

# CNC 9.2 – Release 25 (Tools 9.2.9)

## CONTENTS

<b>Introduction</b>	<b>9</b>
<b>What is CNC?</b>	<b>11</b>
<b>Overview</b>	<b>11</b>
<b>Class Overview</b>	<b>11</b>
<b>Support and Documentation</b>	<b>11</b>
<b>Basic Architecture</b>	<b>12</b>
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
<b>Solution Explorer</b>	<b>17</b>
<b>Overview</b>	<b>17</b>
<b>Installing Solution Explorer</b>	<b>17</b>
Prerequisites	17
Installing	18
Oracle Local Database Install	19
<b>Running Solution Explorer</b>	<b>26</b>
Launch Mode	27
Fast Path	27
Design Mode	28
Filter Mode	35
<b>Promotion of Solution Explorer Items (Tasks / Menus)</b>	<b>39</b>
<b>Path Codes, Environments, and Database Schemas</b>	<b>45</b>
<b>Path Codes</b>	<b>45</b>
Exercise 3.1 – Path Codes	45
Objects	47
Example	47
<b>Environments</b>	<b>48</b>
Exercise 3.2 - Environments	49
Custom Environments	51
<b>Data Schemas</b>	<b>52</b>
Data Sources	54
Exercise 3.3 – Database Data Sources	56

<b>Object Configuration Manager (OCM)</b> _____	<b>60</b>
Exercise 3.4 – Review OCM Configuration _____	61
Exercise 3.5 – Case Scenario 1 _____	65
<b>Summary of Steps Required</b> _____	<b>65</b>
Step 1 (Create a Data Source) _____	65
Step 2 (Create an OCM Record) _____	66
Step 3: Test the OCM Configuration _____	68
<b>Server Manager</b> _____	<b>71</b>
<b>Overview</b> _____	<b>71</b>
<b>Install</b> _____	<b>73</b>
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
<b>Configure</b> _____	<b>78</b>
Server Manager Users _____	78
Server Manager User Authentication _____	79
Management Console Users _____	79
Server Groups _____	80
Centralized Configuration _____	80
<b>Track</b> _____	<b>80</b>
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
<b>Diagnostics</b> _____	<b>91</b>
Collect and Generate Diagnostics _____	91
User Logging _____	92
<b>Managed Home Location and Managed Instances</b> _____	<b>93</b>
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
<b>Change Metrics _____</b>	<b>110</b>
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
<b>Security _____</b>	<b>145</b>
<b>Overview _____</b>	<b>145</b>
<b>Open vs Closed Security Model _____</b>	<b>145</b>
Exercise 5.1 – Open vs Closed Security _____	146
<b>Users _____</b>	<b>147</b>
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
<b>Security Sequence _____</b>	<b>160</b>
<b>Security Workbench _____</b>	<b>161</b>
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
<b>Report Management _____</b>	<b>173</b>
<b>Overview _____</b>	<b>173</b>
<b>Batch Versions _____</b>	<b>173</b>
<b>Work with Submitted Jobs (WSJ) _____</b>	<b>179</b>
<b>Printers _____</b>	<b>180</b>
Adding a Printer _____	180
Define Default Printer _____	185
Adding a Default Printer Mapping _____	186
<b>Queues _____</b>	<b>187</b>
Single-Threaded Queues _____	187
Multi-Threaded Queues _____	187
Adding a Batch Queue _____	189
<b>Job Scheduler _____</b>	<b>190</b>
Job Schedule _____	196
Adding a Scheduled Job _____	198
Scheduler Server _____	201
<b>Object Management _____</b>	<b>203</b>
<b>Overview _____</b>	<b>203</b>
<b>Object Management Workbench _____</b>	<b>203</b>
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
<b>Object Management Configuration _____</b>	<b>211</b>
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
<b>Package Build and Deployment _____</b>	<b>223</b>
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
<b>Software Updates and Tools Releases _____</b>	<b>247</b>
<b>Software Updates _____</b>	<b>247</b>
<b>WHAT - is an ESU? _____</b>	<b>247</b>
1. Baseline ESU _____	247
2. Regular ESU _____	247
3. Planner ESU _____	248
ESU Summary Comparison _____	248
<b>WHEN - do you install ESUs? _____</b>	<b>248</b>
<b>WHERE - do you find ESUs? _____</b>	<b>249</b>
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
<b>HOW - do you install ESUs? _____</b>	<b>256</b>
Available Row Exits in Work with Software Updates _____	258
Install ESU to a path code _____	262
<b>Tools Releases _____</b>	<b>263</b>
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 _____	267
Establish a Change Management Process _____	267
Categorize JDE Updates and Changes _____	267
Best Practices for Managing JDE Updates _____	267
Leveraging Automation and Tools _____	268
Managing Risks and Common Challenges _____	268
<b>User Defined Objects (UDOs) _____</b>	<b>269</b>

<b>Overview</b>	<b>269</b>
UDO Types	269
<b>Why Use UDOs?</b>	<b>270</b>
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
<b>User Defined Object Administration</b>	<b>271</b>
Feature Security	272
Row Menu	273
Advanced Features	274
<b>User Defined Object – Life Cycle Management</b>	<b>275</b>
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
<b>JDE Troubleshooting Guide</b>	<b>283</b>
<b>Understanding the JD Edwards Architecture</b>	<b>283</b>
<b>Log File Locations for Troubleshooting</b>	<b>283</b>
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
<b>How to Use User Logging in JD Edwards Server Manager</b>	<b>289</b>
Steps to Enable and Use User Logging	289
<b>Package Builds</b>	<b>289</b>
Client Packages	289
Client Package Logs Overview	289
Server Packages	290
Server-Side Package Build Logs Overview	290
<b>General Troubleshooting Approach</b>	<b>291</b>
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
<b>Case Scenarios</b>	<b>295</b>
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
<b>Tips for Effective Use</b>	<b>297</b>