



GRID SOFTWARE UNIVERSITY

# Gridscale X Meter Data Management

## Course Catalog

Document: GSW-U-MDM-EN-TP

**SIEMENS**

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# Introduction

As utilities move toward smarter, more digital operations, skilled people remain at the heart of successful meter data management. Accurate meter data is critical—not just for billing, but also for customer trust, operational efficiency, and regulatory compliance. That’s why having well-trained teams who understand both the system and the business impact of meter data is essential.

Our Gridscale X Meter Data Management (MDM) training programs are designed to build practical, hands-on expertise in managing the complete meter data lifecycle. From data collection and validation to estimation, editing, billing integration, and reporting, these courses focus on real-world scenarios that learners encounter in day-to-day utility operations. Using a role-based, interactive approach, participants gain the confidence and skills needed to effectively operate, troubleshoot, and optimize MDM systems.

# Delivery Methods

Our courses are available via multiple delivery methods:

<b>Instructor Led</b>	Instructor-led training session at a formal classroom setting at Siemens
<b>Virtual Instructor Remote</b>	Live, Instructor-led training session given via online conferencing tools
<b>On-Site</b>	Instructor-led training session provided at the customer facility in a training environment supplied by the customers
<b>eLearning</b>	Pre-recorded training session provided on demand

# Language

All courses are offered in English, with additional language translations available based on customer requirements

# Course registration and contact information

Registration requests should be submitted to the Training Center no later than 8 business days prior to the scheduled begin date of any class. To ensure adequate access to the laboratory equipment, enrollment in many of the classes is limited. Seating for classes is reserved in the order that requests are received.

For registration, or if you want to get more information about our courses or have special training requests, please reach out to your local Siemens sales partner, or contact us directly at [gridsoftware-training@siemens.com](mailto:gridsoftware-training@siemens.com)

# Cancellation Policy

Siemens may cancel classes with less than the minimum five (5) registered students, no less than 8 days prior to the scheduled start of that class. Any enrolled students would be notified of the cancellation and optionally rescheduled for a later offering.

Customer cancellation of student enrollments received less than two weeks prior to the start of the class will be subject to a cancellation fee equal to 50% of the tuition. If a registered participant does not attend a scheduled class, a cancellation fee of up to 100% of the tuition may be charged

# **Gridscale X Meter Data Management Instructor-Led Courses**

This Course Catalogue has everything for your customer to get started using the Gridscale X Meter Data Management platform and applications.

# Gridscale X MDM 9.1 Certification

## Objectives

This comprehensive program provides scenario-based, hands-on experience to guide participants through the major processes they will complete while installing and implementing Meter Data Management.

This course prepares each student to implement Gridscale X MDM and focuses on:

1. Overview and data model
2. Synchronization
3. Data Collection
4. Data Delivery
5. Data Transfer

This certification course runs part-time for one month. It combines live, virtual instructor-led training and technical labs with online learning with 24/7 access to the Learning Management System (LMS) and certification discussion forums.

You can expect to complete 20 hours of self-study each week on the core technologies of Gridscale X MDM and attend the virtual instructor-led labs twice a week for 3 hours each. The last session includes the hands-on certification exam.

## General Information

**Course Code** CertMDM91

**Delivery Method** Blended vILT

**Duration** 24 Hours

**Language** English

**Pricing** 4800 USD

## Target Audience

Roles: MDM Users, MDM Managers, System Administrators, Business Supervisors

## Prerequisites

- Unix/Linux
- SQL/Oracle Skills
- MDM Experience
- Utility industry experience

## Content

The topics included are:

1. Introduction to the Course, Implementation Scenario, and Synchronization
2. Interpreting and applying the Project Functional Specifications (PFS) to configure and validate Meter Reads, Universal AMI Adapter, Device Reads Processor
3. Configuration Management, Using the System Console and Reference Data Utility
4. Using the PFS to configure and validate Validation, Estimation and Editing (VEE), Framing
5. Graphical Editing, Data Delivery, Using the PFS to configure and validate Billing.
6. Using the PFS to configure and validate Billing, continued
7. Troubleshooting, Provisioning, Commissioning, Device Control Transactions
8. Reports, Course Review, Certification Exam

Week	Virtual Class Sessions	Hands-On Labs
1	<p>Synchronization</p> <ul style="list-style-type: none"> <li>• MDM and Sync Concepts</li> <li>• Organizations</li> <li>• Scenario specifications</li> <li>• Data Model</li> <li>• Rule Sheets</li> <li>• FlexSync Rules</li> <li>• XML Files</li> </ul> <p>Meter Reads &amp; Data Collection</p> <ul style="list-style-type: none"> <li>• Device Reads Processor</li> <li>• Measurement Types</li> <li>• Universal AMI Adapter (UAA)</li> <li>• UAA XML Files</li> </ul>	<ul style="list-style-type: none"> <li>• Create an Org</li> <li>• Create new device class</li> <li>• Create FlexSync instance</li> <li>• Build a measurement type</li> <li>• Import RDU</li> <li>• Restart the AMI Adapter</li> <li>• Create and test FlexSync rule</li> <li>• Process a asset and meter data files</li> </ul>
2	<p>Meter Reads &amp; Events</p> <ul style="list-style-type: none"> <li>• Reads &amp; Events</li> <li>• Troubleshooting</li> <li>• Reference Data Utility</li> <li>• Configuration Tools</li> </ul> <p>Event &amp; Data Action Manager (EDAM)</p> <ul style="list-style-type: none"> <li>• Architecture, Data Flow, Hardware Sizing</li> <li>• Create and Test an EDAM Rule</li> <li>• Labs – Batch and Continuous Rules</li> </ul> <p>Validation</p> <ul style="list-style-type: none"> <li>• Introduction &amp; Device Reads Processor</li> <li>• Validation, Estimation, and Framing</li> <li>• Scored post-session lab</li> </ul>	<ul style="list-style-type: none"> <li>• Meter Reads Exception Handling Process</li> <li>• Device Events Processor</li> <li>• Implement VEE in your Org</li> <li>• EDAM, Create Tamper Detection Rule</li> <li>• EDAM, Unexpected Consumption Rule</li> <li>• Validation Rules, Failure Logic</li> <li>• Experiment with Gap Data</li> <li>• Create a TOU Schedule</li> </ul>
3	<p>Data Delivery</p> <ul style="list-style-type: none"> <li>• Graphical Editing and the UI</li> <li>• VEE Service Requests</li> <li>• Virtual Channels</li> <li>• Data Delivery and Billing</li> </ul> <p>Billing</p> <ul style="list-style-type: none"> <li>• Read Times</li> <li>• Exception Handling</li> <li>• Billing Validation</li> <li>• Business Events</li> <li>• Export and System Console</li> <li>• Data Transfer</li> </ul>	<ul style="list-style-type: none"> <li>• Graphical Editor</li> <li>• Virtual Channels Using Service Point Parameters</li> <li>• Billing Processing Parameters</li> <li>• Process a Billing Request</li> <li>• Set up On-Cycle, Off-Cycle Billing</li> <li>• Explicit Processing Window</li> <li>• Export and System Console</li> <li>• Calculative Billing determinants</li> <li>• Billing Data Change</li> <li>• Data Transfer</li> </ul>
4	<p>Business Monitoring</p> <ul style="list-style-type: none"> <li>• Installation/Upgrades/Migration</li> <li>• Branding</li> <li>• Business Monitoring</li> <li>• Provisioning and Commissioning</li> </ul> <p>Reporting, Review, Exam</p> <ul style="list-style-type: none"> <li>• Reporting</li> <li>• Course Review</li> <li>• Exams</li> </ul>	<ul style="list-style-type: none"> <li>• Provisioning, FRV and AMR Cutover</li> <li>• Connect, Disconnect</li> <li>• Custom Types</li> <li>• Reporting</li> <li>• Proctored Knowledge Exam</li> <li>• Distribution of the Hands-On Exam Specifications</li> </ul>

# Gridscale X MDM Essentials

## Objectives

Meter Data Management (MDM) Essentials training is an instructor-led course. MDM Essentials will be a 3-session training program that will cover concepts and the major technical components of MDM. This course is designed to provide lead business and technical operation team members with live system demonstrations and hands-on activities.

## General Information

**Course Code** MDMEssent

**Delivery Method** Blended vILT

**Duration** 9 Hours

**Language** English

**Pricing** 999 USD

## Target Audience

Roles:

- Project Managers
- Account Managers
- MDM Business Users
- Systems and technical (for whom Certification would be too much)
- Anyone who is new to MDM

## Prerequisites

Students do not need to be experts but should have some:

- Utility industry experience
- Familiarity with meter to cash and basics of meter data management

## Content

Session	Topics	Sample Demos and Labs
1	<ul style="list-style-type: none"> <li>• Objective of having MDM</li> <li>• Meter to cash solution</li> <li>• Data Collection process</li> </ul>	<ul style="list-style-type: none"> <li>• New UI Walkthrough</li> <li>• Navigating VEE issues page and exploring VEE issues</li> <li>• Exploring Usage channel, Bin specific data</li> </ul>
2	<ul style="list-style-type: none"> <li>• Data delivery process</li> <li>• Core services of Data delivery in MDM</li> <li>• Billing issues and Troubleshooting</li> </ul>	<ul style="list-style-type: none"> <li>• DDS service walkthrough</li> <li>• Billing Processing Parameters</li> <li>• Creating billing request for SDP with SR</li> </ul>
3	<ul style="list-style-type: none"> <li>• EDAM</li> <li>• Business Monitoring</li> <li>• Billing Readiness</li> <li>• UI Customization</li> <li>• Troubleshooting</li> </ul>	<ul style="list-style-type: none"> <li>• EDAM Configuration</li> <li>• walkthrough of Business Monitoring and Billing Readiness pages</li> <li>• New UI header color change</li> </ul>

# Gridscale X MDM System Administration

## Objectives

The goal of the System Administration course is to provide basic knowledge of MDM Admin functions and ensure smooth operations.

This course is frequently customized to suit Utilities needs for content, duration, and MDM version. Please contact Training to discuss requirements and schedule this class.

## General Information

MDMSysAdmin

### Course Code

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**Delivery Method** Blended vILT

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**Duration** 12 Hours

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**Language** English

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**Pricing** 3000 USD

## Target Audience

Roles: System Administrators, MDM Administrators

## Prerequisites

Students should be accomplished, experiences system administrators or DBAs

## Content

Major topics include:

- Product Overview
- Introduction - System Admin Role
- System Requirements and Security
- Performance Monitoring
- Performance Issues
- Starting and Stopping MDM
- Application Management
- User Management
- Adapters
- Exception Processing
- Timelines and Checklist

# Gridscale X Meter Data Management On Demand Courses

The following index includes the title, name, and description for each course, organized by content area.

# MDM Custom Application Development

## Objectives

Training goals:

- The goal of this training is to make you capable of developing application that can sit beside these applications or replace/ enhance the existing applications.
- This training will tell you the hooks for altering the existing behavior of MDM applications.
- Students are expected to already know the functional capabilities of MDM as well as the needed software languages and tools.

This course is customized to suit Utility or Partner needs for content, duration, and MDM version. Please contact Training to discuss requirements and schedule this class.

The duration and schedule for this course is determined in consultation with the Partner or Customer that requests the training. Application Developer training is typically up to 2 weeks long and conducted virtually using a technology such as Teams.

## General Information

<b>Course Code</b>	MDMAppDev
<b>Delivery Method</b>	Classroom, Remote, On-Site
<b>Duration</b>	80 Hours
<b>Language</b>	English
<b>Pricing</b>	Custom

## Target Audience

This course is designed to help participants learn MDM Custom Application Development

Roles: Managers, Supervisors, System Administrators, Software Engineers, Programmer/Analysts/DBA, Operations

## Prerequisites

All students must meet the pre-requisites listed below prior to attending the course.

1. MDM MDM Certification Course or equivalent job experience
2. Hands on knowledge of Java, SQL, Unix and J2EE Technologies
3. Basic understanding of BIRT reporting (specific to report development)

## Content

- ★ This table serves as the starting point for content discussion. Course content will be finalized in consultation with the Partner / Customer.

Topic	Rationale
Structural Data Synchronization – Custom Flex Sync Rules Action	Database Synchronization is a fundamental and critical module of MDM. Commonly known as FlexSync, this module ensures that asset data in the utility's system of record matches the asset data in MDM's EIP database.

Topic	Rationale
Deliver Billing Determinants – Custom DDS Measurements	Data Delivery is used to export or send meter reads or billing determinants to external systems like utility CIS, Settlements, and so on.
Data Collection Validation, Estimation – VEE	Data Collection is used to process both register and interval raw meter data for registers and events and store it for access by the utility or applications.
Service Remote Device Control Work Orders – Activity Gateway	MDM Activity Gateway interface routes work orders such as Meter Investigation and Pick Up Read requests to external work management systems and co-ordinates their completion.
Provisioning and Commissioning – Workflows	Provisioning is the process that recognizes when an AMI meter has been installed, removed, or has experienced configuration changes. It is used to verify the reliability of meter to consistently provide meter reads.
Data Analysis Monitoring, Reporting – BIRT Reports	MDM supports execution of BIRT Reports to extract reports about metering asset and meter data. Birt is a third-party tool for data visualization.
Database Schema Customization – Database Schema	MDM schema can be customized to work with customer specific data.
Add new application to work with Data	Apart from extending the existing MDM applications some custom applications can also be added to MDM platform to perform a custom functionality that is not possible with the existing out-of-the-box MDM installation.

# Gridscale X Meter Data Management SaaS Foundations Course

## Objectives

This one-day instructor-led course provides end users with a practical explanation of the MDM platform and applications. This course also focuses on how meter data flows from AMI to billing. This is not a self-paced course, advanced registration and enrollment fee is required.

## General Information

<b>Course Code</b>	Gridscale X Meter Data Management SaaS Foundations Course
<b>Delivery Method</b>	ViLT
<b>Duration</b>	1 Day
<b>Language</b>	English
<b>Pricing</b>	1000 USD

## Prerequisites

Familiarity with Meter Data Management

# MDM Foundations for End Users

## Objectives

Foundations for End Users is an instructor-led course intended for Utility administrators and managers participating in the implementation workshop process.

The course is designed with opportunities for demonstrations and may include hands-on labs for students to complete. Access to systems for demos and labs must be provided by the site or host of the training, typically on a DEV or TEST system, though can be provided by Training for an additional cost and with time required for configuration.

This course is customized to suit Utilities needs for content, duration, and MDM version. Please contact Training to discuss requirements and schedule this class.

## General Information

<b>Course Code</b>	MDMFound
<b>Delivery Method</b>	Classroom, Remote, On-Site
<b>Duration</b>	8 Hours
<b>Language</b>	English
<b>Pricing</b>	999 USD

## Target Audience

Utility administrators and business managers participating in the implementation workshop process.

Roles: MDM Administrator, managers, Supervisors, System Administrators

## Prerequisites

- None

## Content

The class provides core MDM concepts, including:

- Smart Grids and Meter Data Management
- The MDM Solution
- High Level Overview of MDM components.
- Data Synchronization
- Data Collection
- Data Delivery and Billing
- Configuration Tools
- Reporting
- High Level Overview - Other Apps

# MDM Foundations for Implementation Teams

## Objectives

Foundations for Implementation Teams is an instructor-led course intended for Utility administrators and managers participating in the implementation workshop process. The course has the same topics as Foundations for End Users but with more detail and customized for each utility.

The course is designed with opportunities for demonstrations and may include hands-on labs for students to complete. Access to systems for demos and labs must be provided by the site or host of the training, typically on a DEV or TEST system, though can be provided by Training for an additional cost and with time required for configuration.

This course is customized to suit Utilities needs for content, duration, and MDM version. Please contact Training to discuss requirements and schedule this class.

## General Information

<b>Course Code</b>	MDMFoundTeam
<b>Delivery Method</b>	Classroom, Remote, on-site
<b>Duration</b>	24 Hours
<b>Language</b>	English
<b>Pricing</b>	4100 USD

## Target Audience

Utility administrators, Implementation engineers, participate in the implementation workshop process.  
Roles: MDM Administrator, managers, Supervisors, System Administrators

## Prerequisites

- None

## Content

The class provides core MDM concepts, including:

- Smart Grids and Meter Data Management
- The MDM Solution
- High Level Overview of MDM components.
- Data Synchronization
- Data Collection
- Data Delivery and Billing
- Configuration Tools
- Reporting
- High Level Overview - Other Apps

# Billing for Customer Service Representatives

## Objectives

This course is designed for Utility Billing customer service representatives who need to use MDM meter data management.

The course provides:

- overview of the billing process and functionality
- Logging in, basic navigation, and search
- Reviewing meter data
- Validation, validation errors and verify/edit service requests
- Editing meter data
- Analyze and resolved billing exceptions
- Cancel single and multiple months
- Device control transaction

This course is **ALWAYS** customized to suit Utilities needs for content, duration, and MDM version. Please contact Training to discuss requirements and schedule this class.

## General Information

<b>Course Code</b>	MDMBilling
<b>Delivery Method</b>	Classroom, Remote, On-Site
<b>Duration</b>	8 Hours
<b>Language</b>	English
<b>Pricing</b>	2000 USD

## Target Audience

Roles: Supervisors, customer service representatives

## Prerequisites

Familiarity with the utility customer information system and billing procedures.

## Content

As mentioned above, the course provides:

- Overview of the billing process and functionality
- Logging in, basic navigation, and search
- Reviewing meter data
- Validation, validation errors and verify/edit service requests
- Editing meter data
- Analyze and resolved billing exceptions
- Cancel single and multiple months
- Device control transaction

# Validation Analyst Training

## Objectives

This course is designed for Utility validation analysts who need to use MDM meter data management.

The course includes:

- Describe how validation workflow works
- Understand the role of Device Reads Processor in the validation process.
- Understand validation
- Understand estimation
- Understand the framing
- Understand and Use MDM Graphical Editing Features
- Use MDM to complete core validation-related tasks

This course is **ALWAYS** customized to suit Utilities needs for content, duration, and MDM version. Please contact Training to discuss requirements and schedule this class.

## General Information

<b>Course Code</b>	MDMVEE
<b>Delivery Method</b>	Classroom, Remote, On-Site
<b>Duration</b>	8 Hours
<b>Language</b>	English
<b>Pricing</b>	2400 USD

## Target Audience

Roles: Supervisors, customer service representatives

## Prerequisites

Familiarity with the utility customer information system and billing procedures.

## Content

As mentioned above, the course provides:

- Describe how validation workflow works
- Understand the role of Device Reads Processor in the validation process.
- Understand validation
- Understand estimation
- Understand the framing
- Understand and Use MDM Graphical Editing Features
- Use MDM to complete core validation-related tasks

# Advanced Device Management (ADM)

## Objectives

Smart Grid devices with communication capabilities are proliferating on the distribution network increasing the number of devices that need to be managed by two or three times the number of meters. The Advanced Device Management (ADM) application automates many of the previously tedious manual tasks required to maintain operational stability. ADM fills gaps in the headend systems by performing automated communications network management, device provisioning, device configuration, and device topology. It is designed as the system of record for all device knowledge available through the communications network.

## General Information

<b>Course Code</b>	MDMADM
<b>Delivery Method</b>	Self paced
<b>Duration</b>	30 Minutes
<b>Language</b>	English
<b>Pricing</b>	50 USD

## Prerequisites

Familiarity with the utility customer information.

# Analytics Foundation and Revenue Protection (AF&RP)

## Objectives

Learn about what's new in Analytics Foundation 5.0 and Revenue Protection 4.0 from Seitaro Nagao, Product Manager.

## General Information

<b>Course Code</b>	MDMAFRP
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<b>Delivery Method</b>	Self paced
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<b>Duration</b>	1.5 Hours
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<b>Language</b>	English
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## Prerequisites

Familiarity with the utility customer information.

# Analytics Foundation 5.0 and Revenue Protection 4.0 Knowledge Transfer

## Objectives

Learn about what's new in Analytics Foundation 5.0 and Revenue Protection 4.0 from Seitaro Nagao, Product Manager.

## General Information

<b>Course Code</b>	MDMAFRPKT
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<b>Delivery Method</b>	Self paced
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<b>Duration</b>	1.5 Hours
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<b>Language</b>	English
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## Prerequisites

Familiarity with the utility customer information.

# Analytics Foundation 3.4 REST API Usage

## Objectives

Demonstration of Analytics Foundation 3.4 REST API usage. Presented by Seitaro Nagao, Product Manager.

Demo of REST API client examples:

- Web browser
- CURL command
- Postman
- Java code
- C# Windows Form application
- Excel VBA Macro.

## General Information

<b>Course Code</b>	MDMAFRPRAU
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<b>Delivery Method</b>	Self paced
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<b>Duration</b>	16 Minutes
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<b>Language</b>	English
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## Prerequisites

Familiarity with the utility customer information.

# Analytics Suite and Analytics Foundation

## Objectives

This product introduction course provides an overview of the Analytics Suite and Foundation (vers. 3-4.0/4.1).

Analytics Suite is a solution that encompasses Analytics Foundation with add-on applications for specific uses cases such as Load Forecasting, Equipment Load Management, Power Quality, and Revenue Protection.

Analytics Foundation enables utilities to gain insight into customers and their usage patterns, and the infrastructure that provides this information. The MDM has collected and processed meter data for many years, but with the addition of the Analytics Foundation, that data can be leveraged to generate insightful charts and graphs, drill into diagnostic reports, and feed Enterprise Business Intelligence applications. The Analytics Foundation uses data extract, transform, and load (ETL) tools to pull data from the MDM and creates a purpose-built analytics database.

## General Information

<b>Course Code</b>	MDMASAF
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<b>Delivery Method</b>	Self paced
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<b>Duration</b>	30 Minutes
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<b>Language</b>	English
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## Prerequisites

Familiarity with the utility customer information.

# Knowledge Transfer - Data Extraction Tool (DET) 2.1, Analytics Foundation 5.1

## Objectives

This KT provides a product update for DET 2.1 and AF 5.1 SP2 and includes demonstrations. Session recorded February 16, 2022. Presenter - Seitaro Nagao, Product Manager

## General Information

**Course Code** MDMDETAFKT

**Delivery Method** Self paced

**Duration** 1 Hour

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# Revenue Protection 2.4 - Installation and Configuration

## Objectives

This video discusses installation and configuration options and considerations for Revenue Protection 2.5.

## General Information

**Course Code** MDMDETAFKT

**Delivery Method** Self paced

**Duration** 1 Hour

**Language** English

**Pricing** 130

## Prerequisites

Familiarity with Meter Data Management

# Revenue Protection 2.4 - Product Overview

## Objectives

This video discusses installation and configuration options and considerations for Revenue Protection 2.5.

## General Information

**Course Code** MDMRPPPOFKT

**Delivery Method** Self paced

**Duration** 30 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# Billing Readiness

## Objectives

This web-based course provides an overview of Billing Readiness, which provides visibility and status information on billing progress and issues and enables users to take corrective actions to ensure successful billing. You will learn how Billing Readiness can be used by billing analyst and system administrator roles. System administrators can also learn how to configure and enable Billing Readiness functionality in both Platform Administration and Mosaic UI

## General Information

**Course Code** MDMBR

**Delivery Method** Self paced

**Duration** 1 Hour

**Language** English

**Pricing** 130

## Prerequisites

Familiarity with Meter Data Management

# Business Monitoring in MDM

## Objectives

This web-based training (WBT) course provides an overview of Business Monitoring functions. Topics include BizMon functions, benefits and typical user roles and responsibilities. Learners will be shown how to use Business Monitoring Dashboard to monitor data quality and usage data, and will learn how to configure and enable Business Monitoring

## General Information

**Course Code** MDMBM

**Delivery Method** Self paced

**Duration** 30 Minutes

**Language** English

**Pricing** 60

## Prerequisites

Familiarity with Meter Data Management

# Billing and VEE Task Tool

## Objectives

The Billing and VEE Task Tool is designed to help customers who work with MDM® as a billing or VEE analyst. The tool is designed to provide just in time information and procedures on common tasks Monitoring

## General Information

**Course Code** MDBU

**Delivery Method** Self paced

**Duration** 30 Minutes

**Language** English

**Pricing** 60

## Prerequisites

Familiarity with Meter Data Management

# Event and Data Action Manager (EDAM)

## Objectives

This introductory course provides a basic overview of EDAM features and Business Monitoring

## General Information

**Course Code** MDEDAM

**Delivery Method** Self paced

**Duration** 45 Minutes

**Language** English

**Pricing** 50

## Prerequisites

Familiarity with Meter Data Management

# EDAM - Using Detection Rules

## Objectives

The Event and Data Action Management (EDAM) functionality analyzes incoming AMI meter events received in near real-time or the events and interval reads stored in MUDR based for configured conditions and performs a preconfigured action automatically when the condition is detected. In this course you will learn how detection rules are used, and you will learn how to create detection rules for two events - voltage sag, and false positive events. Note: you can only access the EDAM functionality from the new Mosaic user interface, available starting with MDM 8.7 SP2 and later.

## General Information

**Course Code** EDAM - Using Detection Rules

**Delivery Method** Self paced

**Duration** 15 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# Introduction to EDAM and Business Monitoring

## Objectives

This introductory course provides a basic overview of EDAM features and Business Monitoring.

## General Information

**Course Code** Introduction to EDAM and Business Monitoring

**Delivery Method** Self paced

**Duration** 30 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM Data Collection

## Objectives

Shelly Antony, Director of Application Development, provides an in-depth discussion of MDM 8 enablement for Meter Reads and Event Processing. The topics included in this video include technical briefings on key differences between MDM 7.x and 8.x. Shelly also discusses the overview and architecture of Meter Reads and Meter Events, including a detailed account of the components and configurations required to make VEE applications work. Various scenarios of Reads and VEE subsystem are also explained towards the end of the video.

## General Information

**Course Code** MDMDC

**Delivery Method** Self paced

**Duration** 1 hour 15 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM Data Delivery

## Objectives

Shelly Antony, Director of Application Development, provides an in-depth discussion of MDM Data Delivery Services, which represents the delivery of metering data to an external system. The topics included in this video include an overview and architecture of DDS, key DDS differences from MDM 7.x and 8.x., and an in-depth discussion of DDS components and configuration.

## General Information

**Course Code** MDM Data Delivery

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**Delivery Method** Self paced

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**Duration** 60 Minutes

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**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM Data Synchronization

## Objectives

Shelly Antony, Director of Application Development, provides an in-depth discussion of MDM Data Delivery Services, which represents the delivery of metering data to an external system. The topics included in this video include an overview and architecture of DDS, key DDS differences from MDM 7.x and 8.x., and an in-depth discussion of DDS components and configuration.

## General Information

**Course Code** MDM Data Synchronization

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**Delivery Method** Self paced

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**Duration** 2 Hours

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**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM 8 In-Memory Data Grid

## Objectives

This introductory web-based training explores MDM 8 In Memory Data Grid (EIDG). The EIDG topics included are:

- Overview of EIDG
- EIDG Functionality
- EIDG Reliability
- EIDG Variations

## General Information

**Course Code** MDM 8 In-Memory Data Grid

**Delivery Method** Self paced

**Duration** 10 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM 8.6 SP4 Knowledge Transfer

## Objectives

Amit Prakaash, Product Manager, provides an update on new features introduced with the SP4 release of MDM 8.6.

## General Information

**Course Code** MDM 8.6 SP4 Knowledge Transfer

**Delivery Method** Self paced

**Duration** 1 Hour

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM 8.6 SP6 Knowledge Transfer

## Objectives

Gautham Jayanna and Amit Prakaash, MDM Product Managers, provides an update on new features introduced with the SP6 release of MDM 8.6. The agenda includes:

- Brief release overview, introduction
- Device Reads Processor now can compute interval reads from register reads. RR to LP conversion
- Implementation of RR2LP/SDP batching during DRP processing

## General Information

**Course Code** MDM 8.6 SP6 Knowledge Transfer

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**Delivery Method** Self paced

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**Duration** 1 Hour

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**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM 8.6 SP7 and 8.7 MDM Release KT

## Objectives

This knowledge transfer session is to cover MDM-related changes and enhancements that were released in MDM 8.6 SP7 and MDM 8.7. Part 1 is on new changes and enhancements in MDM 8.6 SP7 and MDM 8.7, presented by Amit Prakaash, Product Manager. Part 2 is on the new enhancements and updates to MDM 8.7 Platform, presented by Gautham Jayanna, Product Manager.

## General Information

**Course Code** MDM 8.6 SP7 and MDM 8.7 MDM Release KT

**Delivery Method** Self paced

**Duration** 4 Hours

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM 8.7 SP1 Knowledge Transfer Series

## Objectives

This one-day instructor-led course provide end users with a practical explanation of the MDM platform and applications. This course also focuses on how meter data flows from AMI to billing. Contact Training for more information and to purchase this course,

## General Information

**Course Code** MDM 8.7 SP1 Knowledge Transfer Series

**Delivery Method** Self paced

**Duration** 1 Day

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# Introduction to MDM 8.7

## Objectives

This course will provide you with a basic understanding of the core fundamentals and technologies of MDM (course applicable to all versions of MDM 8.x up to 8.7 SP2)

The course is designed for anyone new to the MDM 8.x Platform. There are four parts to this course:

- Introduction and Overview to MDM,
- Synchronization,
- Data Collection,
- Data Delivery.

Also included is a tour of the new Mosaic user interface available with release SP2.

## General Information

**Course Code** Introduction to MDM 8.7

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**Delivery Method** Self paced

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**Duration** 60 minutes

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**Language** English

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**Pricing** 120

## Prerequisites

Familiarity with Meter Data Management

# DEMO: Introduction to MDM 9 (Portuguese)

## Objectives

This course will provide you with a basic understanding of the core fundamentals and technologies of MDM and is designed for anyone new to the MDM 9.x Platform. This customized version of the course features our customized translation service and offers the user a choice to listen to the audio narration in English or Portuguese. The screen text and graphics are in English, but users can select between English and Portuguese for the audio narration before starting the course. The selected language will then be heard throughout the entire course.

## General Information

**Course Code** DEMO: Introduction to MDM 9 (Portuguese)

**Delivery Method** Self paced

**Duration** 30 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM 9.0 Knowledge Transfer Series

## Objectives

Edited recordings from the MDM 9.0 Knowledge Transfer sessions delivered December 2021. Session 1 topics include MDM 9.0 overview, new platform features, EDAM update, and UI changes. Session 2 topics focused on Mosaic UI changes. Sessions have been edited for brevity.

## General Information

**Course Code** MDM 9.0 Knowledge Transfer Series

**Delivery Method** Self paced

**Duration** 175 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM 9.0 SP6 Knowledge Transfer Series

## Objectives

Edited recordings from the MDM 9.0 SP5 Knowledge Transfer sessions.

Session 1:

- Release overview Agenda
- Platform Enhancements
- Billing (DDS) Enhancements
- EDAM Updates (SR Closure, Dynamic Grouping, VEE Status Filtering)
- UI Functional Updates Part 1

Session 2

- MDM Core Enhancements - RR2LP and Multi-org Processing for MRD
- UI Functional Updates Part 2 - Enhancements to Meter Data Editor

## General Information

**Course Code** MDM 9.0 SP6 Knowledge Transfer Series

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**Delivery Method** Self paced

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**Duration** 3.5 Hours

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**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM Data Collection

## Objectives

Shelly Antony, Director of Application Development, provides an in-depth discussion of MDM 8 enablement for Meter Reads and Event Processing. The topics included in this video include technical briefings on key differences between MDM 7.x and 8.x. Shelly also discusses the overview and architecture of Meter Reads and Meter Events, including a detailed account of the components and configurations required to make VEE applications work. Various scenarios of Reads and VEE subsystem are also explained towards the end of the video.

## General Information

**Course Code** MDM Data Collection

**Delivery Method** Self paced

**Duration** 1 Hour 15 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM Data Delivery

## Objectives

Shelly Antony, Director of Application Development, provides an in-depth discussion of MDM Data Delivery Services, which represents the delivery of metering data to an external system. The topics included in this video include an overview and architecture of DDS, key DDS differences from MDM 7.x and 8.x., and an in-depth discussion of DDS components and configuration.

## General Information

**Course Code** MDM Data Delivery

**Delivery Method** Self paced

**Duration** 60 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM Data Synchronization

## Objectives

Chris Dant, Technical Training Manager for Siemens, discusses MDM synchronization and how data flows from customer information systems to MDM. He then reviews the configuration properties and examines FlexSync. Next, he shows how to create rules and use rule sheets for synchronizing your data. Finally, he discusses core derive actions and effective dates and explains the rules processing context and data objects that enable synchronization.

## General Information

**Course Code** MDM Data Synchronization

**Delivery Method** Self paced

**Duration** 2 hours

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM Installation Walk-Through (8.x and 9)

## Objectives

The basics of installing MDM are covered in this series of videos. The process he covers results in a single-server installation which combines MDM and Oracle Enterprise in a convenient system suitable for development, tests, learning / experimentation, and demonstrations. This single-server configuration would not be suitable for use in production, but the design and configuration considerations covered in the walk-through are integral to any MDM installation. Note that steps covered in this video apply to an installation of MDM 8.x and 9.0.

## General Information

**Course Code** MDM Data Installation

**Delivery Method** Self paced

**Duration** 1 hour

**Language** English

**Pricing** 130

## Prerequisites

Familiarity with Meter Data Management

# MDM Platform: Device Control Transactions (DCT), Part 1

## Objectives

In this course you will be introduced to the types of Device Control Transactions and learn to understand the different device control components. You will also learn the different ways in which DCT is executed within MDM. The second part of the course will examine the use cases for DCT.

## General Information

<b>Course Code</b>	MDM Platform: Device Control Transactions (DCT), Part 1
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<b>Delivery Method</b>	Self paced
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<b>Duration</b>	45 Minutes
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<b>Language</b>	English
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## Prerequisites

Familiarity with Meter Data Management

# MDM Platform: Device Control Transactions (DCT), Part 2

## Objectives

This is the second part of the course and will examine the use cases for DCT. In Part 1, you were introduced to the types of Device Control Transactions and the different device control components.

## General Information

<b>Course Code</b>	MDM Platform: Device Control Transactions (DCT), Part 2
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<b>Delivery Method</b>	Self paced
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<b>Duration</b>	6 Minutes
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<b>Language</b>	English
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## Prerequisites

Familiarity with Meter Data Management

# MDM System Administration Task Tool

## Objectives

The System Administration Task Tool is designed to help MDM platform and system administrators as they work with the system. The tool is intended to provide just-in-time information and procedures on common tasks. When launched, a pop-up window will appear and you may move this window to a second monitor if available so that while you work with MDM you can have the tool open in separate browser window.

The Task Tool also includes a comprehensive glossary and a full text searching function

## General Information

**Course Code** MDM System Administration Task Tool

**Delivery Method** Self paced

**Duration** NA

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM System Console

## Objectives

In this session, Saurabh Saxena and Pushpa Penukonda from the Platform Development Team will review new features and changed aspects of the MDM 8.2 System Console. Topics covered and discussed in this video include:

- Dynamic Log Management
- Log Viewer
- System information
- Authorization in SystemConsole
- Enhanced monitoring dashboard

## General Information

**Course Code** MDM System Console

**Delivery Method** Self paced

**Duration** 72 Minutes

**Language** English

# Introduction to MDM System Administration

## Objectives

The MDM System Administration topic includes tasks to administer the MDM solution including information and procedures on how to administer both the MDM User Interface and the MDM Database. This course introduces you to System Administration functions in MDM. Topics include System Console, User Management, Performance Monitoring and Controlling, Configuration and Setup.

## General Information

**Course Code** Introduction to MDM System Administration

**Delivery Method** Self paced

**Duration** 2 hours

**Language** English

**Pricing** 250

## Prerequisites

Familiarity with Meter Data Management

# Introduction to Virtual Channels

## Objectives

In this course you will be introduced to Virtual Channels (VC) which is the aggregation of interval data from different channels into a non-physical asset representation. That asset representation is used to support advanced billing requirements. Virtual Channel functionality supports Net Metering, Subtractive Metering, and Totalized Metering business scenarios.

## General Information

**Course Code** Introduction to Virtual Channels

**Delivery Method** Self paced

**Duration** 30 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# Kafka Considerations for MDM

## Objectives

In this video Andrew Stefanick reviews the purpose of Kafka in MDM, and considerations for managing and monitoring it.

## General Information

**Course Code** Kafka Considerations for MDM

**Delivery Method** Self paced

**Duration** 24 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# Kibana Visualization Tool - Installation and Configuration

## Objectives

Raymund Pimentel provides an overview of the installation and configuration steps, plus a software demonstration of Kibana, a visualization and reporting tool for Elasticsearch used in MDM® Analytics Foundation.

## General Information

**Course Code** Kibana Visualization Tool - Installation and Configuration

**Delivery Method** Self paced

**Duration** 25 Minutes

**Language** English

**Pricing** 50

## Prerequisites

Familiarity with Meter Data Management

# Real Time Framework (RTF) 2.0

## Objectives

Elena Shur provides an overview of RTF, FEP, CDCI, and monitoring as it applies to MDM.

## General Information

**Course Code** Real Time Framework (RTF) 2.0

**Delivery Method** Self paced

**Duration** 45 Minutes

**Language** English

**Pricing** 50

## Prerequisites

Familiarity with Meter Data Management

# Reports Using BIRT

## Objectives

This technical webinar is presented by a custom report expert. He focuses on reporting basics and then demonstrates how to create custom reports using BIRT.

## General Information

**Course Code** Reports Using BIRT

**Delivery Method** Self paced

**Duration** 2 Hours

**Language** English

**Pricing** 250

## Prerequisites

Familiarity with Meter Data Management

# Kafka Overview

## Objectives

Introduction to Using, Configuring, and Troubleshooting Kafka in Gridscale X MDM 9.1 and MDM 9.0.

The topics include:

- Kafka overview
- Kafka deployment configuration and sizing
- Gridscale X MDM Kafka configuration
- Kafka monitoring
- Kafka troubleshooting

## General Information

**Course Code** Kafka Overview

**Delivery Method** Self paced

**Duration** 34 Minutes

**Language** English

**Pricing** 50

## Prerequisites

Familiarity with Meter Data Management

# MDM 9.1 Knowledge Transfer Series

## Objectives

Edited recordings from the MDM 9.1 Knowledge Transfer sessions delivered in August and September 2024. Sessions included MDM Platform updates and User Interface functional updates.

## General Information

**Course Code** MDM 9.1 Knowledge Transfer Series

**Delivery Method** Self paced

**Duration** 4 Hours

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# MDM 9.1 SP2 Demo

## Objectives

This course is a recording of a demonstration of Meter Data Management (MDM) version 9.1 SP2. It is intended for students with experience with previous versions of MDM. Topics:

- New features including
- Cross Meter
- Business Monitoring
- System Console
- Other UI enhancements

## General Information

**Course Code** MDM 9.1 SP2 Demo

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**Delivery Method** Self paced

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**Duration** 1 Hour

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**Language** English

## Prerequisites

Familiarity with Meter Data Management

# Quick Start Guide to the Mosaic New User Interface in MDM 9 (SP6)

## Objectives

These short videos will help you get familiar with using the new UI in MDM 9.0 (optionally available in MDM 8.7). Use the information, videos and job aids in this course to get a feel for the major screens and basic operational tasks. Quick Start video screens based on MDM 9.0 SP6.

## General Information

**Course Code** Quick Start Guide to the Mosaic New User Interface in MDM 9 (SP6)

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**Delivery Method** Self paced

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**Duration** 1 Hour

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**Language** English

## Prerequisites

Familiarity with Meter Data Management

# Gridscale X Meter Data Management SaaS- Introduction and Overview

## Objectives

This course provides an overview of Gridscale X Meter Data Management SaaS and is divided into four modules. The first module provides a general introduction to the system- what it does and how it works, including a tour of the new user interface. The other three modules are optional and provide an in-depth technical presentation on how the system works behind the scenes. Topics include Database Synchronization, Data Collection, and Data Delivery.

## General Information

**Course Code** Gridscale X Meter Data Management SaaS- Introduction and Overview

**Delivery Method** Self paced

**Duration** 1 hour

**Language** English

**Pricing** 130

## Prerequisites

Familiarity with Meter Data Management

# MDM SaaS Quick Start

## Objectives

Use the information, videos and job aids in this title along with your MDM SaaS system to increase your knowledge of the platform as well as increase your skills on billing and VEE tasks.

## General Information

**Course Code** MDM SaaS Quick Start

**Delivery Method** Self paced

**Duration** 120 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# Quick Start Guide to the Mosaic New User Interface in MDM 9 (SP6)

## Objectives

These short videos will help you get familiar with using the new UI in MDM 9.0 (optionally available in MDM 8.7). Use the information, videos and job aids in this course to get a feel for the major screens and basic operational tasks. Quick Start video screens based on MDM 9.0 SP6.

## General Information

**Course Code** Quick Start Guide to the Mosaic New User Interface in MDM 9 (SP6)

**Delivery Method** Self paced

**Duration** 1 Hour

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# Prepay Overview

## Objectives

MDM Prepay is a pre-paid solution utilizing the idea of the central wallet at its core. This pay-as-you-go application is powered by an energy rating engine that interfaces with head-end and meter data management systems. You can add meters and tariff models to individual wallets, integrate other utilities, and accommodate the influx of prosumers. This presentation is an edited recording of a presentation given by Martin Stur, Product Manager.

## General Information

**Course Code** MDM Prepay Overview

**Delivery Method** Self paced

**Duration** 30 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# Introduction to SAP Adapter Implementation

## Objectives

This course is structured to follow the typical stages of an SAP Adapter implementation project. Note: the first two modules are available now, the others are currently in development and will be released individually when complete. All enrolled students will be notified when new modules are posted.

## General Information

**Course Code** Introduction to SAP Adapter Implementation

**Delivery Method** Self paced

**Duration** 3 Hours

**Language** English

**Pricing** 350

## Prerequisites

Familiarity with Meter Data Management

# SAP Adapter 4

## Objectives

This video introduces you to the new features and benefits of the SAP Adapter 4. Listen to YanPei Chao, Senior Product Manager, discuss how the SAP Adapter helps reduce the complex integration of SAP ISU and MDM for businesses.

## General Information

**Course Code** SAP Adapter 4

**Delivery Method** Self paced

**Duration** 6 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# SAP Adapter 4.4 Product Introduction

## Objectives

This product introduction course to SAP Adapter 4.4 provides an overview of the product features and benefits, market overview, use cases and data flow.

SAP adapter is the integration package that implements the standardized interfaces between MDM and SAP ISU. Supported by both Siemens and SAP, the SAP adapter productizes the most commonly used web services and integration interfaces. This adapter reduces complexity and cost of the integration project between the platforms

## General Information

**Course Code** SAP Adapter 4.4 Product Introduction

**Delivery Method** Self paced

**Duration** 30 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# SAP Adapter 4.6 Release Knowledge Transfer

## Objectives

Shishir Singh, Product Manager for the SAP Adapter, introduces the new features and functionality of the and reviews the features and benefits and relationship with SAP. Among the features discussed are compatibility with MDM 8.6 and Data Compliance Protection required for GDPR compliance.

## General Information

**Course Code** SAP Adapter 4.6 Release Knowledge Transfer

**Delivery Method** Self paced

**Duration** 27 Minutes

**Language** English

## Prerequisites

Familiarity with Meter Data Management

# Elastic Slack Installation

## Objectives

Learn about Elastic Stack which a group of open source products from Elastic designed to help users take data from any type of source and in any format and search, analyze, and visualize that data in real time.

## General Information

**Course Code** Elastic Slack Installation

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**Delivery Method** Self paced

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**Duration** 15 Minutes

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**Language** English

## Prerequisites

Familiarity with Meter Data Management

# Meter Data Edit Task Tool

## Objectives

The Meter Data Edit Task Tool is designed to help customers who work with the MDM as a billing or VEE analyst. The tool is designed to provide just-in-time information and procedures for common tasks.

## General Information

**Course Code** MDETool

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**Delivery Method** Self paced

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**Duration**

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**Language** English

## Prerequisites

Familiarity with Meter Data Management

# Energy Overview

## Objectives

This web based training explores some fundamental electrical parameters, their units and inter-relationship with understating the process of electricity generation, transmission and distribution.

## General Information

**Course Code** MDME0

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**Delivery Method** Self paced

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**Duration**

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**Language** English

## Prerequisites

Familiarity with Meter Data Management

# App Installation (8.x & 9)

## Objectives

In this technical walk-through video we install a commonly used application, the ITRON MV-90 MDEF Adapter. Installing this adapter follows the same steps as for installing any OPT application.

## General Information

**Course Code** MDMAPPIInstallations

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**Delivery Method** Self paced

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**Duration**

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**Language** English

## Prerequisites

Familiarity with Meter Data Management

## Course Catalog

Project Name

Customer Tender number

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