



Grade Crossing Inventory System (GCIS)
Release v2.10.1.0 (04/30/2020)
Release Notes

GCIS Release Notes
GCIS v2.10.1.0 (04/30/2020)

This document is intended for Railroad and State GCIS application users. The following items are for GCIS 2.10.1.0 release on April 30, 2020.

1. Web Form/Online Application, API Data Submissions, and FRA Approved Excel Templates File Data Upload.

- a. The GCIS application handles Part II, Daily Train Movement data, in the web form, so that: IF the user enters greater than 0 in at least one of the daily train movements field items, then the system automatically disables Part II. 1.E entries (in the web form), in the backend data it stores 2 in LT1Mov and Null value in WeekTrnMov (Part II. 1.E).

This applies to Railroad updates to at-grade crossings records. This does not apply to grade-separated crossings.

- b. The GCIS application handles Part II, Daily Train Movement data, so that, in the web form: IF the user enters 0 in each entry of daily train movements field items (Part II 1A – Part II 1.D.) then the system enables the entry of Part II.I. E (in the web form). It automatically marks the Check If Less than One Movement Per Day (in the web form) (on backend data it shows ‘1’ in LT1Mov). The system expects the user to enter weekly train count greater than 0. If the weekly train count is not reported or it is reported as 0, then it prompts with a validation error.

This applies to Railroad updates to at-grade crossing records. This does not apply to grade-separated crossings. This case does not apply to Reason for Update is “No Train Traffic”.

- c. The GCIS application handles Part II, Daily Train Movement data, so that: IF Reason for Update is “No Train Traffic” (in the web form) ("ReasonId": 24), GCIS automatically changes the following values:
 - (1) Sets all daily train movement counts (II.1.A,B,C, and D) to “0”
 - (2) Sets Less than Movement per Day to be 1
 - (3) Sets weekly train movement count (II.1.E) to “0”
 - (4) Sets Speed fields (II.3, II.3A, II.3B) to “0”
 - (5) Sets “Year of Train Count Data” II.2 (YearTrnMov) to current year.



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- d. A change was made in the message, in GCIS web form, that may pop up next to the Highway Contact field, which has been revised to read: “This field is mandatory for new public crossings only”

2. Data Validation

- a. GCIS validation processing was changed for data related to Crossing Inventory Form’s I.35 State Contact (Telephone No). The change to validation requirements are for State Contact (Hwycont) to be optional in GCIS processing, for private crossings. The validation should only apply to the Railroad.
- b. Data validation issue has been resolved related to Crossing Inventory Form’s “Intersecting Roadway within 500 Feet? If yes, approximate distance.” (Part IV.6) (HwyNear, HwyNDist). The validation criteria was modified, to also allow for no value to be the data for HwyNDist, for the case of: If intersecting Roadway is not within 500 feet, then the approximate distance is optional, meaning can be blank or a value from 501 to 2,500 feet. This change is reflected in the wording of the related validation error.
- c. In GCIS 2.10.1.0, the validations for HwyNear, HwyNDist, and HwySys, are applied to new crossings. GCIS will process data for these three fields as mandatory for new public [highway] at-grade for open status crossings, and optional (valid data values or blank) for all other type of crossings (private) and public grade separated.

3. Other GCIS Functionality/Other Changes

- a. GCIS Release 2.10.1.0 fixes the issue of Delegated GCIS Account User, not being able to publish full form Inventory records, on behalf of their delegating operating railroad(s). This fix currently only applies to the full (“Major”) form.
- b. GCIS 2.10.1.0 functionality for handling Pending Records, is modified based on the following table “Pending Records Access Table” to determine which agencies can access, Save/Submit, or just Save, to a pending record.



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PENDING RECORDS ACCESS TABLE:

Creating User of a Pending GCIS Record, and the Accessing User of the Pending Record

| | | Creating User | | | | |
|----------------|-----------------|---------------|--------------|-----------------|---------|-----------|
| | | Railroad | Delegated RR | Delegated State | State | FRA |
| Accessing User | Railroad | Publish | Publish | Save | Save | No Access |
| | Delegated RR | Publish | Publish | Save | Save | No Access |
| | Delegated State | Save | Save | Publish | Publish | No Access |
| | State | Save | Save | Publish | Publish | No Access |
| | FRA | Publish | Publish | Publish | Publish | Publish |

- c. With GCIS 2.10.1, pending records that are older than 7/1/2019, may become cancelled.
- d. When an Agency (e.g. Railroad) submits an update to a Pending record created by a different agency (e.g., State), via xlsx upload, or API submission, GCIS may return a 900 code (An unhandled exception error has been logged to the ApplicationErrors file. Please resubmit the data for this crossing. Review "Unhandled Errors" on the Reports tab or contact FRA if you have questions regarding this error). This 900 error, if generated because there is a “Pending” record created by another Agency, may be found, in the GCIS “Reports” tab, under GCIS Unhandled Errors (e.g., “There is a pending record initiated on [Date] by [Agency Name]. Your changes have been posted to this pending record. Please contact this agency for their review and submission of this pending record before attempting additional changes”).

4. Issues related to this Release, that may still need to be fixed:

- a. In GCIS 2.10.1.0, Railroads may not be able to publish Railroad Data Only data (i.e., Railroad “short” (“Minor” web form), but only may be able to save their updates to the short form.
- b. GCIS validation Error 047 may need to be re-worded to indicate for Field II.1.E: If the sum of daily train counts (II.1.A + II.1.B + II.1.C + II.1.D) is 0, then "Less Than One Movement per Day" must be SELECTED ("Lt1Mov": "1") and count of trains per week should be 1-999. This error does not apply to “No Train Traffic”.
- c. For Excel Template uploads, and API submissions, which update Daily Train Movement data to have greater than 0 in at least one of the daily train movements fields, GCIS may need to be fixed in the future, for some updates, to be certain that GCIS is storing Null value in WeekTrnMov (Part II. 1.E). This is described in the below paragraphs:



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GCIS is to process Excel Template uploads, and API submissions, which update Daily Train Movement data to have greater than 0 in at least one of the daily train movements fields, to handle LT1Mov and WeekTrnMov (Part II. 1.E), similar to the web form. However, instead of disabling Part II.E, GCIS is to provide validation error messages as appropriate, and/or is to automatically store 2 in LT1Mov and Null values in WeekTrnMov (Part II. 1.E)

For approved Excel Template uploads, and API submissions, which update Daily Train Movement data, to be 0 in each entry of daily train movements fields, GCIS is to handle LT1Mov and WeekTrnMov (Part II. 1.E), similar to the web form. GCIS is to provide validation error messages, as appropriate, and/or automatically store 1 in LT1Mov and expect a value greater than 0 in WeekTrnMov (Part II. 1.E).

This applies to Railroad updates to at-grade crossing records. This does not apply to grade-separated crossings. This case does not apply to Reason for Update is “No Train Traffic”.

5. Future Planning

There is planned feature to allow GCIS to cancel Pending records that are over a certain amount of days. This planned feature includes attempting to notify the GCIS user that the Pending record(s) may be cancelled within a specified time frame. This effort is in progress.

6. Documentation Inventory

The table below lists version updates of documents for the GCIS Reference Documents*

| Document Name | Version | Date |
|--|---------|------------|
| GCIS Web User Guide v2.10.1.0 Rel 04-30-2020 | 10.1 | 04/30/2020 |
| GCIS Data Dictionary for External Use v2.10.1.0 Rel 04-30-2020 | 10.1 | 04/30/2020 |
| GCIS Data Migration Strategy v2.10.1.0 Rel 04-30-2020 | 10.1 | 04/30/2020 |
| GCIS Electronic Submissions Instructions v2.10.1.0 Rel 04-30-2020 | 10.1 | 04/30/2020 |
| Grade Crossing Inventory Form Template RR_Data_Only v2.10.1.0 Rel 04-30-2020 | 10.1 | 04/30/2020 |
| Grade Crossing Inventory Form Template RR_Full_Inventory_Record v2.10.1.0 Rel 04-30-2020 | 10.1 | 04/30/2020 |
| Grade Crossing Inventory Form Template State v2.10.1.0 Rel 04-30-2020 | 10.1 | 04/30/2020 |

*The Reference Documents are being updated to reflect the current GCIS Release number and date. Additional changes have been updated in the GCIS Electronic Submissions Instructions Guide.



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7. Documentation Changed

- a. GCIS Electronic Submissions Instructions v2.10.1.0 Rel 04-30-2020

See document's "Revision Summary" for a list of changes.