Data Update (DATUP)

Requirements Specification Document

v3.0



September 2015

Department of Veterans Affairs

Office of Information and Technology (OIT)

Product Development (PD)

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Revision | Description | Author |
| 09/03/2015 | 1.8 | Really removed SPEC1204 from 2.6, updated dates, added Alt Text for images |  |
| 05/22/2015 | 1.7 | Updated Signature Block |  |
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| 04/07/2015 | 1.4 | Added a design constraint in 2.3 and removed SPEC1204 from 2.6 |  |
| 06/11/2013 | 1.3 | Edits per Deb Coulter |  |
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| 11/30/2012 | 0.3 | Edits |  |
| 11/27/2012 | 0.2 | Analysis for v2.0 | / |
| 03/19/2012 | 0.1 | Initial Draft | / |

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# Introduction

The DATUP (Data Update) Java Utility is designed as a Java 2 Enterprise Edition (J2EE) Application, which synchronizes the data in PRE databases. It is a JAVA utility hosted within a WebLogic server that runs an automated process to maintain the FDB-DIF and VA custom data used by regional MOCHA instances and at the National level by PECS and PPS-N.

## Purpose

The purpose of this Requirements Specification Document (RSD) is to articulate the required changes and results of the requirement gathering process carried out during the planning phase of DATUP.

The intended audience of this RSD is the Pharmacy Benefits Management (PBM), Enterprise Application Management (EAM) and the Clinical 1 (CLIN1) Team (VA support teams for the PECS application), and the PRE project team who shall be impacted or be required to make corresponding changes to DATUP.

## Scope

This document captures the functional and non-functional requirement specifications for DATUP. This document will be considered the baseline for DATUP requirements from v3.0 and beyond.

DATUP v1.1.0 was recompiled to incorporate the MOCHA Server v2.0 changes and to support FDB DIF 3.3 upgrades, resulting in DATUP v2.0.

DATUP v2.0 was recompiled due to repository change from ClearCase to Rational Team Concert (RTC), resulting in DATUP v3.0.

## Acronyms and Definitions

### Acronyms

| Term | Definition |
| --- | --- |
| ACP | Application Contingency Plan |
| AITC | Austin Information Technology Center |
| CR | Change Request |
| CMOP | Consolidated Mail Out Patient |
| DDI | Drug-Drug Interaction |
| DIF | Drug Information Framework |
| DP | Drug Pairs |
| DR | Dose Range |
| DT | Duplicate Therapy |
| FDB | First DataBank |
| GUI | Graphical User Interface |
| ICD | Interface Control Document |
| J2EE | Java 2 Enterprise Edition |
| KAAJEE | Kernel Authentication & Authorization for J2EE |
| NDF | National Data File |
| PECS | Pharmacy Enterprise Customization System |
| PM | Professional Monograph |
| PMAS | Program Management Accountability System |
| PRE | Pharmacy Reengineering |
| RSD | Requirements Specification Document |
| RTC | Rational Team Concert |
| SRS | Software Requirement Specification |
| VA | Department of Veterans Affairs |

## References

This manual contains references to several other documents. These documents can be found on following sites:

PRE SharePoint Site:

http://vaww.yourserver.domain/projects/pre

DATUP v3.0 SharePoint Site:

http://vaww.yourserver.domain/projects/pre/PRE\_DATUPv3/SitePages/Home.aspx

PRE Project Notebook (TSPR) Site:

http://your\_srver.domain.ext/warboard/anotebk.asp?proj=1474&Type=Active

***Note:*** Due to policy constraints, active links cannot be included in this document. Please copy and paste the URLs into your browser.

* PRE V0 5 OC SRS 012210\_V6\_3
* Pharmacy Re-Engineering (PRE) Deployment Architecture Option, Version 0.3 dated 4/2007.
* Pharmacy Re-Engineering (PRE) Deployment Architecture, Version 0.1 dated 4/2008.
* PRE V. 0.5 Interface Control Document (ICD) v.1-1 (April 2008)
* PRE V. 0.5 VistA Pharmacy to PEPS Interface Document (draft) dated 3/2008.

# Overall Specifications

## Accessibility Specifications

N/A

## Business Rules Specifications

**SPEC1196:** FDB-DIF incremental files are processed by the date sequences, from the oldest to newest if more than one file is available for processing.

**SPEC1197:** Order Check Validation is done before and after the automated data update to ensure integrity of FDB-DIF Drug database.

## Design Constraints Specifications

This section lists the design constraints specifications:

* RRC508426: The system shall be TRM compliant. (RTC140040, 141393, 151171, 151174, 151177, 151185, 151190, 151383, 161295, 161315, 161324, 161331, 161638, 162080)

## Disaster Recovery Specifications

No specific requirements for Disaster Recovery (DR); Disaster Recovery is implemented by Austin Information Technology Center (AITC) and Regional Data Center as part of hosting services.

## Documentation Specifications

The project shall follow VA-required PMAS and ProPath documentation standards for VA projects.

## Functional Specifications

**SPEC1198:** The utility should automatically check daily for available FDB-DIF update files received from CMOP files to process.

**SPEC1199:** The utility should automatically check daily for available VA Custom Incremental files to process.

**SPEC1200:** The utility should be configurable, for each installation, to begin the update process at a configured time if the FDB and/or VA incremental updates are present.

SPEC1201: Validation of Success or Failure of the Updates:

**SPEC1201.1:** The utility should perform a set of random Order Checks to validate the functionality of the system as first step of the update process.

**SPEC1201.2:** The number of order checks for verification testing should be configurable; it will be set to ten tests with an 80% sucssess rate.

**SPEC1201.3:** The utility should perform a set of random Order Checks after the update process to make sure the database did not get corrupted during the update process and the Order Check system is functional.

**SPEC1201.4:**  The number of random tests and passing criterion should be configurable.

**SPEC1202:** The utility should provide automated email notifications of success or failure of the update. The email addresses group for these notifications is configurable. (See Appendix A for email examples)

**SPEC1202.1:** Each email needs to contain the Type, Version, and Session Date for the update.

**SPEC1202.2:** The failure emails need to contain the Reason for failure.

**SPEC1202.3:** The email importance should be High.

**SPEC1202.4:** Sender of the email should be noreply@domain.ext.

**SPEC1202.5:** The last line of the email is about the action necessary or a statement that no user action is necessary.

* + - At the National Database:
      * PECS National FDB-DIF Incremental Data Update – SUCCESSFUL
        + Informs the recipient that the update to the National FDB-DIF tables has completed successfully.
        + Mail group: VA OIT OED Communications National PECS Update Success
* PECS National VA-Custom Data Update – SUCCESSFUL
  + Informs the recipient that the update to the National FDB-DIF tables has completed successfully.
  + Mail group: VA OIT OED Communications National PECS Update Success
* PECS National FDB-DIF Incremental Data Update – FAILED
  + Informs the recipient that the update to the National FDB-DIF tables has failed.
  + Mail group: VA OIT OED Communications National PECS Failures
* PECS National VA Custom Incremental Data Update – FAILED
  + Informs the recipient that the update to the National FDB-DIF tables has failed.
  + Mail group: VA OIT OED Communications National PECS Failures
* VA Custom Incremental Data File Available
  + Informs regional/local site that the VA Custom Incremental data files are available.
  + Informs the recipient that files are available so the update can be processed at the local site. This message is provided only with a successful update process.
  + Mail group: VA OIT OED Communications National PECS Availability
* FDB-DIF Incremental Data File Available
  + Informs regional/local site the FDB-DIF Incremental data files are available.
  + Informs the recipient that files are available so the update can be processed at the local site. This message is provided only with a successful update process.
  + Mail group: VA OIT OED Communications National PECS Availability
* Regional/Local Site
* PECS Site *(inserted site name)* Update – SUCCESSFUL
  + Informs the recipient that the update to the region/local site FDB-DIF tables has completed successfully. The site name is included during the initial configuration of the site.
  + Mail group: VA OIT OED Communications *site name* PECS Update Success
* PECS Site *(inserted site name)* Update – FAILED
  + Informs the recipient that the update to the region/local site FDB-DIF tables has failed. The site name is included during the initial configuration of the site.
  + Mail group: VA OIT OED Communications *site name* PECS Update Failure
* PECS Site *(inserted site name)* Update – SUCCESSFUL
  + Informs the recipient that the update to the region/local site FDB-DIF tables has completed successfully. The site name is included during the initial configuration of the site.
  + Mail group: VA OIT OED Communications *site name* PECS Update Success
* PECS Site *(inserted site name)* Update – FAILED
  + - * Informs the recipient that the update to the region/local site FDB-DIF tables has failed. The site name is included during the initial configuration of the site.
      * Mail group: VA OIT OED Communications *site name* PECS Update Failure

**SPEC1203:** The utility should be able to manage the FDB-DIF and VA custom files stored nationally and at the region or local sites.

**SPEC1205:** The utility should be able to upload Images that are received with the weekly FDB-DIF updates to the PECS/PPSN Production Server (National).

## Graphical User Interface (GUI) Specifications

N/A

## Multi-Divisional Specifications

N/A

## Performance Specifications

No performance requirements were defined.

## Quality Attributes Specifications

N/A

## Reliability Specifications

The system shall be available 24/7, with exception made for required system maintenance activities. Required maintenance activities shall be scheduled for known periods of decreased system utilization.

## Scope of Integration

N/A

## Security Specifications

N/A

## System Features

N/A

## Usability Specifications

N/A

# Applicable Standards

N/A

# Interfaces

This section lists the requirements for DATUP interfaces. Communication, hardware, software and user interface requirements will be described.

## Communications Interfaces

Since the utility is hosted at AITC and Regional Data Centers, all the communications with other devices such as local area networks are captured in AITC’s ACP document.

Communications with other systems are documented as part of the logical and physical model in the DATUP Product Architecture Document, the DATUP System Design Document, and the DATUP Interface Control Document.

## Hardware Interfaces

|  |  |  |
| --- | --- | --- |
| Firmware/Hardware |  |  |
| Manufacturer | Version Number | Device Installed On |
| Dell | PowerEdge R710 | Application Server |
| Dell | PowerEdge R710 | Database Server |
| Dell | PowerEdge R710 | Failover Server |

## Software Interfaces

|  |  |  |  |
| --- | --- | --- | --- |
| Software |  |  |  |
| Manufacturer | Software Name | Use (i.e. OS, Database) | License Information |
| Red Hat | Red Hat Enterprise Linux | OS | VA enterprise License |
| Oracle | Oracle | Database | VA Enterprise License(generic) |
| Oracle | Weblogic | Application SW | VA Enterprise License(generic) |

## User Interfaces

DATUP is a stand-alone utility without any user interface.

# Legal, Copyright, and Other Notices

N/A

# Purchased Components

The DATUP utility is hosted by AITC and Regional Data Centers; all the purchased components are listed in AITC/ACP documents.

# User Class Characteristics

N/A

# Estimation

N/A

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## Function Point Analysis Results Table

**Not Applicable -- DATUP is a Java utility; it is not an application and not subject to Function Point Analysis.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Project Software Functional Size and Size-based Effort and Duration Estimate | | | | | | |
|  | Application | | | | |  |
| Item | A | B | C | D | E | Total |
| Counted Function Points |  |  |  |  |  |  |
| Estimated Scope Growth |  |  |  |  |  |  |
| Estimated Size At Release |  |  |  |  |  |  |
| Size-based Effort Estimates | | | | | Labor Hours | Probability |
| Low Effort estimate – with indicated probability, project will consume no more than: | | | | |  |  |
| High Effort estimate -- with indicated probability, project will consume no more than: | | | | |  |  |
| Size-based Duration Estimates | | | | | Work Days | Probability |
| Low Duration estimate – with indicated probability, project will consume no more than: | | | | |  |  |
| High Duration Estimate -- with indicated probability, project will consume no more than: | | | | |  |  |

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# Approval Signatures

This section is used to document the approval of the Requirements Specification Document during the Formal Review.

The Chair of the governing Integrated Project Team (IPT), Business Sponsor, IT Program Manager, and the Project Manager are required to sign. Please annotate signature blocks accordingly.

REVIEW DATE: September 03 2015

SCRIBE:

***Signed: ▲***

*, Program Manager, Pharmacy Reengineering*

*Integrated Project Team (IPT) Chair & IT Program Manager PBM*

***Signed: ▲***

*, PBM, Director, Clinical Informatics/Re-engineering   
IPT Member & Business Sponsor*

***Signed: ▲***

*, IT Program Manager, SDE PAO*

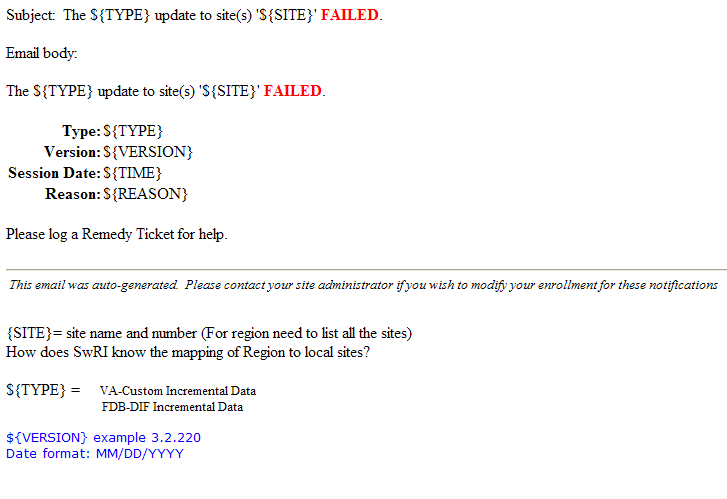
***Signed: ▲***

*, Project Manager, Pharmacy Reengineering*

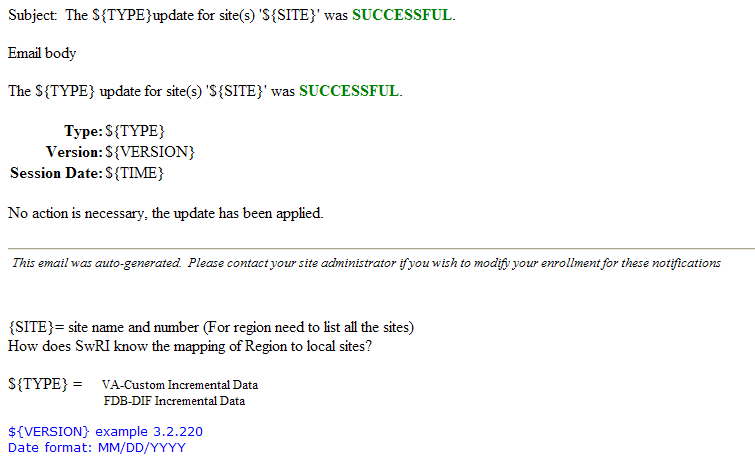
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Appendix A -- Email Examples

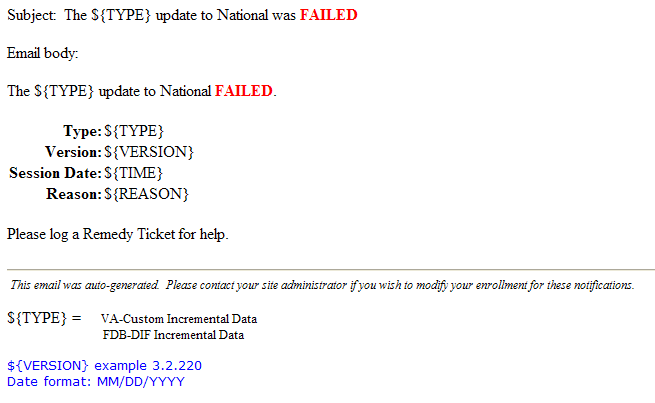
**Local Failure**



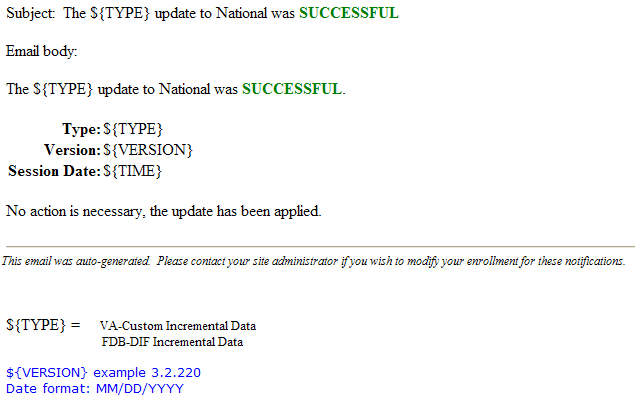
**Local Success**



**National Failure**



**National Success**



**Update Available**

