C2M.v2.7.MDM

5.3.3.2 C2M.MDM.Manage Device Events

Creation Date:       June 16, 2011
Last Updated:        February 11, 2020
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Brief Description

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

This process gets initiated when the Device Events successfully pass through pre-processing Event Seeder validations. This process manages creation of different types of Device Events in SGG, processing them and sending the Device Event information to the Subscribers.
5.3.3.2 C2M.v2.7.MDM Manage Device Events

Standard Device Event Processing

1.0 Create Event Record in Pending State
1.1 Update Event to Additional Processing State
1.2 Determine Activity Type and Create Activity
1.3 Update Event to Held State
1.4 Update Event to Subscription State
1.5 Update Event to Sent to Subscriber State
1.6 Analyze Device Event for Subscription
1.7 Determine Subscription
1.8 Determine Send Method for Each Subscriber
1.9 Prepare Device Event Data and Create Output File
1.10 Communicate and Transform Device Event Data to Subscriber Format
1.11 Send Flat File
1.12 Send to Subscriber
1.13 Take No Further Action

2.0 Update the Batch Details
2.1 Prepare Device Event Data and Create Output File
2.2 Send Flat File
2.3 Create Outbound Message and Send to Subscriber
2.4 Communicate and Transform Device Event Data to Subscriber Format
2.5 Receive Device Event Information

Sent to Subscriber

1.5 Update Event to Sent to Subscriber State

Authorized
User

C2M (MDM)

Middleware or
SGG

3rd Party
Subscriber

Upload Device Events Process

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5.3.3.2 C2M.v2.7.MDM Manage Device Events

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<table>
<thead>
<tr>
<th>3rd Party Subscriber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middleware or SGG</td>
</tr>
<tr>
<td>C2M(MDM)</td>
</tr>
<tr>
<td>MDM Authorized User</td>
</tr>
</tbody>
</table>

Device Event – Paired Event (Last) Processing

1.0 Create Event Record in 'Pending' State
1.1 Update Event to Additional Processing State
1.2 Determine First Device Event Related to Activity
1.3 Analyze Device Event for Subscriptions(s)
1.4 Update Event to 'Held' State
1.5 Update Event to 'Sent to Subscriber' State
1.6 Subscription Exists?
1.7 Determine Subscription(s)
1.8 Determine Send Method for Each Subscriber
2.0 Update the Batch Details
2.1 Prepare Device Event Data and Create Output File
2.2 Create Outbound Message and Send to Subscriber
2.3 Send Flat File
2.4 Communicate and Transform Device Event Data to Subscriber Format
3.2 Receive Device Event Information
4.0 Update First Event to Discard State
4.1 Update Last Event to Discard State
5.0 Proceed for Sending and Send Data
6.0 Determine Send Method for Each Subscriber
7.0 Update Activity to End State and Populate End Date/Time for Activity
8.0 Discard Pair of Events
9.0 Proceed for Sending and Send Data
10.0 Take No Further Action

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5.3.3.2 C2M.v2.7.MDM Manage Device Events. Error Processing

MDM Authorized User

Page 3

4.2 Analyze Error

4.3 Work on Error and Request to Update

MDM

C2M

4.4 Update Event and Activity Period

Take No Further Action

C2M(MDM)
Detail Business Process Model Description

Group: Standard Device Event Processing
Group: Device Event-Paired Event (First) Processing
Group: Device Event-Paired Event (Last) Processing

1.0 Create Event Record in ‘Pending’ State

Actor/Role: C2M(MDM)
Description: C2M(MDM) performs validations to ensure the availability of correct input data such as External Sender ID and External Event Name and creates the Device Event in ‘Pending’ state. C2M(MDM) identifies if Device Event is Standard Device Event, or Paired Event (First) or Paired Event (Last) and processes them accordingly. Note: Device Event Type is determined during Event Seeder processing (see 5.3.3.1 C2M(MDM).Upload Device Events process for details)

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

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Plug-in enabled</td>
<td>D1-DVEVTINFO (Device Event Info)</td>
</tr>
<tr>
<td></td>
<td>D1-VALDVCEVT (Validate Device Event)</td>
</tr>
<tr>
<td></td>
<td>D1-VALDEXEVT (Validate External Event Name)</td>
</tr>
</tbody>
</table>

Business Object (Y/N) Business Object

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Business Object</td>
<td>D1-Device Event</td>
</tr>
<tr>
<td></td>
<td>D1-StandardDeviceEvent</td>
</tr>
<tr>
<td></td>
<td>D1-PairedEventFirstDeviceEvent</td>
</tr>
<tr>
<td></td>
<td>D1-PairedEventLastDeviceEvent</td>
</tr>
</tbody>
</table>

Group: Standard Device Event Processing
Group: Device Event-Paired Event (First) Processing
Group: Device Event-Paired Event (Last) Processing

1.1 Update Event to ‘Additional Processing’ State

Actor/Role: C2M(MDM)
Description: C2M(MDM) immediately updates the Device Event life-cycle state from ‘Pending’ to ‘Additional Processing’ State. Any additional custom logic can be implemented for this Event in this state.

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

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Plug-in enabled</td>
<td>F1-AT-RQJ (Transition to Default Next Status)</td>
</tr>
</tbody>
</table>
5.3.3.2 C2M.v2.7.MDM.Manage Device Events

### Business Object (Y/N) Business Object

| D1-Device Event |
| D1-StandardDeviceEvent |
| D1-PairedEventFirstDeviceEvent |
| D1-PairedEventLastDeviceEvent |

#### Group: Standard Device Event Processing

1.2 Determine Activity Type and Create Activity

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

**Description:** If there is an Activity associated with the current Standard Device Event, C2M(MDM) creates Activity with appropriate type.

#### Note: It is advisable to create a separate Device Event type based on Standard Device Event if there process requires Activity is to be linked to event.

### Business Object (Y/N) Business Object

| D1-Device Event |
| D1-StandardDeviceEvent |
| D1-PairedEventFirstDeviceEvent |
| D1-PairedEventLastDeviceEvent |

#### Group: Standard Device Event Processing

1.3 Link to Activity and Update Activity

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

**Description:** C2M(MDM) creates link between Device Event and newly created or existing Activity.
Group: Standard Device Event Processing

1.4 Update Event to ‘Held’ State

Actor/Role: C2M(MDM)
Description: C2M(MDM) updates the Device Event to ‘Held’ state.

Process Plug-in enabled (Y/N)  Available Algorithm(s): F1-AT-RQJ (Transition to Default Next Status)

Business Object (Y/N)  Business Object
D1-Device Event
D1-StandardDeviceEvent
D1-PairedEventFirstDeviceEvent
D1-PairedEventLastDeviceEvent

Group: Standard Device Event Processing

1.5 Update Event to ‘Sent to Subscriber’ State

Actor/Role: C2M(MDM)
Description: C2M(MDM) updates the Device Event to ‘Sent to Subscriber’ state. This state is meant to implement logic to send the Device Event information to 3rd party subscribers who have interest and subscribed to the ‘Device Event Category’ in which this Device Event falls.

Process Plug-in enabled (Y/N)  Available Algorithm(s): F1-AT-RQJ (Transition to Default Next Status)

Business Object (Y/N)  Business Object
D1-Device Event
D1-StandardDeviceEvent
D1-PairedEventFirstDeviceEvent
D1-PairedEventLastDeviceEvent

Group: Standard Device Event Processing

Group: Sent to Subscriber

1.6 Analyze Device Event for Subscription(s)
### 5.3.3.2 C2M.v2.7.MDM.Manage Device Events

**Actor/Role:** C2M(MDM)  
**Description:** C2M(MDM) analyzes the Processing role, Device Event, and related Device Event Category to determine the available subscriptions.

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

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

<table>
<thead>
<tr>
<th>Available Algorithm(s):</th>
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<tbody>
<tr>
<td>D1-Device Event</td>
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<tr>
<td>D1-StandardDeviceEvent</td>
</tr>
<tr>
<td>D1-PairedEventFirstDeviceEvent</td>
</tr>
<tr>
<td>D1-PairedEventLastDeviceEvent</td>
</tr>
</tbody>
</table>

#### Configuration required (Y/N)  
**Entities to Configure:**

<table>
<thead>
<tr>
<th>Processing Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processing Method for Processing Role for Head-End Systems</td>
</tr>
</tbody>
</table>

**Group:** Standard Device Event Processing  
**Group:** Sent to Subscriber  
**1.7 Determine Subscriber(s)**

**Actor/Role:** C2M(MDM)  
**Description:** C2M(MDM) identifies the Device Event category, and then determines the list of Service Providers who have subscribed to this Device Event Category.

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

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

<table>
<thead>
<tr>
<th>Available Algorithm(s):</th>
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<tbody>
<tr>
<td>D1-Device Event</td>
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<tr>
<td>D1-StandardDeviceEvent</td>
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<tr>
<td>D1-PairedEventLastDeviceEvent</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Processing Role</th>
</tr>
</thead>
</table>
Configuration required (Y/N)  Entities to Configure: | Processing Method for Processing Role for Head-End Systems
---|---

Group: Standard Device Event Processing

**1.8 Determine Send Method for Each Subscriber**

**Actor/Role:** C2M(MDM)
**Description:** C2M(MDM) determines method (sending mechanism) how to send Event information to Subscriber(s).

**Process Plug-in enabled (Y/N)  Available Algorithm(s):** | D1-SENĐTOSUB (Send to Subscribers)
---|---
**Business Object (Y/N)  Business Object**
- D1-Device Event
- D1-StandardDeviceEvent
- D1-PairedEventFirstDeviceEvent
- D1-PairedEventLastDeviceEvent

**Configuration required (Y/N)  Entities to Configure:** | Processing Role
---|---
| Processing Method for Processing Role for Head-End Systems
---|---

**Note:** The actual processing method on how a device event is sent to a subscriber should be configured during implementation. It depends on integration solution. It could be sent real-time, asynchronously, via a flat file, using a service bus, etc. The product provides tools and framework to accommodate solution.

Group: Standard Device Event Processing

**1.9 Procure Data for Sending and Send Data**

**Actor/Role:** C2M(MDM)
**Description:** In the BO method, the C2M(MDM) procures the Device Event information that need to be sent to the Subscriber.
For the actual event sending process, custom integrated solution should be in place. This task represents one of the solutions that requires create BO to incorporate logic to procure Event data and send it to subscriber.

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

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<th>Business Object</th>
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<td>D1-Device Event</td>
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<td></td>
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<tr>
<td></td>
<td>D1-PairedEventFirstDeviceEvent</td>
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<td></td>
<td>D1-PairedEventLastDeviceEvent</td>
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<table>
<thead>
<tr>
<th>Configuration required (Y/N)</th>
<th>Entities to Configure:</th>
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<tbody>
<tr>
<td></td>
<td>Processing Role</td>
</tr>
<tr>
<td></td>
<td>Processing Method for Processing Role for Head-End Systems</td>
</tr>
</tbody>
</table>

**Note:** The base product does not deliver any customer specific BO.

**Group:** Standard Device Event Processing

**2.0 Update the Batch Details**

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

**Description:** This task represents option to send Event data to Subscriber using batch processing. As a first step, C2M(MDM) creates the entry in the General process table with Batch process details (such as Batch code, next run number, etc.). The actual batch process that sends Device Event information to Subscribers is a custom process.

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

<table>
<thead>
<tr>
<th>Business Object (Y/N)</th>
<th>Business Object</th>
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<tbody>
<tr>
<td></td>
<td>D1-Device Event</td>
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<tr>
<td></td>
<td>D1-StandardDeviceEvent</td>
</tr>
<tr>
<td></td>
<td>D1-PairedEventFirstDeviceEvent</td>
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<tr>
<td></td>
<td>D1-PairedEventLastDeviceEvent</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Processing Role</th>
</tr>
</thead>
</table>
Configuration required (Y/N)  Entities to Configure:  

**Note:** The base product does not deliver any batch process.

**Group: Standard Device Event Processing**

**2.1** Prepare Device Event Data and Create Output File

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

**Description:** C2M(MDM) prepares the Device Event data and creates an Output File to be used by Batch process for sending information to Subscribers.

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

- D1-SENDTOSUB (Send to Subscribers)

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

- D1-Device Event
- D1-StandardDeviceEvent
- D1-PairedEventFirstDeviceEvent
- D1-PairedEventLastDeviceEvent

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

- Processing Role
- Processing Method for Processing Role for Head-End Systems

**Group: Standard Device Event Processing**

**2.2** Send Flat File

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

**Description:** C2M(MDM) sends the flat files comprising of Device Event information to Subscriber(s).

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

- D1-SENDTOSUB (Send to Subscribers)
2.3 Create Outbound Message and Send to Subscriber

Actor/Role: C2M(MDM)
Description: C2M(MDM) creates outbound message and sends the Device Event information to Subscriber(s) This task represents another option to communicate to Subscriber(s)
Note: the actual Outbound Message processing is a custom process and will be defined during implementation.

Process Plug-in enabled (Y/N) Available Algorithm(s): D1-SENDTOSUB (Send to Subscribers)

Business Object (Y/N) Business Object
- D1-Device Event
- D1-StandardDeviceEvent
- D1-PairedEventFirstDeviceEvent
- D1-PairedEventLastDeviceEvent

Configuration required (Y/N) Entities to Configure:
- Processing Role
- Processing Method for Processing Role for Head-End Systems

2.4 Communicate and Transform Device Event Data to Subscriber Format

Actor/Role: Middleware or SGG
Description: The Middleware or Smart Grid Gateway (SGG) is responsible for communication between the C2M(MDM) and various Subscribers (E.g. OUNMS, CCB, Head-End Systems, etc.). C2M(MDM) sends the Outbound Messages, which the Middleware transforms, and converts it into the format compatible with the Subscribers’ software.
2.5 Receive Device Event Information

**Actor/Role:** 3rd Party Subscribers  
**Description:** The subscriber receives and processes the Device Event information from C2M(MDM).

**Group: Device Event – Paired Event (First) Processing**

**Group: Initiate Activity**

2.6 Determine Activity Type

**Actor/Role:** C2M(MDM)  
**Description:** The Paired Event (First) is meant to indicate the start of process that consists of two or more events (e.g. Outage, where Outage event is the first event and Restoration event is the last event). It’s recommended to create Activity to monitor events and apply logic required to control the process depends on events and their sequence. C2M(MDM) determines Activity Type by analyzing Device Event type where Activity Type is configured.

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

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

<table>
<thead>
<tr>
<th>Configuration required (Y/N)</th>
<th>Entities to Configure:</th>
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<tbody>
<tr>
<td></td>
<td>Standard Event Names</td>
</tr>
<tr>
<td></td>
<td>Device Event Types</td>
</tr>
<tr>
<td></td>
<td>Device Event Category</td>
</tr>
<tr>
<td></td>
<td>Activity Type</td>
</tr>
</tbody>
</table>

2.7 Create a Log

**Actor/Role:** C2M(MDM)  
**Description:** If C2M(MDM) is not able to determine any activity for the Paired Event (First) device event, it logs an entry and exits from processing.
### Process Plug-in enabled (Y/N)  Available Algorithm(s):

<table>
<thead>
<tr>
<th>Algorithm</th>
</tr>
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<tbody>
<tr>
<td>D1-INITACT (Initiate Activity)</td>
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</table>

### Business Object (Y/N)  Business Object

<table>
<thead>
<tr>
<th>Business Object</th>
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<tbody>
<tr>
<td>D1-Device Event</td>
</tr>
<tr>
<td>D1-PairedEventFirstDeviceEvent</td>
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</tbody>
</table>

### Configuration required (Y/N)  Entities to Configure:

<table>
<thead>
<tr>
<th>Entities to Configure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Event Names</td>
</tr>
<tr>
<td>Device Event Types</td>
</tr>
<tr>
<td>Device Event Category</td>
</tr>
<tr>
<td>Activity Type</td>
</tr>
</tbody>
</table>

### Group: Device Event – Paired Event (First) Processing

#### Group: Initiate Activity

#### Group: Create Activity

**2.8 Create Activity in ‘Pending’ State**

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

**Description:** C2M(MDM) creates Activity in ‘Pending’ state.

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

<table>
<thead>
<tr>
<th>Algorithm</th>
</tr>
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<tbody>
<tr>
<td>D1-INITACT (Initiate Activity)</td>
</tr>
</tbody>
</table>

### Business Object (Y/N)  Business Object

<table>
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<tr>
<th>Business Object</th>
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<tbody>
<tr>
<td>D1-Device Event</td>
</tr>
<tr>
<td>D1-PairedEventFirstDeviceEvent</td>
</tr>
</tbody>
</table>

### Configuration required (Y/N)  Entities to Configure:

<table>
<thead>
<tr>
<th>Entities to Configure</th>
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</thead>
<tbody>
<tr>
<td>Standard Event Names</td>
</tr>
<tr>
<td>Device Event Types</td>
</tr>
<tr>
<td>Device Event Category</td>
</tr>
<tr>
<td>Activity Type</td>
</tr>
</tbody>
</table>
Group: Device Event – Paired Event (First) Processing

Group: Initiate Activity
Group: Create Activity

2.9 Update Activity to ‘Started’ State and Populate Start Date/Time

Actor/Role: C2M(MDM)
Description: C2M(MDM) updates Activity with Duration to ‘Started’ state and populates Start Date/Time.

Process Plug-in enabled (Y/N)  Available Algorithm(s): D1-INITACT (Initiate Activity)

Business Object (Y/N)  Business Object
D1-Device Event
D1-PairedEventFirstDeviceEvent
D1-DeviceWithDurationActivity (Outage Activity)

Group: Device Event – Paired Event (First) Processing

3.0 Determine and Monitor End of ‘Held’ State

Actor/Role: C2M(MDM)
Description: C2M(MDM) holds the execution of the Paired Event (First) processing for the configurable period. The basic objective of this is to allow wait time for the system to check if any Paired Event (Last) is received.

Process Plug-in enabled (Y/N)  Available Algorithm(s): D1-HLPRDDEV7 (Hold Paired Device Event)

Business Object (Y/N)  Business Object
D1-Device Event
D1-PairedEventFirstDeviceEvent

3.1 Review Event in ‘Held’ State

Actor/Role: C2M(MDM) Authorized User
Description: When the Paired Event (First) is in ‘Held’ state, the C2M(MDM) Authorized User reviews and analyses the Device Event.

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

<table>
<thead>
<tr>
<th>Business Object (Y/N)</th>
<th>Business Object</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>D1-HLPRDDEVT (Hold Paired Device Event)</td>
</tr>
</tbody>
</table>

3.2 Request to Discard

Actor/Role: C2M(MDM) Authorized User
Description: If required, C2M(MDM) Authorized User requests to discard event.

Group: Device Event – Paired Event (First) Processing

3.4 Update Event to ‘Discard’ State

Actor/Role: C2M(MDM)
Description: C2M(MDM) updates the Paired Event (First) to ‘Discard’ state.

Group: Device Event – Paired Event (Last) Processing

Group: Terminate Activity

3.5 Determine Existing Activity
5.3.3.2 C2M.v2.7.MDM.Manage Device Events

Actor/Role: C2M(MDM)
Description: When last Paired Event is received, C2M(MDM) identifies exiting Activity that has been created when first Paired event was received and processed by C2M(MDM).
Note: If no activity is found, it creates a log and exits the processing.

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

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

Group: Device Event – Paired Event (Last) Processing
Group: Terminate Activity
3.6 Update Activity to End State and Populate End Date/Time for Activity

Actor/Role: C2M(MDM)
Description: If existing Activity is identified, C2M(MDM) updates it with End Date/Time and transitions it to next default state i.e. ‘End’ state.

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<th>Available Algorithm(s):</th>
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<tr>
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<td>D1-TERMACT (Terminate Activity)</td>
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<td>D1-Device Event</td>
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Group: Device Event – Paired Event (Last) Processing
Group: Terminate Activity
3.7 Create Error

Actor/Role: C2M(MDM)
Description: C2M(MDM) creates an error if application is not able to identify previously created Activity linked to the same device as last Paired Event.
5.3.3.2 C2M.v2.7.MDM.Manage Device Events

Process Plug-in enabled (Y/N)  Available Algorithm(s):  D1-TERMACT (Terminate Activity)

Business Object (Y/N)  Business Object  D1-Device Event  D1-PairedEventLastDeviceEvent

Group: Device Event – Paired Event (Last) Processing
Group: Discard Pair of Events
3.8 Determine First Device Event Related to Activity

Actor/Role:  C2M(MDM)
Description:  C2M(MDM) determines Paired Event (First) related to the current Activity.

Process Plug-in enabled (Y/N)  Available Algorithm(s):  D1-DSCPRDEVT (Discard Pair of Events)

Business Object (Y/N)  Business Object  D1-Device Event  D1-PairedEventLastDeviceEvent

Group: Device Event – Paired Event (Last) Processing
Group: Discard Pair of Events
3.9 Compare Period between Events with Pre-defined Period for ‘Discard’

Actor/Role:  C2M(MDM)
Description:  C2M(MDM) calculates the time interval between the two events and compares this period with a pre-defined ‘Period for Discard’.

Process Plug-in enabled (Y/N)  Available Algorithm(s):  D1-DSCPRDEVT (Discard Pair of Events)

Business Object (Y/N)  Business Object  D1-Device Event  D1-PairedEventFirstDeviceEvent  D1-PairedEventLastDeviceEvent
Group: Device Event – Paired Event (Last) Processing

4.0 Update First Event to ‘Discard’ State

Actor/Role: C2M(MDM)
Description: If time interval between Paired Event (First) and Paired Event (Last) is less than configured period for ‘Discard’, C2M(MDM) transitions the First Event to ‘Discard’ state.

Process Plug-in enabled (Y/N) Available Algorithm(s): D1-DSCPRDEVT (Discard Pair of Events)

Business Object (Y/N) Business Object
D1-Device Event
D1-PairedEventFirstDeviceEvent
D1-PairedEventLastDeviceEvent

Group: Device Event – Paired Event (Last) Processing

4.1 Update Last Event to ‘Discard’ State

Actor/Role: C2M(MDM)
Description: C2M(MDM) transitions the last Paired Event to ‘Discard’ state.

Process Plug-in enabled (Y/N) Available Algorithm(s): D1-DSCPRDEVT (Discard Pair of Events)

Business Object (Y/N) Business Object
D1-Device Event
D1-PairedEventFirstDeviceEvent
D1-PairedEventLastDeviceEvent

4.2 Analyze Error

Actor/Role: C2M(MDM) Authorized User
Description: C2M(MDM) Authorized User analyzes the error logged during the Paired Event processing.

4.3 Work on Error and Request to Update
Actor/Role: C2M(MDM) Authorized User
Description: C2M(MDM) Authorized User works on the Error and Requests the C2M(MDM) to update it.

4.4 Update Event and Activity Period

Actor/Role: C2M(MDM)
Description: C2M(MDM) updates the Event and Activity with any latest changes that took place based on the work performed by Authorized User

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Test Documentation related to the Current Process

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## Document Control

### Change Record

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<td>Antonio Napoli</td>
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Attachments

Device Event Lifecycle

Standard Device Event Lifecycle

Paired Event First Device Event Lifecycle

Paired Event Last Device Event Lifecycle

Outage Activity Lifecycle
Device Event Category

Processing Role and Method for Service Provider

Device Event Type and Related Activity Types