

**Oracle Utilities SGG V2.0.0 and MDM  
V2.0.1 Integrations**

Utility Reference Model

5.6.3.2a SGG-MDM.Manage Device Commissioning  
(L+G)

May 2013

Oracle Utilities SGG V2.0.0 to MDM V2.0.1 Integration Utility Reference Model 5.6.3.2a

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# Chapter 1

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## Overview

This chapter provides a brief description of the SGG-MDM.Manage Device Commissioning (L+G) business process and associated process diagrams. This includes:

- **Brief Description**

## Brief Description

**Business Process:** 5.6.3.2a SGG-MDM.Manage Device Commissioning (L+G)

**Process Type:** Process

**Parent Process:** 5.6.3 SGG-MDM.Manage Devices

This process gets initiated when a 3rd Party Application (E.g. Customer Care and Billing Application), makes a request for a Device Commission or a MDM or SGG Authorized User manually requests for a Device Commission within SGG system. SGG initiates Device Commission by communicating with respective L+G Head-End System.



# Chapter 2

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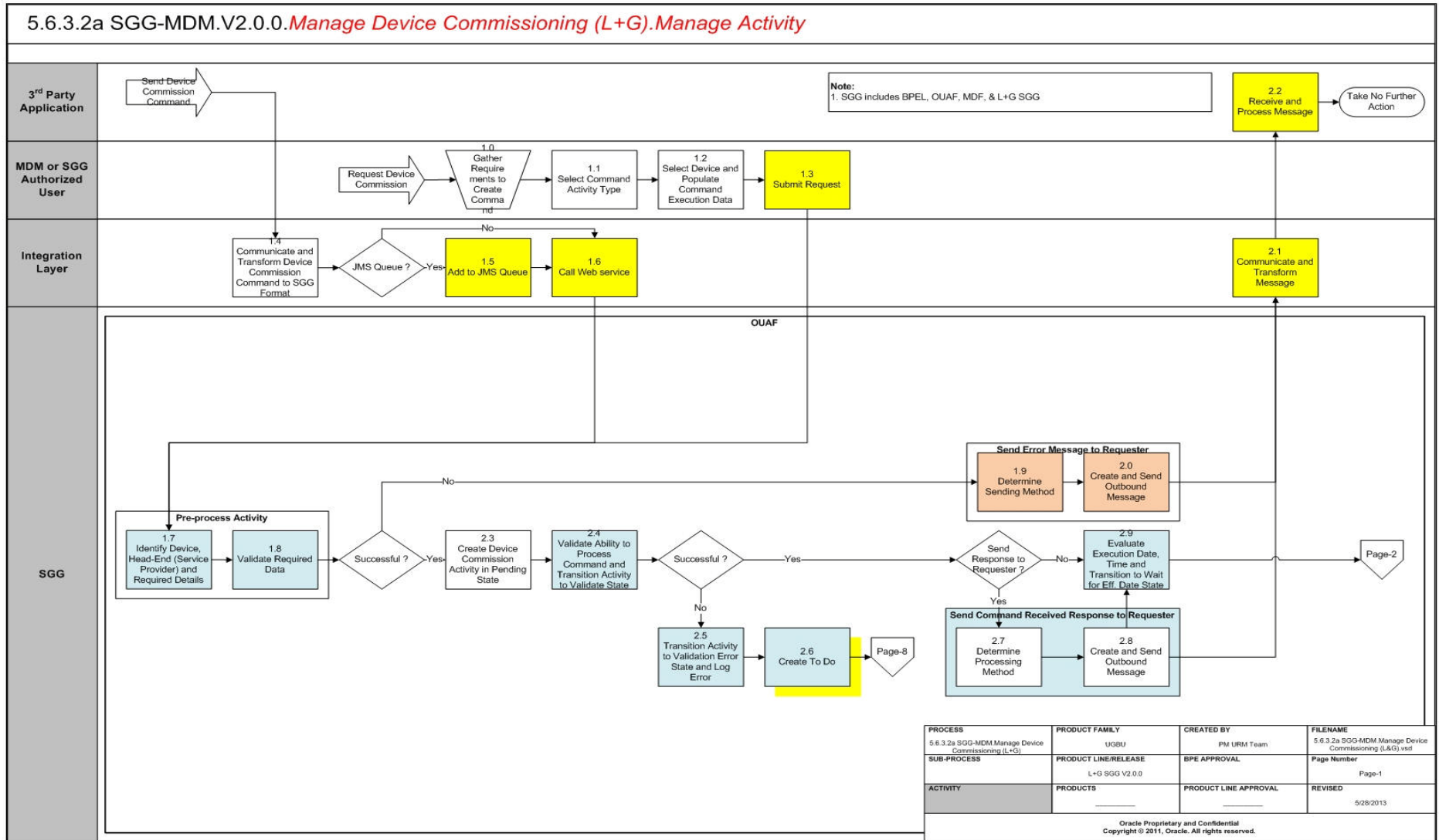
## Detailed Business Process Model Description

This chapter provides a detailed description of the SGG-MDM.Manage Device Commissioning (L+G) business process. This includes:

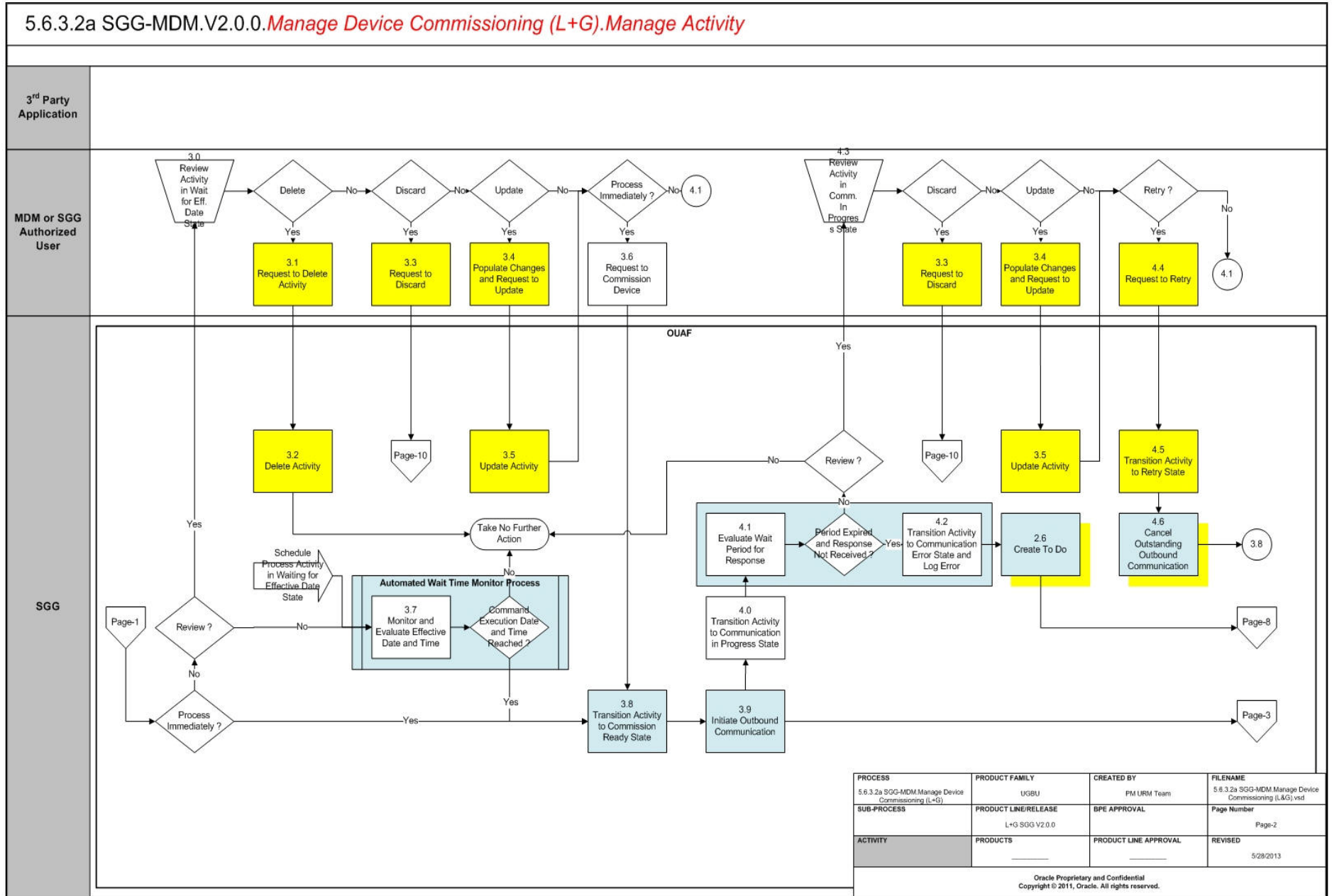
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# Business Process Diagrams

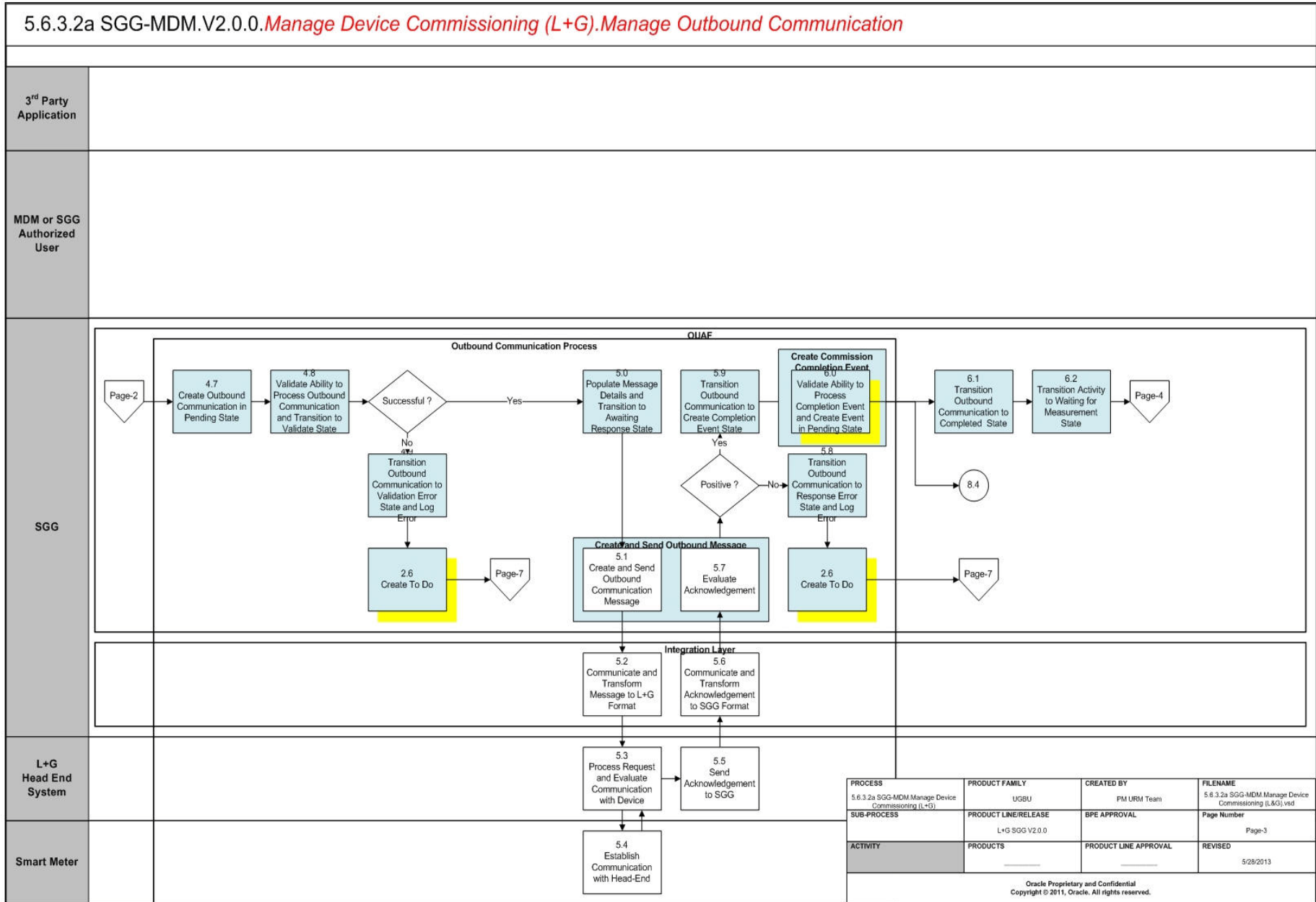
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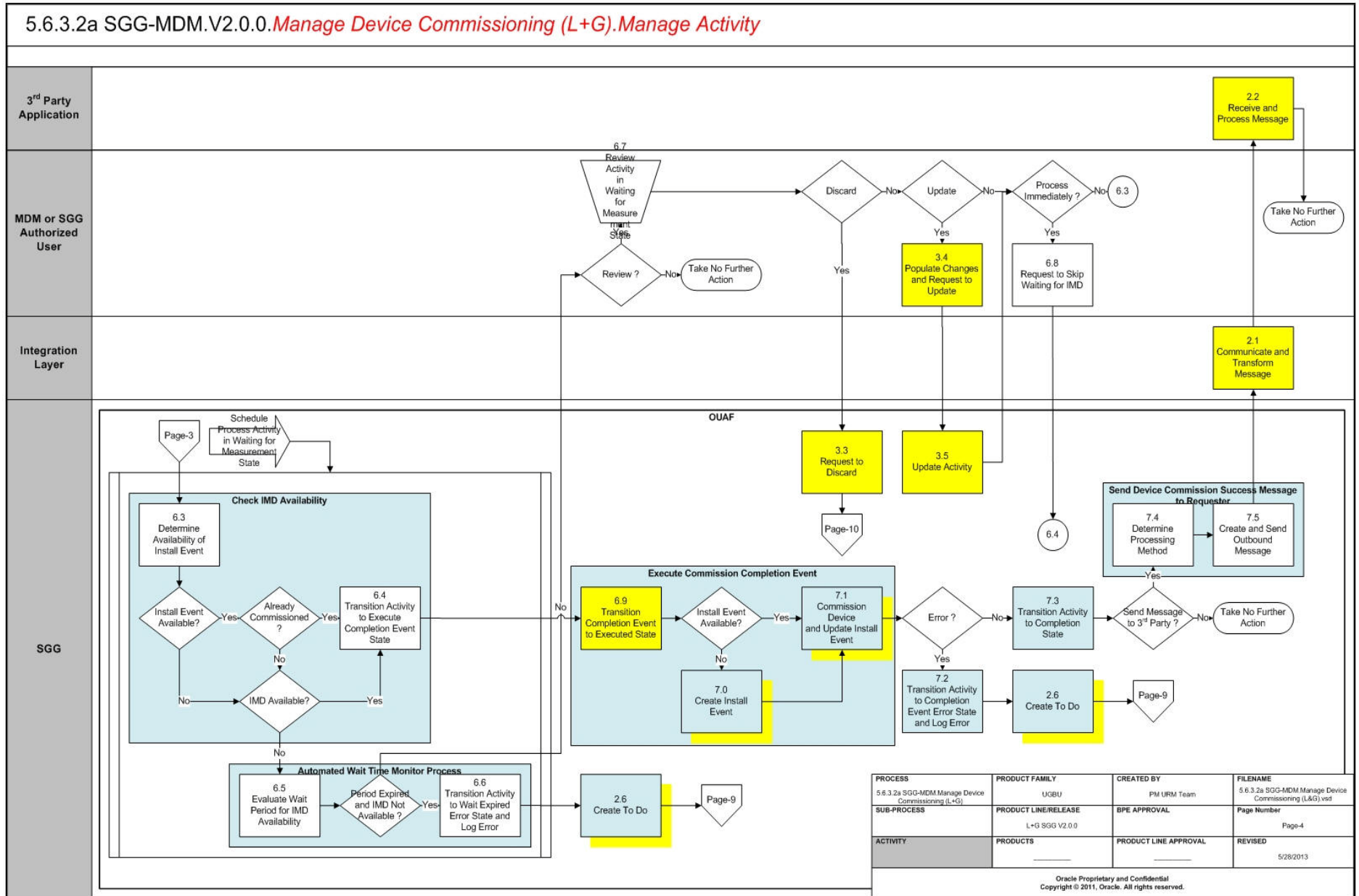
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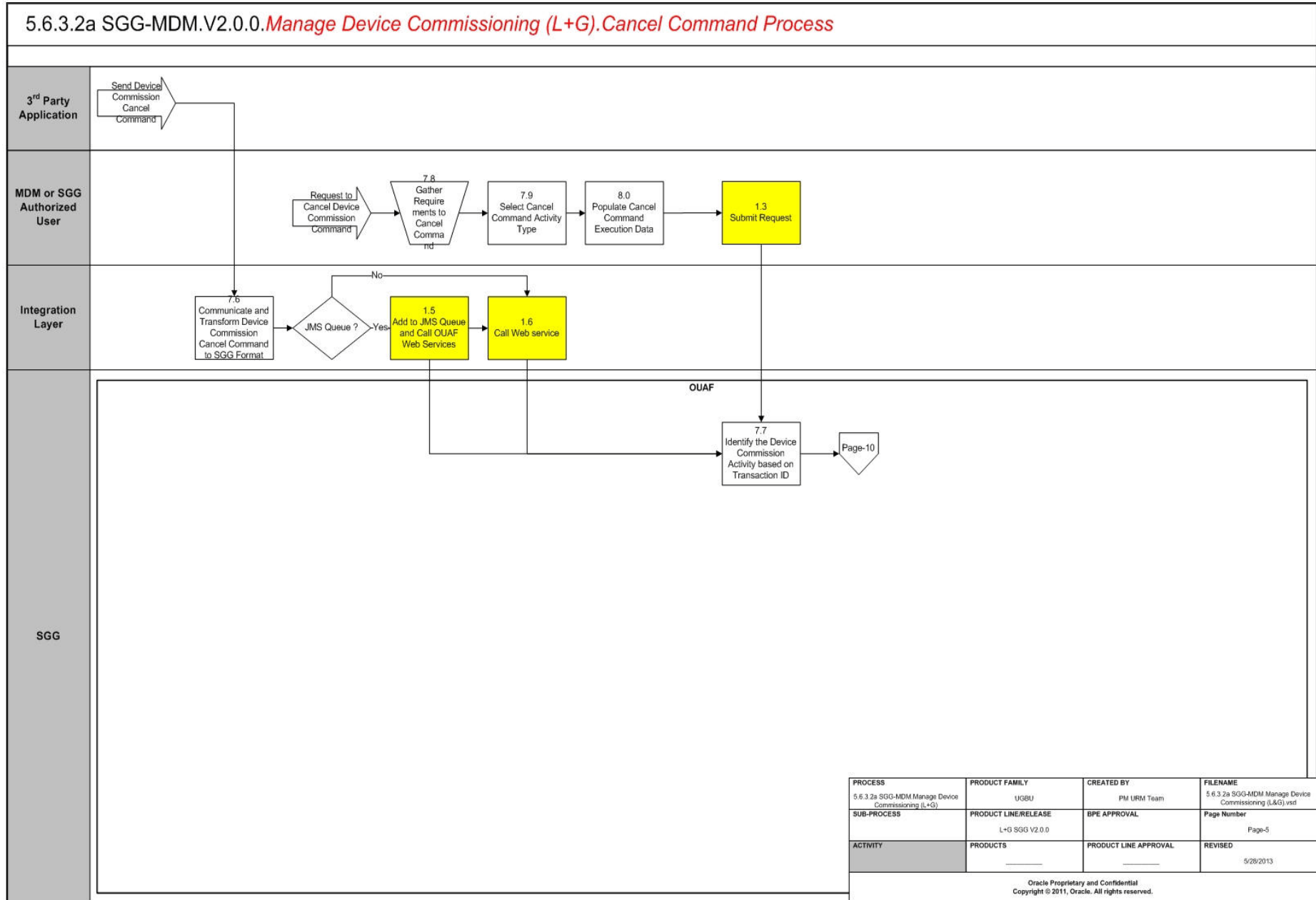
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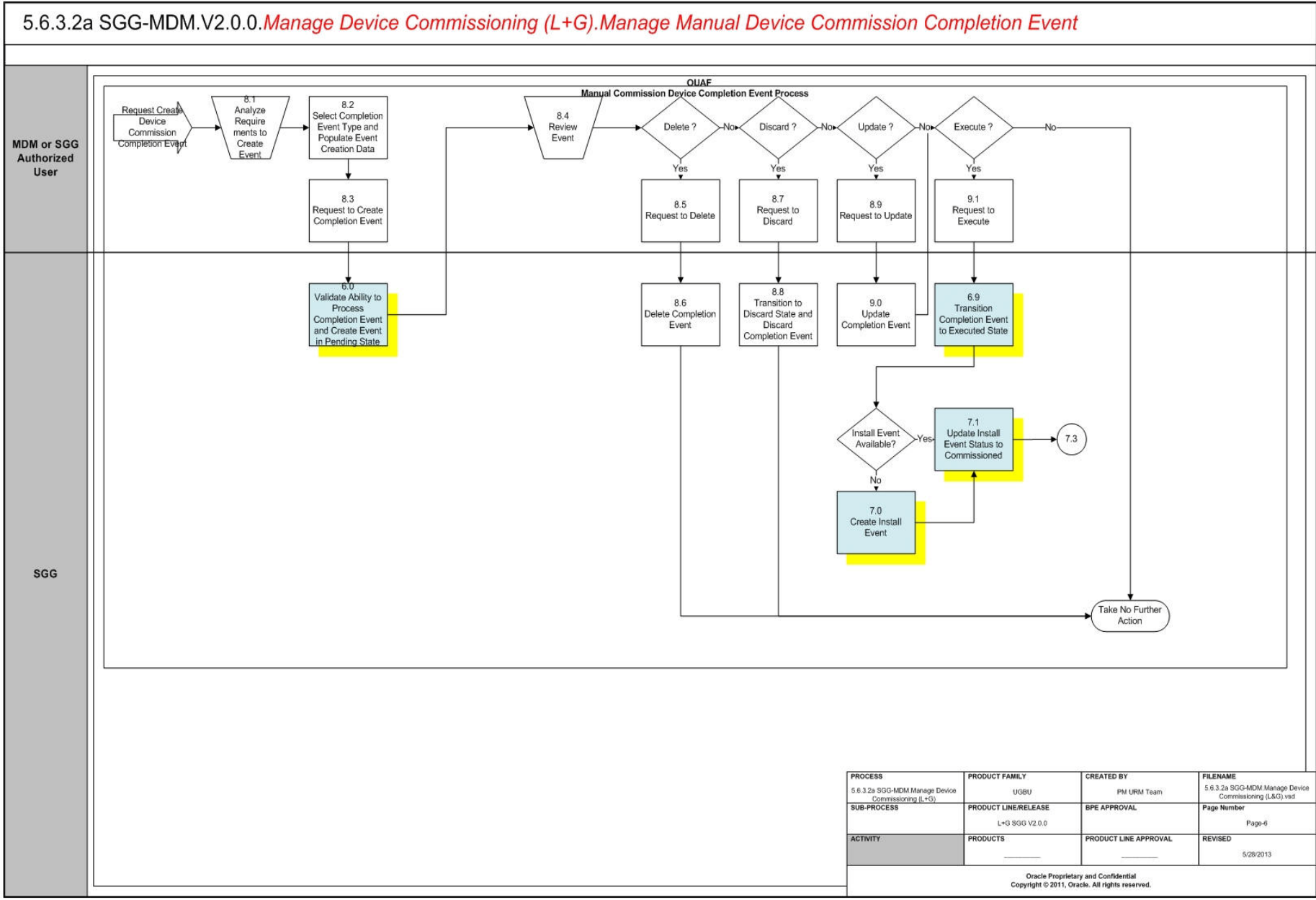
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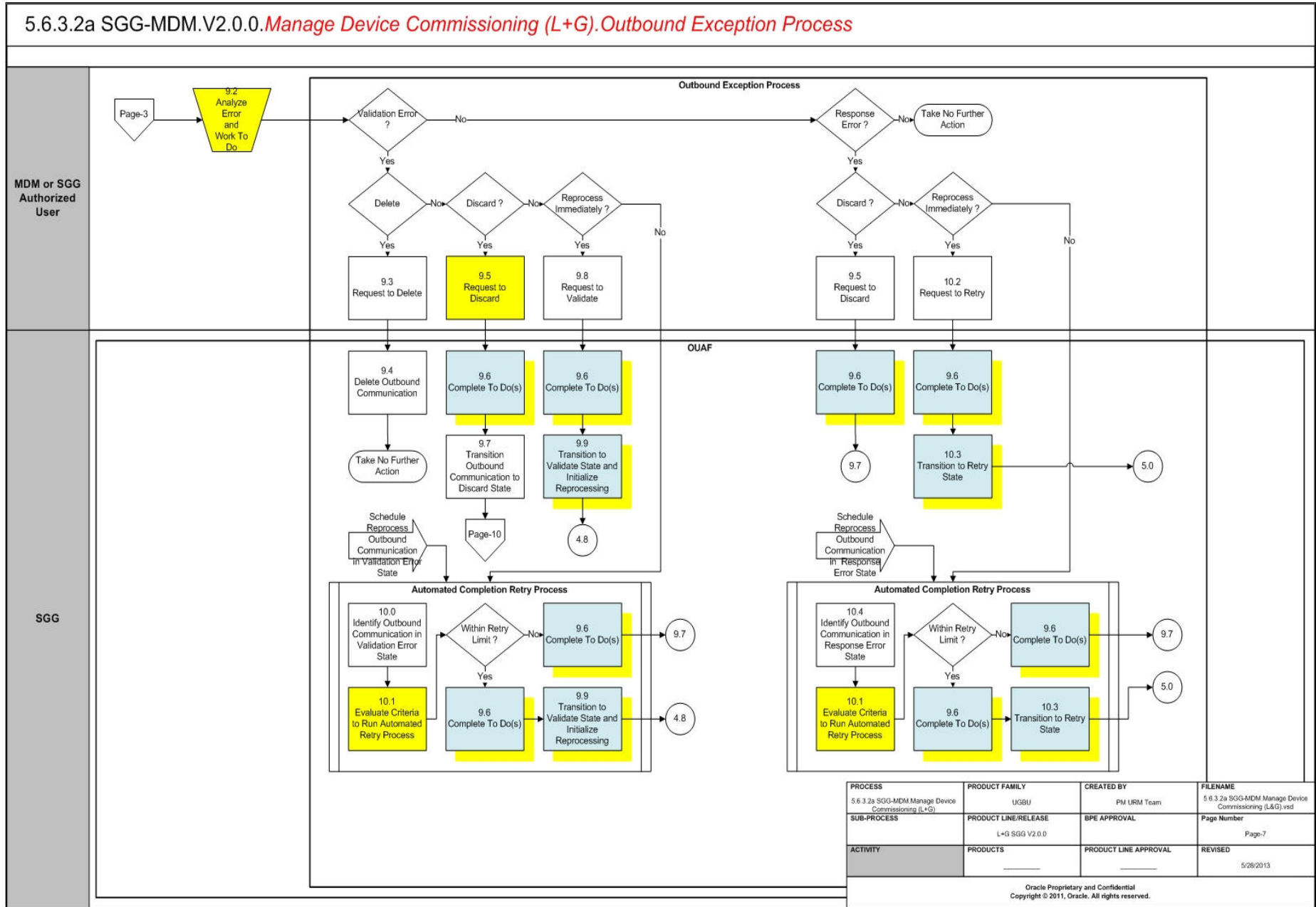
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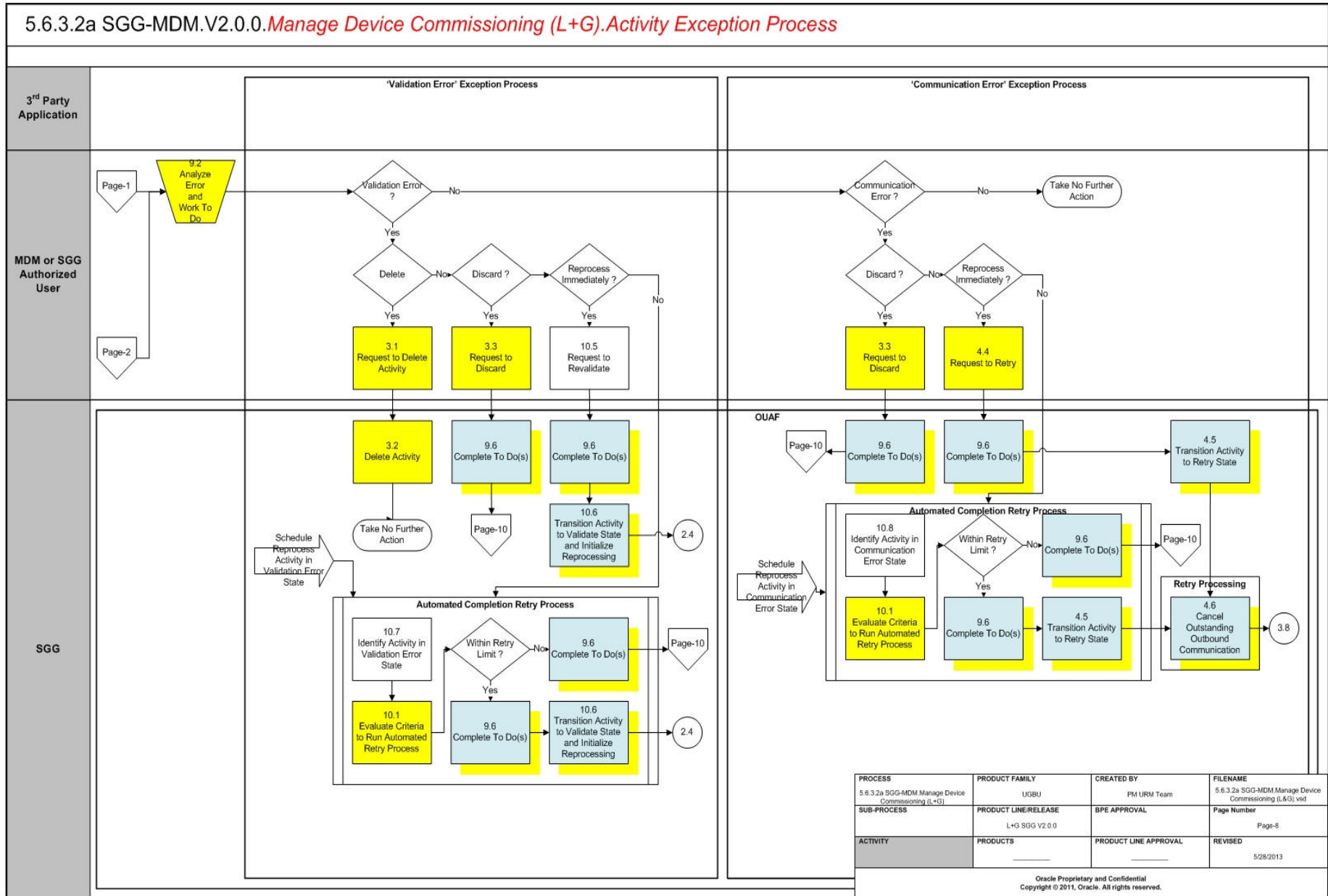


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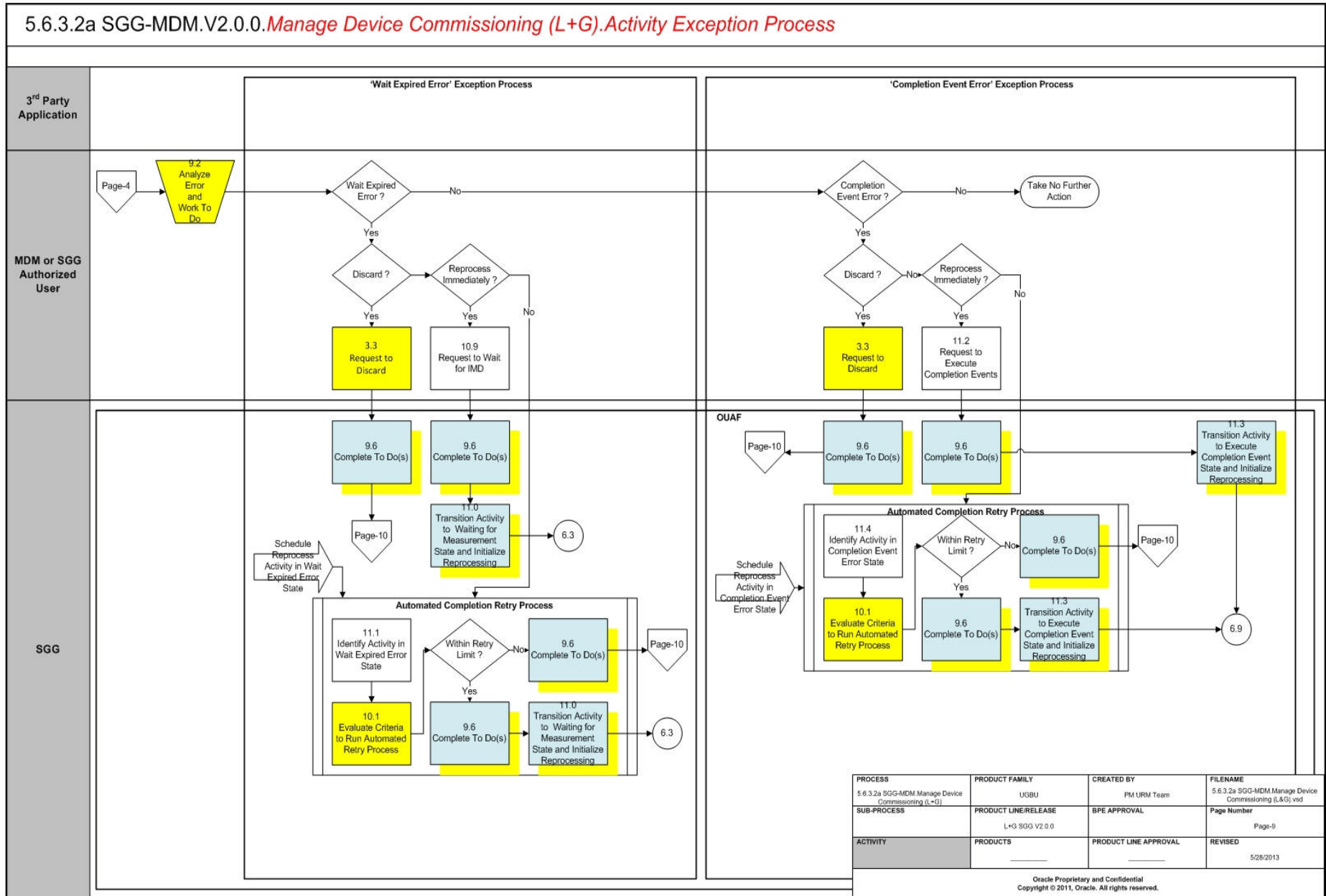




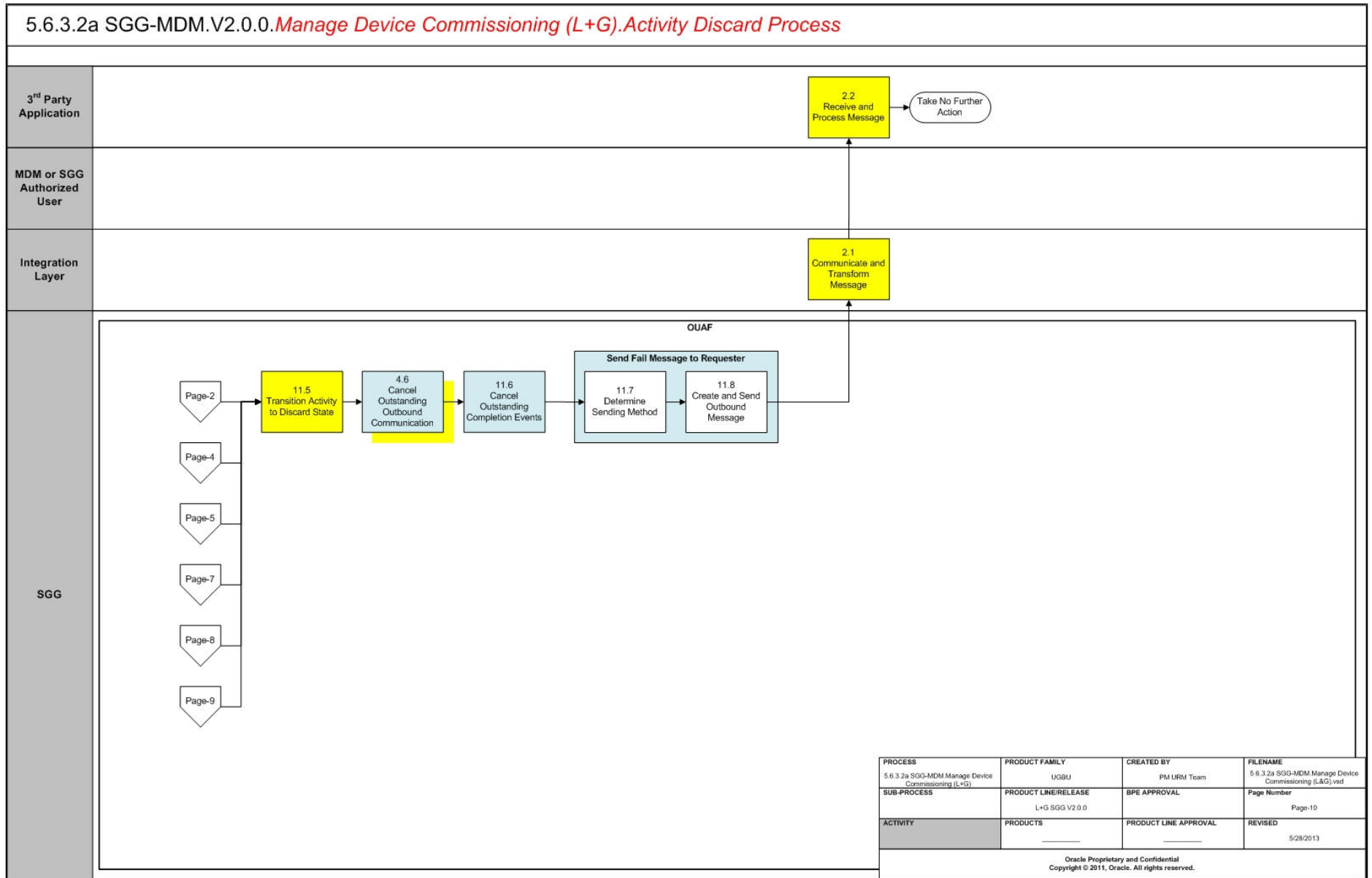
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# Manage Device Commissioning (L+G) Page 10



## SGG-MDM.Manage On-Demand Read (L+G) Description

This section includes detailed descriptions of the steps involved in the SGG-MDM.Manage Device Commissioning (L+G) business process, including:

- **1.0 Gather Requirements to Create Command**
- **1.1 Select Command Activity Type**
- **1.2 Select Device and Populate Command Execution Data**
- **1.3 Submit Request**
- **1.4 Communicate and Transform Device Commission Command to SGG Format**
- **1.5 Add to JMS Queue**
- **1.6 Call Web service**
- **1.7 Identify Device, Head-End (Service Provider) and Required Details**
- **1.8 Validate Required Data**
- **1.9 Determine Sending Method**
- **2.0 Create and Send Outbound Message**
- **2.1 Communicate and Transform Message**
- **2.2 Receive and Process Message**
- **2.3 Create Device Commission Activity in Pending State**
- **2.4 Validate Ability to Process Command and Transition Activity to Validate State**
- **2.5 Transition Activity to Validation Error State and Log Error**
- **2.6 Create To Do**
- **2.7 Determine Processing Method**
- **2.8 Create and Send Outbound Message**
- **2.9 Evaluate Execution Date, Time and Transition to Wait for Eff. Date State**
- **3.0 Review Activity in Wait for Eff. Date State**
- **3.1 Request to Delete Activity**
- **3.2 Delete Activity**
- **3.3 Request to Discard**
- **3.4 Populate Changes and Request to Update**
- **3.5 Update Activity**
- **3.6 Request to Commission Device**
- **3.7 Monitor and Evaluate Effective Date and Time**
- **3.8 Transition Activity to Commission Ready State**
- **3.9 Initiate Outbound Communication**
- **4.0 Transition Activity to Communication in Progress State**
- **4.1 Evaluate Wait Period for Response**
- **4.2 Transition Activity to Communication Error State and Log Error**
- **4.3 Review Activity in Comm. In Progress State**
- **4.4 Request to Retry**

- 4.5 Transition Activity to Retry State
- 4.6 Cancel Outstanding Outbound Communication
- 4.7 Create Outbound Communication in Pending State
- 4.8 Validate Ability to Process Outbound Communication and Transition to Validate State
- 4.9 Transition Outbound Communication to Validation Error State and Log Error
- 5.0 Populate Message Details and Transition to Awaiting Response State
- 5.1 Create and Send Outbound Communication Message
- 5.2 Communicate and Transform Response to L+G Format
- 5.3 Process Request and Evaluate Communication with Device
- 5.4 Establish Communication with Head-End
- 5.5 Send Acknowledgement to SGG
- 5.6 Communicate and Transform Acknowledgement to SGG Format
- 5.7 Evaluate Acknowledgement
- 5.8 Transition Outbound Communication to Response Error State and Log Error
- 5.9 Transition Outbound Communication to Create Completion Event State
- 6.0 Validate Ability to Process Completion Event and Create Event in Pending State
- 6.1 Transition Outbound Communication to Completed State
- 6.2 Transition Activity to Waiting for Measurement State
- 6.3 Determine Availability of Install Event
- 6.4 Transition Activity to Execute Completion Event State
- 6.5 Evaluate Wait Period for IMD Availability
- 6.6 Transition Activity to Wait Expired Error State and Log Error
- 6.7 Review Activity in Waiting for Measurement State
- 6.8 Request to Skip Waiting for IMD
- 6.9 Transition Completion Event to Executed State
- 7.0 Create Install Event
- 7.1 Update Install Event Status to Commissioned
- 7.2 Transition Activity to Completion Event Error State and Log Error
- 7.3 Transition Activity to Completion State
- 7.4 Determine Processing Method
- 7.5 Create and Send Outbound Message
- 7.6 Communicate and Transform Device Commission Cancel Command to SGG Format
- 7.7 Identify the Device Commission Activity based on Transaction ID
- 7.8 Gather Requirements to Cancel Command
- 7.9 Select Cancel Command Activity Type
- 8.0 Populate Cancel Command Execution Data
- 8.1 Analyze Requirements to Create Event

- 8.2 Select Completion Event Type and Populate Event Creation Data
- 8.3 Request to Create Completion Event
- 8.4 Review Event
- 8.5 Request to Delete
- 8.6 Delete Completion Event
- 8.7 Request to Discard
- 8.8 Transition to Discard State and Discard Completion Event
- 8.9 Request to Update
- 9.0 Update Completion Event
- 9.1 Request to Execute
- 9.2 Analyze Error and Work To Do
- 9.3 Request to Delete
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- 9.5 Request to Discard
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- 10.0 Identify Outbound Communication in Validation Error State
- 10.1 Evaluate Criteria to Run Automated Retry Process
- 10.2 Request to Retry
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- 10.5 Request to Revalidate
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- 11.2 Request to Execute Completion Events
- 11.3 Transition Activity to Execute Completion Event State and Initialize Reprocessing
- 11.4 Identify Activity in Completion Event Error State
- 11.5 Transition Activity to Discard State
- 11.6 Cancel Outstanding Completion Events
- 11.7 Determine Sending Method
- 11.8 Create and Send Outbound Message

## 1.0 Gather Requirements to Create Command

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User analyzes requirements and gathers information required to create Device Commission request.

## 1.1 Select Command Activity Type

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User selects Activity Type to create Device Commission request.

---

### Entities to Configure

---

Activity Type

---

## 1.2 Select Device and Populate Command Execution Data

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User selects the device and populates required data such as request effective date, request expiration date, etc. User can also indicate if the command is optional incase future Concurrent Decommissioning command is present.

## 1.3 Submit Request

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User submits request using Device Commissioning Manual Request screen.

---

### Business Objects

---

D1-DeviceCommission

---

## 1.4 Communicate and Transform Device Commission Command to SGG Format

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** Integration Layer

**Description:** Integration Layer facilitates the communication between the 3rd Party Application and the SGG Application. It receives the Device Commission request, transforms, and converts the request into format compatible with SGG Application.

## 1.5 Add to JMS Queue

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** Integration Layer

**Description:** Integration Layer adds the Device Commissioning request to JMS queue.

## 1.6 Call Web service

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** Integration Layer

**Description:** Integration Layer of SGG calls web services to process the Device Commission request.

## 1.7 Identify Device, Head-End (Service Provider) and Required Details

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Group:** Pre-process Request

**Actor/Role:** SGG

**Description:** SGG initiates pre-processing of the Device Commissioning request that came from 3rd Party Application. It attempts to read the request message and determines the Device for which the request is made, and the Head-End system that communicates with the device. It also identifies the Activity Type to be assigned for the Activity to be created.

---

### Entities to Configure

---

Device

Head -End System (Service Provider)

Activity Type

To Do Type

To Do Role

---



---

### Business Objects

---

**D1-DeviceCommission**

---

### Available Algorithms

---

D1-CRAINFO (Command Request Activity Information)  
 D1-DETTACTYP ( Determine Activity Type)  
 D1-DDR (Determine Device and Recipient)

---



## 1.8 Validate Required Data

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Group:** Pre-process Request

**Actor/Role:** SGG

**Description:** SGG validates the availability and correctness of required information. Usually, system checks Requester information, Device information, Effective Date/Time and Expiration Date/Time, Service Point, etc.

---

### Entities to Configure

---

Device

3rd Party Application (Requester)

Service Point

---

Business Objects	Available Algorithms
D1-DeviceCommission	D1-GINPVAL (Common Input Validation) D1-VALSVCPT (Validate Service Point for Commissioning)

## 1.9 Determine Sending Method

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Group:** Send Error Message to Requester

**Actor/Role:** SGG

**Description:** SGG determines the method to send the error message to 3rd Party Application.

**Note:** Sending mechanism could be different and depends on Application landscape. Currently it is determined based on customer requirements.

## 2.0 Create and Send Outbound Message

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Group:** Send Error Message to Requester

**Actor/Role:** SGG

**Description:** SGG creates the outbound message to be sent to the 3rd Party Application on error, and sends it based on the send method.

## 2.1 Communicate and Transform Message

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** Integration Layer

**Description:** Integration Layer receives the outbound message from SGG, transforms, and converts it into format compatible with 3rd Party Application.

## 2.2 Receive and Process Message

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** 3rd Party Application

**Description:** 3rd Party Application receives message from SGG and processes it.

## 2.3 Create Device Commission Activity in Pending State

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG creates Device Commission Activity in 'Pending' state.

---

### Business Objects

---

D1-DeviceCommission

---

## 2.4 Validate Ability to Process Command and Transition Activity to Validate State

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG validates ability to process Device Commission request. Typically, system validates, Ability of Head-End to support Device Commission command, Commission status of Device, etc. User can also specify for system to check for any existing Commissioning or Decommissioning commands, before processing the current request.

---

### Entities to Configure

---

Activity Type

Processing Method for Device Commission

---

Business Objects	Available Algorithms
D1-DeviceCommission D1-DeviceCommissionType	F1-AT-RQJ (Transition to Default Next Status (Java)) D1-VALACTTDI (Validate Activity Type and Transition to Error State If Invalid) D1-VALDVCNAC (Validate Device Not Already Commissioned) D1-VHPCCOMMS (Validate Head-End's Capability to Commission Device) D1-CACTCOMM (Check for Existing Active Commissioning Command Request) D1-CHKFDCOMM (Check for Concurrent Decommissioning Command Request)

## 2.5 Transition Activity to Validation Error State and Log Error

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** If any error occurs during validations, SGG transitions the Activity to 'Validation Error' state and logs an error.

### Business Objects

D1-DeviceCommission

## 2.6 Create To Do

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** Once an error is logged, SGG creates a 'To Do' entry for the Authorized User.

### Entities to Configure

To Do Type

To Do Role

Business Objects	Available Algorithms
D1-DeviceCommission	D1-CTDEBOE (Create To Do Entry for BO in Error)

## 2.7 Determine Processing Method

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Group:** Send Command Received Response to Requester

**Actor/Role:** SGG

**Description:** SGG determines the method of sending Acknowledgement to the 3rd Party Application.

### Entities to Configure

Processing Role

Business Objects	Available Algorithms
D1-DeviceCommission D1-OutboundMessage	D1-RRER (Send Received Response to External Requester)

## 2.8 Create and Send Outbound Message

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Group:** Send Command Received Response to Requester

**Actor/Role:** SGG

**Description:** SGG creates the message and sends it based on the identified sending method.

### Entities to Configure

Processing Role

Business Objects	Available Algorithms
D1-DeviceCommission D1-OutboundMessage	D1-RRER (Send Received Response to External Requester)

## 2.9 Evaluate Execution Date, Time and Transition to Wait for Eff. Date State

See **Manage Device Commissioning (L+G) Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** If command's effective date and time is available, SGG uses it to determine execution date and time. If the effective Date and Time is not available, SGG processes the Outbound Communication immediately. If effective Date and Time is in the future, System waits till then in 'Wait for Effective Date' state.

Business Objects	Available Algorithms
D1-DeviceCommission	D1-VALEFFDATE (Validate Effective Date for Command) D1-WAITEFFDT (Wait for Effective Date) F1-AT-RQJ (Transition to Default Next Status (Java))

## 3.0 Review Activity in Wait for Eff. Date State

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User reviews and analyzes the Activity.

Business Objects
D1-DeviceCommission

## 3.1 Request to Delete Activity

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** If MDM or SGG Authorized User determines that the Activity is not required, Authorized User requests to delete Activity record.

Business Objects
D1-DeviceCommission

## 3.2 Delete Activity

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG deletes the Activity.

Note: Once an Activity record is deleted it is permanently removed from the system and cannot be recovered. This option is not recommended for common business practice.

---

#### **Business Objects**

---

**D1-DeviceCommission**

---

### **3.3 Request to Discard**

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** If MDM or SGG Authorized User determines that the Activity is not required, Authorized User requests to discard it.

---

#### **Business Objects**

---

**D1-DeviceCommission**

---

### **3.4 Populate Changes and Request to Update**

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User modifies Activity data and requests to perform appropriate updates.

---

#### **Business Objects**

---

**D1-DeviceCommission**

---

### **3.5 Update Activity**

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG updates the Activity with data populated by Authorized User.

---

#### **Business Objects**

---

**D1-DeviceCommission**

---

### 3.6 Request to Commission Device

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** If command's effective date and time is in the future and MDM or SGG Authorized User identifies the need to execute command immediately, Authorized User requests to initiate the command processing.

---

#### Business Objects

---

D1-DeviceCommission

---

### 3.7 Monitor and Evaluate Effective Date and Time

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG periodically monitors to check if the command effective date and time has reached.

---

#### Customizable process

---

D1-CRWT (Command Request Wait - Monitor)

---

Business Objects	Available Algorithms
D1-DeviceCommission	D1-WAITEFFDT (Wait for Effective Date)

### 3.8 Transition Activity to Commission Ready State

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG transitions Activity to 'Commission Ready' state to initiate Outbound Communication when command effective date and time has reached. The other possible option of transition and initiation is when the Authorized User makes a manual request for Commission Device.

Business Objects	Available Algorithms
D4-GenericAMIDeviceIdentifier	D1-WAITEFFDT (Wait for Effective Date)

### 3.9 Initiate Outbound Communication

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG determines the processing method for Device Commission Outbound Communication and initiates the Outbound Communication process.

---

#### Entities to Configure

---

Outbound Communication Processing Method

Outbound Communication Type

---



---

#### Business Objects

---

D1-DeviceCommission

---

#### Available Algorithms

---

D1-CMSOBCOMM  
(Commissioning Outbound  
Communication Creation)

---

### 4.0 Transition Activity to Communication in Progress State

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG transitions Activity to the 'Communication in Progress' state to monitor the response for the Outbound Communication.

---

#### Business Objects

---

D1-DeviceCommission

---

### 4.1 Evaluate Wait Period for Response

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG checks if the Activity expiration wait time configured for monitoring the Outbound Communication response has expired or not.

---

#### Entities to Configure

---

Activity Type

---



Business Objects	Available Algorithms
D1-DeviceCommission	D1-WTTMOUTEX (Wait Time Out - Transition to Exception)

## 4.2 Transition Activity to Communication Error State and Log Error

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** If the Activity wait time for Outbound Communication response has expired, SGG transitions the Activity to 'Communication Error' state and logs an error.

### Entities to Configure

Activity Type

### Business Objects

D1-DeviceCommission

## 4.3 Review Activity in Comm. In Progress State

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User reviews and analyzes the Activity.

### Business Objects

D1-DeviceCommission

## 4.4 Request to Retry

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User requests to recreate the Outbound Communication.

### Business Objects

D1-DeviceCommission

## 4.5 Transition Activity to Retry State

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG transitions Activity to 'Retry' state.

---

### Business Objects

---

D1-DeviceCommission

---

## 4.6 Cancel Outstanding Outbound Communication

See **Manage Device Commissioning (L+G) Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG cancels any existing outstanding Outbound Communications.

---

### Business Objects

---

D1-DeviceCommission

---

### Available Algorithms

---

D1-COOC (Cancel Outstanding Outbound Communication)

---

## 4.7 Create Outbound Communication in Pending State

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Group:** Outbound Communication Process

**Actor/Role:** SGG

**Description:** SGG creates Device Commission Outbound Communication in 'Pending' state.

---

### Entities to Configure

---

Outbound Communication Processing Method

Outbound Communication Type

---



---

### Business Objects

---

D1-DeviceCommission  
D3-MeterAddNotificationMultiSp

---

### Available Algorithms

---

D1-CMSOBCOMM  
(Commissioning Outbound Communication Creation)  
D1-COMMINFO  
(Communication Information)  
D1-GDRFFPA (Default required fields from Parent Activity)

---

## 4.8 Validate Ability to Process Outbound Communication and Transition to Validate State

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Group:** Outbound Communication Process

**Actor/Role:** SGG

**Description:** SGG validates ability to process Outbound Communication. Typically, system checks for communication type.

---

### Entities to Configure

---

Communication Type

---

Business Objects	Available Algorithms
D3-MeterAddNotificationMultiSp D3-MeterAddNotificationMSType	D1-VALCOMTP (Validate Communication Type) F1-AT-RQJ (Transition to Default Next Status (Java))

## 4.9 Transition Outbound Communication to Validation Error State and Log Error

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Group:** Outbound Communication Process

**Actor/Role:** SGG

**Description:** If any error occurs during validations, SGG transitions the Outbound Communication to 'Validation Error' state and logs an error.

---

### Business Objects

---

D3-MeterAddNotificationMultiSp  
D3-MeterAddNotificationMSType

---

## 5.0 Populate Message Details and Transition to Awaiting Response State

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Group:** Outbound Communication Process

**Actor/Role:** SGG

**Description:** SGG transitions Outbound Communication to 'Awaiting Response' state and populates Device Commission message details.

Business Objects	Available Algorithms
D3-MeterAddNotificationMultiSp D3-MeterAddNotificationMSType	D3-PAMNSD (Populate Add Meter Notification Send Detail)

## 5.1 Create and Send Outbound Communication Message

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Group:** Outbound Communication Process

**Group:** Create and Send Outbound Message

**Actor/Role:** SGG

**Description:** SGG creates Outbound Communication and sends it to L+G Head-End System.

Business Objects	Available Algorithms
D3-MeterAddNotificationMultiSp D3-MeterAddNotificationMSType	D3-CMSGMTRAN (Create Outbound Message for Meter Add Notification)

## 5.2 Communicate and Transform Response to L+G Format

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Group:** Outbound Communication Process

**Group:** Integration Layer

**Actor/Role:** SGG

**Description:** Integration Layer of SGG facilitates the communication between the SGG and L+G Head-End System. It receives the Outbound Communication request, transforms, and converts the request into format compatible with L+G Head-End System.

## 5.3 Process Request and Evaluate Communication with Device

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Group:** Outbound Communication Process

**Actor/Role:** L+G Head-End System

**Description:** L+G Head-End System receives Device Commission request from SGG and processes it.

**Note:** This is external and outside the Oracle SGG environment.

## 5.4 Establish Communication with Head-End

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Group:** Outbound Communication Process

**Actor/Role:** Smart Meter

**Description:** Communication is established between Smart Meter Device and the Head-End System.

**Note:** This is external and outside the Oracle SGG environment.

## 5.5 Send Acknowledgement to SGG

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Group:** Outbound Communication Process

**Actor/Role:** L+G Head-End System

**Description:** L+G Head-End System, on receipt of Device Commission request from SGG, analyzes and sends a real-time acknowledgement back to SGG.

## 5.6 Communicate and Transform Acknowledgement to SGG Format

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Group:** Outbound Communication Process

**Group:** Integration Layer

**Actor/Role:** SGG

**Description:** Integration Layer of SGG facilitates the communication between the L+G Head-End System and SGG. It receives the synchronous acknowledge, transforms, and converts the acknowledgement into format compatible with SGG.

## 5.7 Evaluate Acknowledgement

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Group:** Outbound Communication Process

**Group:** Create and Send Outbound Message

**Actor/Role:** SGG

**Description:** SGG evaluates acknowledge and checks the success of sending Outbound Communication.

Business Objects	Available Algorithms
D3-MeterAddNotificationMultiSp D3-MeterAddNotificationMSType	D3-CMSGMTRAN (Create Outbound Message for Meter Add Notification)

## 5.8 Transition Outbound Communication to Response Error State and Log Error

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Group:** Outbound Communication Process

**Actor/Role:** SGG

**Description:** If any error occurs during communication with Head-End system, SGG transitions the Outbound Communication to 'Response Error' state and logs an error.

Business Objects	Available Algorithms
D3-MeterAddNotificationMultiSp D3-MeterAddNotificationMSType	D3-CMSGMTRAN (Create Outbound Message for Meter Add Notification)

## 5.9 Transition Outbound Communication to Create Completion Event State

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Group:** Outbound Communication Process

**Actor/Role:** SGG

**Description:** SGG transitions Outbound Communication to 'Create Completion Event' state.

Business Objects	Available Algorithms
D3-MeterAddNotificationMultiSp D3-MeterAddNotificationMSType	F1-AT-RQJ (Transition to Default Next Status (Java))

## 6.0 Validate Ability to Process Completion Event and Create Event in Pending State

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Group:** Outbound Communication Process

**Actor/Role:** SGG

**Description:** SGG initiates to create the Device Commission Completion Event in 'Pending' state. Prior to creating, SGG validates ability to process Completion Event. Typically, it checks for Completion Event, initiating Outbound Communication, etc.

Business Objects	Available Algorithms
D3-MeterAddNotificationMultiSp D1-Completion Event D1-CommissionDevice	D3-CRCCOMPEV (Create Commission Device Completion Event) D1-CEVTINFO (Completion Event - Information) D1-VALCEVT (Validate Completion Event ) D1-VALOUTCOM (Validate Outbound Communication)

## 6.1 Transition Outbound Communication to Completed State

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG transitions Outbound Communication to 'Completed' state.

Business Objects	Available Algorithms
D1-DeviceCommission D3-MeterAddNotificationMultiSp	F1-AT-RQJ (Transition to Default Next Status (Java))

## 6.2 Transition Activity to Waiting for Measurement State

See **Manage Device Commissioning (L+G) Page 3** on page 2-4 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG transitions Device Commission Activity to 'Waiting for Measurement' state.

Business Objects	Available Algorithms
D1-DeviceCommission	F1-AT-RQJ (Transition to Default Next Status (Java))

## 6.3 Determine Availability of Install Event

See **Manage Device Commissioning (L+G) Page 4** on page 2-5 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG proceeds to check for availability of IMD if it is required to ensure successful Commissioning of Device. As part of this, it proceeds to determine if there exists an Install Event.

### Customizable process

D1-CRWT (Command Request Wait - Monitor)

Business Objects	Available Algorithms
D1-DeviceCommission	D1-CHKIMDFLG (Check For Wait For IMD Flag) D1-CHKIMD (Check For Initial Measurement Data)

## 6.4 Transition Activity to Execute Completion Event State

See **Manage Device Commissioning (L+G) Page 4** on page 2-5 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG transitions Device Commission Activity to 'Execute Completion Event' state.

Business Objects	Available Algorithms
D1-DeviceCommission	D1-CHKIMD (Check For Initial Measurement Data)

## 6.5 Evaluate Wait Period for IMD Availability

See **Manage Device Commissioning (L+G) Page 4** on page 2-5 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG monitors if the IMD measurement becomes available in allowable wait period, or if the wait period has already expired without IMD becoming available.

Customizable process
D1-CRWT (Command Request Wait - Monitor)

Business Objects	Available Algorithms
D1-DeviceCommission	D1-WTTMOUTEX (Wait Time Out - Transition to Exception)

## 6.6 Transition Activity to Wait Expired Error State and Log Error

See **Manage Device Commissioning (L+G) Page 4** on page 2-5 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** If wait period configured to monitor IMD availability expires without IMD, SGG transitions Activity to 'Wait Expired' state and logs an error.

Customizable process
D1-CRWT (Command Request Wait - Monitor)

Entities to Configure
Activity Type

Business Objects
D1-DeviceCommission



## 6.7 Review Activity in Waiting for Measurement State

See **Manage Device Commissioning (L+G) Page 4** on page 2-5 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User can review and analyze the Activity.

---

### Business Objects

---

D1-DeviceCommission

---

## 6.8 Request to Skip Waiting for IMD

See **Manage Device Commissioning (L+G) Page 4** on page 2-5 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** If the Authorized User wishes to process the Activity immediately, User can manually make a request to skip waiting for IMD.

---

### Business Objects

---

D1-DeviceCommission

---

## 6.9 Transition Completion Event to Executed State

See **Manage Device Commissioning (L+G) Page 4** on page 2-5 for the business process diagram associated with this activity.

**Group:** Transition Completion Event to Executed State

**Actor/Role:** SGG

**Description:** When the Activity is in 'Execute Completion Event' state, SGG transitions Completion Event to 'Executed' state.

---

### Business Objects

---

D1-DeviceCommission  
D1-Completion Event  
D1-CommissionDevice

---



---

### Available Algorithms

---

D1-EXCMPEVTS (Execute  
Completion Events)

---

## 7.0 Create Install Event

See **Manage Device Commissioning (L+G) Page 4** on page 2-5 for the business process diagram associated with this activity.

**Group:** Transition Completion Event to Executed State

**Actor/Role:** SGG

**Description:** SGG creates an install Event if it is not available.

Business Objects	Available Algorithms
D1-DeviceCommission D1-Completion Event D1-CommissionDevice	D1-CREINSEVT (Create Install Event)

## 7.1 Update Install Event Status to Commissioned

See **Manage Device Commissioning (L+G) Page 4** on page 2-5 for the business process diagram associated with this activity.

**Group:** Transition Completion Event to Executed State

**Actor/Role:** SGG

**Description:** SGG updates install Event status to 'Commissioned' state.

Business Objects	Available Algorithms
D1-DeviceCommission D1-Completion Event D1-CommissionDevice	D1-COMMDEV (Commission Device)

## 7.2 Transition Activity to Completion Event Error State and Log Error

See **Manage Device Commissioning (L+G) Page 4** on page 2-5 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** If any errors occur during transitioning of Completion Event to 'Executed' state, SGG transitions Activity to 'Completion Event Error' state and logs an error.

### Business Objects

D1-DeviceCommission  
D1-Completion Event  
D1-CommissionDevice

## 7.3 Transition Activity to Completion State

See **Manage Device Commissioning (L+G) Page 4** on page 2-5 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG transitions Activity to 'Completion' state.

Business Objects	Available Algorithms
D1-DeviceCommission	F1-AT-RQJ (Transition to Default Next Status (Java))

## 7.4 Determine Processing Method

See **Manage Device Commissioning (L+G) Page 4** on page 2-5 for the business process diagram associated with this activity.

**Group:** Send Device Commission Success Message to Requester

**Actor/Role:** SGG

**Description:** SGG determines the method of sending Device Commissioning response to 3rd Party Application.

Business Objects	Available Algorithms
D1-DeviceCommission	D1-SRER (Send Success Response to External Requester)

## 7.5 Create and Send Outbound Message

See **Manage Device Commissioning (L+G) Page 4** on page 2-5 for the business process diagram associated with this activity.

**Group:** Send Device Commission Success Message to Requester

**Actor/Role:** SGG

**Description:** SGG creates the message and sends it based on the identified method.

Business Objects	Available Algorithms
D1-DeviceCommission	D1-SRER (Send Success Response to External Requester)

## 7.6 Communicate and Transform Device Commission Cancel Command to SGG Format

See **Manage Device Commissioning (L+G) Page 5** on page 2-6 for the business process diagram associated with this activity.

**Actor/Role:** Integration Layer

**Description:** Integration Layer facilitates the communication between the 3rd Party Application and the SGG Application. It receives the Cancel Command request, transforms, and converts the request into format compatible with SGG Application.

## 7.7 Identify the Device Commission Activity based on Transaction ID

See **Manage Device Commissioning (L+G) Page 5** on page 2-6 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG identifies the Device Commission Activity to cancel based on the transaction ID, which was created in SGG when the request originally came from 3rd party Application and sent later to 3rd party Application. However, in case of manual request from Authorized User, the Device Commission Activity is identified based on manual selection while populating the required data for cancel command request.

## 7.8 Gather Requirements to Cancel Command

See **Manage Device Commissioning (L+G) Page 5** on page 2-6 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User analyzes requirements and gathers information required to cancel Device Commission command.

## 7.9 Select Cancel Command Activity Type

See **Manage Device Commissioning (L+G) Page 5** on page 2-6 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User selects the Activity Type as 'Cancel Command' to cancel command request.

## 8.0 Populate Cancel Command Execution Data

See **Manage Device Commissioning (L+G) Page 5** on page 2-6 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User populates the required data such as request expiration date, recipient information, etc.

## 8.1 Analyze Requirements to Create Event

See **Manage Device Commissioning (L+G) Page 6** on page 2-7 for the business process diagram associated with this activity.

**Group:** Manual Commission Device Completion Event Process

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User analyzes requirements and gathers information required to create 'Device Commission' Completion Event.

**Note:** In general, creating Completion Event manually is not the practical business practice.

## 8.2 Select Completion Event Type and Populate Event Creation Data

See **Manage Device Commissioning (L+G) Page 6** on page 2-7 for the business process diagram associated with this activity.

**Group:** Manual Commission Device Completion Event Process

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User selects the Event Type as 'Device Commissioning' Completion Event and populates the required data.

## 8.3 Request to Create Completion Event

See **Manage Device Commissioning (L+G) Page 6** on page 2-7 for the business process diagram associated with this activity.

**Group:** Manual Commission Device Completion Event Process

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User makes a request to SGG to create a 'Device Commissioning' Completion Event.

## 8.4 Review Event

See **Manage Device Commissioning (L+G) Page 6** on page 2-7 for the business process diagram associated with this activity.

**Group:** Manual Commission Device Completion Event Process

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User can review and analyze the 'Device Commissioning' Completion Event created.

---

### Business Object

---

#### D1-Completion Event

D1-CommissionDevice

---

## 8.5 Request to Delete

See **Manage Device Commissioning (L+G) Page 6** on page 2-7 for the business process diagram associated with this activity.

**Group:** Manual Commission Device Completion Event Process

**Actor/Role:** MDM or SGG Authorized User

**Description:** If MDM or SGG Authorized User determines that the 'Device Commissioning' Completion Event is not required, Authorized User requests to delete it.

---

### Business Object

---

#### D1-Completion Event

D1-CommissionDevice

---

## 8.6 Delete Completion Event

See **Manage Device Commissioning (L+G) Page 6** on page 2-7 for the business process diagram associated with this activity.

**Group:** Manual Commission Device Completion Event Process

**Actor/Role:** SGG

**Description:** SGG deletes the 'Device Commissioning' Completion Event.

---

### Business Object

---

#### D1-Completion Event

D1-CommissionDevice

---

## 8.7 Request to Discard

See **Manage Device Commissioning (L+G) Page 6** on page 2-7 for the business process diagram associated with this activity.

**Group:** Manual Commission Device Completion Event Process

**Actor/Role:** MDM or SGG Authorized User

**Description:** If MDM or SGG Authorized User determines that the 'Device Commissioning' Completion Event is not required, Authorized User requests to discard it.

---

### Business Object

---

#### D1-Completion Event

D1-CommissionDevice

---

## 8.8 Transition to Discard State and Discard Completion Event

See **Manage Device Commissioning (L+G) Page 6** on page 2-7 for the business process diagram associated with this activity.

**Group:** Manual Commission Device Completion Event Process

**Actor/Role:** SGG

**Description:** SGG transitions 'Device Commission' Completion Event to 'Discard' state.

---

### Business Object

---

#### D1-Completion Event

D1-CommissionDevice

---

## 8.9 Request to Update

See **Manage Device Commissioning (L+G) Page 6** on page 2-7 for the business process diagram associated with this activity.

**Group:** Manual Commission Device Completion Event Process

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User modifies 'Device Commissioning' Completion Event data and requests to perform appropriate updates.

---

### Business Object

---

#### D1-Completion Event

D1-CommissionDevice

---

## 9.0 Update Completion Event

See **Manage Device Commissioning (L+G) Page 6** on page 2-7 for the business process diagram associated with this activity.

**Group:** Manual Commission Device Completion Event Process

**Actor/Role:** SGG

**Description:** SGG updates the 'Device Commissioning' Completion Event with data populated by Authorized User.

---

**Business Object**

---

**D1-Completion Event**

D1-CommissionDevice

---

## 9.1 Request to Execute

See **Manage Device Commissioning (L+G) Page 6** on page 2-7 for the business process diagram associated with this activity.

**Group:** Manual Commission Device Completion Event Process

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User requests to transition 'Device Commissioning' Completion Event to 'Executed' state.

---

**Business Object**

---

**D1-Completion Event**

D1-CommissionDevice

---

## 9.2 Analyze Error and Work To Do

See **Manage Device Commissioning (L+G) Page 7** on page 2-8 for the business process diagram associated with this activity.

**Actor/Role:** MDM or SGG Authorized User

**Description:** MDM or SGG Authorized User analyzes the error logged and respective To Do created to determine the corrective action and perform work.

---

**Business Object**

---

**D1-DeviceCommission**

**D3-MeterAddNotificationMultiSp**

---

## 9.3 Request to Delete

See **Manage Device Commissioning (L+G) Page 7** on page 2-8 for the business process diagram associated with this activity.

**Group:** Outbound Exception Process

**Actor/Role:** MDM or SGG Authorized User

**Description:** If MDM or SGG Authorized User determines that the Outbound Communication is not required, Authorized User can request to delete it .

---

**Business Object**

---

D1-DeviceCommission

D3-MeterAddNotificationMultiSp

---

## 9.4 Delete Outbound Communication

See **Manage Device Commissioning (L+G) Page 7** on page 2-8 for the business process diagram associated with this activity.

**Group:** Outbound Exception Process

**Actor/Role:** SGG

**Description:** SGG deletes Outbound Communication from the system.

---

**Business Object**

---

D1-DeviceCommission

D3-MeterAddNotificationMultiSp

---

## 9.5 Request to Discard

See **Manage Device Commissioning (L+G) Page 7** on page 2-8 for the business process diagram associated with this activity.

**Group:** Outbound Exception Process

**Actor/Role:** MDM or SGG Authorized User

**Description:** If MDM or SGG Authorized User determines that the Outbound Communication is not required, Authorized User can request SGG to discard it.

## 9.6 Complete To Do(s)

See **Manage Device Commissioning (L+G) Page 7** on page 2-8 for the business process diagram associated with this activity.

**Group:** Outbound Exception Process

**Actor/Role:** SGG

**Description:** SGG finds all non-completed To Do entries and completes them.

---

**Business Objects**

---

D1-DeviceCommission

D3-MeterAddNotificationMultiSp

---



---

**Available Algorithms**

---

D1-GTDCBO (Generic To Do Completion for BOs)



## 9.7 Transition Outbound Communication to Discard State

See **Manage Device Commissioning (L+G) Page 7** on page 2-8 for the business process diagram associated with this activity.

**Group:** Outbound Exception Process

**Actor/Role:** SGG

**Description:** SGG transitions Outbound Communication to 'Discard' state.

Business Objects	Available Algorithms
D1-DeviceCommission	D1-TPATOF (Transition Parent Activity To Failed)
D3-MeterAddNotificationMultiSp	

## 9.8 Request to Validate

See **Manage Device Commissioning (L+G) Page 7** on page 2-8 for the business process diagram associated with this activity.

**Group:** Outbound Exception Process

**Actor/Role:** MDM or SGG Authorized User

**Description:** If Authorized User wants to reprocess the Outbound Communication, Authorized User can request to validate it.

## 9.9 Transition to Validate State and Initialize Reprocessing

See **Manage Device Commissioning (L+G) Page 7** on page 2-8 for the business process diagram associated with this activity.

**Group:** Outbound Exception Process

**Actor/Role:** SGG

**Description:** SGG transitions Outbound Communication to 'Validate' state and initializes reprocessing.

Business Object
D1-DeviceCommission
D3-MeterAddNotificationMultiSp

## 10.0 Identify Outbound Communication in Validation Error State

See **Manage Device Commissioning (L+G) Page 7** on page 2-8 for the business process diagram associated with this activity.

**Group:** Outbound Exception Process

**Actor/Role:** SGG

**Description:** SGG identifies Outbound Communication in 'Validation Error' state.

---

**Customizable process**

---

D1-OCERR (Outbound Communication Error - Retry)

---

---

**Business Objects****Available Algorithms**

---

D3-MeterAddNotificationMultiSp

D1-RBOE (Retry BO in Error)

---

## 10.1 Evaluate Criteria to Run Automated Retry Process

See **Manage Device Commissioning (L+G) Page 7** on page 2-8 for the business process diagram associated with this activity.

**Group:** Outbound Exception Process

**Actor/Role:** SGG

**Description:** SGG evaluates criteria to run automated retry process. A Batch process is configured for this.

**Note:** If Business requires different criteria to retry the process, those criteria could be configured in parameter section of batch process.

---

**Customizable process**

---

D1-OCERR (Outbound Communication Error - Retry)

D1-CRERR (Command Request Error - Retry)

---

---

**Business Object**

---

D1-DeviceCommission

D3-MeterAddNotificationMultiSp

---

## 10.2 Request to Retry

See **Manage Device Commissioning (L+G) Page 7** on page 2-8 for the business process diagram associated with this activity.

**Group:** Outbound Exception Process

**Actor/Role:** MDM or SGG Authorized User

**Description:** If MDM or SGG Authorized User determines to reinitiate the Outbound Communication from the beginning, Authorized User can request to retry.

## 10.3 Transition to Retry State

See **Manage Device Commissioning (L+G) Page 7** on page 2-8 for the business process diagram associated with this activity.

**Group:** Outbound Exception Process

**Actor/Role:** SGG

**Description:** SGG transitions the Outbound Communication to 'Retry' state.

Business Objects	Available Algorithms
D1-DeviceCommission D3-MeterAddNotificationMultiSp	D1-RBOE (Retry BO in Error)

## 10.4 Identify Outbound Communication in Response Error State

See **Manage Device Commissioning (L+G) Page 7** on page 2-8 for the business process diagram associated with this activity.

**Group:** Outbound Exception Process

**Actor/Role:** SGG

**Description:** SGG identifies Outbound Communication in 'Response Error' state.

Customizable process
D1-OCERR (Outbound Communication Error - Retry)

Business Object
D1-DeviceCommission D3-MeterAddNotificationMultiSp

## 10.5 Request to Revalidate

See **Manage Device Commissioning (L+G) Page 8** on page 2-9 for the business process diagram associated with this activity.

**Group:** 'Validation Error' Exception Process

**Actor/Role:** MDM or SGG Authorized User

**Description:** If Authorized User wants to reprocess the Activity, can request to validate it.

Business Object
D1-DeviceCommission

## 10.6 Transition Activity to Validate State and Initialize Reprocessing

See **Manage Device Commissioning (L+G) Page 8** on page 2-9 for the business process diagram associated with this activity.

**Group:** 'Validation Error' Exception Process

**Actor/Role:** SGG

**Description:** SGG transitions Activity to 'Validate' state and initializes reprocessing.

---

**Business Object**

---

D1-DeviceCommission

---

## 10.7 Identify Activity in Validation Error State

See **Manage Device Commissioning (L+G) Page 8** on page 2-9 for the business process diagram associated with this activity.

**Group:** 'Validation Error' Exception Process

**Actor/Role:** SGG

**Description:** SGG identifies Activity in 'Validation Error' state.

---

**Customizable process**

---

D1-CRERR (Command Request Error - Retry)

---

---

**Business Object**

---

D1-DeviceCommission

---

## 10.8 Identify Activity in Communication Error State

See **Manage Device Commissioning (L+G) Page 8** on page 2-9 for the business process diagram associated with this activity.

**Group:** 'Communication Error' Exception Process

**Actor/Role:** SGG

**Description:** SGG identifies Activity in 'Communication Error' state.

---

**Customizable process**

---

D1-CRERR (Command Request Error - Retry)

---

---

**Business Object**

---

D1-DeviceCommission

---

## 10.9 Request to Wait for IMD

See **Manage Device Commissioning (L+G) Page 9** on page 2-10 for the business process diagram associated with this activity.

**Group:** 'Wait Expired Error' Exception Process

**Actor/Role:** MDM or SGG Authorized User

**Description:** If MDM or SGG Authorized User wishes to reprocess, can reinitiate the wait process by manually making a request to SGG to 'Request to Wait for IMD'.

---

**Business Object**

---

D1-DeviceCommission

---

## 11.0 Transition Activity to Waiting for Measurement State and Initialize Reprocessing

See **Manage Device Commissioning (L+G) Page 9** on page 2-10 for the business process diagram associated with this activity.

**Group:** 'Wait Expired Error' Exception Process

**Actor/Role:** SGG

**Description:** SGG transitions Activity to 'Waiting for Measurement' state and initializes reprocessing.

---

**Business Object**

---

D1-DeviceCommission

D3-MeterAddNotificationMultiSp

---

### 11.1 Identify Activity in Wait Expired Error State

See **Manage Device Commissioning (L+G) Page 9** on page 2-10 for the business process diagram associated with this activity.

**Group:** 'Wait Expired Error' Exception Process

**Actor/Role:** SGG

**Description:** SGG identifies Activity in 'Wait Expired' error state.

---

**Customizable process**

---

D1-CRERR (Command Request Error - Retry)

---



---

**Business Object**

---

D1-DeviceCommission

---

### 11.2 Request to Execute Completion Events

See **Manage Device Commissioning (L+G) Page 9** on page 2-10 for the business process diagram associated with this activity.

**Group:** 'Completion Event Error' Exception Process

**Actor/Role:** SGG

**Description:** If MDM or SGG Authorized User wants to reprocess the Activity, Authorized User can request to reprocess it.

---

**Business Object**

---

D1-DeviceCommission

---

### 11.3 Transition Activity to Execute Completion Event State and Initialize Reprocessing

See **Manage Device Commissioning (L+G) Page 9** on page 2-10 for the business process diagram associated with this activity.

**Group:** 'Completion Event Error' Exception Process

**Actor/Role:** SGG

**Description:** SGG transitions Activity to 'Execute Completion Event' state and initializes reprocessing.

---

**Business Objects**

---

D1-DeviceCommission  
D3-MeterAddNotificationMultiSp

---



---

**Available Algorithms**

---

D1-RBOE (Retry BO in Error)

---

### 11.4 Identify Activity in Completion Event Error State

See **Manage Device Commissioning (L+G) Page 9** on page 2-10 for the business process diagram associated with this activity.

**Group:** 'Completion Event Error' Exception Process

**Actor/Role:** SGG

**Description:** SGG identifies Activity in 'Completion Event Error' state.

---

**Customizable process**

---

D1-CRERR (Command Request Error - Retry)

---



---

**Business Object**

---

D1-DeviceCommission

---

### 11.5 Transition Activity to Discard State

See **Manage Device Commissioning (L+G) Page 10** on page 2-11 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** SGG transitions Activity to 'Discard' state indicating that it cannot be further used. However, it remains in the system.

---

**Business Object**


---



---

D1-DeviceCommission

---

## 11.6 Cancel Outstanding Completion Events

See **Manage Device Commissioning (L+G) Page 10** on page 2-11 for the business process diagram associated with this activity.

**Actor/Role:** SGG

**Description:** When Activity is discarded, SGG cancels any existing outstanding Completion Events.

---

**Customizable process**


---



---

D1-COCE (Cancel Outstanding Completion Events)

---



---

**Business Object**


---



---

D1-DeviceCommission

---

## 11.7 Determine Sending Method

See **Manage Device Commissioning (L+G) Page 10** on page 2-11 for the business process diagram associated with this activity.

**Group:** Send Fail Message to Requester

**Actor/Role:** SGG

**Description:** SGG determines the method of sending command fail message to 3rd Party Application.

---

**Business Objects**


---

**Available Algorithms**


---

D1-DeviceCommission

D1-FRER (Send Fail Response to External Requester)

---

## 11.8 Create and Send Outbound Message

See **Manage Device Commissioning (L+G) Page 10** on page 2-11 for the business process diagram associated with this activity.

**Group:** Send Fail Message to Requester

**Actor/Role:** SGG

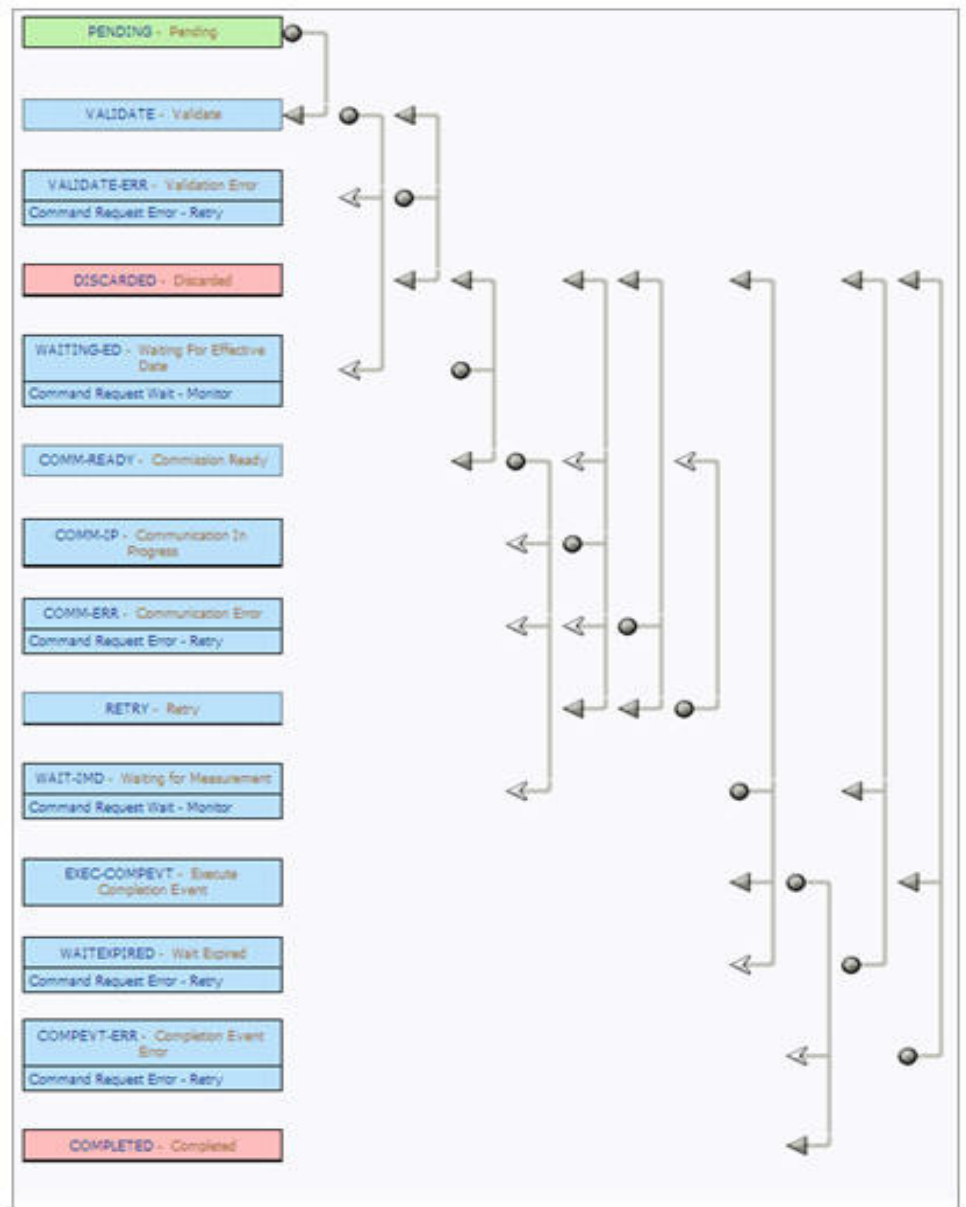
**Description:** SGG creates the message and sends it based on the identified method.

<b>Business Objects</b>	<b>Available Algorithms</b>
D1-DeviceCommission	D1-FRER (Send Fail Response to External Requester)

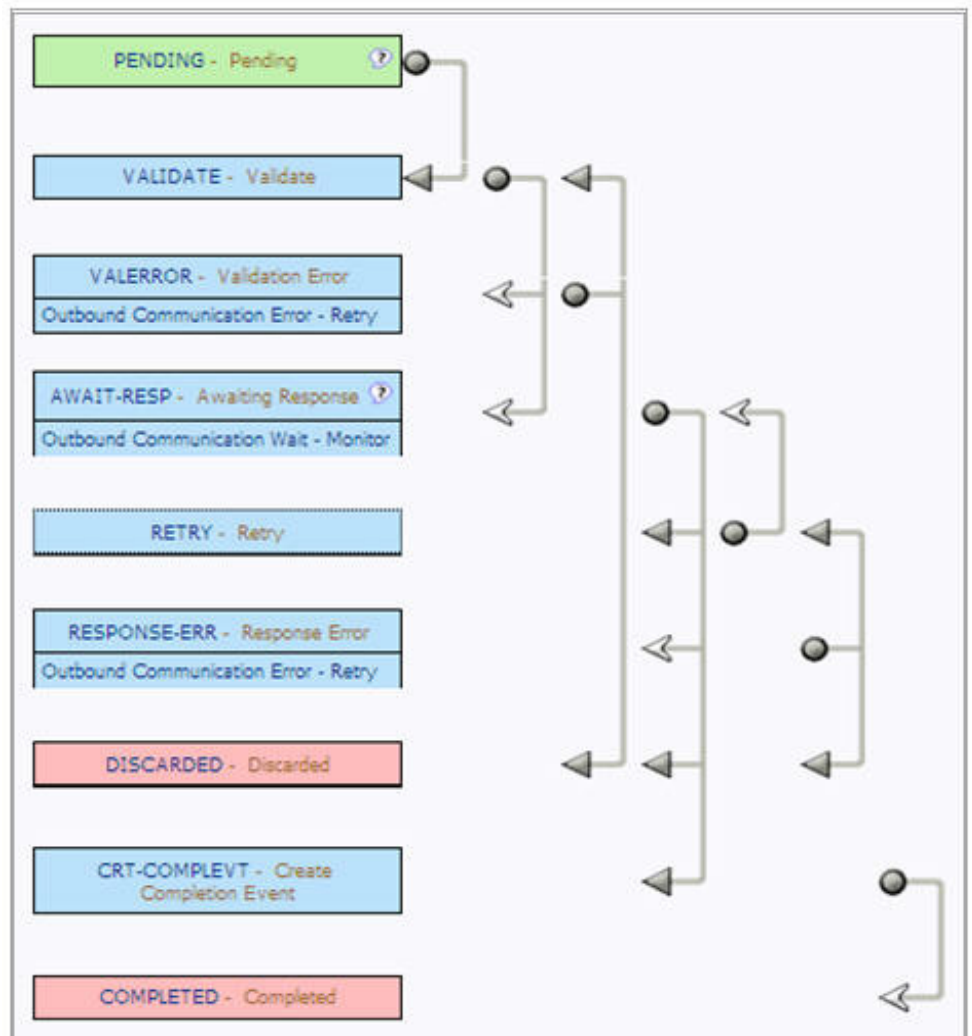


# Business Objects Life Cycle

## D1-DeviceCommission



### D3-MeterAddNotificationMultiSp



## D1-Completion Event

