CDMS/CDA version 1.51 Deployment Instructions

Client: Northern Powergrid

Project: CDMS v1.51

Module: CDMS system

Date: 16/11/2011

Short Description

This document will detail the deployment instructions for CDMS/CDA version 1.51.

Version Control

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Owner / Issuing Authority	Approved by	Date
C&C Group	Stuart Jackson	16/11/2011

Change history

Version	Date	Author	Reason for new version	Sections Affected
0.1	15/11/11	Greg McGill		
0.2	16/11/11	Greg McGill	Add QueryTimeout 0 configuration	Recreate Replication
1.0	16/11/11	Greg McGill	Final	

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Pre Deployment Tasks

Num	Description	Who	Server	Done
1.	Disable User access to CDMS. Stop IIS Service on Web Server	Logica Wintel	S300005	
2.	Disable User access to CDA. Stop IIS Service on Web Server	Logica Wintel	CEMID12	
3.	Disable User access to PLA. Stop IIS Service on Web Server	Logica Wintel	CEMID71	
4.	Backup **CDMS Web Site**. Copy the existing CDMS Production Web Site and paste it into the directory on the web server where previous versions are stored, and rename the folder to the last CDMS version.	Logica Wintel	S300005	
5.	Backup **CDMS** database. Save the backup file as: CDMS_preDeployment_*DDMMYYYY*.bak	Logica DBA	S300006	
6.	Backup **CDMSRPT** database. Save the backup file as: CDMSRPT_preDeployment_*DDMMYYYY*.bak	Logica DBA	S300006	
7.	Backup **GATEWAY** database. Save the backup file as: GATEWAY_preDeployment_*DDMMYYYY*.bak	Logica DBA	S300006	
8.	Backup **CDA** database. Save the backup file as: CDA_preDeployment_*DDMMYYYY*.bak	Logica DBA	IUSDS4	

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Disable Scheduled Jobs

9.	Using SQL Server Enterprise Manager connect to the CDA Live Database server (IUSDS4) then navigate to the following: IUSDS4 >> Management >> SQL Server Agent >> Jobs Note down (or screenshot) all Enabled jobs **Disable** all Enabled jobs, so that they don't run during the deployment	Logica DBA	IUSDS4	
10.	Using SQL Server Enterprise Manager connect to the CDMS Live Database server (S300006) then navigate to the following: S300006 >> Management >> SQL Server Agent >> Jobs Note down (or screenshot) all Enabled jobs **Disable** all Enabled jobs, so that they don't run during the deployment	Logica DBA	S300006	

DROP REPLICATION SUBSCRIPTIONS

Drop CDA Replication

CDALIVE To GATEWAY Merge replication CDALIVE_TO_GATEWAY_MERGE:CDALIVE

11.	Using SQL Server Enterprise Manager connect to the CDA Database server then navigate to the following: IUSDS4 >> Replication Monitor >> Publishers >> IUSDS4 >> **CDALIVE_TO_GATEWAY_MERGE:CDALIVE** Note down the Merge Agent's (S300006:GATEWAY) current schedule. Right-mouse click and select the properties to open the replication configuration	Logica DBA	IUSDS4	
12.	Go to the Subscriber tab and **delete the subscriber**	Logica DBA	IUSDS4	

CDALIVE AUX Transactional replication CDALIVE_AUX:CDALIVE

13.	Using SQL Server Enterprise Manager connect to the CDA Database server then navigate to the following: IUSDS4 >> Replication Monitor >> Publishers >> IUSDS4 >> **CDALIVE_AUX:CDALIVE** Note down the Distribution Agent's (S300006:GATEWAY) current schedule. Right-mouse click and select the properties to open the replication configuration	Logica DBA	IUSDS4	

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| 14. | Go to the Subscriber tab and **delete the subscriber** | Logica DBA | IUSDS4 | |

CDALIVE to GATEWAY Snapshot replication ◈ CDALIVE to GATEWAY SNAPSHOT:CDALIVE

| 15. | Using SQL Server Enterprise Manager connect to the CDA Database server then navigate to the following:

IUSDS4 >> Replication Monitor >> Publishers >> IUSDS4 >> **CDALIVE to GATEWAY SNAPSHOT:CDALIVE**

Note down the Distribution Agent's (S300006:GATEWAY) current schedule.

Right-mouse click and select the properties to open the replication configuration | Logica DBA | IUSDS4 | |
| 16. | Go to the Subscriber tab and **delete the subscriber** | Logica DBA | IUSDS4 | |

Drop CDMS Replication

GATEWAY to CDA Snapshot replication ◈ GATEWAY to CDA snapshot:GATEWAY

| 17. | Using SQL Server Enterprise Manager connect to the CDMS Database server then navigate to the following:

S300006 >> Replication Monitor >> Publishers >> S300006 >> **GATEWAY to CDA Snapshot:GATEWAY** | Logica DBA | S300006 | |

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	Note down the Distribution Agent's (IUSDS4:CDALIVE) current schedule. Right-mouse click and select the properties to open the replication configuration			
18.	Go to the Subscriber tab and **delete the subscriber**	Logica DBA	S300006	

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BACKUP AND RESTORE DATABASES

Backup and Transfer Databases

Backup S300006 Databases and Transfer to S300025

19.	Backup **CDMS** database. Save the backup file as: CDMS_GOLIVE_*DDMMYYYY*.bak	Logica DBA	S300006	
20.	Backup **CDMSRPT** database. Save the backup file as: CDMSRPT_GOLIVE_*DDMMYYYY*.bak	Logica DBA	S300006	
21.	Backup **GATEWAY** database. Save the backup file as: GATEWAY_GOLIVE _*DDMMYYYY*.bak	Logica DBA	S300006	
22.	Transfer these three backup files to S300025	Logica DBA	S300006	

S300006 Decommission

23.	Using SQL Server Enterprise Manager connect to the CDMS Live Database server (S300006). Stop the S300006 SQL Server Agent Stop the S300006 SQL Server Instance	Logica DBA	S300006	
24.	Remote Desktop onto S300006. Navigate to Start Menu >> Administrative Tools >> Services	Logica DBA	S300006	

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	Set both the **SQL Server** Service and **SQL Server Agent** Service to a Startup Type of '**Disabled**'. *This step is to ensure that not only is the SQL Server service stopped but it will not automatically start, when the server is rebooted.*			

Restore Databases

Restore Databases on S300025

25.	Restore the **CDMS** database using the backup file: CDMS_GOLIVE_*DDMMYYYY*.bak	Logica DBA	S300025	
26.	Restore the **CDMSRPT** database using the backup file: CDMSRPT_GOLIVE_*DDMMYYYY*.bak	Logica DBA	S300025	
27.	Restore the **GATEWAY** database using the backup file: GATEWAY_GOLIVE _*DDMMYYYY*.bak	Logica DBA	S300025	

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RECREATE REPLICATION

Recreate Replication

Remove DB Replication

| 28. | Using Query Analyzer connect to the Master database on S300025 and execute the following SQL:

USE MASTER
GO
exec sp_removeDBReplication 'CDMS'
GO
exec sp_removeDBReplication 'CDMSRPT'
GO
exec sp_removeDBReplication 'GATEWAY'
GO | Logica DBA | S300025 | |

Create CDMS REPLICATION

CREATE – CDMS_TO_GATEWAY_MERGE replication CDMS_TO_GATEWAY_MERGE:CDMS

| 29. | Using SQL Query Analyser connect to the **CDMS** database on the CDMS Database server.

Execute the following file:

…\Replication\CDMS**CDMS_TO_GATEWAY_MERGE.sql** | Logica DBA | S300025 | |
| 30. | Using SQL Server Enterprise Manager connect to the CDMS Database server then navigate to the following:

S300025>>   Replication   Monitor   >>   Publishers   >>   S300025>> | Logica DBA | S300025 | |

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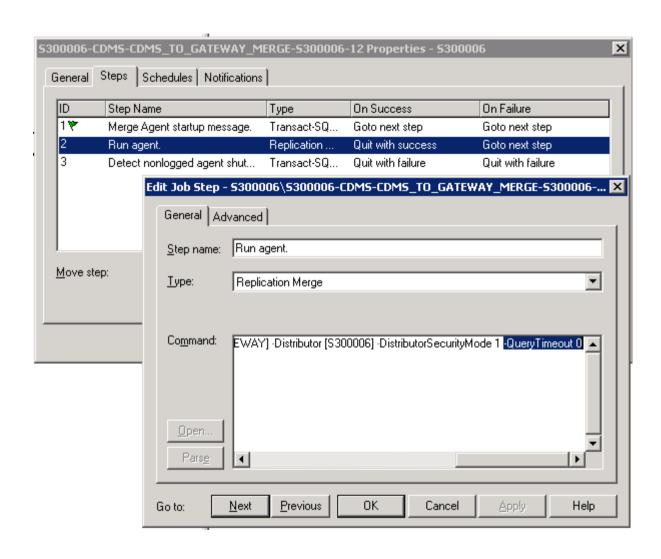
	CDMS_TO_GATEWAY_MERGE:CDMS Right-mouse click and select the properties to open the replication configuration		
31.	Go to the 'Subscriptions' Tab Click 'Push New…' Select **S300025** as a Subscriber Set the subscriber database to: **GATEWAY** Configure the Merge Agent's schedule as previously noted down. Select 'Yes, initialize the schema and data' Tick 'Start the Snapshot Agent to begin the initialization process immediately' Click through the rest of the wizard and close down the properties window	Logica DBA	S300025
32.	Open the Agent properties for both Agents and change the **owner** to '**sa**'	Logica DBA	S300025
33.	Open the Merge Agent properties Select the 'Steps' tab Double-click the 'Run Agent' step (to edit it) In the <u>C</u>ommand text box, add the following text and save changes: **-QueryTimeout 0**	Logica DBA	S300025

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C & C
GROUP

S300006-CDMS-CDMS_TO_GATEWAY_MERGE-S300006-12 Properties - S300006 ☒

| General | Steps | Schedules | Notifications |

ID	Step Name	Type	On Success	On Failure
1 ▼	Merge Agent startup message.	Transact-SQ...	Goto next step	Goto next step
2	Run agent.	Replication ...	Quit with success	Goto next step
3	Detect nonlogged agent shut...	Transact-SQ...	Quit with failure	Quit with failure

Move step:

Edit Job Step - S300006\S300006-CDMS-CDMS_TO_GATEWAY_MERGE-S300006-... ☒

| General | Advanced |

Step name: Run agent.

Type: Replication Merge ▾

Command: EWAY] -Distributor [S300006] -DistributorSecurityMode 1 -QueryTimeout 0

Open...

Parse

Go to: [Next] [Previous] [OK] [Cancel] [Apply] [Help]

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| 34. | Manually run the snapshot agent, once this has completed run the agents to send the snapshot to the subscriber.

Wait until the snapshot has been delivered before continuing. | Logica DBA | S300025 | |

CREATE – CDMSRPT replication CDMSRPT:CDMS

35.	Using SQL Query Analyser connect to the **CDMS** database on the CDMS Database server. Execute the following file: …\Replication\CDMS**CDMSRPT.sql**	Logica DBA	S300025	
36.	Using SQL Server Enterprise Manager connect to the CDMS Database server then navigate to the following: S300025>> Replication Monitor >> Publishers >> S300025>> **CDMSRPT:CDMS** Right-mouse click and select the properties to open the replication configuration	Logica DBA	S300025	
37.	Go to the 'Subscriptions' Tab Click 'Push New…' Select **S300025** as a Subscriber Set the subscriber database to: **CDMSRPT** Configure the Distribution Agent's schedule as previously noted down. Select 'Yes, initialize the schema and data' Tick 'Start the Snapshot Agent to begin the initialization process immediately'	Logica DBA	S300025	

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	Click through the rest of the wizard and close down the properties window			
38.	Open the Agent properties for both Agents and change the **owner** to '**sa**'	Logica DBA	S300025	
39.	Manually run the snapshot agent, once this has completed run the agents to send the snapshot to the subscriber. Wait until the snapshot has been delivered before continuing.	Logica DBA	S300025	

CREATE – CDMS_TO_GATEWAY Snapshot replication   CDMS to Gateway snapshot:CDMS

40.	Using SQL Query Analyser connect to the **CDMS** database on the CDMS Database server. Execute the following file: …\Replication\CDMS**CDMS_TO_GATEWAY_Snapshot.sql**	Logica DBA	S300025	
41.	Using SQL Server Enterprise Manager connect to the CDMS Database server then navigate to the following: S300025>> Replication Monitor >> Publishers >> S300025>> **CDMS_TO_GATEWAY_Snapshot:CDMS** Right-mouse click and select the properties to open the replication configuration	Logica DBA	S300025	
42.	Go to the 'Subscriptions' Tab Click 'Push New…' Select **S300025** as a Subscriber Set the subscriber database to: **GATEWAY**	Logica DBA	S300025	

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	Configure the Distribution Agent's schedule as previously noted down. Select 'Yes, initialize the schema and data' Tick 'Start the Snapshot Agent to begin the initialization process immediately' Click through the rest of the wizard and close down the properties window			
43.	Open the Agent properties for both Agents and change the **owner** to '**sa**'	Logica DBA	S300025	
44.	Manually run the snapshot agent, once this has completed run the agents to send the snapshot to the subscriber. Wait until the snapshot has been delivered before continuing.	Logica DBA	S300025	

CREATE –GATEWAY_TO_CDA Snapshot replication GATEWAY to CDA snapshot:GATEWAY

45.	Using SQL Query Analyser connect to the **CDMS** database on the CDMS Database server. Execute the following file: …\Replication\CDMS**GATEWAY_TO_CDA_Snapshot.sql**	Logica DBA	S300025	
46.	Using SQL Server Enterprise Manager connect to the CDMS Database server then navigate to the following: S300025>> Replication Monitor >> Publishers >> S300025>> **GATEWAY_TO_CDA_Snapshot:GATEWAY** Right-mouse click and select the properties to open the replication configuration	Logica DBA	S300025	
47.	Go to the 'Subscriptions' Tab	Logica	S300025	

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	Click 'Push New…'	DBA		
	Select **IUSDS4** as a Subscriber			
	Set the subscriber database to: **CDALIVE**			
	Configure the Distribution Agent's schedule as previously noted down.			
	Select 'Yes, initialize the schema and data'			
	Tick 'Start the Snapshot Agent to begin the initialization process immediately'			
	Click through the rest of the wizard and close down the properties window			
48.	Open the Agent properties for both Agents and change the **owner** to '**sa**'	Logica DBA	S300025	
49.	Manually run the snapshot agent, once this has completed run the agents to send the snapshot to the subscriber. Wait until the snapshot has been delivered before continuing.	Logica DBA	S300025	

CREATE –GATEWAY_TO_CDMS Snapshot replication GATEWAY to CDMS snapshot:GATEWAY

50.	Using SQL Query Analyser connect to the **CDMS** database on the CDMS Database server. Execute the following file: …\Replication\CDMS**GATEWAY_TO_CDMS_Snapshot.sql**	Logica DBA	S300025	
51.	Using SQL Server Enterprise Manager connect to the CDMS Database server then navigate to the following: S300025>> Replication Monitor >> Publishers >> S300025>>	Logica DBA	S300025	

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	GATEWAY_TO_CDMS_Snapshot:GATEWAY Right-mouse click and select the properties to open the replication configuration			
52.	Go to the 'Subscriptions' Tab Click 'Push New…' Select **S300025** as a Subscriber Set the subscriber database to: **CDMS** Configure the Distribution Agent's schedule as previously noted down. Select 'Yes, initialize the schema and data' Tick 'Start the Snapshot Agent to begin the initialization process immediately' Click through the rest of the wizard and close down the properties window	Logica DBA	S300025	
53.	Open the Agent properties for both Agents and change the **owner** to '**sa**'	Logica DBA	S300025	
54.	Manually run the snapshot agent, once this has completed run the agents to send the snapshot to the subscriber. Wait until the snapshot has been delivered before continuing.	Logica DBA	S300025	

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CDA REPLICATION

CDALIVE To GATEWAY Merge replication CDALIVE_TO_GATEWAY_MERGE:CDALIVE

55.	Using SQL Server Enterprise Manager connect to the CDA Database server then navigate to the following: IUSDS4 >> Replication Monitor >> Publishers >> IUSDS4 >> **CDALIVE_TO_GATEWAY_MERGE:CDALIVE** Right-mouse click and select the properties to open the replication configuration	Logica DBA	IUSDS4
56.	Go to the 'Subscriptions' Tab Click 'Push New…' Select **S300025** as a Subscriber Set the subscriber database to: **GATEWAY** Configure the Merge Agent's schedule as previously noted down. Select 'Yes, initialize the schema and data' Tick 'Start the Snapshot Agent to begin the initialization process immediately' Click through the rest of the wizard and close down the properties window	Logica DBA	IUSDS4
57.	Open the Agent properties for both Agents and change the **owner** to '**sa**'	Logica DBA	IUSDS4
58.	Open the Merge Agent properties Select the 'Steps' tab	Logica DBA	IUSDS4
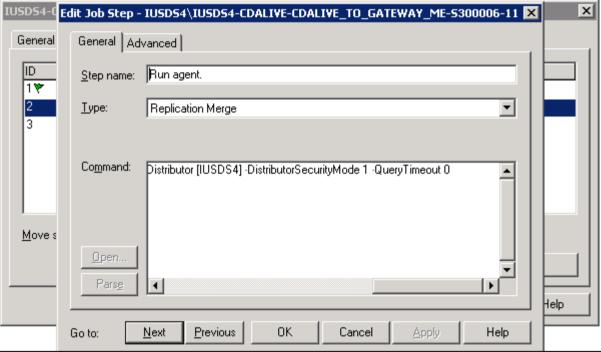
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	Double-click the 'Run Agent' step (to edit it)			
	In the Command text box, add the following text and save changes:			
	-QueryTimeout 0			

| 59. | Manually run the snapshot agent, once this has completed run the agents to send the snapshot to the subscriber.

Wait until the snapshot has been delivered before continuing. | Logica DBA | IUSDS4 | |

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CDALIVE AUX Transactional replication — CDALIVE_AUX:CDALIVE

60.	Using SQL Server Enterprise Manager connect to the CDA Database server then navigate to the following: IUSDS4 >> Replication Monitor >> Publishers >> IUSDS4 >> **CDALIVE_AUX:CDALIVE** Right-mouse click and select the properties to open the replication configuration	Logica DBA	IUSDS4
61.	Go to the 'Subscriptions' Tab Click 'Push New…' Select **S300025** as a Subscriber Set the subscriber database to: **GATEWAY** Configure the Distribution Agent's schedule as previously noted down. Select 'Yes, initialize the schema and data' Tick 'Start the Snapshot Agent to begin the initialization process immediately' Click through the rest of the wizard and close down the properties window	Logica DBA	IUSDS4
62.	Open the Agent properties for both Agents and change the **owner** to '**sa**'	Logica DBA	IUSDS4
63.	Manually run the snapshot agent, once this has completed run the agents to send the snapshot to the subscriber. Wait until the snapshot has been delivered before continuing.	Logica DBA	IUSDS4

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CDALIVE to GATEWAY Snapshot replication CDALIVE to GATEWAY SNAPSHOT:CDALIVE

64.	Using SQL Server Enterprise Manager connect to the CDA Database server then navigate to the following: IUSDS4 >> Replication Monitor >> Publishers >> IUSDS4 >> **CDALIVE to GATEWAY SNAPSHOT:CDALIVE** Right-mouse click and select the properties to open the replication configuration	Logica DBA	IUSDS4	
65.	Go to the 'Subscriptions' Tab Click 'Push New…' Select **S300025** as a Subscriber Set the subscriber database to: **GATEWAY** Configure the Distribution Agent's schedule as previously noted down. Select 'Yes, initialize the schema and data' Tick 'Start the Snapshot Agent to begin the initialization process immediately' Click through the rest of the wizard and close down the properties window	Logica DBA	IUSDS4	
66.	Open the Agent properties for both Agents and change the **owner** to '**sa**'	Logica DBA	IUSDS4	
67.	Manually run the snapshot agent, once this has completed run the agents to send the snapshot to the subscriber. Wait until the snapshot has been delivered before continuing.	Logica DBA	IUSDS4	

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ADD GATEWAY TRIGGERS

Add GATEWAY Triggers

68.	Using SQL Query Analyser connect to the **GATEWAY** database on the CDMS Database server. Execute the following file: …\Replication\GATEWAY**CDMS_triggers.sql**	Logica DBA	S300025	
69.	Using SQL Query Analyser connect to the **GATEWAY** database on the CDMS Database server. Execute the following file: …\Replication\GATEWAY**CDA_triggers.sql**	Logica DBA	S300025	

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WEB v1.51

Production Deployment ASP

CDMS ASP Release v1.51

70.	Unzip the deployment file, from this copy the files from the following folder: …\CDMS\ASP\ Paste these files into the CDMS web site folder replacing the existing files.	Logica Wintel	S300005	

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Post Deployment Tasks

Enable Scheduled Jobs

71.	Using SQL Server Enterprise Manager connect to the CDA Live Database server (IUSDS4) then navigate to the following: IUSDS4 >> Management >> SQL Server Agent >> Jobs **Enable** the scheduled jobs that were previously disabled	Logica DBA	IUSDS4	
72.	Using SQL Server Enterprise Manager connect to the CDMS Live Database server (S300025) then navigate to the following: S300025>> Management >> SQL Server Agent >> Jobs **Enable** the scheduled jobs that were previously disabled	Logica DBA	S300025	

Validate Release

73.	Enable User access to CDMS. Start IIS Service on Web Server	Logica Wintel	S300005	
74.	Enable User access to CDA. Start IIS Service on Web Server	Logica Wintel	CEMID12	
75.	Enable User access to PLA. Start IIS Service on Web Server	Logica Wintel	CEMID71	
76.	Designated CDMS User to perform post-release testing to validate release.		http://s300005/cdms	

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| 77. | Designated CDA User to perform post-release testing to validate release. | | http://cdaint | |

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CDMS Release 1.51 Executed By

ASP Release Deployed by:

Name	
Date	
Signed	

Database Release Deployed by:

Name	
Date	
Signed	

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CDMS Release 1.51 Sign-off

Northern Powergrid Representative

Name	
Date	
Signed	

Logica Representative

Name	
Date	
Signed	

After sign-off, please email or fax a copy of this document to: stuart.jackson@candc-uk.com or +44 (0) 1983 621 007

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