C2M.v2.7.MDM

5.3.3.1 Upload Events

Creation Date: July 7, 2011

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ORACLE

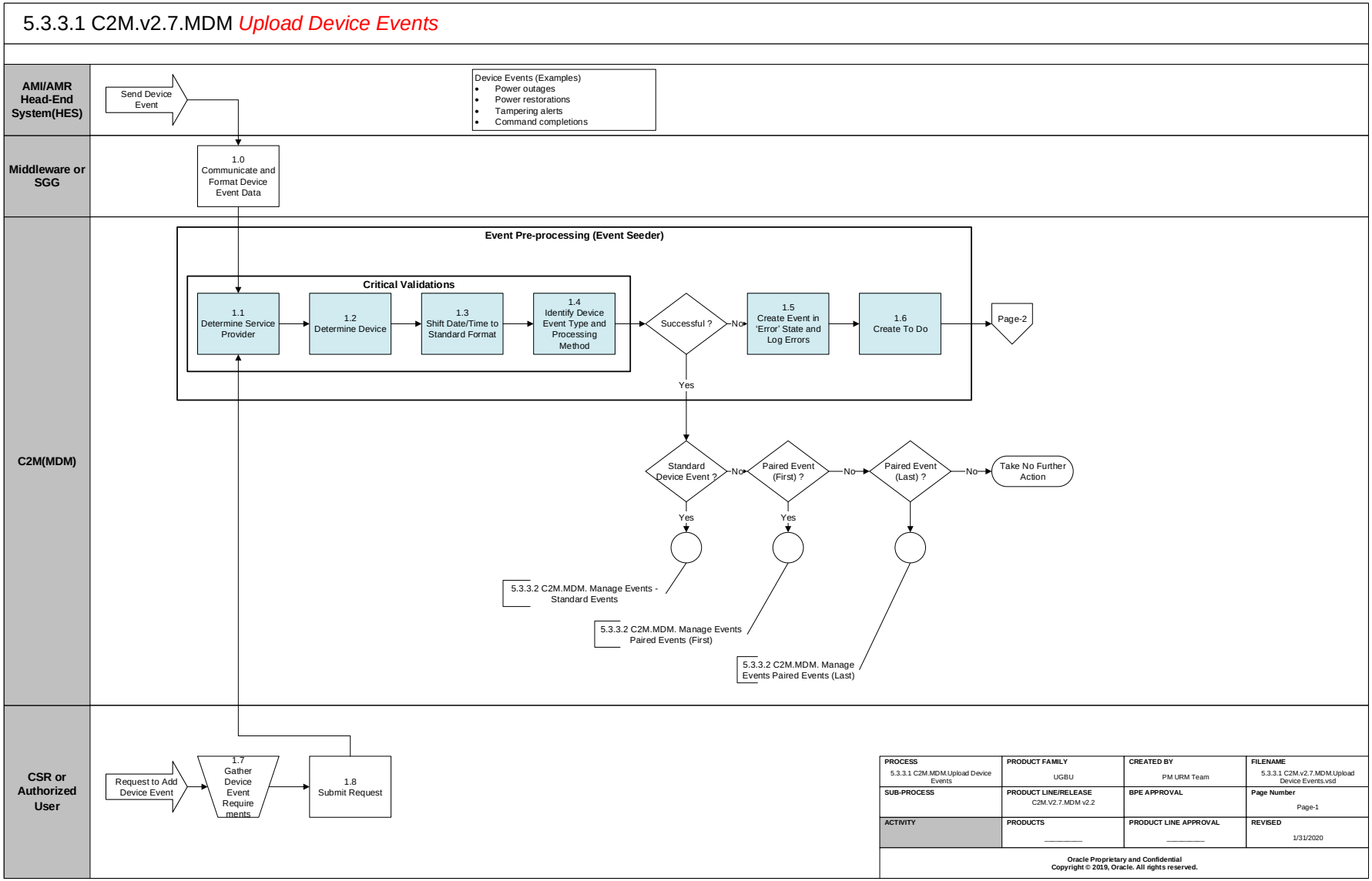
Contents

Brief Description

Business Process: **5.3.3.1 C2M.MDM.Upload Device Events**
Process Type: **Sub-Process**
Parent Process: **5.3.3 C2M.MDM.Manage Events**
Sibling Processes: **5.3.3.2 C2M.MDM.Manage Device Event**

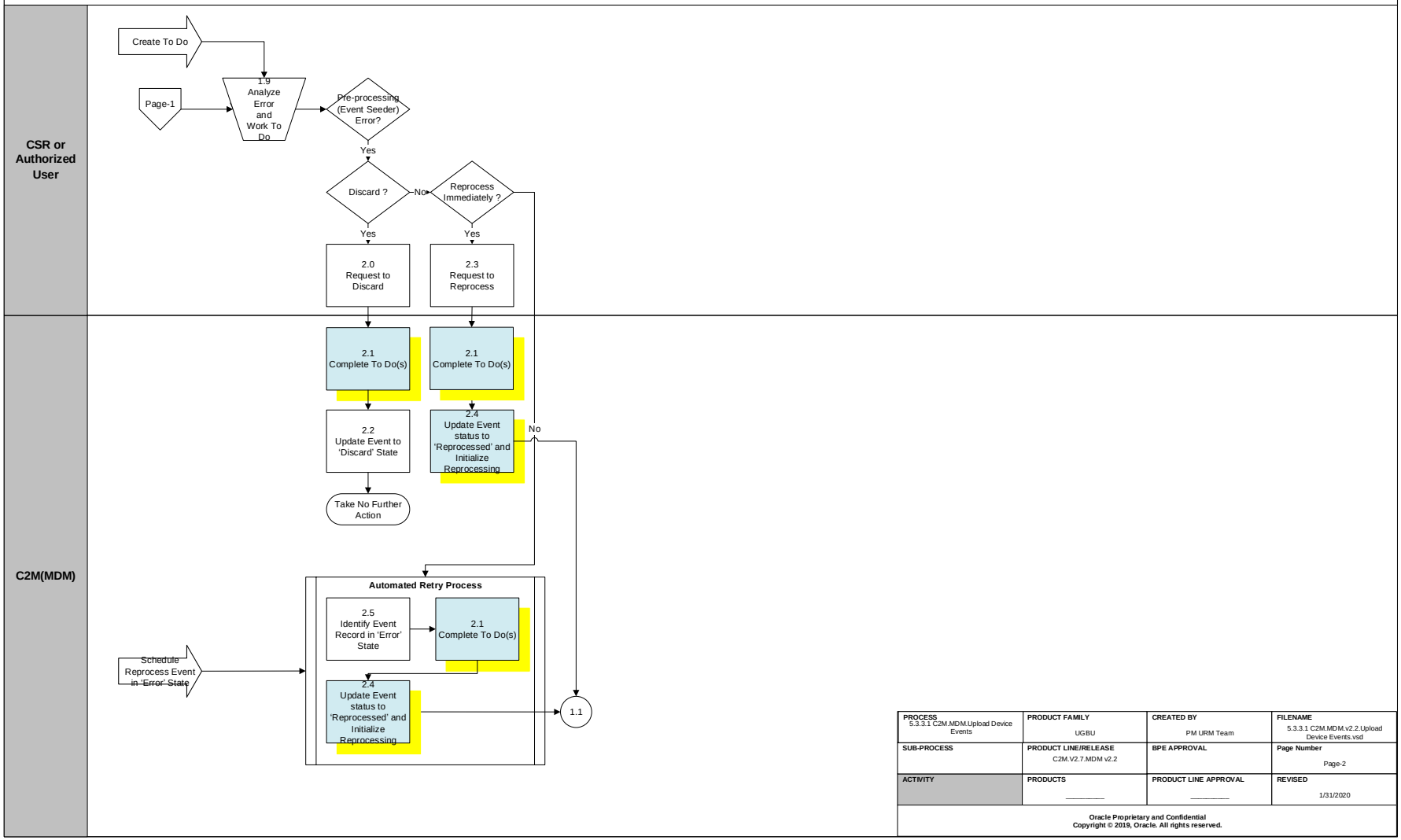
This process takes place when the events are sent from an AMI/AMR Head-End System to C2M(MDM) or created manually by a CSR or Authorized User using C2M(MDM). C2M(MDM) pre-processes the Events and validates them in preparation to be sent to subscribers.

Business Process Model Page 1



Business Process Model Page 2

5.3.3.1 C2M.v2.7.MDM *Upload Device Events. Exception Processing*



Detail Business Process Model Description

1.0 Communicate and Format Device Event Data

A**ctor/Role:** Middleware or SGG
Description: The Middleware is responsible for communication between the C2M(MDM) and the various Head-End Systems (E.g. Echelon Head-End System, Landis & Gyr Head-End System). The Middleware receives the events from the Head-End Systems, transforms, and converts it into the format compatible with the C2M(MDM). It also adds the transformed data into a JMS Queue for further processing by the C2M(MDM).

Note: There is a different set of documentation to be provided for SGG as a middleware.

Group: Event Pre-Processing (Event Seeder)
Group: Critical Validations
1.1 Determine Service Provider

A**ctor/Role:** C2M(MDM)
Description: C2M(MDM) initiates pre-processing of the Event received from Head-End System or created manually by CSR or Authorized User. The primary goal of preprocessing raw data is to perform number of critical validations. C2M(MDM) validates the Service Provider (Head-End System) based on the supplied elements.

Process Plug-in enabled (Y)	**Available Algorithm(s):**	D1-SPRID
Business Object (Y)	**Business Object**	D1-DeviceEventSeeder

Group: Event Pre-Processing (Event Seeder)
Group: Critical Validations
1.2 Determine Device

A**ctor/Role:** C2M(MDM)
Description: C2M(MDM) validates Device information

Process Plug-in enabled (Y/N)	**Available Algorithm(s):**	D1-DEVICEID

Business Object (Y/N)	**Business Object**	D1-DeviceEventSeeder

Group: Event Pre-Processing (Event Seeder)
Group: Critical Validations
1.3 Shift Date/Time to Standard

A**ctor/Role:** C2M(MDM)
Description: C2M(MDM) adjusts the Start Date/Time and End Date/Time, taking into consideration the Daylight Savings Time (DST)

Process Plug-in enabled (Y/N)	**Available Algorithm(s):**	D1-SHEVTDTTM

Business Object (Y/N)	**Business Object**	D1-DeviceEventSeeder

Group: Event Pre-Processing (Event Seeder)
Group: Critical Validations
1.4 Identify Device Event Type and Processing Method

A**ctor/Role:** C2M(MDM)
Description: Application identifies the Device Event Type and determines processing method associated with identified event type.
NOTE: Examples of Event Types could be found in the list of Example Event Types located in the Attachments Section of current document.

Process Plug-in enabled (Y/N)	**Available Algorithm(s):**	D1-DETBOID

Business Object (Y/N)	**Business Object**	D1-DeviceEventSeeder

Group: Event Pre-Processing (Event Seeder)
1.5 Create Event in Error State and Log Errors

A**ctor/Role:** C2M(MDM)
Description: If any of the critical validations fail the application creates event in the "Error" State and adds record in the log.

Process Plug-in enabled (Y/N)	**Available Algorithm(s):**	D1-SETERRFLG

Business Object (Y/N)	Business Object	D1-DeviceEventSeeder

Group: Event Pre-Processing (Event Seeder)

1.6 Create To Do

Actor/Role: C2M(MDM)
Description: Application creates a To Do entry for the Authorized User to analyze error.

Process Plug-in enabled (Y/N)	Available Algorithm(s):	D1-CREATTODO

Business Object (Y/N)	Business Object	D1-DeviceEventSeeder

Configuration required (Y/N)	Entities to Configure:	To Do Type
		To Do Role

1.7 Gather Device Event Requirements

Actor/Role: CSR or Authorized User
Description: CSR or Authorized User gathers the Device Event information.

1.8 Submit Request

Actor/Role: CSR or Authorized User
Description: CSR or Authorized User populates required event data and submits request to create Device Event using the Device Event Seeder screen.

1.9 Analyze Error and Work To Do

Actor/Role: CSR or Authorized User
Description: CSR or Authorized User analyzes the error and respective To Do to determine the corrective action.

Business Object (Y/N)	Business Object	D1-DeviceEventSeeder

2.0 Request to Discard

Actor/Role: CSR or Authorized User
Description: If CSR or Authorized User decides that device event is not relevant, Authorized User requests to discard it.

Business Object (Y/N)	**Business Object**	D1-DeviceEventSeeder

2.1 Complete To Dos

Actor/Role: C2M(MDM)
Description: C2M(MDM) automatically completes To Do entries

Process Plug-in enabled (Y/N)	**Available Algorithm(s):**	D1-COMPDE-TD

Business Object (Y/N)	**Business Object**	D1-DeviceEventSeeder

2.2 Update Event to 'Discard' State

Actor/Role: C2M(MDM)
Description: C2M(MDM) transitions Event Seeder to Discard state indicating that it cannot be used further.

Business Object (Y/N)	**Business Object**	D1-DeviceEventSeeder

2.3 Request to Reprocess

Actor/Role: CSR or Authorized User
Description: CSR or Authorized User requests to reprocess event after error is corrected.

Process Plug-in enabled (Y/N)	**Available Algorithm(s):**	D1-DVENS

Business Object (Y/N)	**Business Object**	D1-DeviceEventSeeder

2.4 Update Event status to 'Reprocessed' and Initialize Reprocessing

Actor/Role: C2M(MDM)
Description: C2M(MDM) transition the seeder to 'Reprocessed' state and initializes reprocessing.

Process Plug-in enabled (Y/N)	**Available Algorithm(s):**	D1-REPRDVCET
Business Object (Y/N)	**Business Object**	D1-DeviceEventSeeder

2.5 Identify Event Record in 'Error' State

Actor/Role: C2M(MDM)
Description: Application continuously monitors Event Seeder to identify seeder records in error state.

Process Plug-in enabled (Y/N)	**Available Algorithm(s):**	D1-DVENS
Business Object (Y/N)	**Business Object**	D1-DeviceEventSeeder

Test Documentation related to the Current Process

ID	Document Name	Test Type

Document Control

Change Record

Date	Author	Version	Change Reference
07/07/2011	Ben Su	1	Initial version
09/01/2011	Ben Su		Update
09/02/2011	Galina Polonsky		Review
12/07/2011	Ben Su		Update
07/12/2012	Galina Polonsky		Minor Updates, Reviewed, Approved
07/10/2015	Galina Polonsky		Minor Updates, Reviewed, Approved
08/30/2017	Ekta Dua		Updated document and visio to v2.2
05/30/2018	Srinivas Kanteti		Updated Visio and Word Doc
6/5/2019	Satya Kalavala		Updated format for v2.7
1/31/2020	Antonio Napoli		Changed Filename, Process name as per URM formatting in this document and Visio

Attachments

Event Seeder Lifecycle

Event Seeder Lifecycle.docx

Example Event Types

D1-DETYPLIST.xlsx

Device Event Search

Device Event Search.doc

Device Event Seeder

Device Event Seeder.doc