



Grade Crossing Inventory System (GCIS)

Release v2.2.0.0 (11/13/15)

Release Notes

This document is intended for Railroad, Transit, and State users. The following items will be released on Friday, November 13, 2015:

1. Online Form (Web User Interface (UI))

- a. Part I.1 Primary Operating Railroad, I.15 Parent RR, and I.16 Crossing Owner: When a Railroad selects 'Change in Primary Operating RR' from Item C in the Header, the user will have the ability to update only the following fields: Part I.1 Primary Operating Railroad, I.15 Parent RR, and I.16 Crossing Owner. All other fields will be excluded from submission.
- b. Part I.16 Crossing Owner: Will be updated to a drop-down list populated with the Railroad and Company Names and their associated codes from the centralized authoritative data source maintained by FRA for Safety related applications.
- c. Part II.4 Type and Count of Tracks: The system will check if the sum of II.1.A Total Day Thru Trains and II.1.B Total Night Thru Trains is greater than zero (0), if it is, then the sum of the values in Part II.4 Type and Count of Tracks (Main, Siding, Yard, Transit, and Industry) must be greater than zero (0). Users will no longer receive an error if 'Main Track' is zero (0) and the sum of Part II.1.A and Part II.1.B is greater than zero (0).
- d. Part III.2.J Other MUTCD Signs: Users will now have the ability to enter values from 1 to 99 for the count of Other MUTCD Signs.
- e. Part IV.5 Installation Date: Will now allow values to be entered where MM is between 01 and 12. Users will no longer receive an error when MM/YYYY is entered in the correct format.

2. FRA Approved Excel Template (used for the File Upload feature)

- a. Blank values will now be treated as null values. Users will enter the value, (X), (i.e. Open Parenthesis, the letter X, Closed Parenthesis) to indicate the removal of a value from open text fields.
- b. The file names are updated to reflect the following published version:
 - i. Railroad/Transit Users:
 - Grade Crossing Inventory Form Template RR_Full_Inventory_Record v2.2.0.0 Rel 11-13-2015.xlsx
 - Grade Crossing Inventory Form Template RR_Data_Only v2.2.0.0 Rel 11-13-2015.xlsx
 - ii. State Users:
 - Grade Crossing Inventory Form Template State v2.2.0.0 Rel 11-13-2015.xlsx

3. Data Validation



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- a. Part I.12 RR Milepost: The system will no longer validate when State users are performing updates.
- b. Part I.35 State Contact: Validation will be turned off for this field when Railroad users are performing updates where Part I.17 Crossing Type is Private.
- c. Part III.2.D Advance Warning Signs: Validation for this field will be updated; users will no longer receive an error if any of the checkboxes are checked and a count greater than zero (0) has been provided.
- d. Part III.2.J Other MUTCD Signs: Validation for this field will be updated; users will no longer receive an error if 'No' is selected for 'Other MUTCD Signs' and 'Specify Type' and 'Count' are both null.
- e. Part V.7 Annual Average Daily Traffic (AADT): Validation for this field will be updated; users will no longer receive an error when the year is entered in the correct format (YYYY).
- f. Parts III-V, when Railroad/Transit users submit updates for Public Highway At-Grade Crossings, the validation rules will be updated to only validate the required fields, which can be found in Appendix B-1 to B-4 of the FRA Guide for Preparing U.S. DOT Crossing Inventory Forms, Revised March 5, 2015. Leaving a non-required field blank will no longer trigger a validation error. However, the system will still validate data that is provided for any fields that are not required within Parts III-V. Furthermore, if data within the system triggers a cross-field validation, the system will still continue to validate all related fields to ensure accuracy of data. To summarize, users can leave non required fields blank but if they choose to submit data, the system will check against both the single field and cross field validation rules. This change also impacts how users submit data using the Excel spreadsheet upload capability. Blank cells in the spreadsheet will now be treated as null values and will not overwrite existing data. A user must enter the value, (X), (i.e. Open Parenthesis, the letter X, Closed Parenthesis) to indicate the removal of a value from the field.

4. Public & Secure API

- a. The GET request will now include a property for the fields 'Quiet Zone' and 'Date Established' when users are requesting crossing information.
- b. New properties will be added to the GET request to provide additional lookup values to allow users to query the following:
 - i. Timetable Station
 - ii. Latitude/Longitude
 - iii. Company Codes and Names
- c. The Submission ID returned when a user is submitting an update will be changed to provide a unique ID between all submissions.



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5. Documentation Inventory

- a. The table below lists all current versions of documents located in the GCIS:

Document Name	Document Version	Last Updated Date
GCIS Web User Guide v2.2.0.0 Rel 11-13-2015	3.0	11/13/2015
GCIS Data Dictionary External Use v2.2.0.0 Rel 11-13-2015	2.0	11/13/2015
GCIS Data Migration Strategy v2.2.0.0 Rel 11-13-2015	2.1	11/13/2015
GCIS Electronic Submissions Instructions v2.2.0.0 Rel 11-13-2015	3.0	11/13/2015
Grade Crossing Inventory Form Template RR_Data_Only v2.2.0.0 Rel 11-13-2015	2.1	11/13/2015
Grade Crossing Inventory Form Template RR_Full_Inventory_Record v2.2.0.0 Rel 11-13-2015	2.1	11/13/2015
Grade Crossing Inventory Form Template State v2.2.0.0 Rel 11-13-2015	2.1	11/13/2015

6. Documentation Change

- a. GCIS Data Dictionary for External Use:
- i. On page 9, field III.2.J OthSgn2 was changed to numeric (2,0) for type.
 - ii. On page 9, field III.2.J OthSgn3 was changed to numeric (2,0) for type.
- b. FRA Instructions for Electronic Submission of U.S. DOT Crossing Inventory Data:
- i. On page 7, Table 3.2-1 was updated to include additional query string on how to query for the following values using the GET request:
 - Railroad Codes and Names
 - Company Codes and Names
 - Timetable Stations
 - Latitude and Longitude
 - ii. On page 8 – 9, Section 4.1 Updating Crossings, was updated to include the following:
 - Blank values will be treated as null values. Users will enter the value, (X), (i.e. Open Parenthesis, the letter X, Closed Parenthesis) to indicate the removal of a value from the field.
 - iii. On page 19, Appendix A, under the Single-field Data Validation Rules column, the rows for III.2.J OthSgn1, OthSgn2, and OthSgn3 were updated as follows:

Valid Value: 1 to 99



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- iv. On page 39, Appendix B-1, under the Cross-field Data Validation Rules column, the row for II.4 MainTrk was updated to include additional related fields and the new rule as follows:

Related Fields: MAINTRK, SIDINGTRK, YARDTRK, TRANSITTRK, INDUSTRYTRK, DAYTHRU, NGHTTHRU, XSURFACEIDS

If Through Train Movement count (DAYTHRU + NIGTTHRU) is greater than 0 (Zero), then the sum of the values in II.4 Type and Count of Tracks (MAINTRK, SIDINGTRK, YARDTRK, TRANSITTRK, and INDUSTRYTRK) must also be greater than 0 (Zero).

- v. On page 42, Appendix B-1, under the Cross-field Data Validation Rules column, the row for III.2.F PaveMrkIDs was updated as follows:

If Highway Paved (HWYPVED) is 2 (No), then Pavement Marking (PAVEMRKIDS) must be 0 (None).

If Highway Paved (HWYPVED) is 1 (Yes), then Pavement Marking (PAVEMRKIDS) must be 0, 1, 2 or 3.

- vi. On page 42 – 43, Appendix B-1, under the Single-field Data Validation Rules column, the rows for III.2.J OthSgn1, OthSgn2, and OthSgn3 were updated as follows:

Valid Value: 1 to 99

- vii. On page 48, Appendix B-1, under the Cross-field Data Validation Rules column, the row for IV.2 HwyPved was updated as follows:

Related Field: PAVEMRKIDS (III.2.F)

If Pavement Marking (PAVEMRKIDS) is not blank, then Highway Paved (HWYPVED) must not be blank.

c. GCIS Web User Guide:

- i. On Page 18-19, Figure 15 was updated to reflect Part I.15 Crossing Owner as a drop-down list
- ii. On Page 20, Figure 18 was updated to reflect Part I.15 Crossing Owner as a drop-down list
- iii. On Page 29, Figure 28 was updated to reflect Part I.15 Crossing Owner as a drop-down list
- iv. On Page 56, Figure 61 was updated to reflect new files names
- v. On Page 57, Figure 62 was updated to include a new link labeled as:
Release Date: 11/13/2015 – Version #2.2.0.0