C2M.v2.7.MDM
5.3.3.1 Upload Events

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Contents

BRIEF DESCRIPTION ........................................................................................................................................ 4
BUSINESS PROCESS MODEL PAGE 1 ......................................................................................................................... 5
BUSINESS PROCESS MODEL PAGE 2 ......................................................................................................................... 6
DETAIL BUSINESS PROCESS MODEL DESCRIPTION ............................................................................................ 7
TEST DOCUMENTATION RELATED TO THE CURRENT PROCESS ........................................................................ 12
DOCUMENT CONTROL ............................................................................................................................................ 13
ATTACHMENTS ...................................................................................................................................................... 14
  Event Seeder Lifecycle ......................................................................................................................................... 14
  Example Event Types .......................................................................................................................................... 14
  Device Event Search .......................................................................................................................................... 14
  Device Event Seeder .......................................................................................................................................... 14
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.
5.3.3.1 C2M.v2.7.MDM Upload Device Events

**Business Process Model  Page 1**

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

<table>
<thead>
<tr>
<th>Middleware or SGG</th>
<th>AMI/AMR Head-End System (HES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 Communicate and Format Device Event Data</td>
<td>Send Device Event</td>
</tr>
</tbody>
</table>

**Event Pre-processing (Event Seeder)**

1.1 Determine Service Provider
1.2 Determine Device
1.3 SNR Date/Time to Standard Format
1.4 Identify Device Event Type and Processing Method

1.5 Create Event in 'Error' State and Log Errors
1.6 Create To Do

Critical Validations

- 5.3.3.2 C2M.MDM Manage Events - Standard Events
- 5.3.3.2 C2M.MDM Manage Events Paired Events (First)
- 5.3.3.2 C2M.MDM Manage Events Paired Events (Last)

CSR or Authorized User

1.7 Gather Device Event Requirements
1.8 Submit Request

Standard Event
Paired Event (First)
Paired Event (Last)
Take No Further Action

Send Device Event
Detail Business Process Model Description

1.0 Communicate and Format Device Event Data

**Actor/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)

**1.1 Determine Service Provider**

**Actor/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):**

<table>
<thead>
<tr>
<th>Available Algorithm(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1-SPRID</td>
</tr>
</tbody>
</table>

**Business Object (Y) Business Object**

<table>
<thead>
<tr>
<th>Business Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1-DeviceEventSeeder</td>
</tr>
</tbody>
</table>

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

**1.2 Determine Device**

**Actor/Role:** C2M(MDM)

**Description:** C2M(MDM) validates Device information.

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

<table>
<thead>
<tr>
<th>Available Algorithm(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1-DEVICEID</td>
</tr>
</tbody>
</table>
### Business Object (Y/N)  
**Business Object**  
D1-DeviceEventSeeder

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


**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.

<table>
<thead>
<tr>
<th>Process Plug-in enabled (Y/N)</th>
<th>Available Algorithm(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y/N</td>
<td>D1-CREATTODO</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Business Object (Y/N)</th>
<th>Business Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y/N</td>
<td>D1-DeviceEventSeeder</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Configuration required (Y/N)</th>
<th>Entities to Configure:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y/N</td>
<td>To Do Type</td>
</tr>
<tr>
<td></td>
<td>To Do Role</td>
</tr>
</tbody>
</table>

**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.
## 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.

<table>
<thead>
<tr>
<th>Business Object (Y/N)</th>
<th>Business Object</th>
<th>D1-DeviceEventSeeder</th>
</tr>
</thead>
</table>

## 2.1 Complete To Dos

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

<table>
<thead>
<tr>
<th>Process Plug-in enabled (Y/N)</th>
<th>Available Algorithm(s):</th>
<th>D1-COMPDE-TD</th>
</tr>
</thead>
</table>

## 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.

<table>
<thead>
<tr>
<th>Business Object (Y/N)</th>
<th>Business Object</th>
<th>D1-DeviceEventSeeder</th>
</tr>
</thead>
</table>

## 2.3 Request to Reprocess

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

<table>
<thead>
<tr>
<th>Process Plug-in enabled (Y/N)</th>
<th>Available Algorithm(s):</th>
<th>D1-DVENS</th>
</tr>
</thead>
</table>
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):**
--- | ---
**Y** | D1-REPRDVCET

**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):**
--- | ---
**Y** | D1-DVENS

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

**Business Object (Y/N)** | **Business Object**
--- | ---
**Y** | D1-DeviceEventSeeder
# Test Documentation related to the Current Process

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<thead>
<tr>
<th>ID</th>
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## Document Control

### Change Record

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<th>Author</th>
<th>Version</th>
<th>Change Reference</th>
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<td>Ben Su</td>
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</tr>
<tr>
<td>09/01/2011</td>
<td>Ben Su</td>
<td></td>
<td>Update</td>
</tr>
<tr>
<td>09/02/2011</td>
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<td></td>
<td>Review</td>
</tr>
<tr>
<td>12/07/2011</td>
<td>Ben Su</td>
<td></td>
<td>Update</td>
</tr>
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<tr>
<td>08/30/2017</td>
<td>Ekta Dua</td>
<td></td>
<td>Updated document and visio to v2.2</td>
</tr>
<tr>
<td>05/30/2018</td>
<td>Srinivas Kanteti</td>
<td></td>
<td>Updated Visio and Word Doc</td>
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<tr>
<td>06/5/2019</td>
<td>Satya Kalavala</td>
<td></td>
<td>Updated format for v2.7</td>
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<tr>
<td>01/31/2020</td>
<td>Antonio Napoli</td>
<td></td>
<td>Changed Filename, Process name as per URM formatting in this document and Visio</td>
</tr>
</tbody>
</table>
Attachments

**Event Seeder Lifecycle**

![Event Seeder Lifecycle.docx](EventSeederLifecycle.docx)

**Example Event Types**

![D1-DETYPLIST.xlsx](D1-DETYPLIST.xlsx)

**Device Event Search**

![Device Event Search.doc](DeviceEventSearch.doc)

**Device Event Seeder**

![Device Event Seeder.doc](DeviceEventSeeder.doc)