



IBM Energy & Utilities

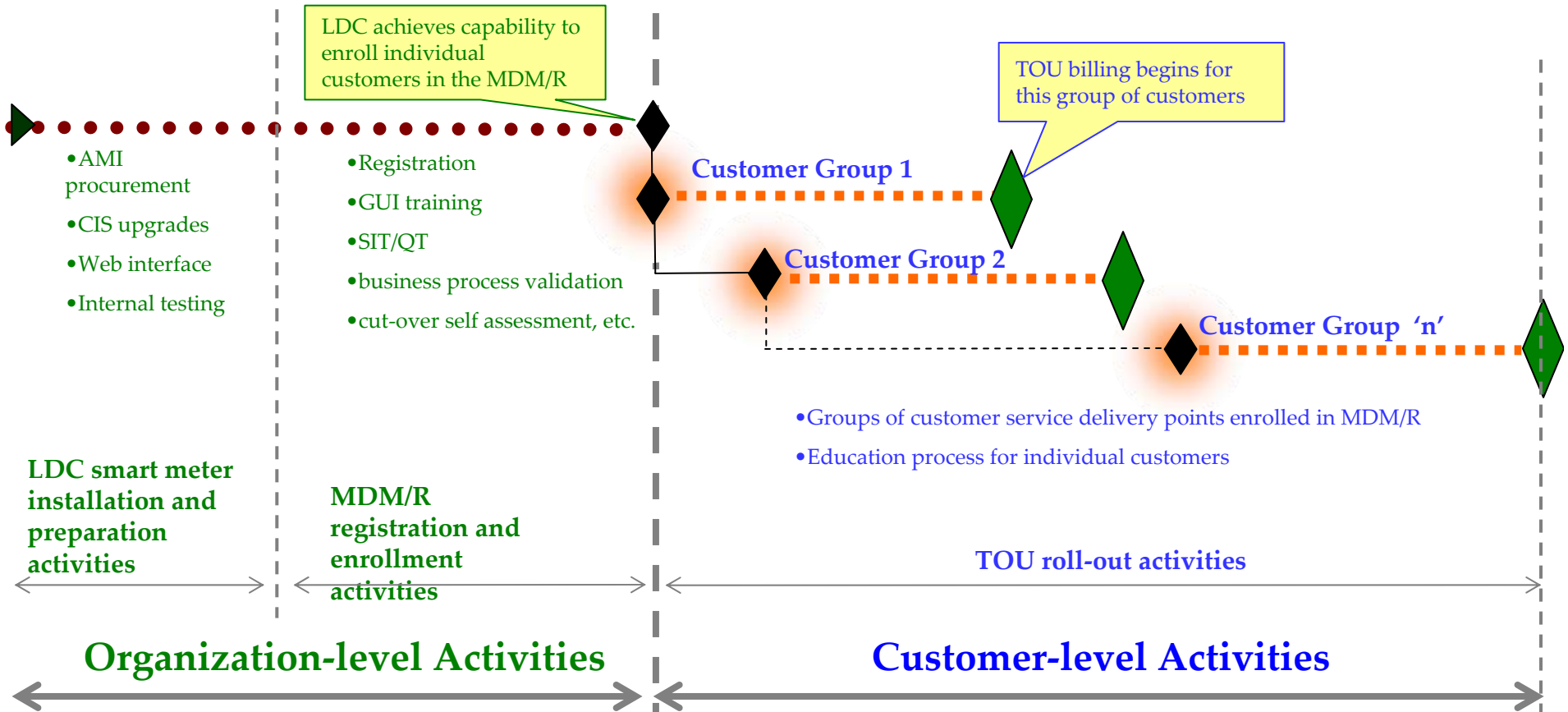
MDM/R Testing and Integration Activities

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IESO – Meter Data Management and Repository



Project Planning Requirements Key Milestones



* Slide courtesy of IESO

Project Planning Requirements Key Milestones

- **There are ten required key milestones:**
 - AMCC Internal Testing
 - CIS Internal Testing
 - Registration Applications Submitted to SME
 - Enrollment Wave Assigned
 - AS2 Connectivity Testing in the Sandbox, QA and Production Environments
 - Self-Certification for Entry into System Integration Testing
 - Satisfactory completion of System Integration Testing
 - Satisfactory completion of Qualification Testing
 - Self-Certification for Cutover
 - Cutover Execution/Commencement of Production Operation

Connectivity Testing

- **Objective is to ensure that the communication channels are established between the LDC and MDM/R environments**
- **Can be performed at any time prior to unit testing, but after AS2 software has been installed by the LDC**
- **Required for all MDM/R environments**
 - Sandbox (Test Environment)
 - QA (Test Environment)
 - Production
- **Duration is typically 1 – 5 days**

Unit Testing

- **Performed in Sandbox, prior to System Integration Testing**
- **LDC must have completed AS2 Connectivity Testing to all 3 environments and use FTS to send and receive files**
- **Purpose is to allow LDCs to test out interfaces and business processes**
- **Work with IBM and IESO closely to ensure that interfaces conform to specification**
- **Completion of Unit Testing is required to enter into System Integration Testing**
- **Duration and timing is variable depending on extent of testing by LDC**

System Integration Testing (SIT)

- **Performed in Sandbox**
- **First step in the cut over process to Production**
- **LDC performs a limited number of tests that are representative of basic LDC business procedures**
- **Successful completion of SIT is required to move to Qualification testing**
- **Duration is typically 2 weeks**

Qualification Testing (QT)

- **Performed in QA**
- **Final testing step of cutover process**
- **LDC performs a set of test cases that is representative of standard LDC business activities**
- **Successful completion of Qualification Testing is required in order to cut over to Production**
- **Duration is typically 2 – 3 weeks**

Cutover

- **Purpose**

- Transition the LDC from the QA Environment to the Production Environment
- Prepare the MDM/R for daily use by the LDC

- **Cutover Preparation includes the following activities**

- Verify the MDM/R Production Environment is configured and operating properly for the new LDC
- Move the LDC-specific configuration from the QA Environment to the Production Environment
- Send interface files to the MDM/R Production Environment to load LDC data
- Duration is typically less than 1 week

Lessons Learned

- **Plan Connectivity Testing carefully**
 - Allow sufficient time to set up and configure your AS2 client prior to Connectivity Testing
 - Connectivity Testing should be conducted using all the final AS2 servers and configurations intended for ongoing operations
- **Work on Business Processes prior to, and during, Unit Testing**
 - SIT and QT should be representative of how your processes work
- **The more thorough your Unit Testing, the more likely SIT and QT will go smoothly**
- **Keep an eye on reports**
 - Will help with troubleshooting during Unit Testing