

A night-time photograph of the Space Shuttle Discovery on the Mobile Launcher Platform (MLP) being transported by a crawler-transporter. The MLP is a large, multi-level structure that supports the shuttle and its external tank and boosters. The crawler-transporter is a massive vehicle with multiple sets of continuous tracks, designed to move heavy loads across the launch complex. The scene is illuminated by bright spotlights, creating a dramatic contrast against the dark night sky. The shuttle is oriented vertically, and the MLP is being moved along a dirt road. In the background, other launch pads and structures are visible, along with a large crowd of people gathered for the event.

NASA Enterprise Applications Competency Center (NEACC)

Real Property Management

A large space shuttle, the Space Shuttle Discovery, is being transported on a mobile launcher platform (MLP) by a crawler-transporter at night. The MLP is illuminated by bright lights, and the shuttle is positioned vertically. The crawler-transporter is a massive vehicle with multiple sets of continuous tracks, designed to move heavy loads across the launch complex. The background shows a dark sky and some distant lights, suggesting a launch facility at night.

NASA Enterprise Applications Competency Center (NEACC)

- Operates and maintains a broad spectrum of NASA's Enterprise Applications, with an emphasis on fully integrating business process expertise with application and technical know-how.
- Comprised of small team of civil servants and approximately 300 support contractors.
 - Sustains operations, implements new applications and capabilities, and provides business readiness support to stakeholders and end users.
- Nine lines of business are served by over 50 applications and a multitude of integration services.

Real Property Management

- Addresses Agency business priority to integrate the identification, tracking, and valuation of NASA's real property portfolio with the Agency's financial system, SAP.
- Manages NASA's real property portfolio, which contains 4,856 buildings and other structures spanning 102 unique NASA sites totaling 45 million

Real Property Management Summary

- The RPM Project developed a comprehensive and integrated solution design that satisfies requirements of the Office of Strategic Infrastructure (OSI) and Office of the Chief Financial Office (OCFO)
- Effective usage of the Agile Scrum Process combined with Center involvement during the Project Sprints drove the solution design discussions/decisions which were successfully addressed and documented while working closely with OSI & OCFO
- The integrated RPM solution supports Core Business Processes for the Agency and all Centers and focuses on Real Property Accountable Officers (RPAOs), Facility Utilization Officers (FUOs), Mission Dependency Index (MDI) Users, Property Accountants (PAs), HQ Administrative Users, and View Only Users
- The RPM SAP System was introduced into production on October 4, 2010

Why SAP RPM?

Background & Scope of the RPM Project

Background

- The 2009 Ernst & Young audit of NASA internal controls over property, plant and equipment (PP&E) identified PP&E systems as a material weakness by the independent financial auditors (Ernst & young), contracted by the Office of the Inspector General
- NASA lacked the integration and functional capabilities needed to produce timely, reliable financial and real property information to effectively manage program and mission assets

Problem /Root Cause

- Management Business Systems Integration Group (M/BSIG) GAP 59 - NASA does not have a real property system that is fully integrated with NASA's financial system to identify and track NASA's real property portfolio and its value
- NASA's Financial and Real Property Systems were not integrated with Core Financial
- Inability to have easy access to the right information at the right time
- Disparate databases made reporting manual and time-consuming

Purpose

- Implement Real Property business processes within existing Agency Enterprise Resource Planning System (ERP) (SAP)
- Activate the Flexible Real Estate Management (RE-FX) capability in SAP
- Convert the NASA Real Property Inventory (RPI) system data to SAP RPM database
- Provide an intuitive end user interface
- Retire RPI

Scope

- Contained to current NASA RPI system
 - Include tracking and inventory of buildings, land, and other structures
 - Facility utilization reporting requirements
 - Provide source financial data for real property assets
 - Provide Mission Dependency Index (MDI) capability

Executive Summary

FY2009 Material Weakness Disposition

The FY2009 Ernst & Young Report identified one **Material Weakness** and one **Significant Deficiency** related to NASA PP&E

#	MATERIAL WEAKNESS: Ernst & Young Recommendations for Enhancements Needed for Controls over Legacy PP&E and Materials Contracts	RPM Dispositions
1	Continue to actively improve implementation of SFFAS No. 35. Areas for particular focus include: (1) appropriate approaches in critically assessing prior recorded amounts for legacy assets, and (2) the extent to which the entity must associate ongoing outlays with individual items of PP&E versus recording amounts based on contractor-provided estimates in bulk.	Not in scope
2	Develop an overarching key control activity that provides for a robust and rigorous review that both validates and challenges the adequacy of estimation techniques used and the sufficiency of documentation supporting those conclusions.	Not in scope
#	SIGNIFICANT DEFICIENCY: Ernst & Young Recommendations for Financial Management Systems Not in Substantial Compliance with FFMIA	RPM Dispositions
1	<ul style="list-style-type: none"> a) Move forward to integrate government-held real property transactions into the Asset Accounting Module of SAP in May 2010 b) Continue efforts to integrate recording of PP&E transactions contemporaneous with their occurrence 	<ul style="list-style-type: none"> a) Not in scope – (NEACC SR #147662) b) In scope
2	Resolve issues identified during our IT procedures in our audit related to access and change management surrounding its financial management systems.	Not in scope

Ernst & Young Audit Recommendations FY2008 vs. FY2009 Summary

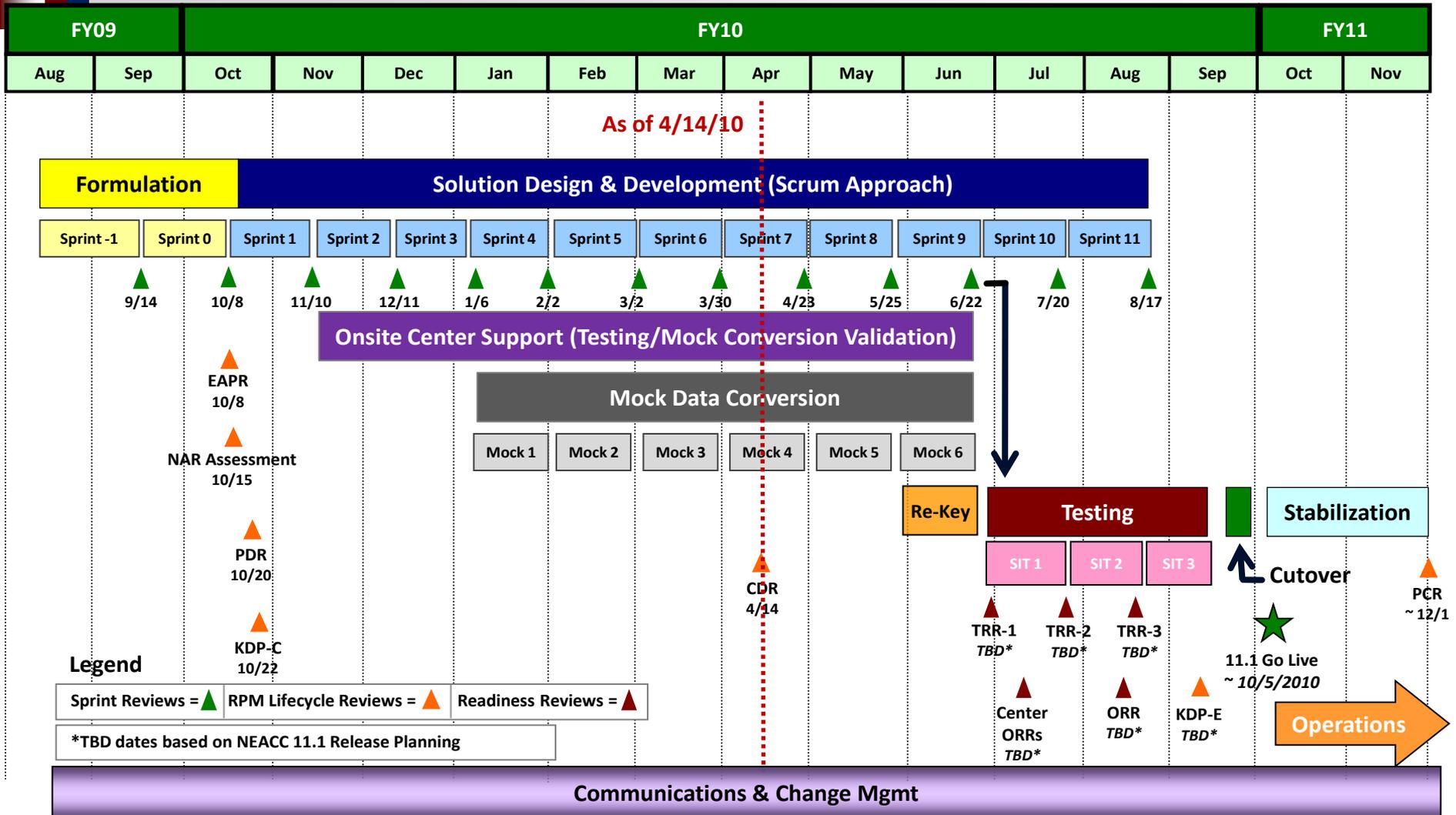
- In the FY2008 PAR, Ernst & Young reports a Legacy PP&E and Materials Contracts Weakness consisting of 4 component recommendations, of which the PP&E integration with the Core Financial Module was a subcomponent (Note: this subcomponent recommendation was not a standalone material weakness)
- As of the FY2009 PAR, Ernst & Young reports that the Financial Systems, Analyses, and Oversight weakness reported in the FY2008 PAR as being resolved
- As of the FY2009 PAR, Ernst & Young found that only one material weakness remains: Legacy PP&E and Materials Contracts specific to Statement of Federal Financial Accounting Standards (SFFAS) No. 35, *Estimating the Historical Cost of General Property, Plant, and Equipment* (FY2009 PAR, page F-52)
 - In the Statement of Assurance (FY2009 PAR, page MD&A 28), NASA states “Legacy PP&E valuation has been updated using alternatives under the new applicable standard” which is the core component to resolving the material weakness based on Ernst & Young’s recommendation from FY2008 Audit
 - This material weakness remains due to a timing issue between the end of FY2009 and the October 2009 publication of SFFAS No. 35 (e.g., no retroactive applicability to FY2009)
- In the FY2009 PAR, Ernst & Young reports that the real property system is not integrated with the Core Financial Module, resulting in a Significant Deficiency entitled “Financial Management Systems Not in Substantial Compliance with Federal Financial Management Improvement Act of 1996 (FFMIA)” (FY2009 PAR, page F-57)

Benefits to End User Community

- **Integration** – Stakeholder organizations (FERP and OCFO) will benefit from having a real property and financial system/business process that is integrated (e.g., improvement of the process to include closer interaction of functional components, contributes to resolution of audit recommendation)
- **Automation** – Tasks that were completed manually in the past will now be automated with electronic storage of supporting documentation (e.g., elimination of the manual voucher process, electronic scanning/storage of supporting documents, and system reminders to complete building inventory functions)
- **Provides future expansion/growth opportunities**– The SAP ERP system offers standard functionality to extend and build upon current capabilities (e.g., elimination of RPI manual voucher, data elements not previously visible, capturing roles for reporting)
- **Agency-wide Tracking and Reporting** – With the implementation of RPM, standard Agency organization codes will be mapped to Center-unique organization codes, which will enable Agency-wide reporting and enhanced MDI tracking capability
- **Reporting Improvements** – Utilization of the SAP Business Warehouse (BW) significantly extends user-level reporting functionality which broadens and deepens end-user reporting capabilities

RPM Project Status

High-Level Timeline - Baselined October 2009



RPM Solution Components

High-Level Solution Design

Solution Components (Where)

	SAP ERP	BW	Web
Capabilities (What)	<ul style="list-style-type: none"> • Transactional System of Record • User Friendly System Interface • Inventory of Buildings & Land • Lease Administration • Facility Utilization • Core Financial Asset Accounting Integration • Mission Dependency Index (MDI) 	<ul style="list-style-type: none"> • Information Delivery Repository • RPI /FUS historical data • Reports 	<ul style="list-style-type: none"> • MDI Front-End
User Groups (Who)	<ul style="list-style-type: none"> • Real Property Accountable Officers (RPAOs) • Facility Utilization Officers (FUOs) • Property Accountants (PAs) • HQ Administrative Users • View Only Users • JPL Users 	<ul style="list-style-type: none"> • RPAOs • FUOs • PAs • HQ Admin Users • View Only Users • JPL Users 	<ul style="list-style-type: none"> • MDI Users

RPM High-Level System Design

MDI Web Front End

Web Pages to perform
NASA Mission
Dependency Activities

MDI retrieves and stores
information from the SAP
database

User Role: MDI Users

SAP

RPM SAP
Front End

Flexible Real
Estate Module

*Link Building Master
Record (BMR) to Work
Breakdown Structure
(WBS) – *Optional*

Project Systems
Module

Load/Update/Display
Attachments and Images in
SAP

SAP Database store:
• Images
• Attachments
• etc.

- Transactional System of Record
- Inventory of Buildings & Land
- Lease Administration
- Facility Utilization

Asset Accounting

- Link BMR to AMR
- Link AMR to BMR

BW

- Standard Reports
- Ad Hoc Reporting
- Legacy Data

User Roles: RPAOs, FUOs, PAs, HQ Admin. Users, View Only Users

SAP RPM Integrated Solution

- The integrated RPM solution includes customization (vendor endorsed) to standard SAP functionality that was required to meet solution design requirements
- Agile Scrum approach facilitated the design of the solution integrations based on collaboration with the RPM community
- The NEACC RPM Team worked with Process and Product Owners to determine the final design of the integrated solution
- This collaboration resulted in the creation and concurrence of four whitepapers and one Future Capabilities Report was written to highlight future capabilities of RE-FX available to NASA
 - Organizational Reporting Structure
 - Core Financial Integrations - Accounts Payable/Accounts Receivable
 - Asset Accounting Integration - Asset Master Record (AMR/BMR) Integration
 - Work Breakdown Structure (WBS) Integration

RPM Integrated Solution

Organizational Reporting Structure/Controlling Integration

- **Organizational Reporting Structure / Controlling Integration**
 - New Cost Centers were created at the Agency-Level specifically to support Agency Reporting of Space Utilization at the Directorate level
 - RPM Added a new Agency-Level Cost Center Group
 - RPM Added 42 Directorate-level Cost Centers
 - Structure will only be used for Agency Reporting
 - Standard General Ledger (SGL) postings will not be allowed against the Cost Centers
 - Track and report Internal Occupancy

RPM Integrated Solution

Core Financial – Accounts Payable/Accounts Receivable

■ Core Financial Integration – Accounts Payable/Accounts Receivable

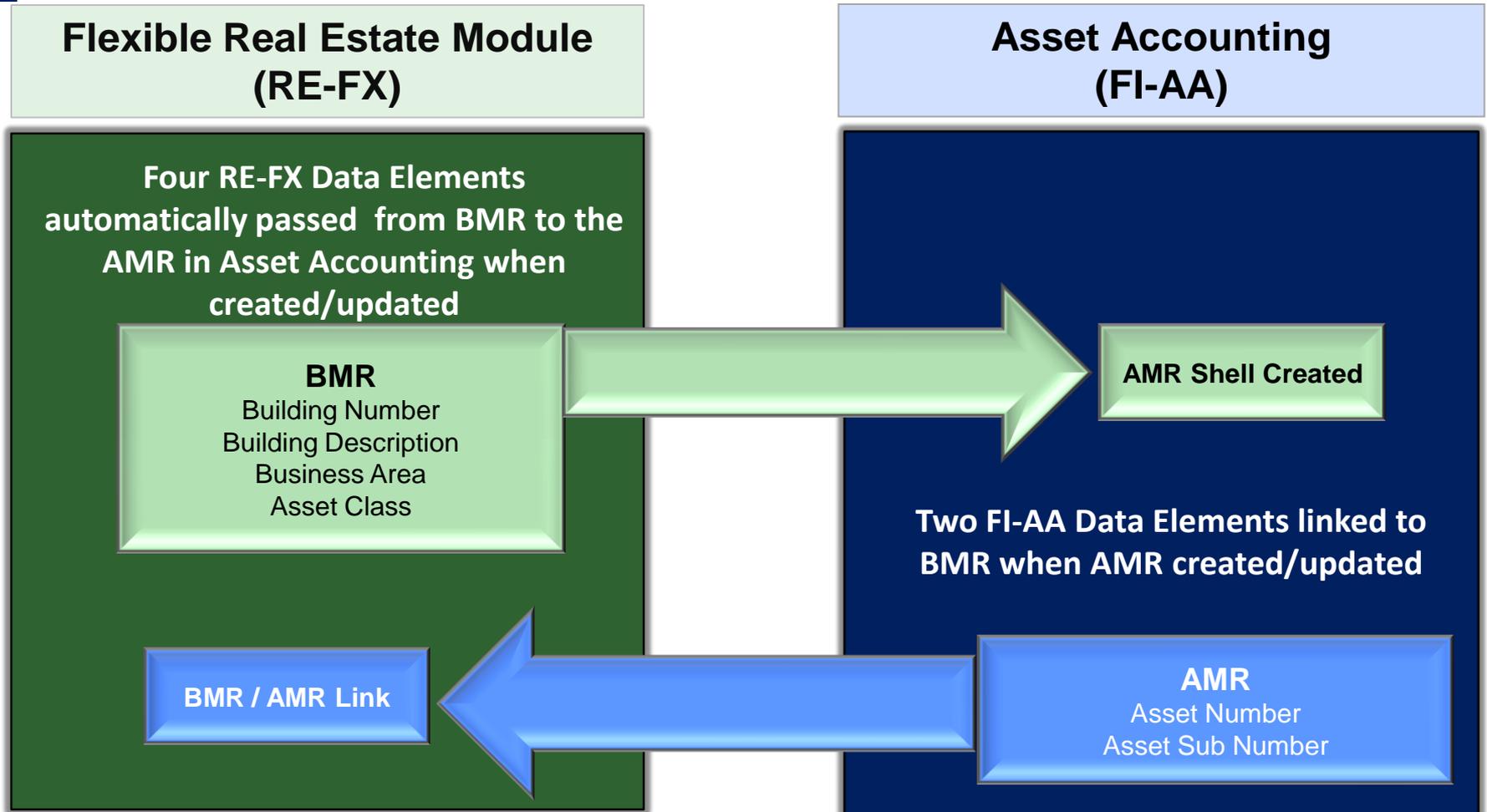
- Creation of the Customer/Vendor Master Records when the Tenant/Landlord Business Partner is created in RE-FX
 - Creation of Tenant Master Record within RE-FX Lease Administration triggers the automatic creation of a Customer Master Record in SAP
 - Creation of Landlord Master Record within RE-FX Lease Administration triggers the automatic creation of a Vendor Master Record in SAP
 - Two new RPM unique Account Groups were created for the Customer and Vendor Master records, in order to exclude these Master Records from all other processes

■ **Asset Accounting Integration**

- Assignment of Asset Class via NASA Property Code
 - Defaults the correct asset class code to the record based on the NASA Property Classification Code selected
- Creation of AMR directly from the RPM Building Record
 - An AMR is created by clicking on the Create Asset button on the Assignments Tab of the Real Property Record. When this occurs, the system will automatically pass the following fields to a newly created AMR:
 - ✓ Asset Class
 - ✓ Business Area
 - ✓ Building Number
 - ✓ Building Description
- Link of AMR to the Real Estate Object/Link WBS element to the Real Estate Object
 - AMR can be updated automatically via custom capability to include the building number from the Real Property Master Record at the time that the Asset Record is assigned to the Real Property Record
 - ✓ This linkage is optional

RPM Integrated Solution

RPM to Asset Accounting Data Element Integration



RPM Core Business Processes

Core Business Process & Roles

- The RPM Solution is based on core business processes:

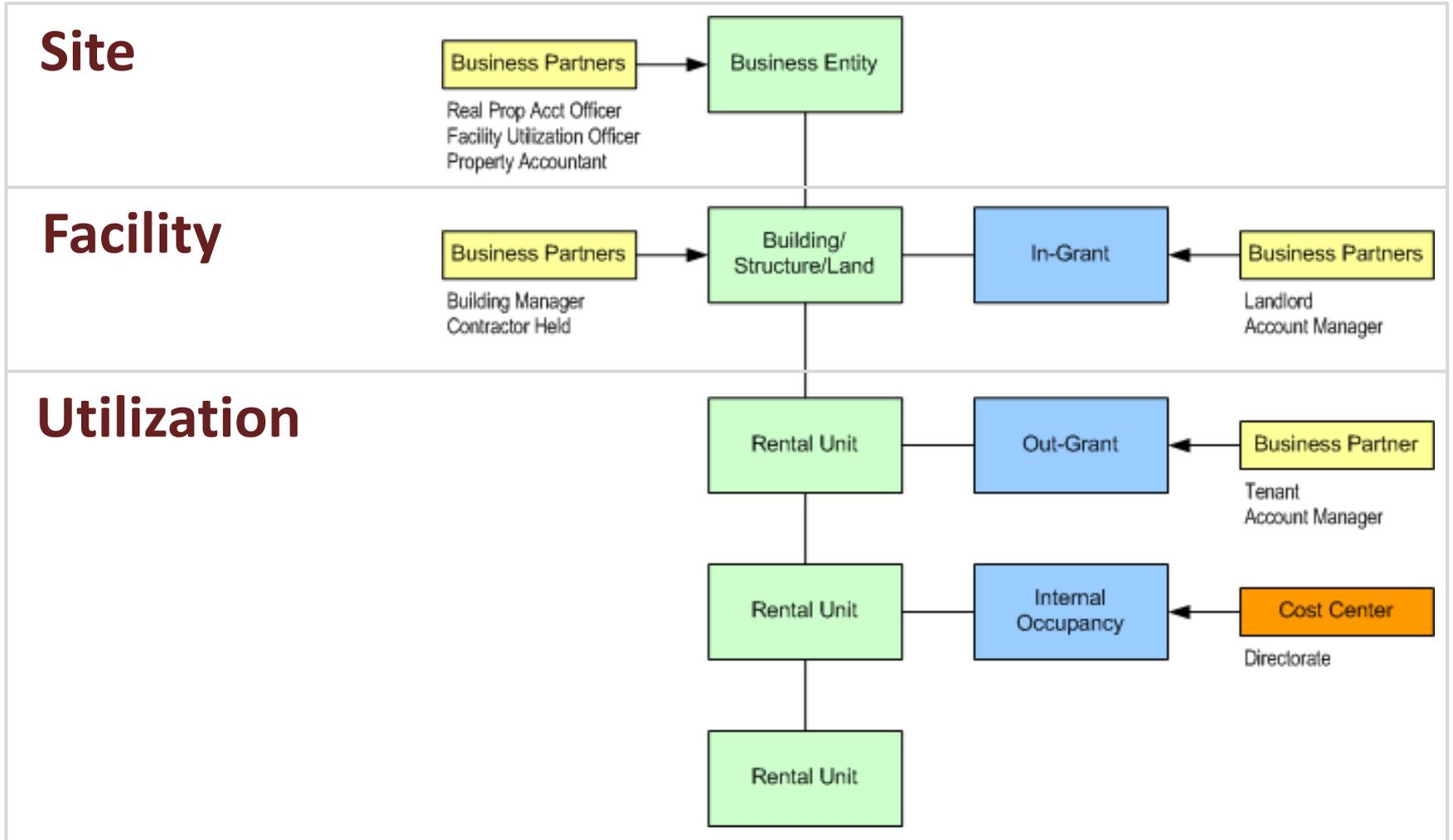
RPM Business Process	RPAO	FUO	PA	MDI	HQs Agency
Create Business Entity Process					
Create Building Process					
Modify Building Value Process					
Create Asset/ Sub Asset Shell In RPM					
Upload Building Attributes Process					
Remove Building Process					
Create In Grants Process					
Create Out Grants Process					
Mission Dependency Index Process					
Facilities Utilization Process					

NOTES:

1. Each role will also have view and reporting capability for all business processes.
2. Major Facilities Utilization Business Process was removed. HQ determined that the 1400A Major Facilities Utilization Report was no longer needed.

RPM Functional Configuration

RE-FX Structure Overview



RE-FX Master Data is used to represent NASA's Real Property and their attributes

- Business Entity = Site
- Building Object = Facility (Building, Structure, or Land)
 - General Data – e.g., Legal Interest, NASA Classification Code, Asset Class
 - Characteristics – e.g., Sustainability, Construction, ADA Compliance, LEED Certification
 - Measurements – e.g., NASA, GSA, Operating & Maintenance Costs, Deferred Maintenance
 - Property Values
 - Attachments – e.g., Images, Forms
- Rental Units = Utilization
 - Measurements – e.g., Personnel Headcount, Net Usable Area
- Contracts = In-Grants, Out-Grants, Internal Occupancy
- Business Partners
 - NASA Roles – i.e., Real Property Accountable Officers, Facility Utilization Officer, Property Accountant, Building Manager, Account Manager
 - External Roles – i.e., Landlord, Tenant, Contractor Held

RPM Functional Configuration Summary

Flexible Real Estate Management (RE-FX)

Business Partners

Roles - RPAO, FUO, PA, Building Manager,
Contractor Held, and Account Manager

FI-Integrated Roles - Landlord and Tenant

Master Data

Measurements

Business Entity

Building Object - Buildings, Structures, and Land
Characteristics

Rental Unit - Internal and External Usage

Contracts - In-Grants, Out-Grants, and Internal
Occupancy

Conditions (Charge Types)

Other Settings

Screen Dialogs

Resubmissions (Reminders)

Authorization Groups

PDF-Based Forms - Property Card

Report Profiles

Other Modules and Settings

Units of Measurement

Accounts Receivable and Accounts Payable (FI-AR, FI-AP)
Account Groups and Screen Layout - Tenant and Payee

Asset Accounting (FI-AA)

Screen Layout for Asset Master Data

Business Data Toolset (BDT)

Cross-Application Components (CA)

Postprocessing Office (Error Log Processing)

Master Data Synchronization (Partner-Customer/
Vendor Integration)

Cost Center Accounting (CO-CCA)

Cost Center Categories - Directorate

Logical Database Selection Views

Translations (F1 Help Texts)

Transaction and Screen Variants

RPM Project Design Overview

NASA Custom Development Objects

- Reports –BW Reports and SAP Asset Accounting Reports
- Interfaces / Extracts
 - Federal Real Property Profile (FRPP) Annual data extract
 - NETS Integration (Historical Status Update)
- Data Conversion Programs
- Custom Property Card
- Web Application - MDI
- Other Custom Objects
 - Addition of 14 Property Record Fields
 - Business Entity - Business Area, CRV Region, GSA Location Key, GSA Agency Bureau Code
 - Building Object – Property Classification Code, Asset Class, Building Number, GSA Recipient, Long Text, Memo for Measurements, As of Date for Historical Status
 - Rental Unit – MDI Response to question 1, MDI Response to question 2
 - Contract – Long Text

■ Custom Objects (Continued)

□ Tables

- GSA Agency Bureau Codes
- GSA Locations
- Authorization Group to Business Area
- Property Values table

□ Tabs & Screens

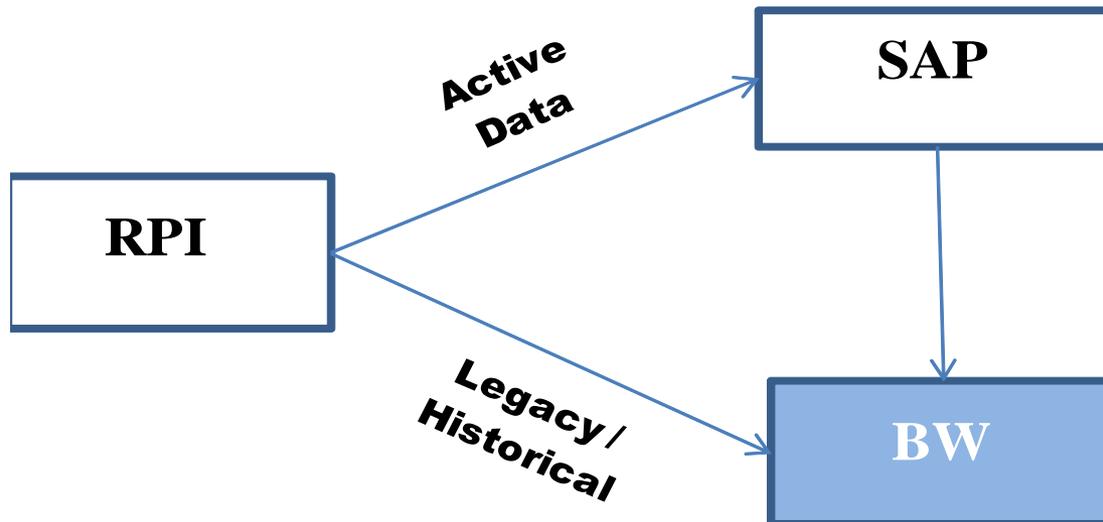
- Property Value tab

□ Transaction Codes and Programs

- Upload Program
 - NETS Historical Status Upload
 - Facilities Utilization Upload
 - Operating and Maintenance Cost Upload
 - Deferred Maintenance, Facility Condition Index and Sustainability Upload
- Property Accountant Access/View of Building Record
- Property Accountant Update functionality within Building Record

RPM Reporting Information Delivery – Strategy

- Legacy data is being stored in Business Warehouse (BW) and includes:
 - Legacy data includes facility utilization data of fiscal year 2009 and prior
- Active data is being stored in SAP R/3 & BW and includes:
 - Master data of all real property; buildings, land, and structures
 - Transactional data such as property values and measurements for each property record
 - MDI data



RPM Reporting

Information Delivery – Business Warehouse

- 12 Real Property Management BW Reports
 - Ad-hoc Real Property Report
 - NASA Land Summary Report by Center
 - NASA Classification and GSA Usage Code Report
 - Real Property Summary Report
 - FCI-MDI Data Report
 - No. 4 Standard Report
 - Average Age of Facilities Report
 - Proposed Status Change Report
 - Status by Fiscal Year Report
 - Removed Property Report
 - In-Out Grant Report
 - Capitalized Property Report
- 2 Facility Utilization BW Reports
 - 1400 Space Utilization Report - FY 2009 & Prior
 - 1400 Space Utilization Report - FY 2010 & Forward

RPM Reporting

Information Delivery – Strategy Continued

- **BW Master Data** – SAP BW Business Content Extractors are used to extract from SAP and load into BW for the following master data:
 - Business Entity
 - Building
 - Rental Object
 - Org./Cost Center
- **BW Transactional Data** – SAP BW Custom Extractors (with delta capability) are built to extract from SAP and load into BW for the following transactional data:
 - Measurements of Building
 - Characteristics of Building
 - Cost of Building
 - Measurements of Rental Objects
- **BW Long Text Document Storage** – BW Function Module is built to extract from SAP and load long text document for Building Status into BW

■ 18 Real Property Management SAP Reports

- REISBP Objects by Business Partner
- REISBPBD Business Partners for Usage Objects
- REISBE Business Entities
- REISBU Buildings
- REISRO Rental Objects
- REISROOC Occupancy of Rental Objects
- REISBDOA Object Assignments
- RECARS Resubmission Dates
- REISMSBD Measurements for Master Data
- REISCN Contract Overview
- REISCNPE Term
- RECARSCN Resubmission Dates
- REISDCN Conditions for Contracts
- RECPA170 Master Data Summary (Buildings)
- RECARG Update Objects
- RECARGEN Generate Resubmission Dates
- REBDCARP Usage Objects
- RECNRP Contracts

RPM Data Conversion – RPI to RPM

Data Conversion Approach

■ Conversion Strategy

- Using proven conversion approach successfully used on previous NEACC implementations
 - Conversion strategy was to convert RPI and MDI data into SAP RPMRE-FX
 - Link Real Property Records to Asset Records in SAP
 - FUS historical data was to be stored in BW
 - FUS current data was loaded via automated load process

■ Conversion Data Sources

- NRPI: Access database containing majority of data, including buildings and property
- MDI: Access database containing mission criticality score of buildings and property

■ Center Involvement

- Minimal cleanup required
- Centers used converted data during Sprint testing and SIT testing
- Centers were involved in data validation after each mock conversion

RPM Data Conversion – RPI to RPM

Mock Conversion

■ Mock Conversions

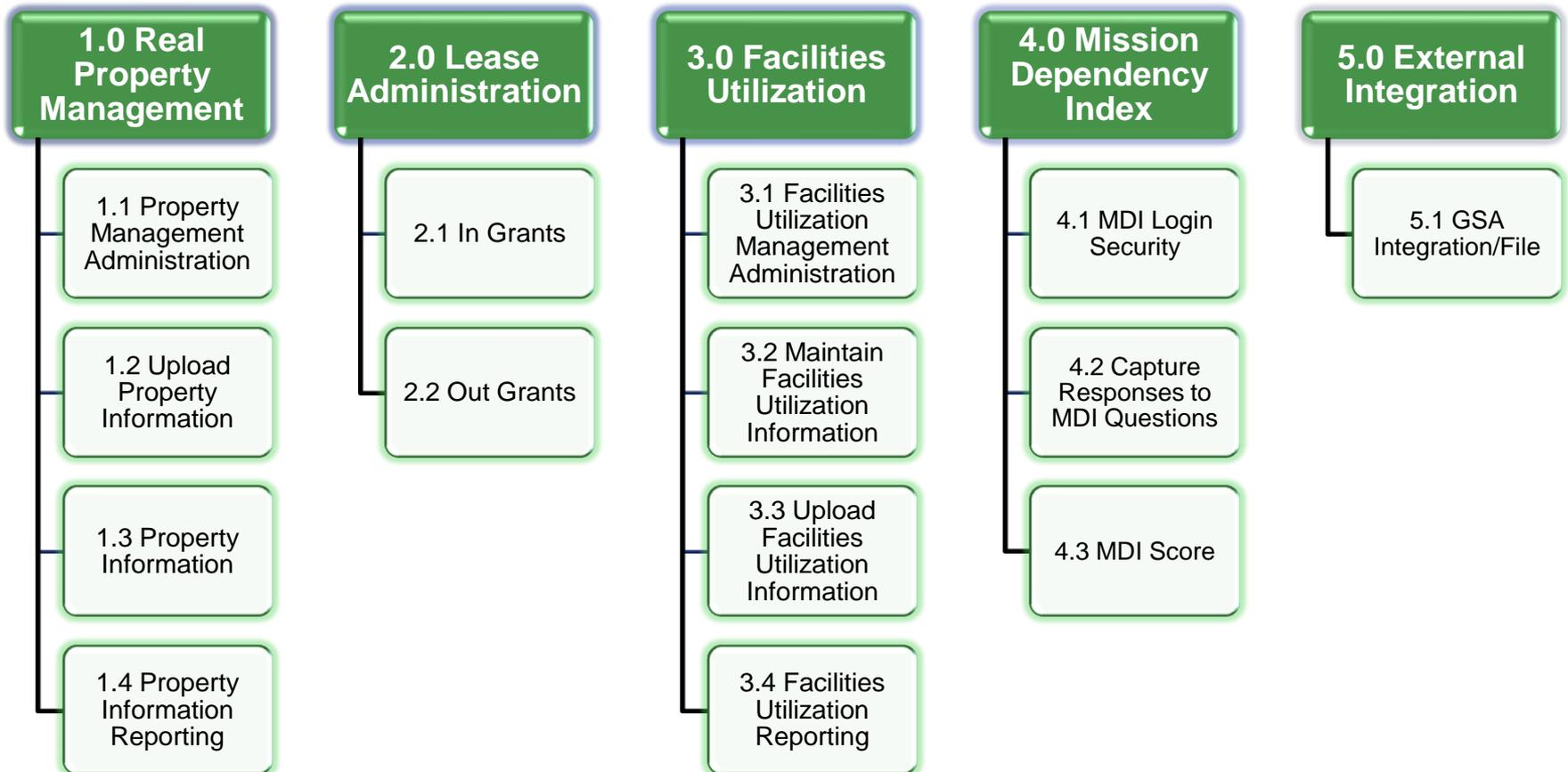
- ❑ All data was converted from the source system NRPI to SAP RPM numerous times
- ❑ 6 Mock Conversions occurred during Project Sprints - plus 3 additional System Integration Testing Conversions

Conversion	Sprint:	4	5	6	7	8	9	SIT 1	SIT 2	SIT 3	Go Live
Business Partners - People		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Business Entity		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Building General Data			✓	✓	✓	✓	✓	✓	✓	✓	✓
Building Long Description			✓	✓	✓	✓	✓	✓	✓	✓	✓
Building Characteristics			✓	✓	✓	✓	✓	✓	✓	✓	✓
Building Measurement Details				✓	✓	✓	✓	✓	✓	✓	✓
Building Value Data				✓	✓	✓	✓	✓	✓	✓	✓
Building Images					✓	✓	✓	✓	✓	✓	✓
Business Partners - Organizations					✓	✓	✓	✓	✓	✓	✓
Lease In						✓	✓	✓	✓	✓	✓
External Lease Out							✓	✓	✓	✓	✓
External Rental Units							✓	✓	✓	✓	✓

RPM Product Baseline

Feature Breakdown Structure

- The RPM Solution FBS is based on five feature components and fourteen feature sub-components:



NEACC Operational Support Approach Integration, Testing and Operations

Operational Support

- The RPM solution utilizes standard SAP & BW functionality to deliver an Agency-wide system
- RPM solution is being supported within the NEACC Logistics line of business
- The NEACC RPM Support Team manages/coordinates the following operational support functions:
 - SAP & BW Functional
 - SAP & BW Application Development & Testing
 - Enterprise Application Integration (EAI) and MDI Web Application Development
 - Technical Infrastructure
 - Quality Assurance
 - Business Readiness
 - Enterprise Release Management

RPM Technical Architecture

Security – System Access Overview

Security Overview

- Core RPM user groups include RPAOs/FUOs/HQ Admin/PAs/MDI Users/View Only Users
 - RPAO – Center Real Property Accountable Officer
 - FUU – Center Facility Utilization Officer
 - HQ Admin – Agency Real Property Accountable Officer
 - PA – Center/Agency Property Accountants
 - MDI – Mission Dependency Index View and Update Users
 - View Only – SAP & BW - Reporting Only Users
- Segregation of Duties (SOD) analysis was completed and documented during the RPM Project
- A Role Mapping Matrix was used to track individual users and their SAP RPM role assignments

- **RPM Business Readiness**

- ❖ The RPM user community is encouraged to utilize bReady as the link to Operational Support information
 - ❖ EPSS - Documentation repository for all Real Property Management Documentation including:
 - ❖ End User Procedures, Process Flows, Job Aids, Tips & Tricks, etc
- ❖ The NEACC RPM Team hosts a RPM SUPER USERS telecom bi-monthly
- ❖ Purpose of the RPM Super User Telecom
 - ❖ To promote open communication between Agency, RPM user community and the NEACC RPM Support Team
 - ❖ To demonstrate SAP, BW & MDI functionality/updates/enhancements
 - ❖ Discuss any RPM related business process & system questions/issues
 - ❖ Communicate general info to the RPM user community



NASA Enterprise Applications Competency Center (NEACC)

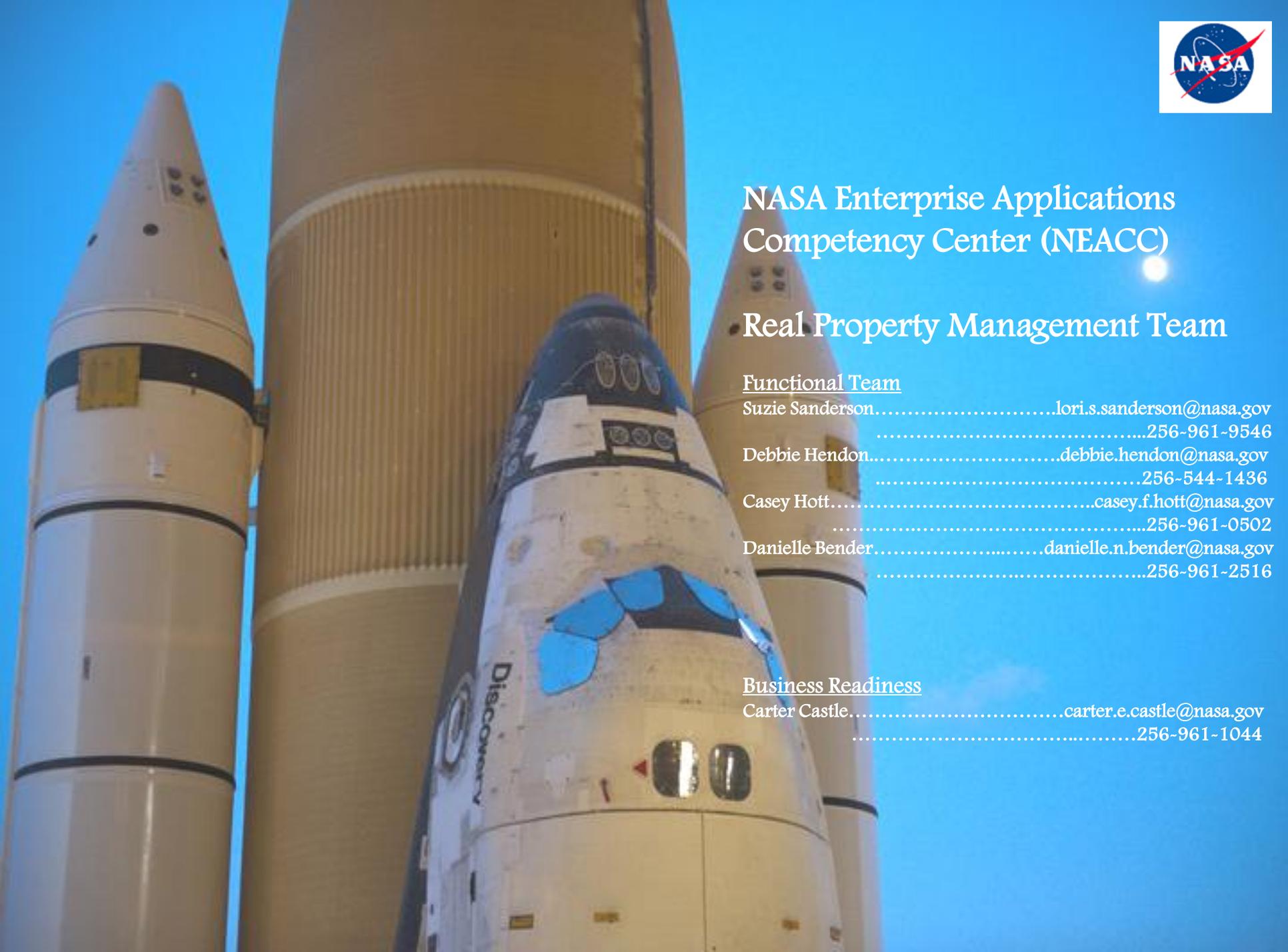
Real Property Management Team

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Backup

Baseline User Stories

1.0 Theme – Track & Manage Real Property Assets

1.1 - Create and Maintain Real Property Records for Land and Facilities.			
	1.1.1		As a Real Property Management (RPM) user, I want access to all active real property records and all the associated information (vouchers, images, & attachments) that was available in the RPI system (Conversion)
	1.1.2		As a Real Property Officer (RPO), I want the ability to add new property / facility record and capture all the attributes associated with Land.
	1.1.3		As a Real Property Officer (RPO), I want the ability to add new property /facility record and capture all the attributes associated with buildings, structures and other appurtenances.
	1.1.4		As a Real Property Officer (RPO), I want the ability to change, revise and update property information.
	1.1.5		As a Real Property Officer (RPO), I want the ability to create a voucher (RPI Voucher) to be able to add the following: voucher number, value, unit of measure, date placed in service, status, remarks about a property.
	1.1.6		As a Real Property Officer (RPO), I want the ability to record inventoried Real Property by updating the inventory date and providing a comment in SAP
	1.1.7		As the Real Property Officer (RPO), I want the ability to record the beneficial occupancy date.
	1.1.8		As an Real Property Officer (RPO), I need the ability to retrieve and view project real property costs from the financial system.
	1.1.9		As an HQ Admin user, I have the ability to add new property for any center (Same functionality as RPO)
	1.1.10		As an HQ Admin user, I have the ability to update and manage the Current Replacement Value (CRV) index factor
	1.1.11		As a view only user, I want the ability to view data in SAP, print, and/or generate ad-hoc or standard reports in BW or SAP for one or all centers
	1.1.12		As a Headquarters user, I want the ability to create additional NASA sites or business entities
	1.1.13		As a Headquarters user and/or a Real Property Officer (RPO), I want the ability to update information about NASA sites or business entities
1.2 - Create and Maintain In/Out Grant Records			
	1.2.1		As a Real Property Officer (RPO), I want the ability to record property leased by NASA (In Grants).
	1.2.2		As a Real Property Officer (RPO), I want the ability to record property leased to NASA (Out Grants).

Baseline User Stories

1.0 Theme – Track & Manage Real Property Assets (continued)

1.3 - Report and Analyze Real Property System Data		
1.3.1		As a Real Property Officer (RPO), I want the ability to run ad-hoc Real Property reports to be able to provide data to HQ, Centers, Finance, and Auditors.
1.3.2		As a Real Property Office (RPO), I want the ability to print a property record or "Card" that includes the building image.
1.3.3		As the Real Property Management (RPM) system, I have the ability to provide a report/view in order to reconcile the capitalized value of Real Property (WBS) with the General Ledger.
1.3.4		As the SAP Flexible Real Estate application, I want the ability upload the FRPP annual report to GSA in accordance with the FRPP process as requested by Headquarters.
1.3.5		As a Headquarters User, I want the ability to track and report deferred maintenance cost.
1.3.6		As a Headquarters User, I want the ability to report information as needed to OMB by each real property line item.
1.3.8		As a Property Accountant (PA), I want the ability to execute Real Property Reports from Asset Accounting and RE-FX in SAP.
1.3.9		As a Property Accountant, I want the ability to view/display Real Property Records in RE-FX.
1.3.10		As a Real Property Management (RPM) user, I want to access RPM data and historical real property data via a flexible reporting tool such as Business Warehouse.
1.3.12		As a Real Property Management (RPM) user, I want the ability to generate and view Snap shot at the end of fiscal year reports for 1400 reports.
1.4 - Upload data to populate/update Real Property data fields		
1.4.1		As the Real Property Officer (RPO), I want the ability to upload operating costs for the center or site.
1.4.2		As the Real Property Officer (RPO), I want the ability to access a standard Excel format for the upload of center or site data.
1.5 - Attach documents and photos to Real Property Records		
1.5.1		As a Real Property Officer (RPO), I want the ability to add and update photos for a real property record.
1.5.2		As the Real Property Officer (RPO), I want the capability to electronically attach supporting documentation with required approvals (NASA Forms 1046, 1509, etc.) to the real property record.

Baseline User Stories

2.0 Theme – Provide Mission Dependency Index Capabilities

2.1 - Maintain Mission Dependency Index Information

2.1.2		As an Mission Dependency Maintainer, I want the ability to enter the required information to calculate the MDI score per building.
2.1.3		As the RPM system, I want the ability perform the MDI calculation score per building based on user input.

Baseline User Stories

3.0 Theme – Provide Facility Utilization Management & Reporting Capabilities

3.1 - Create and Maintain Facilities Utilization Records

3.1.1		As the Facilities Utilization Officer, I want access to the previous Facilities Utilization data in the legacy system for reporting
3.1.2		As the Facilities Utilization portion of RPM, I want to capture all the fields required for facilities utilization reporting based on the buildings in the SAP real estate module.
3.1.3		As the Facilities Utilization Officer (FUO), I want the ability to manually input center facilities utilization information (square footage) into the RPM system in order capture data for utilization reporting
3.1.4		As the Facilities Utilization Officer (FUO), I want the ability to upload center facilities utilization information to the RPM system in a specific format in order to capture data for utilization reporting in SAP.

3.2 - Report Facilities Utilization Data

3.2.1		As the Facilities Utilization portion of the RPM system, I want the ability to generate the 1400 report or the "Building Space Utilization Report" .
3.2.3		As the Facilities Utilization portion of the RPM system, I want the ability to generate the 1400B report or the '
3.2.5		As the Facilities Utilization Officer (FUO), I want the ability to download all 1400 reports to Excel.
3.2.12		As the Facilities Utilization Officer (FUO), I want the ability to generate Facilities Utilization reports on historical data. (BW)

Baseline User Stories

4.0 Theme – Integrate Real Property Management with Agency Core Financial System

4.1 - Link Real Property Master Records to Asset Accounting Master Records		
4.1.1		As the Real Property Management (RPM) system, I have the ability to link a Real Property record and Asset Record.
4.1.2		As a Property Accountant (PA), I want the ability to view the total of the capitalized cost for Real Property and reconcile to the Standard General Ledger and Asset Accounting in SAP.
4.1.3		As a Property Accountant (PA), I want the ability to create, update, and display a Real Property Asset Master Record.
4.1.4		As a Property Accountant (PA), I want the ability to post cost to a Real Property Asset Master Record. This posting also automatically updates the Standard General Ledger.
4.1.5		As a Property Accountant (PA), I want the ability to automatically depreciate Real Property Asset Master Records at the asset level.
4.1.6		As an Property Account (PA), I want the ability to view the date of beneficial occupancy in RPM.
4.1.7		As a Property Accountant (PA), I want the ability to retrieve capitalized cost from Core Financial in SAP.
4.1.8		As a Property Accountant, I want the ability to make adjustments to cost that have been posted to an Asset Master Record.
4.1.9		As a Property Accountant, I want the ability to make prior period capital adjustments in the current period.
4.1.10		As a Property Accountant, I want the ability to record reasons for adjusting or disposing of a Real Property Asset Master Record.
4.1.11		As the Property Accountant (PA), I want the ability to reconcile at the WBS level (PRs, POs, and vendor invoices, traceable audit trail) and to reconcile contract cost to the value of the capitalized asset(s).
4.2 - Notify Property Accountant of beneficial occupancy date		
4.2.1		As a Property Accountant (PA), I want the ability to execute a report in SAP by date range to see changes to the beneficial occupancy date in the RE-FX module of SAP.
4.3 - Notify Property Accountant when capitalized vouchers are created		
4.3.1		As a Property Accountant (PA), I want the ability to execute a report in SAP by date range to see building/property additions, changes in value of a building/property, transfers of buildings/property and the removal of a building/property in the RE-FX module of SAP.
4.4 - Transfer of Real Property to Personal Property		
4.4.1		As the Real Property Officer, I want the ability to execute a report in SAP to view Real Property that has been picked up as Personal Property in the equipment management module of SAP.
4.5 - Transfer of Personal Property to Real Property		
4.5.1		As the Real Property Officer, I want the ability to execute a report in SAP to view Personal Property that has been inactivated in SAP as a transfer to Real Property in the equipment management module of SAP.

Baseline User Stories

4.0 Theme – Integrate Real Property Management with Agency Core Financial System

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Business Process Themes, Epics and User Stories

User Story Impacts As of 1/11/2010 – Two New

Business Process Theme 1.0: Track and Manage Real Property Assets

Epic 1.1: Create and Maintain Real Property Records for Land and Facilities

User Stories

1.1.12 As a Headquarters user, I want the ability to create additional NASA sites or business entities

1.1.13 As a Headquarters User, and/or a Real Property Accountable Officer (RPAO), I want the ability to update information about NASA sites or business entities

Business Process Themes, Epics and User Stories

User Story Impacts as of 1/11/2010 – Ten Deleted

Business Process Theme 1.0: Track and Manage Real Property Assets

Epic 1.3: Report and Analyze Real Property System Data

User
Stories

1.3.7 As a Headquarters User, I want the ability to report information as needed to FRPP.

1.3.11 As a Real Property Management (RPM) system, I want the ability to electronically generate data for the GSA 1166 (Energy Intensity).

Business Process Theme 3.0: Provide Facility Utilization Management and Reporting Capabilities

Epic 3.2: Report Facilities Utilization Data

User
Stories

As the Facilities Utilization portion of the RPM system...

3.2.2 I want the ability to generate the 1400A report or the "Major Facilities Utilization Report".

3.2.4 I want the ability to generate the 1400C report or the "Facility Data Summary" .

As the Facilities Utilization Office (FUO)...

3.2.6 I want the ability to generate the Composite Summary Report.

3.2.7 I want the ability to generate the Multi- year composite summary report.

3.2.8 I want the ability to generate the summary Major Facilities Utilization Report.

3.2.9 I want the ability to generate the summary Under Utilized Major Facilities Utilization Report .

3.2.10 I want the ability to generate the Major Facilities availability Summary report.

3.2.11 I want the ability to generate the Property Closure report .

Business Process Themes, Epics and User Stories

User Story Impacts as of 3/30/2010 – Six Deleted

Business Process Theme 2.0: Provide Mission Dependency Index Capabilities

Epic 2.1: Maintain Mission Dependency Index Information

User Stories

2.1.1 As an Mission Dependency Maintainer , I want the ability to view facility information about a building and/or property ("card") from RPM.

Business Process Theme 3.0: Provide Facility Utilization Management and Reporting Capabilities

Epic 3.1: Create and Maintain Facilities Utilization Records

User Stories

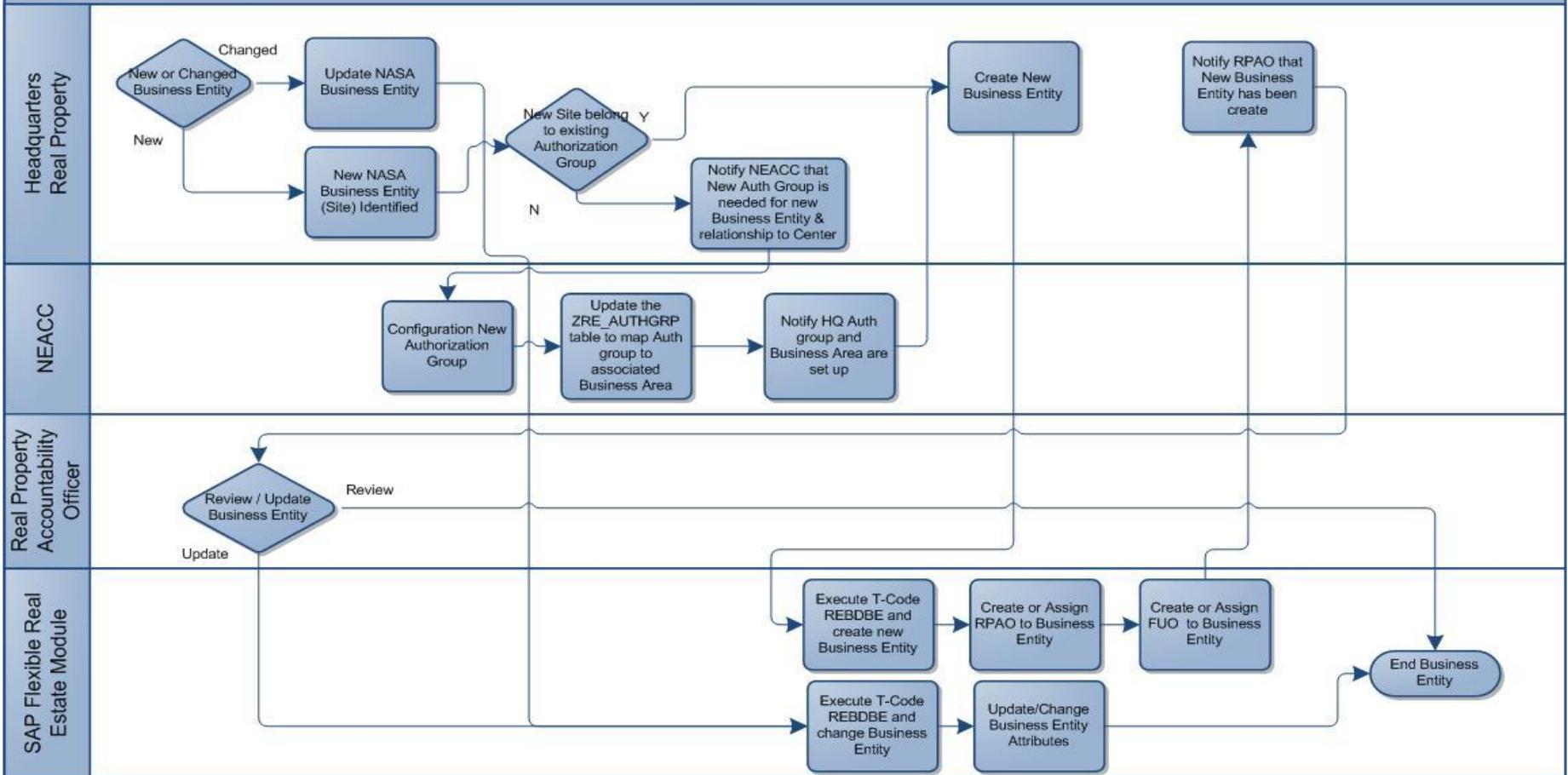
As the Facilities Utilization Officer ...

- 3.1.5 I need the ability to add major facilities information to the RPM system through in order to capture data for reporting.
- 3.1.6 I need the ability to modify major facilities information in the RPM system.
- 3.1.7 I need the ability to delete major facilities information in the RPM system.
- 3.1.8 I want the ability to upload/attach a narrative document (word document) in the RPM system
- 3.1.9 I want the ability to view narrative report document .

RPM Business Process

Create / Update Business Entity

Real Property Management: Create / Update Business Entity

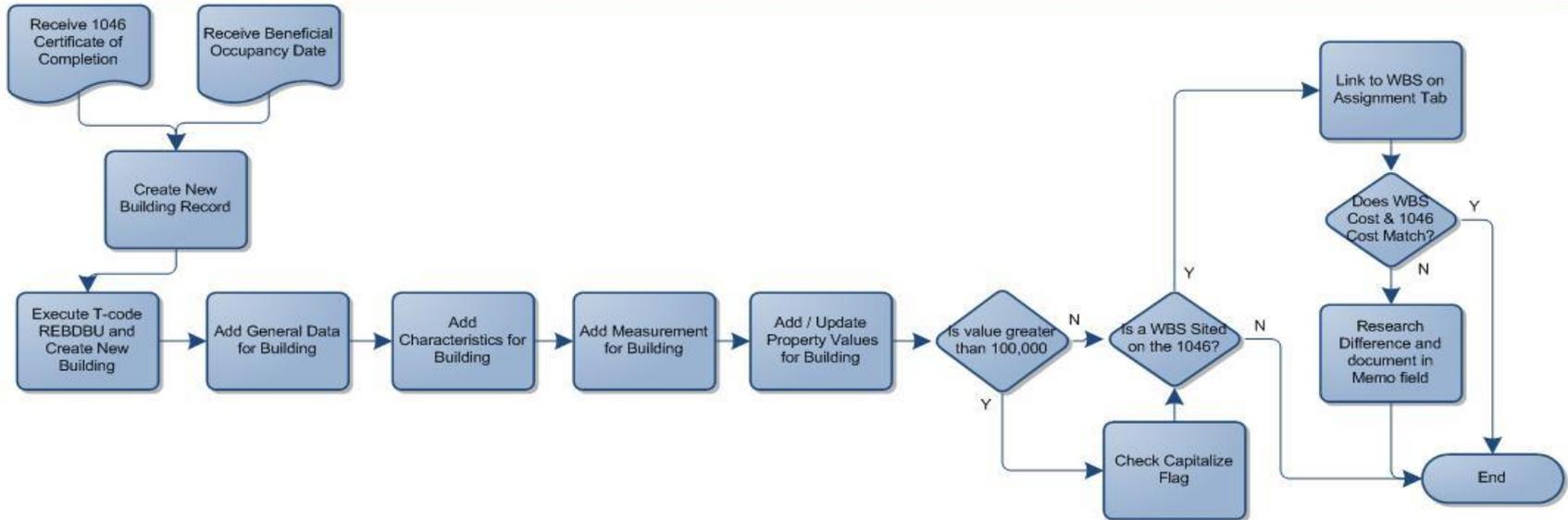


RPM Business Process

Business Process

Real Property Management: Create Building, Structure or Land

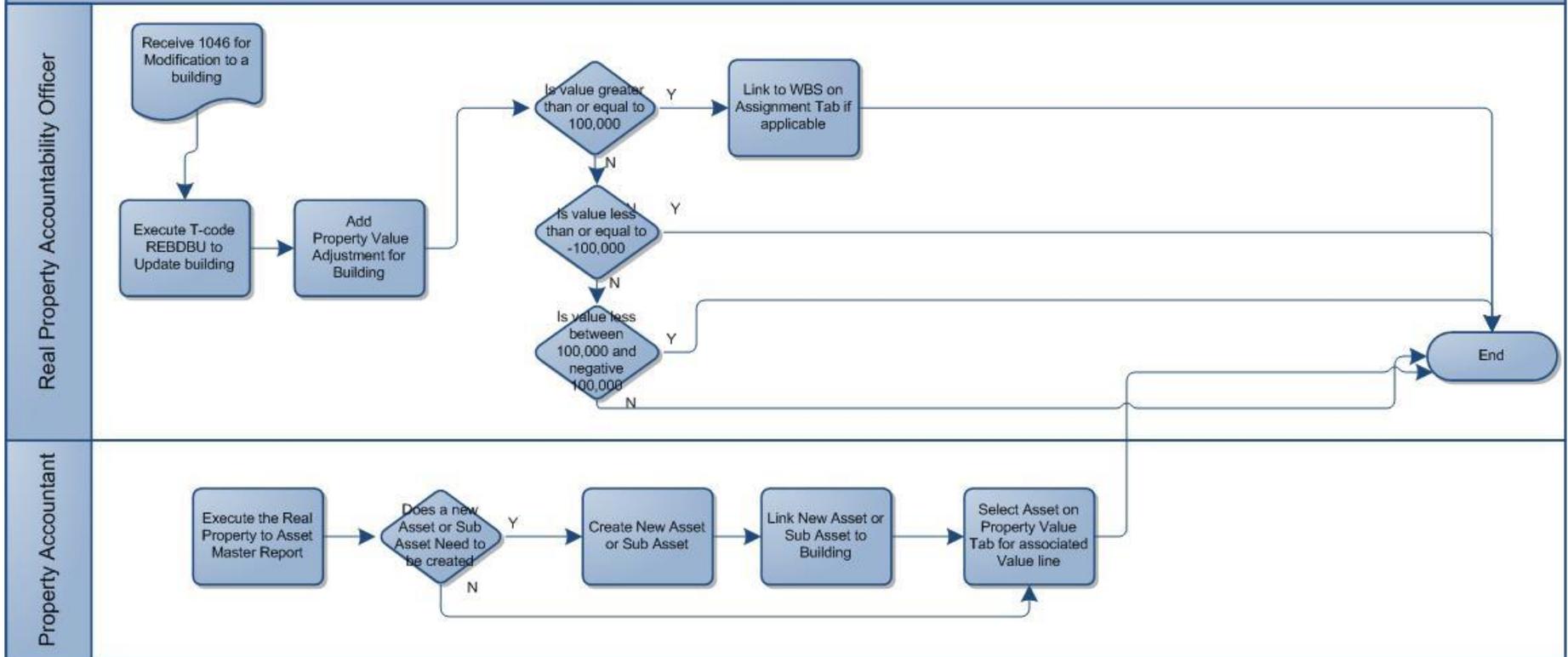
Real Property Accountability Officer



RPM Business Process

Modify / Update Building Value

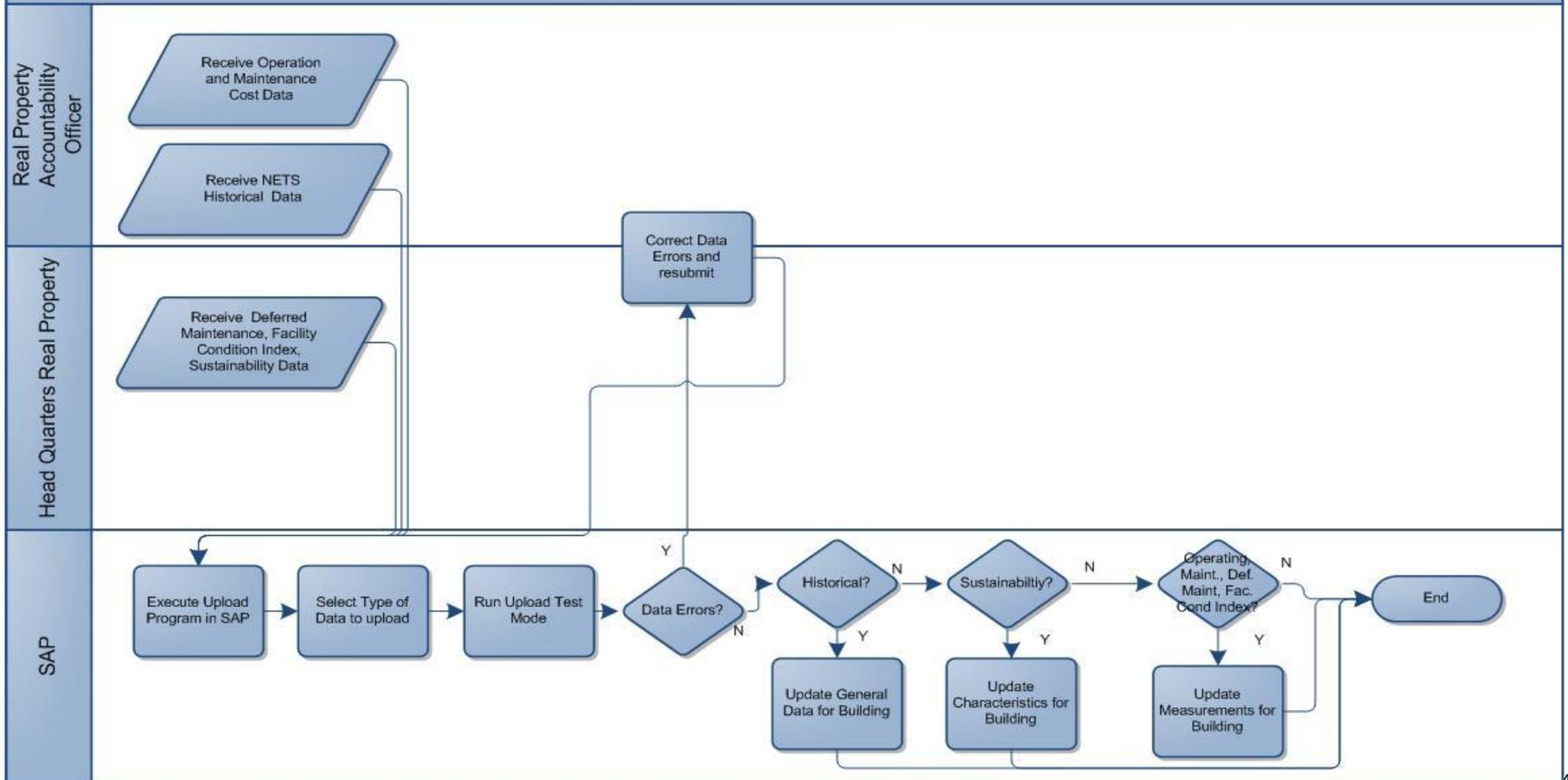
Real Property Management: Modify/Update Building Value



RPM Business Process

Upload Building Attributes Program

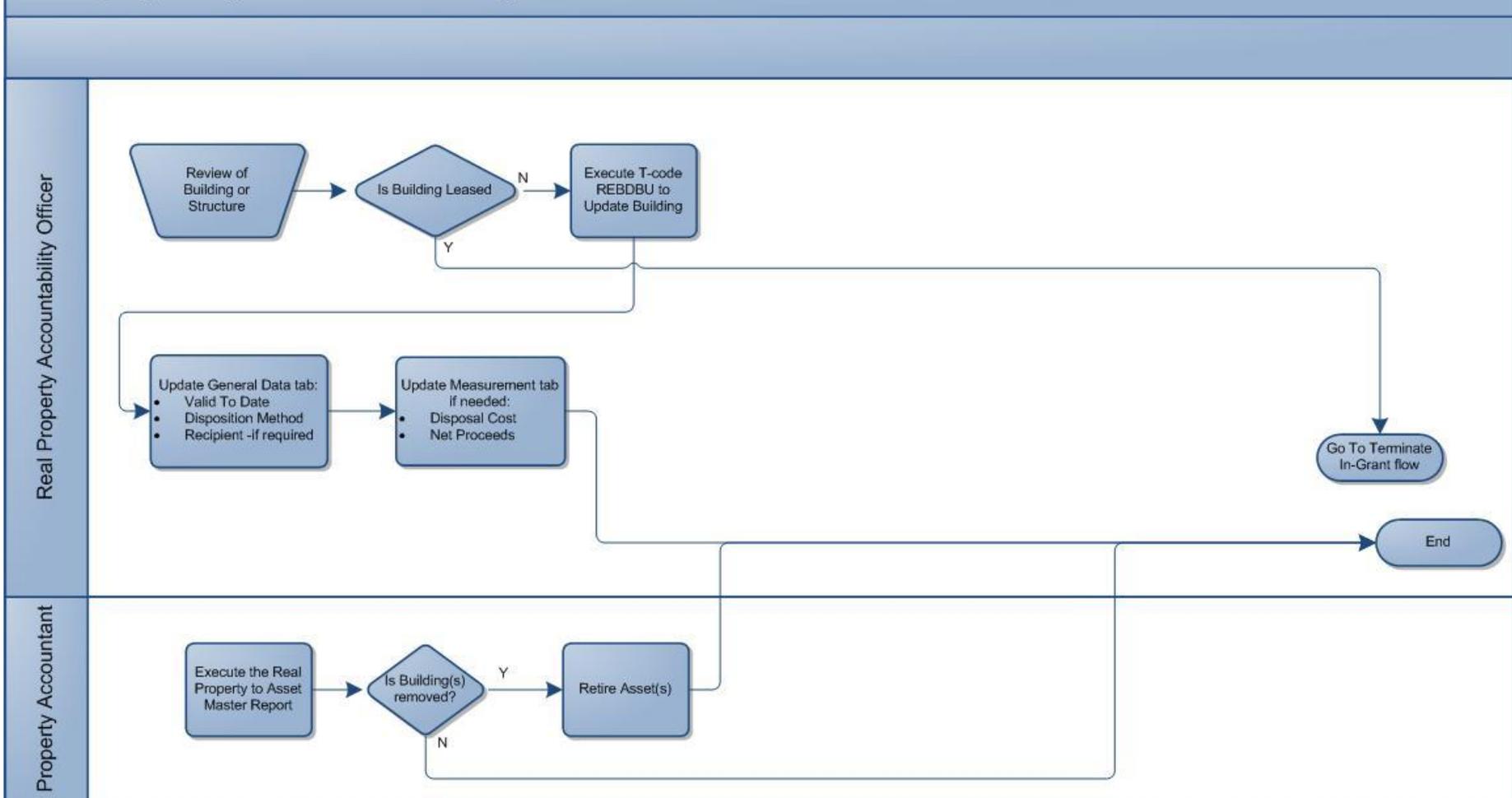
Real Property Management: Upload Building Attributes Program



RPM Business Process

Remove Building

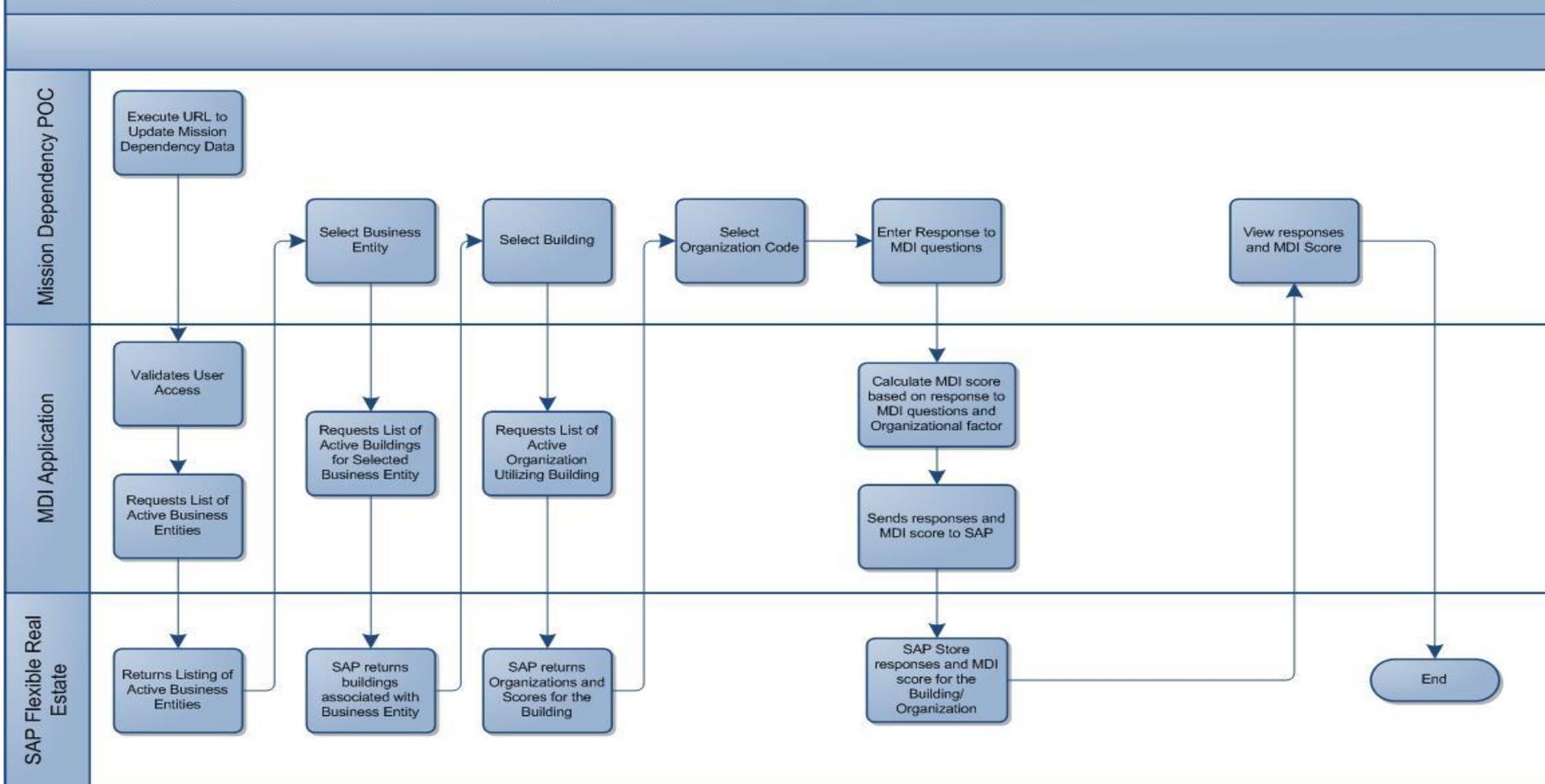
Real Property Management: Remove Building



RPM Business Process

Mission Dependency Index

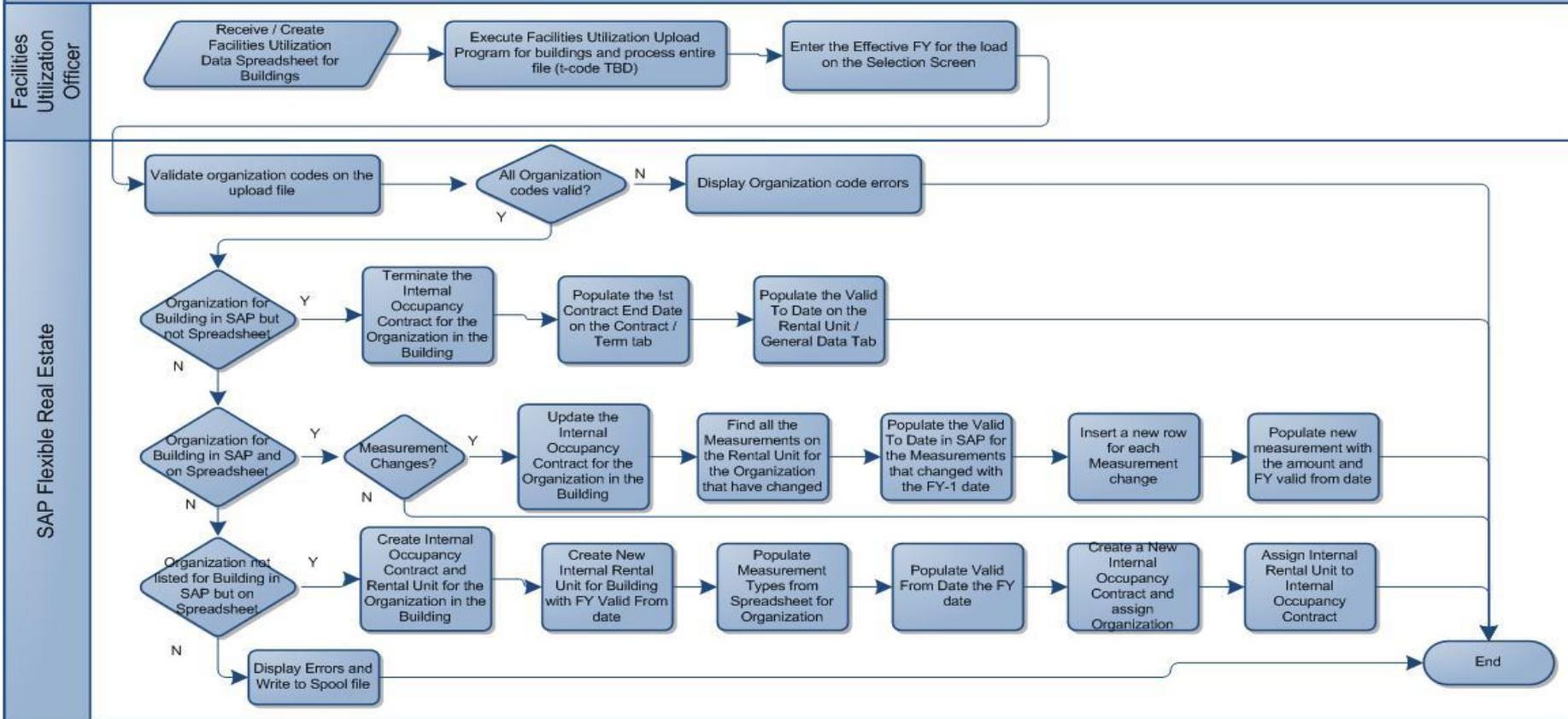
Real Property Management: Mission Dependency Index



RPM Business Process

Facilities Utilization Upload

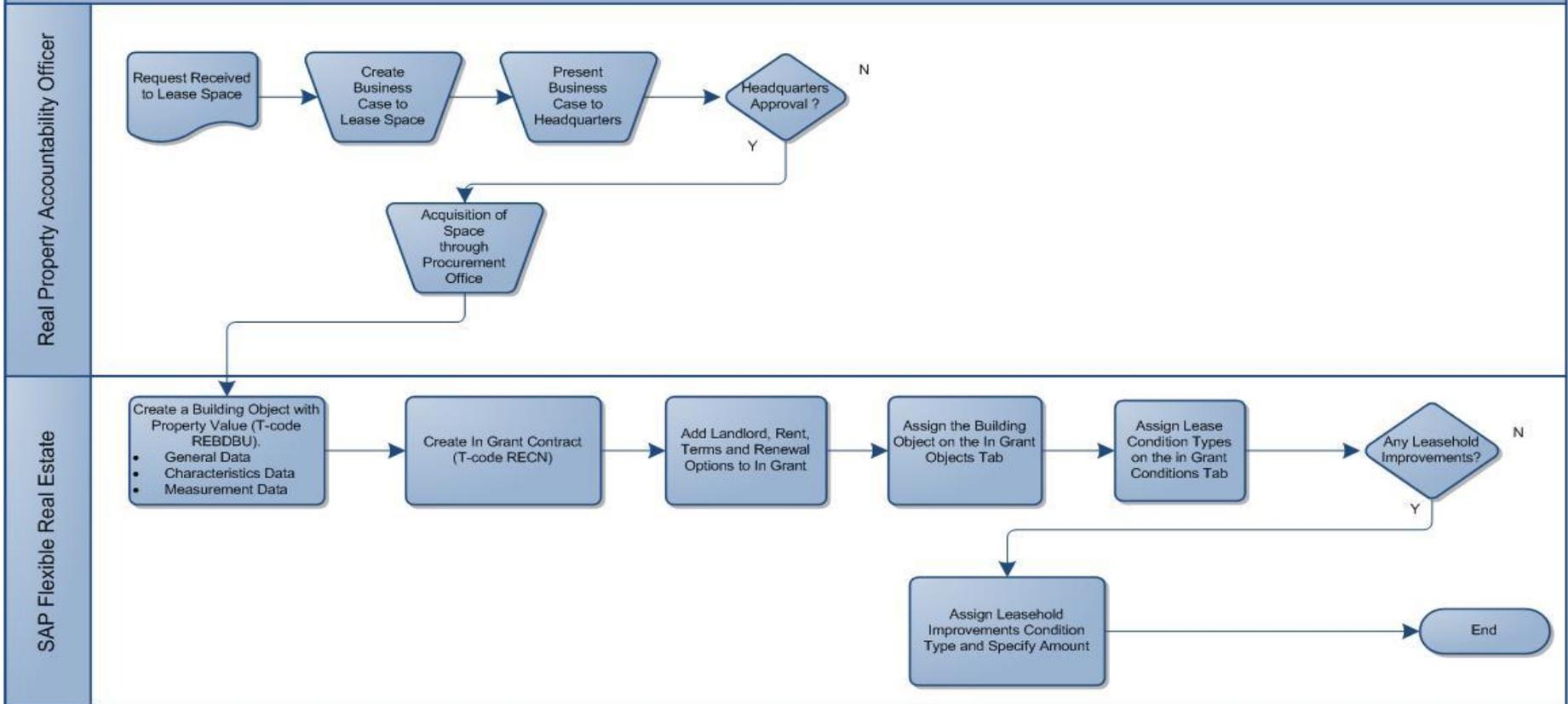
Real Property Management: Facilities Utilization Upload



RPM Business Process

Create In Grant

Real Property Management: Create In Grant



RPM Business Process

Create Out Grant

Real Property Management: Create Out Grant

Real Property Accountability Officer

SAP Flexible Real Estate

