**DA DIS User Verification**

**Requirement Document**

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| **Template Revisions** | **Date** | **Change** |
| V1.0 | 06/26/2013 | Initial Version |
| V1.1 | 07/11/2013 | Modified with suggestions from Review |
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# 1. Requirement Overview

Data Analytics Data Import System (DIS) User Verification screen is the interface through which the user manages to correct and update the failed data before it is finally imported into the RMA database.

## Assumptions and Constraints

The key features of this enhancement are as follows:

* This enhancement will be implemented in RMA 15.1 and higher versions..

## Current Scenario

The DIS application does not support the User Verification functionality.

## Proposed Scenario

The DA DIS Optionset window will contain a User Verification checkbox which indicates if User Verification is to occur during the scheduled DA DIS job. The DA DIS job will read the import file, assign global variables and validate the data. After the Validation data flows are completed, a user diary will be sent to the user who scheduled the DA DIS job when the User Verification checkbox is selected. At this point the job stage will remain at Stage 2(Unique Code stage). When the User Verification checkbox is not selected the DA DIS job will continue to the Import Data workflow and the job stage will change to Stage 4(Import Stage).

The user diary will contain a link to the User Verification screen. The user will open the diary and select the link to launch the User Verification screen. The User Verification screen will display all records by default. Selecting the View All Data radio button will display all DA DIS records for the particular job. When the Edit Failed Rows button is selected, the user can modify the failed records. The user can select a row to modify and correct the data on the screen. When the Edit Failed Rows button is selected, the columns on the selected record will be enabled. The user will be able to modify any of the columns. After modifications are complete, the user will click on the Resume Task button. The data is stored in the DA\_RMX\_STAGING database.

The Resume Task button when selected will resume the DA DIS job. The job will continue with Stage 2(Unique Code workflow). The Unique code workflow will generate new code ids from the temporary tables in the DA\_RMX\_STAGING database which contain the modified short codes. The Validation workflow will then execute and validate the failed records in the DA\_RMX\_STAGING database including the records modified on the User Verification screen. If there are records that are still not valid, a user diary will be created and sent to the user. This process will continue until all records are valid or the Stop Verification checkbox is selected.

The Stop Verification checkbox on the User Verification screen indicates if the user wants to stop the verification process. By default the checkbox will not be selected. When the Stop Verification checkbox is not selected, the DA DIS job will validate the modified data from the User Verification screen. If invalid records exist after the Validation workflow is complete, then a user diary will be created and sent to the user. The job Stage will remain as Stage 2. The user must verify the data prior to the job continuing. This process will continue as long as there are invalid records or the Stop Verification checkbox is selected.

When the Stop Verification checkbox is selected, the DA DIS job will immediately continue processing to Stage 4 (import workflow) after the Validation Stage (stage 3) and import the valid records. The invalid records will be written to the DA DIS Error Log. A user diary will not be sent to the user when the Stop Verification checkbox is selected. The user needs to schedule a new DIS job to process the remaining invalid records.

## Functions to be addressed

The key features of this enhancement are as follows:

* Ability to view the invalid data.
* Ability to view the valid data.
* Ability to correct the invalid data before importing.
* Ability to send the diary to RMA user when the user verification option is selected on the DA DIS Optionset window.
* Ability to resume the task with/without stopping verification.
* Ability to re-validate the failed data on resuming the task.
* Set the job status to User Verification.

# Requirement

## Functional Considerations

DA DIS Optionset window:

Add a new checkbox on the DIS optionset screen which allows users to perform the validation through User Verification screen.

User Verification screen:

The User Verification screen will be invoked through a link from the User diary.

The User Verification screen will consist of:

1. A radio button to view all the records.
2. A radio button to view all the failed records.
3. A drop down list showing the list of all the DIS Import areas.
4. A drop down list showing the list of all tables in DA\_RMX\_STAGING database. This list will be filtered on the basis of import area selected.
5. A grid to display and edit the records.
6. A richtextbox to display the row error summary.
7. A Stop Verification checkbox to stop sending diary to the user and processing to continue to the Import Stage.
8. A Resume Task button to resume the DA DIS job. The button will always be enabled. The user does not need to make modifications to the data to resume the task. The validation workflow will always be processed when the Resume Task button is selected.

The User Verification screen will display all failed records by default. Selecting the View All Data radio button will display all DA DIS records for the particular job. When the Edit Failed Rows button is selected, the user can modify the failed records. The user can select a row to modify and correct the data on the screen. After modifications are complete, the user must select the Resume Task button to resume the DA DIS job. Data does not have to be modified to resume the task.

The Stop Verification checkbox indicates if the user wants to stop verification. When the checkbox is not seleted, a diary will be sent to the user when invalid records exist after the Validation Stage. At this point the DA DIS job status will be set to User Verification and the user must verify the data prior to the job continuing. This process will continue as long as there are invalid records.

When the Stop Verification checkbox is selected, the DA DIS job will immediately continue processing to the Import Stage (Stage 4) after the Validation Stage (Stage 3). Valid records will be imported and invalid records will be written to the DA DIS Error Log.

DA DIS EXE:

DA DIS EXE needs to be modified to check if the user verification option is selected on the DA DIS Optionset window. If it is selected , a Job Status of ‘Pending User Verification’ must be set else the job status shows ‘Completed’ or ‘Completed with Validation errors’.

The EXE needs to be modified to read the Job Stage from Statistics table of Staging database. On the basis of the job stage, the job status will be changed from 3 to 4 in the DA Template when the User Verification option is not selected or the Stop Verification option is selected on resuming the task from User Verification screen.

The job stage will also determine the clearing of Staging tables. The Staging tables will not get cleared when the job stage is 2.

DA DIS TEMPLATE:

The DA DIS Template will be modified to create a new workflow- the Unique Code workflow which will grab the exisiting code ids from the temporary tables and also create new code ids when the corresponding checkbox is selected on the Optionset screen. The DA DIS Template will process the Unique Code workflow followed by Validation workflow when the Resume Task button is selected on the User Verification screen.

The DA DIS Template will be modified to send a user diary when the Stop Verification checkbox is not selected on the User Verification screen after the Validation workflow is complete. The job will halt and wait for the user verification. The DA DIS Template will continue processing to Stage 4, the Import Workflow, when the Validation workflow is complete and all the records are valid. When the Stop Verification checkbox is selected, the DA DIS Template will continue processing to Stage 4, the Import Workflow, when the Validation Workflow is complete. Valid records will be imported. Invalid records will be written to the DA DIS Error Log. A user diary will not be sent to the user.

The Job Stage will be saved in the Statistics table of Staging database. Same JOB ID will be used for all the stages. Log files will not be over-written. Existing log files should be opened for “append” and not create new files.

DOCUMENTATION:

Update DA Template User Guide with details on how User Verification works.

Update DA DIS Field Mapping document.

## Design Considerations

Due to the potentially sensitive nature of imported data, only the user who scheduled the DA DIS job will be able to perform view/edit tasks on the failed validations.

## Interface Considerations

### System Interfaces

To support the view/edit step, a database interface will be established with the database used to store initial data load and post-validation data.

### Hardware Interfaces

No new hardware interfaces or changes to existing hardware interfaces are needed for this requirement.

### Software Interfaces

DA DIS Template and DA DIS exe needs to be updated.

DA DIS EXE needs to be modified to check if the user verification option is selected on the DA DIS Optionset window. If it is selected, a Job Status of ‘Pending User Verification’ must be set else the job status shows ‘Completed’ or ‘Completed with Validation errors’.

The Staging tables will not get cleared if the user verification option is selected on the DA DIS Optionset window.

DA DIS Template needs to be updated with functionality for resuming the task.

DA DIS Template needs to be updated with functionality for re-verifying the data.

Log files will not be over-written. Existing log files should be opened for “append” and not create new files.

### User Interfaces

The DA DIS Optionset window and the User Verification screen will be modified with the requirements identified in this document.

## Performance Considerations

Functional delivery exit criteria do not include performance testing. Performance testing requirements will be defined, where applicable, as part of the RISKMASTER 15.1 Performance test plan.

# Dependencies between Requirements

Because there is only one requirement that comprises this functional delivery, there are by definition no dependencies on other requirements.

# Approach

The DA DIS Optionset window will contain a User Verification checkbox which indicates if User Verification is to occur during the scheduled DA DIS job. The DA DIS job will read the import file, assign global variables and validate the data. After the Validation data flows are completed, a user diary will be sent to the user who scheduled the DA DIS job when the User Verification checkbox is selected. At this point the job stage will remain at Stage 2(Unique Code stage). When the User Verification checkbox is not selected the DA DIS job will continue to the Import Data workflow and the job stage will change to Stage 4(Import Stage).

The user diary will contain a link to the User Verification screen. The user will open the diary and select the link to launch the User Verification screen. The User Verification screen will display all records by default. Selecting the View All Data radio button will display all DA DIS records for the particular job. When the Edit Failed Rows button is selected, the user can modify the failed records. The user can select a row to modify and correct the data on the screen. When the Edit Failed Rows button is selected, the columns on the selected record will be enabled. The user will be able to modify any of the columns. After modifications are complete, the user will click on the Resume Task button. The data is stored in the DA\_RMX\_STAGING database.

The Resume Task button when selected will resume the DA DIS job. The job will continue from Stage 2. The Unique code workflow will generate new code ids from the temporary tables in the DA\_RMX\_STAGING database which contain the modified short codes. The Validation workflow will then validate the failed records in the DA\_RMX\_STAGING database including the records modified on the User Verification screen. If there are records that are still not valid, a valid user diary will be created and sent to the user. This process will continue until all records are valid or the Stop Verification checkbox is selected.

The Stop Verification checkbox indicates if the user wants to stop the verification process. By default the checkbox will not be selected. When the Stop Verification checkbox is not selected, the DA DIS job will validate the modified data from the User Verification screen. If invalid records exist after the Validation workflow is complete, then a user diary will be created and sent to the user. The job Stage will remain as Stage 2. The user must verify the data prior to the job continuing. This process will continue as long as there are invalid records or the Stop Verification checkbox is selected.

When the Stop Verification checkbox is selected, the DA DIS job will immediately continue processing to Stage 4 (import workflow) after the Validation Stage (stage 3) and import the valid records. The invalid records will be written to the DA DIS Error Log. A user diary will not be sent to the user when the Stop Verification checkbox is selected. The user needs to schedule a new DIS job to process the remaining invalid records.

# Signoff

**The signatures below represent approval and signoff of the requirements and approaches as listed above.**

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Reviewer(s) Date

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Testing Lead Date

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Program Manager Date

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Development Manager Date

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Hosting Manager Date

Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# References

* DA DIS Overall Process Requirement Document

# Requirement Change Log

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| --- | --- | --- | --- | --- |
| Date | Change # | Requirement # Revised | Nature of Revision | Initials |
| 6/26/2013 | V1.0 |  | Initial version |  |
| 07/11/2013 | V1.1 |  | Modified with suggestions from Review | Jmericle |
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