

**Oracle Utilities Customer Self Service
Release 2.1.0**

Utility Reference Model

4.2.1.1 OUCSS-CCB-MDM Add and Process Scalar
Meter Read

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Oracle Utilities Customer Self Service Release 2.1.0 Utility Reference Model 4.2.1.1 OUCSS-CCB-MDM Add and Process Scalar Meter Read

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4.2.1.1 OUCSS-CCB-MDM Add and Process Scalar Meter Read

This section provides a brief description of the “OUCSS-CCB-MDM Add and Process Scalar Meter Read” business process. This includes:

- ♦ [Brief Description](#)
 - ♦ [Actors/Roles](#)
- ♦ [Business Process Diagrams](#)
 - ♦ [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1](#)
- ♦ [OUCSS-CCB-MDM Add and Process Scalar Meter Read Detailed Process Model Description](#)

Brief Description

Business Process: 4.2.1.1 OUCSS-CCB-MDM Add and Process Scalar Meter Read

Process Type: Sub-Process

Parent Process: 4.2.1 OUCSS-CC&B-MDM.Collect and Process Measurements

Sibling Processes: n/a

This process takes place when a customer reviews usage information via the self-service portal. The process allows understanding the relationship between the web-portal and usage information in MDM and CC&B.

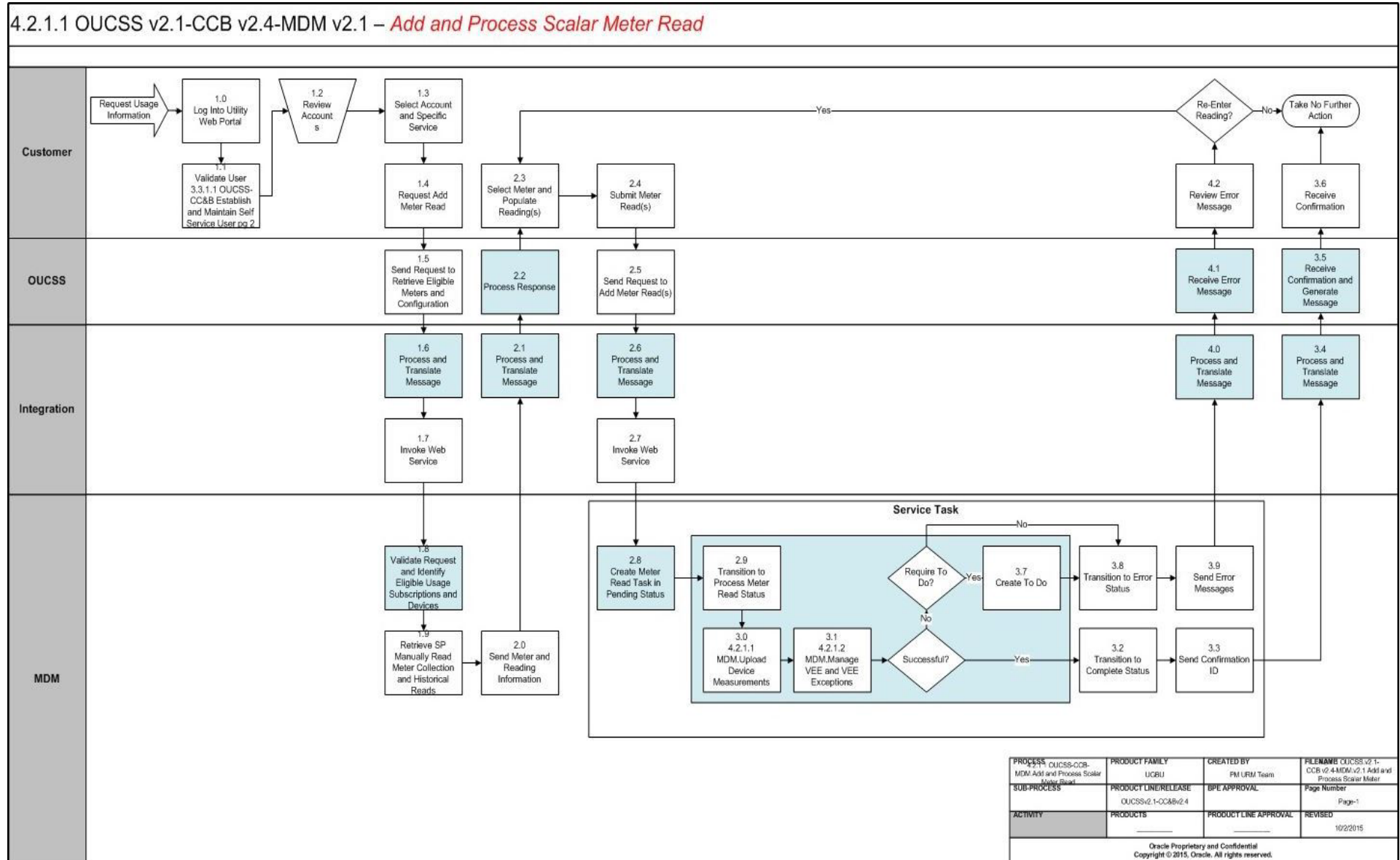
Actors/Roles

The OUCSS-CCB-MDM Add and Process Scalar Meter Read business process involves the following actors and roles:

- **CC&B:** The Customer Care and Billing application. Steps performed by this actor/role are performed automatically by the application, without the need for user initiation or intervention.
- **Customer:** The service customer.
- **MDM:** Meter Data Management
- **OUCSS:** The Oracle Utilities Customer Self Service application.

Business Process Diagrams

OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1



OUCSS-CCB-MDM Add and Process Scalar Meter Read Detailed Process Model Description

This section provides a detailed description of the “OUCSS-CCB-MDM Add and Process Scalar Meter Read” business process, including:

- ♦ 1.0 Log Into Utility Web Portal
- ♦ 1.1 Establish and Maintain Self Service User
- ♦ 1.2 Review Accounts
- ♦ 1.3 Select Account
- ♦ 1.4 Request Add Meter Read
- ♦ 1.5 Send Request to Retrieve Eligible Meters and Configuration
- ♦ 1.6 Process and Translate Message
- ♦ 1.7 Invoke Web Service
- ♦ 1.8 Validate Request and Identify Eligible Usage Subscriptions and Devices
- ♦ 1.9 Retrieve SP Manually Read Meter Collection and Historical Reads
- ♦ 2.0 Send Meter Information
- ♦ 2.1 Process and Translate Message
- ♦ 2.2 Process Response
- ♦ 2.3 Select Meter and Populate Reading(s)
- ♦ 2.4 Submit Meter Read(s)
- ♦ 2.5 Send Request to Add Meter Read(s)
- ♦ 2.6 Process and Translate Message
- ♦ 2.7 Invoke Web Service
- ♦ 2.8 Create Meter Read Task in Pending Status
- ♦ 2.9 Transition to Process Meter Read Status
- ♦ 3.0 Upload Device Measurements
- ♦ 3.1 Manage VEE and VEE Exceptions
- ♦ 3.2 Transition to Complete Status
- ♦ 3.3 Send Confirmation ID
- ♦ 3.4 Process and Translate Message
- ♦ 3.5 Receive Confirmation and Generate Message
- ♦ 3.6 Receive Confirmation
- ♦ 3.7 Create To Do
- ♦ 3.8 Transition to Error Status
- ♦ 3.9 Send Error Messages
- ♦ 4.0 Process and Translate Message
- ♦ 4.1 Receive Error Message

1.0 Log Into Utility Web Portal

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Customer

Description: User logs into self-service account to access Utility Web Portal.

1.1 Establish and Maintain Self Service User

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Customer

Description: See process 3.3.1.1 OUCSS-CC&B.Establish and Maintain Self Service User.

1.2 Review Accounts

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Customer

Description: Customer reviews list of account(s) enrolled for self-service.

1.3 Select Account

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Customer

Description: Customer selects a single account for which they want to add scalar meter read.

1.4 Request Add Meter Read

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Customer

Description: Customer requests to add scalar meter read for account.

1.5 Send Request to Retrieve Eligible Meters and Configuration

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: OUCSS

Description: OUCSS requests the list of meters and configuration eligible for entering reads.

1.6 Process and Translate Message

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Integration

Description: Integration processes the usage details request and translates it for MDM.

Entities to Configure

- BPEL: OUCSSOUMDM2AddScalarMeterReadEBF

1.7 Invoke Web Service

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Integration

Description: Integration invokes the MDM web service requesting usage details.

Entities to Configure

- BPEL: OUCSSOUMDM2AddScalarMeterReadEBF

1.8 Validate Request and Identify Eligible Usage Subscriptions and Devices

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: MDM

Description: MDM retrieves usage for the specified accounts and time period. If only an Account ID is provided, it will retrieve the list of eligible usage subscriptions.

Algorithms

- Business Service: WX-CrSSMRead

Entities to Configure

- XAI Service: WX-CreateSelfServiceMeterRead
- Master Config: Usage Subscription Usage Group (in Supported Scalar Usage Group)
- Master Config: Service Task Type

1.9 Retrieve SP Manually Read Meter Collection and Historical Reads

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: MDM

Description: MDM retrieves a list of meters with non-interval registers for the account.

Algorithms

- Business Service: WX-CrSSMRead
- D1-SSMCInfo (Master Config Processing Scripts)
- D2-SSUSInfo (Master Config Processing Scripts)
- D1-SPDCInfo (Master Config Processing Scripts)

Entities to Configure

- XAI Service: WX-CreateSelfServiceMeterRead

2.0 Send Meter Information

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: MDM

Description: MDM sends the meter information to OUCSS.

2.1 Process and Translate Message

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Integration

Description: Integration processes the usage details request and translates it for OUCSS.

Entities to Configure

- BPEL: OUCSSOUMDM2AddScalarMeterReadEBF

2.2 Process Response

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: OUCSS

Description: OUCSS processes the meter data and presents it to the end-user

Entities to Configure

- OUCSS: Enter Meter Read Table Configuration

2.3 Select Meter and Populate Reading(s)

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Customer

Description: Customer reviews the meter configuration and populates the meter read data.

2.4 Submit Meter Read(s)

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Customer

Description: Customer requests to add the meter read data.

2.5 Send Request to Add Meter Read(s)

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: OUCSS

Description: OUCSS sends the add meter read request to MDM for processing.

2.6 Process and Translate Message

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Integration

Description: Integration processes the usage details request and translates it for MDM.

Entities to Configure

- BPEL: OUCSSOUMDM2AddScalarMeterReadEBF

2.7 Invoke Web Service

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Integration

Description: Integration invokes the MDM web service requesting usage details.

Entities to Configure

- BPEL: OUCSSOUMDM2AddScalarMeterReadEBF

2.8 Create Meter Read Task in Pending Status

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: MDM

Description: MDM instantiates a service task for creating a meter read in pending status.

Algorithms

- D2-SSTINFO
- F1-TRN-DF-NS (Monitor)

Business Objects

- D1-ServiceTaskTypeBasis
- D2-SSMeterReadTaskType
- D2-SSMeterReadTask

Entities to Configure

- XAI Service: WX-CreateSelfServiceMeterRead
- Service Task Type (e.g. OUCSS-MR)

2.9 Transition to Process Meter Read Status

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: MDM

Description: MDM transitions service task to process status.

Algorithms

- WX-CrSSMRead
- D2-CreMRSTsk
- D2-CRSSMR

Business Objects

- D1-ServiceTaskTypeBasis
- D2-SSMeterReadTaskType
- D2-SSMeterReadTask

3.0 Upload Device Measurements

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: MDM

Description: See process 4.2.1.1 MDM.Upload Device Measurements.

3.1 Manage VEE and VEE Exceptions

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: MDM

Description: See process 4.2.1.1 MDM.Manage VEE and VEE Exceptions.

3.2 Transition to Complete Status

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: MDM

Description: MDM transitions service task to complete status upon a successful add meter read.

Business Objects

- D1-ServiceTaskTypeBasis
- D2-SSMeterReadTaskType
- D2-SSMeterReadTask

3.3 Send Confirmation ID

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: MDM

Description: MDM sends service task ID confirming the Add Meter Read was accepted by the application.

Business Objects

- D1-ServiceTaskTypeBasis
- D2-SSMeterReadTaskType
- D2-SSMeterReadTask

Entities to Configure

- XAI Service: WX-CreateSelfServiceMeterRead

3.4 Process and Translate Message

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Integration

Description: Integration processes the usage details request and translates it for MDM.

Entities to Configure

- BPEL: OUCSSOUMDM2AddScalarMeterReadEBF

3.5 Receive Confirmation and Generate Message

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: OUCSS

Description: OUCSS generates the confirmation message.

Entities to Configure

- OUCSS Add Meter Read confirmation message

3.6 Receive Confirmation

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Customer

Description: Customer receives the confirmation message and service task ID.

3.7 Create To Do

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: MDM

Description: MDM creates To Do Entry if business requires for auditing or reporting purposes.

Entities to Configure

- To Do Type
- To Do Role
- Service Task Type

3.8 Transition to Error Status

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: MDM

Description: MDM transitions service task to error status upon unsuccessful add meter read.

Business Objects

- D1-ServiceTaskTypeBasis
- D2-SSMeterReadTaskType
- D2-SSMeterReadTask

3.9 Send Error Messages

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: MDM

Description: MDM sends error messages to customer for failed Add Meter Read.

Business Objects

- D1-ServiceTaskTypeBasis
- D2-SSMeterReadTaskType
- D2-SSMeterReadTask

Entities to Configure

- XAI Service: WX-CreateSelfServiceMeterRead

4.0 Process and Translate Message

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: Integration

Description: Integration processes the usage details request and translates it for MDM.

Entities to Configure

- BPEL: OUCSSOUMDM2AddScalarMeterReadEBF

4.1 Receive Error Message

Reference: [OUCSS-CCB-MDM Add and Process Scalar Meter Read Process Model - Page 1 on page 3](#) for the associated business process diagram.

Actor/Role: OUCSS

Description: OUCSS presents the error messages to the end user.

Entities to Configure

- OUCSS Add Meter Read error message