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)

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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**

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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 <u>pending approval</u> 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

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- 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

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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*

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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

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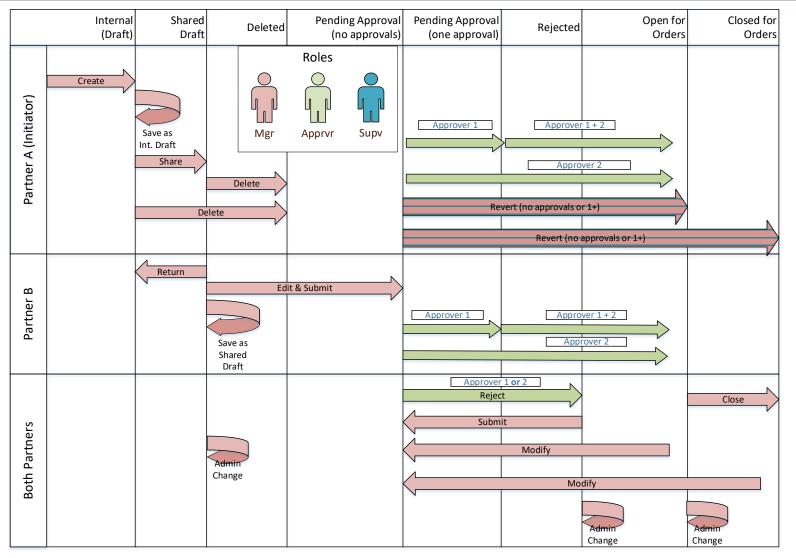
Changes to SM&VR

- 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

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GT&C State Diagram

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Version History

Version	Date	Release	Description
v0.1	8/21/2021	TBD	Original version
v0.2	10/29/2021	TBD	Added detailed specifications
v0.3	11/4/2021	TBD	Add GT&C state diagram and initiating partner revert rule
v0.4	11/5/2021	TBD	Add initiating partner revert rule
v0.5	1/10/2022	TBD	Draft of first published version for G-Invoicing website
v0.6	1/27/2022	TBD	Added FIDS page, including Reason codes
v0.7	1/28/2022	TBD	First published version on G-Invoicing website

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