Rules
  - Document new Revert action to go from Pending to Open status
    - Mod Number must be > 0
  - Add new data element (row) to capture Reprocessing Reason
    - Required for Revert action
  - Add new data element (row) to capture Modification Reason
    - Required for modification
# Version History

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<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Release</th>
<th>Description</th>
</tr>
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<tr>
<td>v0.1</td>
<td>8/21/2021</td>
<td>TBD</td>
<td>Original version</td>
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<tr>
<td>v0.2</td>
<td>10/29/2021</td>
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<td>Added detailed specifications</td>
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<tr>
<td>v0.3</td>
<td>11/4/2021</td>
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<td>Add GT&amp;C state diagram and initiating partner revert rule</td>
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<td>Draft of first published version for G-Invoicing website</td>
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<tr>
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<td>Added FIDS page, including Reason codes</td>
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