



# METER DATA MANAGEMENT V 2.2

## 5.3.3.1 Upload Events

Creation Date: July 7, 2011

Last Updated: April 13, 2020

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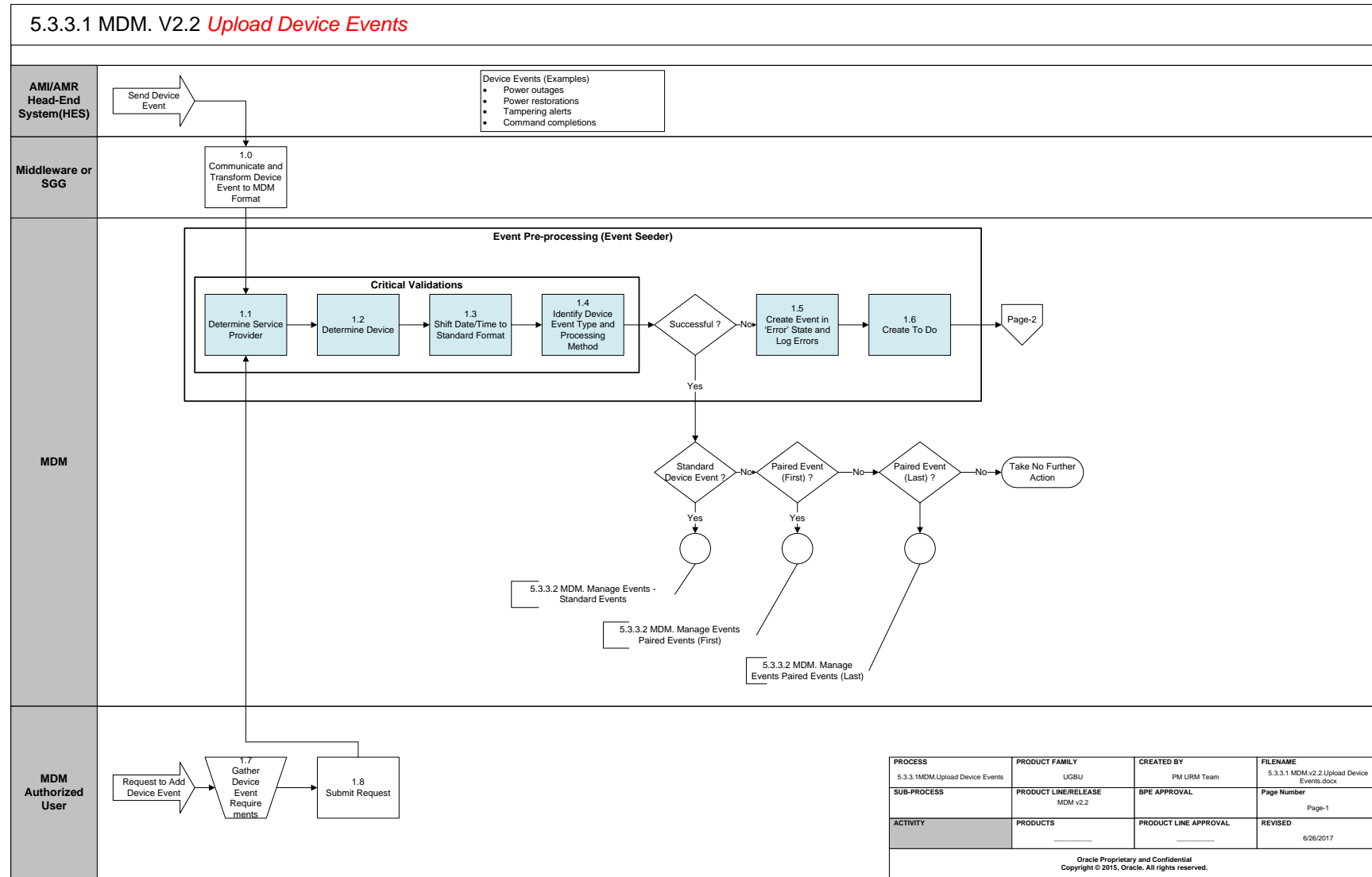
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## Brief Description

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

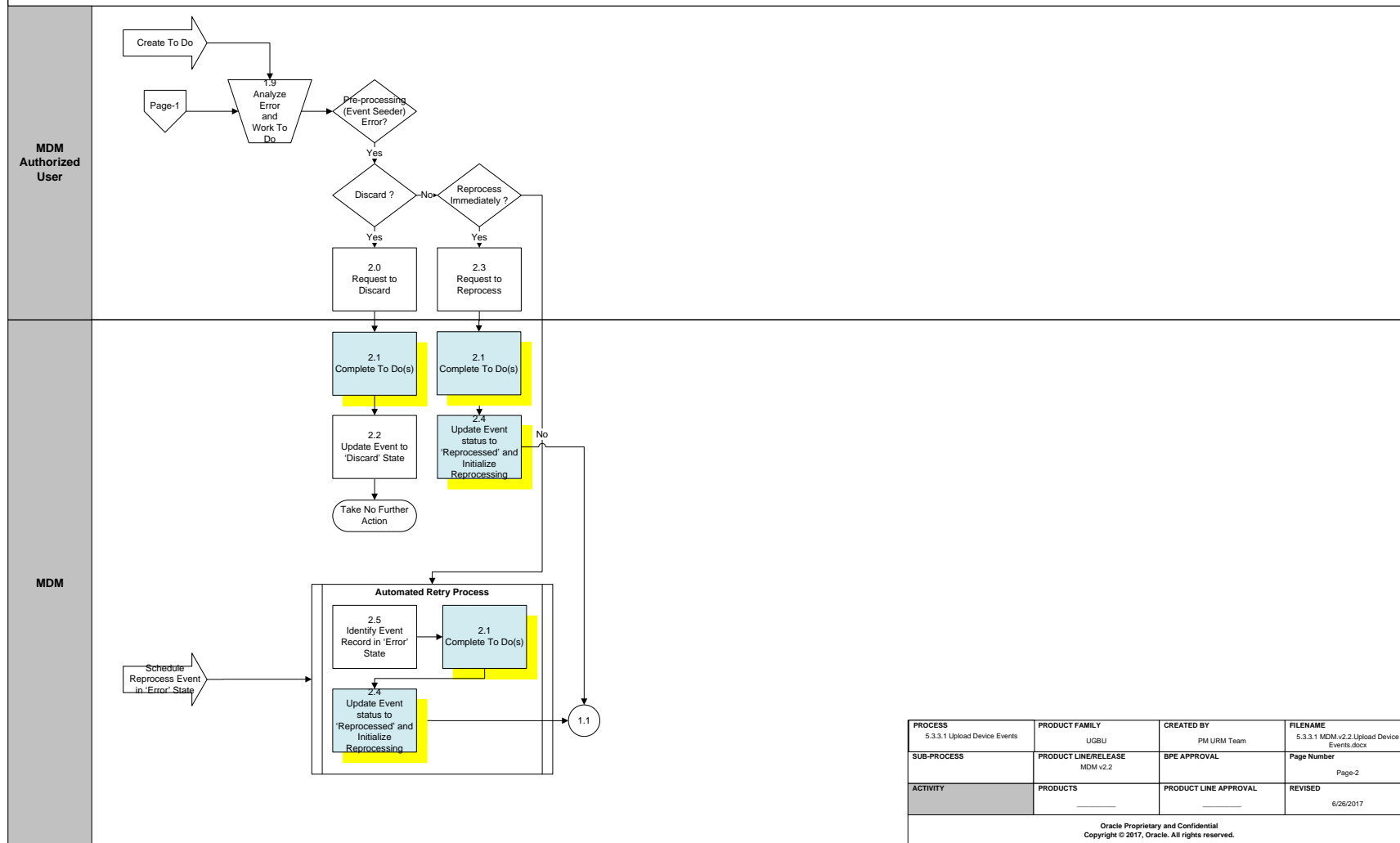
This process takes place when the events are sent from an AMI/AMR Head-End System to MDM or created manually by an Authorized User using MDM. MDM pre-processes the Events and validates them in preparation to be sent to subscribers.

# Business Process Model Page 1



# Business Process Model Page 2

## 5.3.3.1 MDM. V2.2 *Upload Device Events. Exception Processing*



PROCESS	5.3.3.1 Upload Device Events	PRODUCT FAMILY	UGBU	CREATED BY	PM URM Team	FILENAME	5.3.3.1 MDM.v2.2 Upload Device Events.docx
SUB-PROCESS		PRODUCT LINE/RELEASE	MDM v2.2	BPE APPROVAL		Page Number	Page-2
ACTIVITY		PRODUCTS		PRODUCT LINE APPROVAL		REVISED	6/26/2017

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## Detail Business Process Model Description

### 1.0 Communicate and Transform Meter Read Data to MDM Format

**Actor/Role:** Middleware or SGG

**Description:** The Middleware is responsible for communication between the 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 MDM. It also adds the transformed data into a JMS Queue for further processing by the 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

**Actor/Role:** MDM

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

**Process Plug-in enabled (Y)**      **Available Algorithm(s):**

**Business Object (Y)**              **Business Object**

#### Group: Event Pre-Processing (Event Seeder)

##### Group: Critical Validations

#### 1.2 Determine Device

**Actor/Role:** MDM

**Description:** MDM validates Device information

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

**Business Object (Y/N)**                      **Business Object**                     

**Group: Event Pre-Processing (Event Seeder)**

**Group: Critical Validations**

**1.3 Shift Date/Time to Standard**

**Actor/Role:**      MDM

**Description:**    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):**                     

**Business Object (Y/N)**                      **Business Object**                     

**Group: Event Pre-Processing (Event Seeder)**

**Group: Critical Validations**

**1.4 Identify Device Event Type and Processing Method**

**Actor/Role:**      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):**                     

**Business Object (Y/N)**                      **Business Object**                     

**Group: Event Pre-Processing (Event Seeder)**

**1.5 Create Event in Error State and Log Errors**

**Actor/Role:**      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):**



**Business Object (Y/N)**                      **Business Object**

D1-DeviceEventSeeder
----------------------

**Group: Event Pre-Processing (Event Seeder)**

**1.6 Create To Do**

**Actor/Role:**     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
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**Business Object (Y/N)**                      **Business Object**

D1-DeviceEventSeeder
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**Configuration required (Y/N)**                      **Entities to Configure:**

To Do Type
To Do Role

**1.7 Gather Device Event Requirements**

**Actor/Role:**     MDM Authorized User

**Description:**     MDM Authorized User gathers the Device Event information.

**1.8 Submit Request**

**Actor/Role:**     MDM Authorized User

**Description:**     MDM 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:**     MDM Authorized User

**Description:**     MDM Authorized User analyzes the error and respective To Do to determine the corrective action.

<b>Business Object (Y/N)</b>	<b>Business Object</b>	<input type="text" value="D1-DeviceEventSeeder"/>
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### 2.0 Request to Discard

**Actor/Role:** MDM Authorized User

**Description:** If MDM Authorized User decides that device event is not relevant, Authorized User requests to discard it.

<b>Business Object (Y/N)</b>	<b>Business Object</b>	<input type="text" value="D1-DeviceEventSeeder"/>
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### 2.1 Complete To Dos

**Actor/Role:** MDM

**Description:** MDM automatically completes To Do entries

<b>Process Plug-in enabled (Y/N)</b>	<b>Available Algorithm(s):</b>	<input type="text" value="D1-COMPDE-TD"/>
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<b>Business Object (Y/N)</b>	<b>Business Object</b>	<input type="text" value="D1-DeviceEventSeeder"/>
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### 2.2 Update Event to 'Discard' State

**Actor/Role:** MDM

**Description:** MDM transitions Event Seeder to Discard state indicating that it cannot be used further.

<b>Business Object (Y/N)</b>	<b>Business Object</b>	<input type="text" value="D1-DeviceEventSeeder"/>
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### 2.3 Request to Reprocess

**Actor/Role:** MDM Authorized User

**Description:** MDM Authorized User requests to reprocess event after error is corrected.

<b>Process Plug-in enabled (Y/N)</b>	<b>Available Algorithm(s):</b>	<input type="text" value="D1-DVENS"/>
<b>Business Object (Y/N)</b>	<b>Business Object</b>	<input type="text" value="D1-DeviceEventSeeder"/>

#### **2.4 Update Event status to 'Reprocessed' and Initialize Reprocessing**

**Actor/Role:** MDM

**Description:** MDM transition the seeder to 'Reprocessed' state and initializes reprocessing.

<b>Process Plug-in enabled (Y/N)</b>	<b>Available Algorithm(s):</b>	<input type="text" value="D1-REPRDVCET"/>
<b>Business Object (Y/N)</b>	<b>Business Object</b>	<input type="text" value="D1-DeviceEventSeeder"/>

#### **2.5 Identify Event Record in 'Error' State**

**Actor/Role:** MDM

**Description:** Application continuously monitors Event Seeder to identify seeder records in error state.

<b>Process Plug-in enabled (Y/N)</b>	<b>Available Algorithm(s):</b>	<input type="text" value="D1-DVENS"/>
<b>Business Object (Y/N)</b>	<b>Business Object</b>	<input type="text" value="D1-DeviceEventSeeder"/>

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## Test Documentation related to the Current Process

ID	Document Name	Test Type

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## 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

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## 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