

Master Reference Table
Data Steward Web Application

Requirements Summary

Maintenance

Release 6

Version 0.2

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1. High Level Requirements

This document defines the various Master Reference Table (MRT) Data Steward Application high level requirements for Maintenance Release 6. Release 6 fulfills many requirements:

- Conformance with various Information Bulletins
- Correction of user reported defects
- Addition of user requested enhancements

The details of the individual requirements and how Maintenance Release 6 fulfilled these requirements follows.

1.1 Transition from RSA to Eclipse

FSA is setting a target date of October 1, 2010 to transition all Java Platform Enterprise Edition (J2EE) development work to the Eclipse development environment. Effective immediately, Eclipse (as part of the software distribution package) is considered the recommended tool for developing Web application. To fulfill this requirement the following actions were taken:

1.1.1 Develop Code and Perform Unit Testing Using Eclipse (FES 3.0)

Code development and unit testing for the Maintenance Release 6 was done under the Eclipse (FES 3.0) IDE using the Subversive plug-in for version control.

1.2 Migrate from ClearCase to SubVersion (SVN) Source Control Technology

Per IB-174 – Source Code Repository, September 30, 2010 is the target date for all applications to be migrated to Subversion. To fulfill this requirement the following actions were taken:

1.2.1 Manually Copy MRT Data Steward Code Base from ClearCase to SubVersion(SVN)

The MRT development team will create a project in SVN following the Maven project structure and then manually copy the MRT Data Steward code base from ClearCase into the project created in SVN.

1.3 Adopt FSA Build Process and Associated Technologies

The FSA build process automates application builds and formalizes the management of source code in order to ensure build repeatability and minimize the chances for human error. To ensure application quality the automated build process provides for automated testing and quality report frameworks. To fulfill the requirement of adopting the FSA build process the following technologies and processes were adopted:

1.3.1 Maven

Maven is an industry standard tool used in the FSA Build Process. It builds the EAR file and provides dependency management. Dependencies are managed by a pom.xml file. The MRT Data Steward application project was first reorganized following the Maven standard directory layout. pom.xml files were then created for the MRT Data Steward application and used in the build process.

1.3.2 Junit /EMMA

Junit tests which mainly test the business layer of the MRT Data Steward application were created in the previous maintenance release. These test cases were relocated to the appropriate test directories and are executed as part the build process with the results appearing on EMMA reports. Although the application is currently below the target coverage level of 70%, no additional test cases were created in this release. Further test case development will take place in a subsequent release.

1.3.3 PMD

The PMD tool is incorporated into the FSA Automated Build process. The tool scans source code for coding violations and assigns a severity code to them on a scale of 1 to 5. Level 1 and 2 violations are considered critical. Quality reports produced by the build process initially identified 19 level 2 violations for the MRT Data Steward application. The violations mainly pertain to unnecessary instantiation of Boolean values and operations on objects that could potentially be null. These violations will be cleaned up as part of this release. Level 3 through level 5 violations will be addressed in a subsequent release.

1.3.4 Hudson

Build and release jobs were created in Hudson for the MRT Data Steward application. Hudson will be used to monitor builds and create MRT Data Steward application releases.

1.3.5 Review and Apply IB-0105 – Application Build Naming Standards

The naming and deployment standards described in IB-0005 – Application Build Naming Standards will be adhered to for maintenance release 6. The procedures for creating TCO releases using Maven will be followed.

1.4 Automate Application Diagnostics per IB-0141

Effective July 1, 2009 any applications in the production WebSphere 6.1 environment shall adhere to the diagnostic standards outlined in “IB-0141 – J2EE Application Diagnostic Standards” or have an approved waiver. Currently the MRT Data Steward application has a waiver in place with July 31, 2010 listed as the compliance target date.

TCO recorded 2 defects for the previous maintenance release that are related to IB-0141.

- MRTWI Web MRTWI 00186002 - Diagnostic page missing per IB-141
- MRTWI Web MRTWI 00186006 - IB-141 compliance for URL's.

The following pages were added to bring the application up to full compliance with IB-0141, resolve the 2 previously recorded UAT defects and eliminate the need for the current waiver:

1.4.1 Diagnostic Page

A diagnostic page with detailed diagnostic information about the state of the MRT Data Steward application was added. This page is intended for review by operations personnel. Only USDA personnel that have the "FSA_Diagnostic_User" eAuth role will be able to access the diagnostic page.

Diagnostic page location: <domain name>/mrt/DataSteward/monitoring/test.

1.4.2 Health Check Page

A health check page was added. The health check page can be parsed by automated tools to determine if all checks on MRT Data Steward application resources succeed for a given server. Only USDA personnel that have the "FSA_Diagnostic_User" eAuth role will be able to access the health check page. Automated monitoring tools will be able to directly access the page bypass eAuth.

Health check page location: <domain name>/ mrt/DataSteward/monitoring/healthcheck

1.4.3 Connectivity Check Page

A connectivity check page was added. Automated tools will connect to the connectivity check page in order to ensure that external users can connect to the MRT application as expected. Monitoring tools will directly access this page vial a public URL so it will not be locked down via eAuth.

Connectivity check page location: <domain name>mrt/DataSteward/connectcheck/test.html

1.5 Implement Logging and Exception Handling Standards per IB-144

Effective December 1, 2009, any J2EE applications deployed to production must adhere to the standards outlined in IB-144, Logging and Exception Handling Standards, or have an approved waiver. The following modifications were made to bring the application into compliance with IB-144:

1.5.1 Convert from Properties File to XML

Per IB-144, the log4j configuration file should be an XML format file rather than a .properties file. To fulfill this requirement, the MRT Data Steward log4j.properties file was converted an XML format and relocated to the root of the EAR file.

1.5.2 Reconfigure Log File Sizes

Per IB-144, the log file should be no larger than 15 MB and the total combined size of all log files should not exceed 300 MB for an EAR file. To fulfill this requirement, the size of

the log file was reduced from 20 MB to 15 MB and the number of backup files, including the current log file, was reduced from 50 to 20 for a grand total of 300 MB.

1.6 Migrate to EAS 3.0 Shared Libraries

Currently the MRT Data Steward JNDI entry for EAS points to the EAS 3.0 web service endpoint; however the MRT Data Steward application still contains the old EAS 2 jars and does not reference the EAS 3.0 shared libraries. Removal of the EAS 2 jars and migration to the EAS 3.0 Shared Libraries needs to be done as part of Release 6.

1.6.1 Remove EAS 2 JARS and Replace with References to EAS Shared Libraries

Old (EAS 2.x) client JAR files were removed from the MRT Data Steward application. The application web.xml was then updated to reference the new AuthFilter initialization parameter eas.auth.client.servicetype. Upon deployment to the WebSphere environment, the application was configured to reference the EAS shared libraries:

- EASSERVICES-3.0
- CITSO_Shared-1.0

1.7 Resolve 508 Compliance Defects

TCO performed preliminary 508 compliance testing for maintenance release 5 and recorded several defects (MRTWI Web MRTW 00186330 - 508 Compliance Testing). A 508 compliance waiver was obtained listing July 31, 2010 as the compliance target date. To resolve the 508 compliance defects, the following actions were taken:

1.7.1 Correct Labeling and Id Failures

TCO's 508 compliance testing identified Paragraph N failures for non-unique ids and also for labels associated with more than one id. Research revealed that these errors were mainly typographical in nature and they were corrected.

1.7.2 Provide Unique Ids and Labels for Radio Buttons

The majority of Section 508 Paragraph A and N failures were caused by the radio buttons on the MRT list selection pages. These radio buttons are used to select a list item for display. Per 508 compliance guidelines, radio button selections require unique html labels and ids. This was not the case for the radio buttons on the MRT list pages. The MRT list pages were modified so that each radio button has a unique html label and id.

1.8 External Partner Enhancements and Defect Resolution

Implement External Partner enhancements and resolve outstanding defects in order to improve efficiency and make it easier for the users to enter External Partner information. The modifications include removing all persistent broker layer code and correcting the State

dropdown list sort order on the External Partner Address pages. To fulfill this requirement the following actions were taken:

1.8.1 Remove Persistent Broker Layer Code

Release 2a and prior of the application included a persistent broker layer, according to the previous FSA design standards. Per IB-0137 Reference Architecture 3.1 a persistent broker layer is no longer needed. The use of Plain Old Java Objects (POJOs) in persistent layer of the External Partner code can be eliminated to improve efficiency and better conform to FSA Reference Architecture standards. To fulfill this requirement the following actions were taken:

Removed the External Partner persistent broker layer of code and created a Hibernate session pool.

1.8.2 Correct State Dropdown List Sort Order

On the External Partner Address pages, the sort order of the State dropdown list is by state name rather than state abbreviation causing some of the abbreviations to be out of order. The sort order was changed to state abbreviation on the following pages to correct this situation:

- Add External Partner Address Information
- Change External Partner Address Information

1.9 Disaster County Enhancements and Defect Resolution

Implement Disaster County enhancements and resolve outstanding defects in order to improve efficiency and make it easier for the users to enter Disaster County information. The modifications include adding the Data Status Indicator fields and associated logic to the Disaster Declaration pages and changing the field name Initial Funding Percentage on the Disaster Area pages to the more business appropriate name of Initial Federal Funding Percentage.

1.9.1 Add Data Status Indicator to Disaster County Pages

The Data Status Indicator field was recently added to the Internal_Disaster_Declaration_MRT table. The field indicates whether a disaster is active or not. The Disaster County pages must allow the user to view and update the Data Status Indicator field. In order to fulfill this requirement, the following actions were taken:

1.9.1.1 Modify Add Disaster Declaration Logic

No visible changes were made to the Add Disaster Declaration page. However, the Data Status Indicator field will be set to the default value of "Y" when a Disaster Declaration is added.

1.9.1.2 Modify View Disaster Declaration Page

A field labeled "Active?" was added to the View Disaster Declaration Page to display the value of the Data Status Indicator.

1.9.1.3 Modify Change Disaster Declaration Page

A radio button field labeled "Active?" with "Yes" and "No" options was added to the Change Disaster Declaration Page. The field is used to display and modify the value of the Data Status Indicator.

1.9.2 Change Field Name to Initial Federal Funding Percentage

Currently the Disaster Area pages display the field name Initial Funding Percentage. The following actions were taken to implement the use of the more business appropriate field name of Initial Federal Funding Percentage:

1.9.2.1 Modify Disaster Area Pages

The Add, View, Change and Delete area pages were updated to display the field label as "Initial Federal Funding %".

1.9.2.2 Review and Modify Error Messages

Error messages were reviewed and updated to refer to the field as Initial Federal Funding Percentage.

1.10 Interest Rate Enhancements and Defect Resolution

Implement Interest Rate enhancements and resolve outstanding defects in order to improve efficiency and make it easier for the users to enter Interest Rate information. The modifications include displaying the name of the Latest Last Update User on the Interest Rate Pages and enhancing the sort on the Interest Rate Status page:

1.10.1 Display Name of Latest Last Update User on Interest Rate Pages

Currently the Interest Rate pages display the 23 digit eAuth id in the Last Update User field in all cases. The eAuth id should display only if the last update user's first and last name are unavailable in Business Party. Otherwise, the first and last name should display in the Last Update User field. When more than one database record is involved in the display, take the user name information from the record with the most recent last changed date. To fulfill these requirements the following action was taken:

1.10.1.1 Modify Interest Rate Pages

The Interest Rate Approval, Request Delete, Approve Delete, Change and Approve Change pages were modified to display last update user's first and last name if available.

1.10.2 Enhance Interest Rate Status Page Sort Function

The user friendliness of the Interest Rate Status Page sort function could be improved. The following deficiencies exist:

- Default sort order is Interest Rate Type Identifier rather than Interest Rate Type Name
- User selected Sort Column and Sort Order criteria do not redisplay after Interest Rate update
- The order of the list is not maintained after Interest Rate update functions are preformed

The following actions were taken to correct these deficiencies:

1.10.2.1 Establish Interest Rate Type Name as Default Sort Order

The default sort order for the initial display of the Interest Rate Status List was changed to the more user friendly Interest Rate Type Name ascending sort order.

1.10.2.2 Include Interest Rate Type Name as a Secondary Sort Field

In order to maintain a more constant and logical sort order, sorting logic was modified to include Interest Rate Type Name ascending as a secondary sort field when the user selects Latest Rate, Latest Rate Start Date, Latest Rate End Date, Latest Rate Publish Date or Rate Status as the Sort Column.

1.10.2.3 Maintain Sort Order after Interest Rate Update

The logic that redisplay the Interest Rate Status List after the Add, Approve, Request Delete and Approve Delete update functions was modified to redisplay the user selected Sort Column and Sort Order and to display the list in the order specified by the sort selection criteria.

1.11 Congressional District Defect Resolution

To resolve a defect involving the Change Congressional District function, the following action was taken:

1.11.1 Correct Change Congressional District Logic

Currently the Congressional District Name and Category fields do not update if the user attempts to change them on the Change Congressional District page when the Congressional District status is inactive. The change logic was modified to allow update of the fields regardless of the Congressional District's status.

Document Revision History

Date	Version	Summary of Change	Author
7/26/2010	1.0	Initial Creation	HP – Janet Stinson
10/7/2010	2.0	Updated to include: <ul style="list-style-type: none"><li data-bbox="505 449 980 506">• Disaster Declaration Enhancements and Defect Resolution<li data-bbox="505 520 899 548">• Correct Interest Rate Status Sort<li data-bbox="505 562 980 590">• Congressional District Defect Resolution	HP – Janet Stinson

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The following pages were added to bring the application up to full compliance with IB-0141, resolve the 2 previously recorded UAT defects and eliminate the need for the current waiver:

1.4.1 Diagnostic Page

A diagnostic page with detailed diagnostic information about the state of the MRT Data Steward application was added. This page is intended for review by operations personnel. Only USDA personnel that have the "FSA_Diagnostic_User" eAuth role will be able to access the diagnostic page.

Diagnostic page location: <domain name>/mrt/DataSteward/monitoring/test.

1.4.2 Health Check Page

A health check page was added. The health check page can be parsed by automated tools to determine if all checks on MRT Data Steward application resources succeed for a given server. Only USDA personnel that have the "FSA_Diagnostic_User" eAuth role will be able to access the health check page. Automated monitoring tools will be able to directly access the page bypass eAuth.

Health check page location: <domain name>/ mrt/DataSteward/monitoring/healthcheck

1.4.3 Connectivity Check Page

A connectivity check page was added. Automated tools will connect to the connectivity check page in order to ensure that external users can connect to the MRT application as expected. Monitoring tools will directly access this page vial a public URL so it will not be locked down via eAuth.

Connectivity check page location: <domain name>mrt/DataSteward/connectcheck/test.html

1.5 Implement Logging and Exception Handling Standards per IB-144

Effective December 1, 2009, any J2EE applications deployed to production must adhere to the standards outlined in IB-144, Logging and Exception Handling Standards, or have an approved waiver. The following modifications were made to bring the application into compliance with IB-144:

1.5.1 Converted from Properties File to XML

Per IB-144, the log4j configuration file should be an XML format file rather than a .properties file. To fulfill this requirement, the MRT Data Steward log4j.properties file was converted an XML format and relocated to the root of the EAR file.

1.5.2 Reconfigured Log File Sizes

Per IB-144, the log file should be no larger than 15 MB and the total combined size of all log files should not exceed 300 MB for an EAR file. To fulfill this requirement, the size of

the log file was reduced from 20 MB to 15 MB and the number of backup files, including the current log file, was reduced from 50 to 20 for a grand total of 300 MB.

1.6 Migrate to EAS 3.0 Shared Libraries

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1.6.1 Remove EAS 2 JARS and Replace with References to EAS Shared Libraries

Old (EAS 2.x) client JAR files were removed from the MRT Data Steward application. The application web.xml was then updated to reference the new AuthFilter initialization parameter `eas.auth.client.servicetype`. Upon deployment to the WebSphere environment, the application was configured to reference the EAS shared libraries:

- EASSERVICES-3.0
- CITSO_Shared-1.0

1.7 Resolve 508 Compliance Defects

CO performed preliminary 508 compliance testing for maintenance release 5 and recorded several defects (MRTWI Web MRTW 00186330 - 508 Compliance Testing). A 508 compliance waiver was obtained listing July 31, 2010 as the compliance target date. To resolve the 508 compliance defects, the following actions were taken:

1.7.1 Correct Labeling and Id Failures

TCO's 508 compliance testing identified Paragraph N failures for non-unique ids and also for labels associated with more than one id. Research revealed that these errors were mainly typographical in nature and they were corrected.

1.7.2 Provide Unique Ids and Labels for Radio Buttons

The majority of Section 508 Paragraph A and N failures were caused by the radio buttons on the MRT list selection pages. These radio buttons are used to select a list item for display. Per 508 compliance guidelines, radio button selections require unique html labels and ids. This was not the case for the radio buttons on the MRT list pages. The MRT list pages were modified so that each radio button has a unique html label and id.

1.8 External Partner Enhancements and Defect Resolution

Implement External Partner enhancements and resolve outstanding defects in order to improved efficiency and make it easier for the users to enter External Partner information. The modifications include removing all persistent broker layer code and correcting the State

dropdown list sort order on the External Partner Address pages. To fulfill this requirement the following actions were taken:

1.8.1 Remove Persistent Broker Layer Code

Release 2a and prior of the application included a persistent broker layer, according to the previous FSA design standards. Per IB-0137 Reference Architecture 3.1 a persistent broker layer is no longer needed. The use of Plain Old Java Objects (POJOs) in persistent layer of the External Partner code can be eliminated to improve efficiency and better conform to FSA Reference Architecture standards. To fulfill this requirement the following actions were taken:

Removed the External Partner persistent broker layer of code and created a Hibernate session pool.

1.8.2 Correct State Dropdown List Sort Order

On the External Partner Address pages, the sort order of the State dropdown list is by state name rather than state abbreviation causing some of the abbreviations to be out of order. The sort order was changed to state abbreviation on the following pages to correct this situation:

- Add External Partner Address Information
- Change External Partner Address Information

1.9 Add Data Status Indicator to Disaster County Pages

The Data Status Indicator field was recently added to the Internal_Disaster_Declaration_MRT table. The field indicates whether a disaster is active or not. The Disaster County pages must allow the user to view and update the Data Status Indicator field. In order to fulfill this requirement, the following actions were taken:

1.9.1 Modify Add Disaster Declaration Logic

No visible changes were made to the Add Disaster Declaration page. However, the Data Status Indicator field will be set to the default value of "Y" when a Disaster Declaration is added.

1.9.2 Modify View Disaster Declaration Page

A field labeled "Active?" was added to the View Disaster Declaration Page to display the value of the Data Status Indicator.

1.9.3 Modify Change Disaster Declaration Page

A radio button field labeled "Active?" with "Yes" and "No" options was added to the Change Disaster Declaration Page. The field is used to display and modify the value of the Data Status Indicator.

1.81.10 Display Name of Latest Last Update User on Interest Rate Pages

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Currently the Interest Rate pages display the 23 digit eAuth id in the Last Update User field in all cases. The eAuth id should display only if the last update user's first and last name are unavailable in Business Party. Otherwise, the first and last name should display in the Last Update User field. When more than one database record is involved in the display, take the user name information from the record with the most recent last changed date. To fulfill these requirements the following actions were taken:

1.8.11.10.1 Modify Interest Rate Approval Page

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Modified Interest Rate Approval page to display last update user's first and last name if available.

1.8.21.10.2 Modify Interest Rate Request Delete Page

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Modified Interest Rate Request Delete page to display last update user's first and last name if available.

1.8.31.10.3 Modify Interest Rate Approve Delete Page

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Modified Interest Rate Approve Delete page to display last update user's first and last name if available.

1.8.41.10.4 Modify Interest Rate Change Page

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Modified Interest Rate Change page to display last update user's first and last name if available.

1.8.51.10.5 Modify Interest Rate Approve Change Page

Formatted: Bullets and Numbering

Modified Interest Rate Approve Change page to display last update user's first and last name if available.

Document Revision History

Date	Version	Summary of Change	Author
7/26/2010	1.0	Initial Creation	EDS – Janet Stinson