

Oracle Utilities: CC&B v2.7.0.3 Functionality for Implementers Ed 1 LVC

Oracle Utilities

DURATION

10 Days

MODULES

12 Lectures

COURSE CODE

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Course Overview

This Customer Care and Billing (CCB) Functionality for Implementers training gives you a comprehensive look at the core functionality of the CCB product through examining business object relationships within each subsystem. This course is intended for business architects who are responsible for the Process Analysis portion of a CCB implementation.

What You Will Learn

Oracle Utilities Customer Care and Billing Functionality for Implementers

- Learning Objectives
- Customer Information
- Sales and Marketing
- Device Management
- Field Work
- Meter Reading
- Billing
- Statements
- Rates
- Payments
- Adjustments
- Credit and Collection
- Budgets
- Deposits
- SA Relationships
- Service Credits
- Contract Management
- Loans
- Conservation Programs
- Framework Utilities

- Integration Tools
- Summary
- The Format of This Class
- The Documentation
- Caveat
- Review
- Summary

Oracle Utilities Customer Care and Billing Functionality for Implementers

- Learning Objectives
- Practice 2-1: Log On to Customer Care and Billing
- The Anatomy of All Pages
- Control Central
- Control Central Search Facilities
- Invoking Help
- Help: Finding Information
- Find a Customer/Premises
- The Dashboard
- Dashboard + Account Information = 360-Degree View of the Customer
- Portals Versus Fixed Pages
- Portals Have Zones
- Portal Preferences
- New Zones Appear in Account Information
- Dictating Portal Preferences
- The Dashboard Is a Portal Too
- Zone Patterns
- Explorer Zone Layout
- Broadcasting
- Explorer Zones May Have End-User Filters
- Dragging and Dropping
- Work Lists
- Working the List
- Starting Business Processes
- Practice 2-2: Find a Customer and Portal / Zone Introduction
- Map Zones
- Section and Element Help
- Explorer Zones Are Configured, Not Programmed
- Special-Purpose Zones
- Special Feature – Timeline Zone
- More Special Feature Zones
- You've Seen Several BPA Scripts
- The BPA Menu
- BPA Scripts Are Everywhere
- BPA Scripts Reflect An Organization
- Scripts Are Configured

- Fixed Pages
- Object Maintenance Pages
- Search Pages
- Other Pages
- Some Transactions Use Both Metaphors
- Portal-Based Maintenance Is Becoming More Common
- Why Evolve?
- Menu and Admin
- Context Menus
- Context Menu – Opening a Search Page
- Context Menu – Opening a Portal
- Practice 2-3: Use Page and Portal Maintenance Dialog Boxes
- Grids
- Scrolls
- Search
- Recap of General Layout
- Recap of Dialogs
- Demo Versus Empty Install
- A Configuration Tools Example
- The Configuration Tools Class
- Summary
- Review Questions
- Summary

Oracle Utilities Customer Care and Billing Functionality for Implementers

- Learning Objectives
- Agenda
- Oracle Utilities Application Framework: Overview
- Browser User Interface (UI) Activities
- Web Server Activities
- Web Application Server Breakdown
- Application Server Activities
- Database Server Activities
- Entity Relationship Diagramming (ERD)
- Information Is Stored in Tables, Each Box in an ERD Is a Table
- Color-Coding Highlights the Subsystem Where the Table's Rows Are Typically Maintained
- The PowerPoints Use Color-Coding to Group Tables into Logical Subsystems
- We Use ERDs to Highlight Important Business Relationships
- Relationships Between Entities Are Highlighted with Arrows Between Boxes
- Dashed Lines Represent Columns on Entities with Predefined
- "Lookup" Values
- The Table and Field Metadata
- Application Viewer: Your Primary Documentation for Tables and Fields
- The Application Viewer Is Generated from Metadata

- Practice 3-1: Application Viewer
- No Recurring Groups
- Prime Keys
- Prime and Foreign Keys in the Application Viewer
- Very Little (Almost No) Redundant Data
- Language Tables
- XML Extensions
- Maintenance Object: Definition
- Why Maintenance Objects?
- Maintenance Object, Table, and Field Metadata
- Maintenance Objects Are Also in the App Viewer
- Maintenance Objects Encapsulate Core Business Rules
- Maintenance Objects Versus Business Objects
- Maintenance Object Has Fields, Business Object Has Elements
- Business Object Elements Must Physically Reside Somewhere in its
- Maintenance Object's Tables
- Business Objects Encapsulate Core Business Rules
- Business Objects and Service-Oriented Architecture (SOA)
- Older Maintenance Objects = Object Maintenance Newer Maintenance
- Objects = Portal Maintenance
- Plug-in = Algorithm
- An Algorithm Example
- Use a Base Package Plug-in or Write Your Own
- Creating a New Plug-in
- Some Objects Are Preconfigured
- The Application Viewer Also Contains Algorithms
- Practice 3-2: Examine an Algorithm
- User-Defined Fields Extend...
- Many Maintenance Objects Support Characteristics
- Four Types of Characteristic Types
- Predefined Characteristic Types
- Ad Hoc Characteristic Types
- Foreign Key (FK) Reference Characteristic Types
- File Location Characteristic Types
- Characteristic Values Are Effective-Dated on Some Entities
- A Characteristic Type Can be Used on Multiple Entities
- Practice 3-3: Examine a Char Type
- Owning Metadata
- Owner Flag ERD
- Owner Flag Is Ubiquitous
- The System Stamps Owner Flag on New Metadata Rows
- Don't Even Think About It
- Practice 3-4: Data Ownership
- Web Services Architecture
- Web Services
- More Web Services Information

- Database and Operating System Security
- Application Services Are Secured
- Application Services Have Valid Actions
- Field-Level Security
- Security Rights Are Cached
- Practice 3-5: Application Security
- Plug-in Driven Batch
- Audit Trails
- Localization Support
- Isolating Implementation-Specific Business Rules
- The Conversion Tool
- Review Questions
- Summary

Oracle Utilities Customer Care and Billing Functionality for Implementers

- Learning Objectives
- Batch Processes
- Batch Processes Are Documented in the Application Viewer
- What You Can Count On
- Errors
- Parallel Processing
- Optimal Number of Threads
- Parameters
- Plug-in Driven Batch
- Batch Processing ERD
- Practice 4-1: View Results of a Batch Run
- Executing Batch Jobs
- Separate Application Servers
- Submitting Ad Hoc Requests
- Practice – Instructor-Led
- Dependencies Between Batch Jobs
- Batch Process Dependencies
- Sample and Submit
- Classic Batch Job Versus Sample and Submit
- Step 1: Identify the Batch Job
- Step 2: Enter the Criteria
- Step 3 (optional): See the Sample
- The Request
- How To
- Some Batch Jobs Can Be Thought of as Plug-ins
- Some Processes Can Be Viewed as Plug-ins
- Review Questions
- Summary

- Learning Objectives
- Customer Information
- Customer = Person and Account
- Practice 5-1: Find a Customer on Control Central
- Important Person Concepts
- Person ERD
- Person Contacts
- Practice 5-2: Add a Person and Account from Control Central
- Important Account Concepts
- Account ERD
- Practice 5-3: Add a Person Contact
- Customer Contact: Overview
- Customer Contact ERD
- Practice 5-4: Create a Customer Contact
- Customer Contacts Trigger To-Do Entries
- Customer Contacts Trigger Letters
- Letter Images
- Important premises Concepts
- Premises ERD
- Important Service Point Concepts
- Types of Service Points
- Metered Service Points
- Badged Item-Based Service Points
- Unbadged Item-Based Service Points
- Two Ways to Handle Area Lights: Badged or Unbadged
- Service Point ERD
- Practice 5-5: View and Add Premises
- Review: Bills Are Sent to Customers
- A Bill Contains Charges for Services
- An Account Must Have a Service Agreement for Every Service That Is Billed
- Some SAs Are Linked to Premises via SPs
- Some SAs Are Not Linked to Premises
- Service Agreement ERD
- Account Security: Overview
- Persons Can Also Be Secured
- Premises Can Also Be Secured
- Data Access Groups and Roles
- An Account's Access Group
- More Account Security Information
- The V Diagram
- Two SAs, Each Linked to a Single SP (A Normal, Single-Family Residence Scenario)
- Two SAs Linked to the Same SP
- One SA linked to Two SPs (To Consolidate Consumption Charges)

- Typical Family Moves
- Non-Utility Customer
- Customers Share One Line, Usage Goes Through One Meter on the Way to
- Another Customer
- Corporate Pays for Usage, Operating Units Pay for Transport, and Metering
- SA Type and SP Type Control the Valid Relationships
- Most SAs Are Created Via Start Service
- Start Options Control Default Values
- Practice 5-6: Start Service at Your Premises
- Service Agreement States
- Activating Pending Start SAs
- Important Service-Oriented Concepts: Still to Come
- The Alert Zone
- The Control Central Alert Plugin Spot
- Jurisdictional Rules
- Division = Jurisdiction
- Replicators
- Alternate Names and Addresses
- Address Validation
- Configuring Address Validation
- Address Validation BPA
- Custom Address Validation Logic: Introduction
- Account Management
- Account Management Portal – Account Update
- Supported Account Updates
- Supported Service Agreement Updates
- Notification Preferences
- Notification Preferences: Key Relationships
- Notification Preferences: Management Process Overview – Enabling
- Customer Choice
- Push Versus Subscription Notification Types
- Push-Based Notifications
- Account – Account Portal: Push Communications Preferences Zone
- Subscription-Based Notifications
- Account – Account Portal: Subscription Communication Preferences Zone
- Account – Persons: Notification Preferences
- Account – Account Portal: Maintaining Contact Details
- Master Configuration
- Practice 5-7: Investigate a Notification Preference
- Review Questions
- Summary

Oracle Utilities Customer Care and Billing Functionality for Implementers

- Learning Objectives
- Checkpoint
- Review: Service Points Define Services at a Premises

- Review: There are Three Types of Service Points
- Review: Metered Service Points
- A Meter's Registers Measure How Much Was Used
- Every Register Has Many Attributes
- A Register's Attributes Can Change Over Time
- Meter ERD
- There Are Many Ways to Identify a Meter
- Service Types Must Be in Sync ERD
- Practice 6-1: Add Meters Using the Meter Replicator
- A Configuration's Registers Are Read
- Subtractive Versus Consumptive Registers
- Meter Read ERD
- Important SP/Meter Installation Concepts
- Meter Installation ERD
- Practice 6-2: Install the New Meters at Your Premises
- How to Exchange the Meter at an SP
- Remember That There Are Two Types of Item-Oriented SPs
- This Discussion Concerns Badged Items
- When to Use a Badged Item
- Badged Item ERD
- There Are Two Ways to Identify a Badged Item
- Item Replicator
- Important SP/Item Installation Concepts
- Item Installation ERD
- Important Item Exchange Concepts
- Unbadged Items Are Alternatives
- Meter/Item Search Page
- Practice 6-3: Find Your Meters Using Meter/Item Search
- Review Questions
- Summary
- 7a Oracle Utilities Customer Care and Billing Functionality for Implementers
- Preface 7a-2
- Learning Objectives 7a-3
- Checkpoint 7a-4
- Field Activities 7a-5
- Field Activity ERD 7a-6
- Field Activity State Transition 7a-7
- Practice 7a-1: Examine the Field Activities That Were Created Earlier 7a-8
- Operations Areas 7a-10
- Dispatch Groups and Representatives 7a-11
- Field Service Control Is a Multidimensional Matrix 7a-12
- Dispatch Group Assignment Is in a Plug-in 7a-13
- Practice 7a-2: Confirm the Dispatch Group on the Electric Service Point's
- Field Activities 7a-14
- Field Orders Are Premise-Oriented, Field Activities Are SP-Oriented 7a-16
- Different Dispatch Groups Result in Different Field Orders 7a-17

- Field Orders May Be Assigned a Specific Rep 7a-18
- Field Order and Rep ERD 7a-19
- Field Order State Transition 7a-20
- Capturing Reasons 7a-22
- Enabled with a Feature Configuration 7a-23
- The Pages Change 7a-24
- Reschedule Reason Audits 7a-25
- The Group Premise FAs Alternative 7a-27
- The Group Premise FAs Page 7a-28
- Lowest Common Denominator Dispatch Group 7a-29
- Batch Dispatcher 7a-30
- Practice 7a-3: Use Group Premise FAs to Create a Field Order 7a-31
- Automatic Field Activity Creation 7a-33
- Field Activity Type Profile 7a-35
- Field Activity Type Profile Is a Multidimensional Matrix 7a-36
- FA Type Profile Also Defines Valid FA Types 7a-37
- Service-Oriented Field Activities Are Created by a Plug-in 7a-38
- When Service-Oriented Activities Are Created 7a-39
- You Don't Know About Schedule Read Dates Yet... 7a-40
- Not All Automated FA Creations Use FA Type Profiles 7a-42
- Dispatching Field Orders 7a-44
- Dispatched to Completed 7a-45
- Complete Activities, Then Complete Order 7a-46
- Completion Algorithms 7a-47
- Completion Algorithms ERD 7a-48
- Practice 7a-4: Complete the Activities 7a-49
- Completion Upload 7a-51
- Two Batch Process Are Used to Download Field Orders 7a-53
- Process FDS: Create Download Staging 7a-54
- Each Download Record Gets Marked with a Batch Control and Run 7a-55
- Process FODL: Create Download Flat File 7a-56
- FODL Executes an Algorithm to Format the Flat File Information 7a-57
- An Aside: Ongoing Instructions and Warnings 7a-58
- Metered SAs Need Start Reads to Bill 7a-60
- SA Activation Batch Process 7a-61
- Metered SA's Need Stop Reads to Final Bill 7a-62
- SA Activation Also Handles Pending Stops 7a-63
- SA / FA / MR Flow 7a-64
- Credit & Collection 7a-65
- Practice 7a-5: Activate Your Service Agreements 7a-66
- Field Activities Are for All SP-Related Efforts 7a-68
- Review Questions 7a-69
- Summary 7a-70
- 7b Oracle Utilities Customer Care and Billing Functionality for Implementers
- Learning Objectives 7b-2
- Appointment Scheduling 7b-3

- A Dispatch Group Refresher Before We Start 7b-5
- Dispatch Group Assignment ERD 7b-6
- Appointment Periods and Appointments 7b-8
- Limiting the Number of Appointments 7b-9
- Appointment Period Maintenance 7b-10
- Updating Appointment Periods 7b-11
- Practice 7b-1: Create and Update Appointment Periods 7b-12
- Scheduling an Appointment 7b-14
- Default Dispatch Group and Date 7b-15
- Available Appointments Are Controlled by an Algorithm 7b-16
- The Base-Package Available Appointments Algorithm 7b-17
- Canceling Appointments 7b-18
- Practice 7b-2: Schedule and Cancel Appointments 7b-19
- Penalties 7b-21
- Review Questions 7b-22
- Summary 7b-23
- 8a Oracle Utilities Customer Care and Billing Functionality for Implementers
- Learning Objectives 8a-2

Equipment, Meters, and Items Are Installed at a Premises to Regulate and Measure Service 8a-3

- Items Are of Two (Notional) Types 8a-4
- Equipment May Be Associated with Meters 8a-5
- Equipment May Be Associated with Service Points and Items 8a-6
- Preventing Invalid Equipment Linkages 8a-7
- Foreshadowing: Equipment Is NOT Billed 8a-8
- Generic Equipment 8a-9
- Generic Equipment – How To Do It 8a-10
- An Installation Service Point Holds Multiple Pieces of Equipment 8a-12
- Installation SP ERD 8a-13
- Practice 8a-1: Explore Equipment Linked to a Service Point 8a-14
- Review Questions 8a-15
- Summary 8a-16
- 8b Oracle Utilities Customer Care and Billing Functionality for Implementers
- Learning Objectives 8b-2
- Item and Meter Tests 8b-3
- Device Test Example 8b-4
- Badged Items and Meters Can be Tested 8b-5
- Device Test Type Example 8b-6
- The Control Tables Are Sophisticated 8b-7
- Device Test Lifecycle 8b-8
- Practice 8b-1: Add a Device Test Result for Your Meter 8b-9
- Device Tests Occur Because of Field Activities 8b-11
- How to Create Device Test Field Activities 8b-12
- Test Selection Creates Field Activities Based on an Algorithm 8b-13
- Review Questions 8b-14
- Summary 8b-15
- 8c Oracle Utilities Customer Care and Billing Functionality for Implementers

- Learning Objectives 8c-2
- Stock Location Tracking 8c-3
- Stock Location 8c-4
- Stock Location Characteristics 8c-5
- Asset Stock Location History 8c-6
- Asset Stock Location History ERD 8c-7
- Default Location for SP Removals 8c-8
- Manually Changing an Asset's Stock Location 8c-9
- Practice 8c-1: Review Stock Location and Asset Location History 8c-10
- Review Questions 8c-11
- Summary 8c-12

Oracle Utilities Customer Care and Billing Functionality for Implementers

- Learning Objectives
- There are Many Sources of Meter Reads
- Meter Read ERD
- Meter Read Remarks Can Trigger Other Events
- Consumption Estimation Is in a Plug-in
- Important Estimation Concepts
- How Does MR EST TREND Work?
- An Example: Estimating Consumption for February
- An Example: Estimating Nonpeak Consumption
- An Example: Estimating Peak Consumption
- Trend ERD
- Ensuring a Statistically Significant Sample
- Trend Is Updated in Batch
- High and Low Limits Are Calculated in a Plug-in
- High and Low Check Plug-in
- High and Low Factor ERD
- Failing High and Low, and Use on Bill
- Reviewing Readings That Failed High and Low Checks
- Practice 9-1: Add a Meter Read
- Review Questions
- Summary

Oracle Utilities Customer Care and Billing Functionality for Implementers

- Learning Objectives
- Important Service Cycle Concepts
- SP Type Controls the Number of Cycles on a Service Point
- Single Service Cycle ERD
- SPs Also Need a Route and Sequence
- Renumbering Service Points in a Route
- Transferring a Route
- Practice 10-1: Examine the Service Cycle and Route on Your SPs
- Downloading Meter Read Requests

- When Cycle and Route Frequency Differ
- The Three Download Batch Processes
- Process MSR: Create MR Schedule Routes
- Process MDS: Create Download Staging
- Process MDL: Create Download Flat File
- The Source of the Batch Control
- Summary: Meter Read Download ERD
- The Service Cycle Schedule Is Also Used by Billing
- Practice 10-2: Examine Schedule Read Dates
- The Upload Processes
- Process X: Populate Upload Staging
- Process MUP1: Populate Meter Config
- Process MUP2: Create Meter Reads
- The MR Upload Has Other Uses
- Purging Upload Records
- Practice 10-3: Examine a Meter Read Upload Record
- Demo Database Contains a Sample Transaction
- Find a Scheduled Date for a Route Zone
- See Service Points in a Route for a Scheduled Selection Date Zone
- See Register Reads in a Route for a Scheduled Selection Date Zone
- Multiple Service Cycles
- Waste Collection Background Information
- Multi-Service Cycle ERD
- Waste Collection Scenario 1
- Waste Collection Scenario 2
- The Three Download Batch Processes
- Service Route Download ERD
- Field Order Completion Details Can Be Uploaded
- Step Types Supported by the Batch Completion Process
- The Upload Processes
- Process X: Populate Upload Staging
- Processes MUP1 and MUP2: Create Reads
- Process FACOMPL: Complete Field Activities
- Process FACOMPL: Complete Field Activities - Errors
- Purging Upload Records
- Uploading "Generic" Step Types
- Review Questions
- Summary

Oracle Utilities Customer Care and Billing Functionality for Implementers

- Learning Objectives
- Oracle Utilities Customer Care and Billing
- What Is To Do Processing?
- To Do Summary
- To Do List

- To Do Summary Zone
- Practice 11-1: Look at To Do Lists
- To Do Type
- Message
- To Do Roles
- Special Message Handling
- Role Assignment
- How Entries Are Created
- Batch Process
- The Creator Supplies Other Attributes
- Filling In The Blanks
- To Do Entry Summary ERD
- Practice 11-2: Create a Reminder on Your Customer Contact
- Related To Do
- Related Entries Are Also Shown in the Dashboard
- Related To Do ERD
- Practice 11-3: Related To Dos
- To Do Entry Lifecycle
- Forwarding
- Manual Completion
- Batch Processes Can Complete Entries
- To Do Entries Have Logs
- Log Entries
- To Do Search Is Powerful
- Practice 11-4: Complete Your Entries
- Entry Priority
- Priority Assignment
- Priority Updates: Scenario
- Assigning Entries to Users
- On Demand Assignment
- On Demand – How It Works
- Skill-Based Assignment: Overview
- Skill Level ERD
- Skill Level Override for a Specific Message ERD
- Skill-Based Summary
- The Benefits
- Supervisor Push
- Summary of Entries by User
- Supervisor Assignment
- Pick and Choose
- Multi-Use Pages
- Practice 11-5: Get Your Next Assignment
- To Do Entries May be Routed to an External System
- Configuration to Implement External Routing
- Practice 11-6: Review a To Do Type
- To Do Types Are Documented in the Application Viewer

- What To Do Entries Aren't
- Purging Old Entries
- Review Questions
- Creating New To Do Types
- Introducing a New Type of Entry Involves the Following Steps
- Analysis Example: Account Has Active SAs but Has No Bill Cycle
- Setup Example: Account Has Active SAs but Has No Bill Cycle
- Programming Example: Account Has Active SAs but Has No Bill Cycle
- Review Questions
- Summary

Oracle Utilities Customer Care and Billing Functionality for Implementers

- Learning Objectives
- FTs Determine an Account's Balance
- Source of FTs
- Bill Segments Create FTs
- Payment Segments Create FTs
- Adjustments Create FTs
- Practice 13-1: Explore Mark Brazil's Financial Transactions
- Current Balance Versus Payoff Balance
- Every FT Contains Current Amt and Payoff Amt
- Practice 13-2: Financial Balances
- Examples when Current Balance Does Not Equal Payoff Balance
- GL Details
- Examples of FTs Without GL Details
- How Old is the Debt?
- Specific Days Are Shown on Several Transactions
- Arrears Date
- Arrears Date Is Typically Populated by Billing
- Practice 13-3: Aged Debt
- FT Algorithms Control How FTs Are Created
- FT Status
- FTs Affect More Than Balances
- Updating the General Ledger
- GL Download Processes
- Process GLASSIGN
- Process GLS: Prepare FTs for Download
- Process GLDL: Create Download Flat File
- Practice 13-4: View a Financial Transaction
- Overview of Balance Control
- Balance Control Batch Processes
- Process BCGNEW: Create a New Balance Control Group
- Process BCASSIGN: Assign New FTs a Balance Control Group
- Process BCGSNAP: Insert Balance Control Members and Check
- Financial Integrity

- Review Questions
- Summary
- 14a Oracle Utilities Customer Care and Billing Functionality for Implementers
- Learning Objectives 14a-2
- Checkpoint 14a-3
- A Bill Contains Charges for Services 14a-4
- An Account Must Have a Service Agreement for Every Service That Is Billed 14a-5
- SA Type Controls Everything 14a-6
- Definitions 14a-8
- Bill ERD 14a-10
- Bill Lifecycle 14a-11
- Most Bills Are Produced in Batch 14a-13
- Bill Cycles 14a-14
- Window Billing 14a-15
- Other Bill Cycle Schedule Functions 14a-17
- How an Account Gets Its Bill Cycle 14a-18
- If the SP's Meter-Read Cycle Changes 14a-19
- Practice 14a-1: Examine Your Account's Bill Cycle 14a-20
- Bill Segment Creation Algorithms 14a-22
- Get Consumption Is First 14a-24
- Bill Segment Consumption Snapshot ERD 14a-25
- Creating Estimated Reads 14a-26
- Estimating Earlier Than the Schedule Allows 14a-27
- Creating Bill Segments by Applying a Rate 14a-28
- Rated Bill Segment ERD 14a-29
- An Aside: Bill Segments Are Snapshots 14a-30
- Multiple Bill Segments May Be Created 14a-31
- Control Processing Sequence 14a-33
- Processing Sequence on SA Type 14a-34
- Review: Bill Segments' FTs 14a-36
- Practice 14a-2: Create a Bill for Your Account 14a-37
- Metered SAs Are Special 14a-39
- Time Period Derivation for Non-Metered Service 14a-40
- Use a Bill Period to Derive the End Date 14a-41
- Anniversary Date 14a-42
- The Default - Current Business Date 14a-43
- Preventing Short Bill Segments 14a-44
- More to Come 14a-45
- Bill Segment Lifecycle 14a-47
- Freeze at Bill Completion 14a-48
- Classic Errors 14a-50
- Bill Segment Errors 14a-51
- Bill Segment Remarks 14a-52
- Bill Errors 14a-53
- Errors After The Window Closes 14a-54

- Bill Lifecycle 14a-56
- Bill Completion is Intensive 14a-57
- SA Type Pre-Completion Algorithms 14a-58
- Customer Class Pre-Completion Algorithms 14a-59
- Bill Due-Date Calculation ERD 14a-60
- LPC Computation - Levying Charges 14a-61
- LPC - Manual Intervention 14a-63
- Bill Routings 14a-64
- Bill Routing ERD 14a-65
- Route Method 14a-66
- Four Potential Mailing Addresses ERD 14a-67
- An Aside: Reprints 14a-68
- Customer Class Bill-Completion Algorithms 14a-69
- SA Type Bill-Completion Algorithms 14a-70
- Messages can be Linked to a Bill or Bill Segments 14a-71
- Messages with Variables 14a-74
- A Bill Summarizes Financial Transactions 14a-75
- All New FTs will be Swept onto the Bill 14a-76
- Customer Class Post Completion Algorithms 14a-77
- Practice 14a-3: Freeze the Bill Segments and Complete the Bill 14a-78
- Overriding SQs and Items 14a-80
- Review: Bill Routing ERD 14a-82
- Postal Routing 14a-83
- Marking a Routing Record with a Batch Control and Run 14a-84
- Process POSTROUT: Create Download Flat File for Postal Routing 14a-85
- Configurable Bill Print Extract 14a-86
- Bill Print Extract Record Types 14a-87
- How is the XML Extract Constructed? 14a-88
- Extending the XML Extract 14a-89
- Bill-Print Intercept 14a-90
- UI Interlude 14a-92
- Bill Summary Differs for Open-Item Customers 14a-93
- Bill Segments Differ for Accounts with Many Service Agreements 14a-94
- Bill - Bill Segment for Large Accounts 14a-95
- Other Places Where Bills Are Displayed 14a-96
- Financial Information Dashboard Zone 14a-97
- Online Bill Image 14a-98
- Bill Info Is Constructed by a Plug-in 14a-99
- Warning: Demo Portals and Zones Ahead 14a-100
- Bill History Zone on Control Central 14a-101
- Bill Segment Calc Lines Zone 14a-102
- View Bill Zone 14a-103
- SA Billing History Portal 14a-104
- SP Consumption Summary Portal 14a-106
- Practice 14a-4: Examine a Large Bill 14a-107
- Bill Print Groups 14a-109

- Bill ERD 14a-110
- Bill Segments Produced by Applying a Rate 14a-112
- When the Flat File is Created, the Language Tables Are Accessed to
- Download Language Dependent Values 14a-113
- Reopening a Completed Bill 14a-115
- Mass Reopen 14a-117
- How to Avoid Reopening 14a-118
- Freezing and Completing 14a-119
- Closing Bills (... Bill Segments, really) 14a-121
- Sequential Bill Numbers 14a-123
- When Sequential Bill Numbers are Assigned 14a-124
- Correction via Cancellation 14a-126
- Different Correction Methods 14a-128
- The Cancel/Rebill Method 14a-130
- Cancel Only 14a-131
- Online Cancel/Rebill 14a-132
- Mass-Cancel an Entire Batch 14a-133
- Automatic Cancel Rebill 14a-134
- Automatic Cancel Rebill: An Example 14a-136
- Credit Notes 14a-137
- Online Credit Note Creation 14a-138
- Correction Notes 14a-139
- Online Correction Note Creation 14a-140
- Bill Segment Remarks 14a-141
- Cancellations Prior to Completion 14a-142
- Practice 14a-5: Cancel/Rebill the Electric Bill Segment 14a-144
- Checkpoint 14a-146
- Billable Charges 14a-148
- Billable Charges may have Bill Lines 14a-149
- A Different Bill Segment Creation Algorithm 14a-150
- Billable Charge ERD 14a-151
- Billable Charges with Service Quantities 14a-153
- Billable Consumption ERD 14a-154
- Billable Charge Bill Segment ERD 14a-155
- Billable Charge Read Details 14a-157
- Billable Charge Read Details ERD 14a-158
- Billable-Charge Line Characteristics ERD 14a-160
- Billable Charge Templates Save Typing 14a-162
- How are Billable Charge Templates Used? 14a-163
- Practice 14a-6: Add a Billable Charge for Yourself 14a-164
- Billable Charge Upload Overview 14a-166
- The Upload Processes 14a-167
- Process X: Populate Upload Staging 14a-168
- Process BCU1: Populate and Validate SA ID and Line Details 14a-170
- Process BCU2: Create Billable Charge 14a-171
- Purging Upload Records 14a-173

- Strict and Wait Options 14a-174
- Recurring Charge SAs 14a-176
- Recurring Charge Bill Segment ERD 14a-178
- More to Come 14a-179
- Review Questions 14a-180
- Summary 14a-181
- 14b Oracle Utilities Customer Care and Billing Functionality for Implementers
- Learning Objectives 14b-2
- Financial Transactions on Bills 14b-3
- Off Cycle Bill Generator: Overview 14b-4
- Off Cycle Bill Generator ERD 14b-5
- Off Cycle Bill Generator Life Cycle 14b-6
- Creating the Bill 14b-7
- Practice 14b-1: Examine the Off Cycle Bill Generator Business Object 14b-8
- Off Cycle Bill Generator Portal 14b-9
- Standard Bill Page 14b-11
- Off Cycle Bill Generator Query Portal 14b-12
- How to Access the Off Cycle Bill Generator Portal 14b-13
- How to Create an Off-Cycle Bill Generator 14b-14
- Realigned Standard Bill Page Functions 14b-16
- Practice 14b-2: Create an Off-Cycle Bill 14b-17
- Review Questions 14b-18
- Summary 14b-19
- 14c Oracle Utilities Customer Care and Billing Functionality for Implementers
- Learning Objectives 14c-2
- Not Applicable to All Implementations 14c-3
- Integration Overview 14c-4
- BPEL Orchestrates the Transformation and Load of Payloads Between CCB and MDM 14c-5
- Billing Creates Usage Requests 14c-6
- MDM Responds with Bill Determinants (or Errors) 14c-7
- The Usage Object Generates a Bill Segment 14c-8
- Usage Requests Are Not for Meters Only 14c-10
- SA Type Controls Everything 14c-11
- Get Consumption 14c-12
- Scalar Processing Details 14c-15
- Interval Processing Details 14c-16
- Usage Request Example 14c-17
- Bill Segment Creation 14c-18
- Practice 14c-1: Examine the SA Type Configuration for BD-Oriented SAs 14c-21
- Usage Business Objects 14c-23
- Usage ERD 14c-24
- Usage Request Business Object Lifecycle 14c-25
- Usage Request Business Object Life Cycle 14c-26
- Usage Request Business Object Lifecycle 14c-28
- Creating the Outbound Message 14c-30

- External Message Configuration 14c-31
- Practice 14c-2: Review the Usage Business Objects 14c-32
- Usage Request Portal (Request) 14c-34
- Usage Request Portal (Response) 14c-35
- Usage Interval Data Overlay 14c-36
- Usage Request Portal (Exceptions) 14c-37
- Usage Request Log 14c-38
- Standard Bill Segment Page 14c-39
- Usage Request Query Portal 14c-41
- Practice 14c-3: View a Usage Request 14c-42
- Corrected Reads 14c-44
- Corrected Reads Business Object 14c-45
- Corrected Read Business Object Lifecycle 14c-46
- Corrected Read Portal 14c-47
- Cancel/Rebill 14c-49
- Navigating to MDM 14c-51
- Review Questions 14c-53
- Summary 14c-54

Oracle Utilities Customer Care and Billing Functionality for Implementers

- Learning Objectives
- Checkpoint
- A Statement Consolidates SA FTs
- Statements Can Also Be Used to Route Different Portions of a Bill to
- Different Parties
- An SA or Account Can Appear on Many Statements
- A Statement Can be Constructed of FTs from SAs and Accounts
- A Statement Is Constructed from SA Snapshots
- Practice 15-1: Michelin Inc's Statement Construct
- Statement Cycle
- Statement Creation Time Line
- The Statement Creation Process
- Statement Production - Interesting Facts
- Statement Routing
- Online Statement Production
- The Statement Download Process
- Statement Printing - Interesting Facts
- Statement Images
- Practice 15-2: Michelin Inc's Statements
- Review Questions
- Summary

Oracle Utilities Customer Care and Billing Functionali