

Contents

Introduction	9
What is CNC?	11
Overview	11
Class Overview	11
Support and Documentation	11
Basic Architecture	12
Required Server Components	12
Database Server	13
Deployment Server	13
Enterprise Server (Application Server)	13
Java Application Server (JAS/HTML)	14
Application Integration Server (AIS)	14
Server Manager	14
Fat Client	15
Optional Server Components	15
Solution Explorer	17
Overview	17
Installing Solution Explorer	17
Prerequisites	17
Installing	18
Oracle Local Database Install	19
Running Solution Explorer	26
Launch Mode	27
Fast Path	27
Design Mode	28
Filter Mode	35
Promotion of Solution Explorer Items (Tasks / Menus)	39
Path Codes, Environments, and Database Schemas	45
Path Codes	45
Exercise 3.1 – Path Codes	45
Objects	47
Example	47
Environments	48
Exercise 3.2 - Environments	49
Custom Environments	51
Data Schemas	52
Data Sources	54
Exercise 3.3 – Database Data Sources	56
Object Configuration Manager (OCM)	60
Exercise 3.4 – Review OCM Configuration	61
Exercise 3.5 – Case Scenario 1	65

Summary of Steps Required	65
Step 1 (Create a Data Source)	65
Step 2 (Create an OCM Record)	66
Step 3: Test the OCM Configuration	68
Server Manager	71
Overview	71
Install	73
Management Agents	73
Management Agent Port Assignments	74
Management Agent Installer	74
Manage Software	75
Upload Software Components	75
Managed EnterpriseOne Software Components	76
Database Drivers	77
TLS Configuration Settings	78
Offline Orchestration	78
Configure	78
Server Manager Users	78
Server Manager User Authentication	79
Management Console Users	79
Server Groups	80
Centralized Configuration	80
Track	80
User Activity	80
Server Activity	82
Create a Monitor	83
General Properties	84
Managed Instances	84
Monitored Events	85
Notification Hours	87
E-Mail Subscriptions	87
E-Mail Configuration	87
Table Cache	89
Health Check	90
Diagnostics	91
Collect and Generate Diagnostics	91
User Logging	92
Managed Home Location and Managed Instances	93
EnterpriseOne Enterprise Server	95
EnterpriseOne Enterprise Server Summary	96
Resource Charts	97
Available Log Files	97
Runtime Metrics	99
Process Detail	100
General Information	102
Resource Charts	103
Connected Users	103
Diagnostics	104

Memory Diagnostics _____	104
CPU Diagnostics _____	104
All Diagnostics _____	104
Start JADE _____	104
Pause JADE _____	105
Corrective Actions _____	105
Clear Cache _____	105
Recycle Kernel _____	106
Log File Configuration _____	106
Available Log Files _____	107
Thread Detail _____	107
Environment Variables _____	107
Disk Space Usage _____	108
Kernel Ranges _____	109
Package Build Files _____	109
Audit History _____	109
Change Metrics _____	110
Configuration _____	111
Batch Processing _____	112
Batch Processing _____	112
Configuration Updates _____	112
Database _____	113
Installation _____	113
Installation Paths _____	113
Kernel Definitions _____	114
EnterpriseOne HTML Server _____	121
EnterpriseOne HTML Server Summary _____	123
Instance Access Configuration _____	123
Available Log Files _____	123
Instance Information _____	124
Runtime Metrics _____	124
Case Scenario & Monitoring Tips _____	128
Configuration _____	130
Logging _____	139
Summary of the Configuration Summary Screen _____	142
How to Use This Screen Efficiently _____	142
Security _____	145
Overview _____	145
Open vs Closed Security Model _____	145
Exercise 5.1 – Open vs Closed Security _____	146
Users _____	147
Address Book _____	147
Exercise 5.2 – Address Book Entry _____	147
User Profiles _____	148
Exercise 5.3 – User Profile Entry _____	148
User Security _____	150
Exercise 5.4 – User Security Record Creation _____	151
Work with User Security _____	152
Exercise 5.5 – Revise Security _____	152

Exercise 5.6 – Setting User’s Passwords _____	154
Role Relationships _____	158
Exercise 5.7 – Assigning Role Relationships _____	158
Security Sequence _____	160
Security Workbench _____	161
Exercise 5.8 – Security Workbench _____	161
Creating a Security Record for Application Security _____	163
Creating a Security Record for Action Security _____	168
Creating a Security Record for Row Security _____	170
Report Management _____	173
Overview _____	173
Batch Versions _____	173
Work with Submitted Jobs (WSJ) _____	179
Printers _____	180
Adding a Printer _____	180
Define Default Printer _____	185
Adding a Default Printer Mapping _____	186
Queues _____	187
Single-Threaded Queues _____	187
Multi-Threaded Queues _____	187
Adding a Batch Queue _____	189
Job Scheduler _____	190
Job Schedule _____	196
Adding a Scheduled Job _____	198
Scheduler Server _____	201
Object Management _____	203
Overview _____	203
Object Management Workbench _____	203
Explanation of Project Statuses _____	205
Explanation of Project Roles _____	206
Promoting a Project _____	206
A Brief Overview of Row/Form Exits in OMW _____	207
Row Exits _____	207
Form Exits _____	208
Adding a Project in OMW _____	209
Object Management Configuration _____	211
Constants _____	212
SAR System Integration _____	213
Logging System _____	214
Object Action Notification _____	214
Notification Setup _____	215
Notification Recipients: _____	217
Activity Rules _____	218
User Roles _____	221
Allowed Actions _____	222

Save Locations	223
Package Build and Deployment	223
Package Assembly	224
Package Build	232
Tools Release - Enhancements to Package Build & Deployment	242
1. NET Changed Objects	242
2. Parallel Execution of Server and Client Package Builds	242
3. Web-Based Package Assembly, Build, and Deployment	242
4. Zero Downtime Package Deployment	243
Package Assembly (Web Version)	243
Software Updates and Tools Releases	247
Software Updates	247
WHAT - is an ESU?	247
1. Baseline ESU	247
2. Regular ESU	247
3. Planner ESU	248
ESU Summary Comparison	248
WHEN - do you install ESUs?	248
WHERE - do you find ESUs?	249
Case Scenario	249
Exercise 8.1 – Finding ESUs	250
Section 1	252
Summary Page	254
Bug Details Page	254
Section 2	255
Download Basket	255
Section 3	256
News and Links	256
HOW - do you install ESUs?	256
Available Row Exits in Work with Software Updates	258
Install ESU to a path code	262
Tools Releases	263
Planning & Preparation	264
Execution & Deployment	264
Post-Upgrade & Troubleshooting	264
Long-Term Best Practices	264
How to check your Tools Release	265
Managing Changes and Updates in JDE: A Manager's Perspective	266
Establish a Change Management Process	266
Categorize JDE Updates and Changes	266
Best Practices for Managing JDE Updates	266
Leveraging Automation and Tools	267
Managing Risks and Common Challenges	267
User Defined Objects (UDOs)	269
Overview	269
UDO Types	269

Why Use UDOs?	270
1. Minimize Custom Development	270
2. Improve User Experience	270
3. Enhance Decision-Making with Real-Time Data	270
4. Automate and Streamline Processes	270
5. Easier Upgrades & Future-Proofing	270
6. Strong Security & Governance	270
User Defined Object Administration	271
Feature Security	272
Row Menu	273
Advanced Features	274
User Defined Object – Life Cycle Management	275
OMW User (Section 1)	275
OMW Projects (Section 2)	276
Project Objects (Section 3)	276
Object Buttons	277
Object - More Row Actions	277
Object Functions	278
Object Actions / Token Action	279
Advance Project	279
Token Information	280
Project Members	280
JDE Troubleshooting Guide	283
Understanding the JD Edwards Architecture	283
Log File Locations for Troubleshooting	283
Enterprise Server Logs	283
HTML Server Logs	285
AIS Server Logs	285
UBE (Batch Jobs) Logs	285
Start UBE Logging	286
JDE User Logs	288
How to Use User Logging in JD Edwards Server Manager	289
Steps to Enable and Use User Logging	289
Package Builds	289
Client Packages	289
Client Package Logs Overview	289
Server Packages	290
Server-Side Package Build Logs Overview	290
General Troubleshooting Approach	291
Understanding the Issue	292
Checking Logs and Error Messages	293
Using Server Manager for Diagnostics	293
Resource Monitoring	293
Common Server Manager Features for Troubleshooting	293
Common Issues and Fixes	293
UBE and Report Processing Issues	293
Package Build Failures	293
Performance Issues	294

Login and Security Issues	294
Zombie Processes and Kernel Lockups	294
JAS and Web Server Errors	294
Proactive Monitoring and Best Practices	294
Using Health Check for Preventative Maintenance	294
Diagnostic Logging Best Practices	294
Database Query Optimization	294
Case Scenarios	295
Case Scenario 1: Server Manager – Instance Down Mystery	295
Case Scenario 2: OMW – Object Migration Gone Wrong	295
Case Scenario 3: Package Build – Build Error Chaos	296
Case Scenario 4: Troubleshooting – UBE Crash Report	296
Case Scenario 5: User Creation & Security – New Hire Setup	296
Case Scenario 6: Debugging a User's Performance Issue	297
Tips for Effective Use	297