

Gemini Update

Richard Griffiths – 31st January
2007

Agenda

- Recent Outages & Incidents
- Gemini Release 4 – Overview
- Gemini Oracle Software Upgrade Project
- XP1 Token Replacement

Recent Outages / Incidents

Recent Outages / Incidents

<p>14th December</p>	<p>API data not being updated with latest information</p> <p>A Web Cache recycle was carried out to restore normal service (repeat problem of 26th October). System logs were taken prior to recycle and have been analysed (no system errors recorded). Further analysis is underway.</p>
<p>12th January</p>	<p>Shippers unable to connect to Citrix service</p> <p>One Citrix server was unable to process connection attempts. Citrix connections are load balanced so this meant that all NEW connection attempts during the incident were unsuccessful. Existing users and API services were unaffected by this issue.</p> <p>Citrix user profiles are stored locally and these had filled the available space on the server. Profiles were removed and the Citrix server restarted.</p>

Recent Outages / Incidents

<p>28th January</p>	<p>Gemini service not returning following maintenance period</p> <p>Initial analysis shows that an adhoc scheduled housekeeping job failed to run. Attempts to run the job manually were also unsuccessful.</p> <p>A full system restart was required, with full service restored at around 11:30am.</p>
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Gemini Release 4 - Overview

Gemini Release 4 - Scope

- The following modifications are included in the scope
 - Mod 0120 SO Commodity on Storage Sites
 - Mod 0097 Publish Interconnector Offtake
 - Mod 0119 NTS Entry Capacity Overrun Price Calculation
 - Proposed NTS Entry Capacity Transfers Modification
- The expected UNC Modification implementation dates require a Gemini implementation in March/April 2007; current planned date 29th April 2007

Gemini Release 4 - User Impacts

- A Release design principle is to minimise the level of changes to the structure of files.
- Analysis to date shows, following approval of the UNC Modifications, minor changes to Gemini formats will be required.
- Changes will only take effect if the relevant modification is approved.
- **Providing an overview today, and will continue to provide appropriate updates.**

Gemini Release 4 - SO Commodity Charge for NTS Storage Modification 0120

- Consultation Document raised to discuss introduction of new charging methodology for Storage facilities with effect from 1st April 2007.
- SO Entry Commodity Charge for Storage facilities to be included on ECO (Entry Commodity) Invoice.
- Existing NCE Charge type to be utilised.
- The existing file format includes a Terminal ID and Terminal Name Description. In the case of a Storage facility, it is proposed that these fields will be populated with the relevant Storage Meter ID and Meter Name.
- **Proposed change to description of fields in file format for Invoices produced on and after 25th May 2007.**

Gemini Release 4 - Publish Interconnector Offtake Modification 0097

- Consultation Document raised to discuss a change to the Meter Energy List screen within the Gemini application with effect from late April 2007.
- Additional column added to Meter Energy List screen to show the aggregate daily offtake quantity for Interconnector Sites (Bacton and Moffat).
- Additional search criteria for Site ID to allow non-Interconnector Shippers to view aggregate data.
- **Change to MEI interface file to include Site ID.**
- **Change to MEO interface file to include the aggregate daily offtake quantity.**

Gemini Release 4 - NTS Entry Capacity Overrun Price Calculation

Modification 0119

- Introduction of 1 new price type
 - ECRP (Entry Capacity Reserve Price) = A multiplier * Highest Reserve Price of any firm Method of Sale
- Modification to the existing price types to change from top 25% Weighted Average Price to Highest acceptable price
 - EBBH = A multiplier * Highest Accepted Entry Capacity Buy Back Price
 - EBFH = A multiplier * Highest Accepted Entry Capacity Forwards Price
 - EBOH = A multiplier * Highest Accepted Entry Capacity Options Price
- This will result in three new Price Type codes for the above.
- HFCP (Highest Firm Capacity Price) remains the same.
- Overrun Quantity will be multiplied by the highest price of HFCP, ECRP, EBBH, EBFH or EBOH.
- **The new Price Types will be included on the Invoice file format in Overrun charge records.**

Gemini Release 4 - NTS Entry Capacity Transfers

- New Method of Sale will be created to identify the Transfer Auction
- Publish of Invitation to Bid for Capacity will utilise the same functionality
- Bid Capture will utilise the same functionality. **New rejection message introduced when capacity is not available for a sub-transaction period at an Entry Point.**
- Publish Results will be done using the existing functionality.

Gemini Release 4 - User Change Impacts in Summary

- SO Commodity
 - New NCE charge rows on Entry Commodity Invoice
- Publish Interconnector Offtake
 - Amendment to MEI (Meter Energy Input) interface file
 - Amendment to MEO (Meter Energy Output) interface file
- NTS Entry Capacity Overrun Price Calculation
 - Price Methodology will be populated with new four digit code
- NTS Entry Capacity Transfers
 - No User amendments required

Gemini Release 4 – UK Link Approval

- File format changes were presented at the UK Link Committee on 11th January
- Representation period ended on 26th January
- Approval as part of UK Link Committee on 8th February
- A Shipper Confidence Trial has been offered from 26th March for 2 weeks
 - Feedback required to UK Link Committee in February

Gemini Release 4 – Key Contacts

- Key Contacts:
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Gemini Oracle Software Upgrade

Gemini Oracle Software Upgrade – Background

- **Why Gemini Oracle Software Upgrade ?**
 - The current versions of the database and primary application software are on the verge of vendor de-support (April 2007).
 - To minimise/mitigate the risk to business operations, there is a requirement to upgrade the existing Oracle 9i stack to Oracle 10g.
 - Part of the existing framework (Cleveland) is not supported within Oracle10g, a Proof Of Concept was commissioned to select a suitable 10g supported framework for the Gemini application.

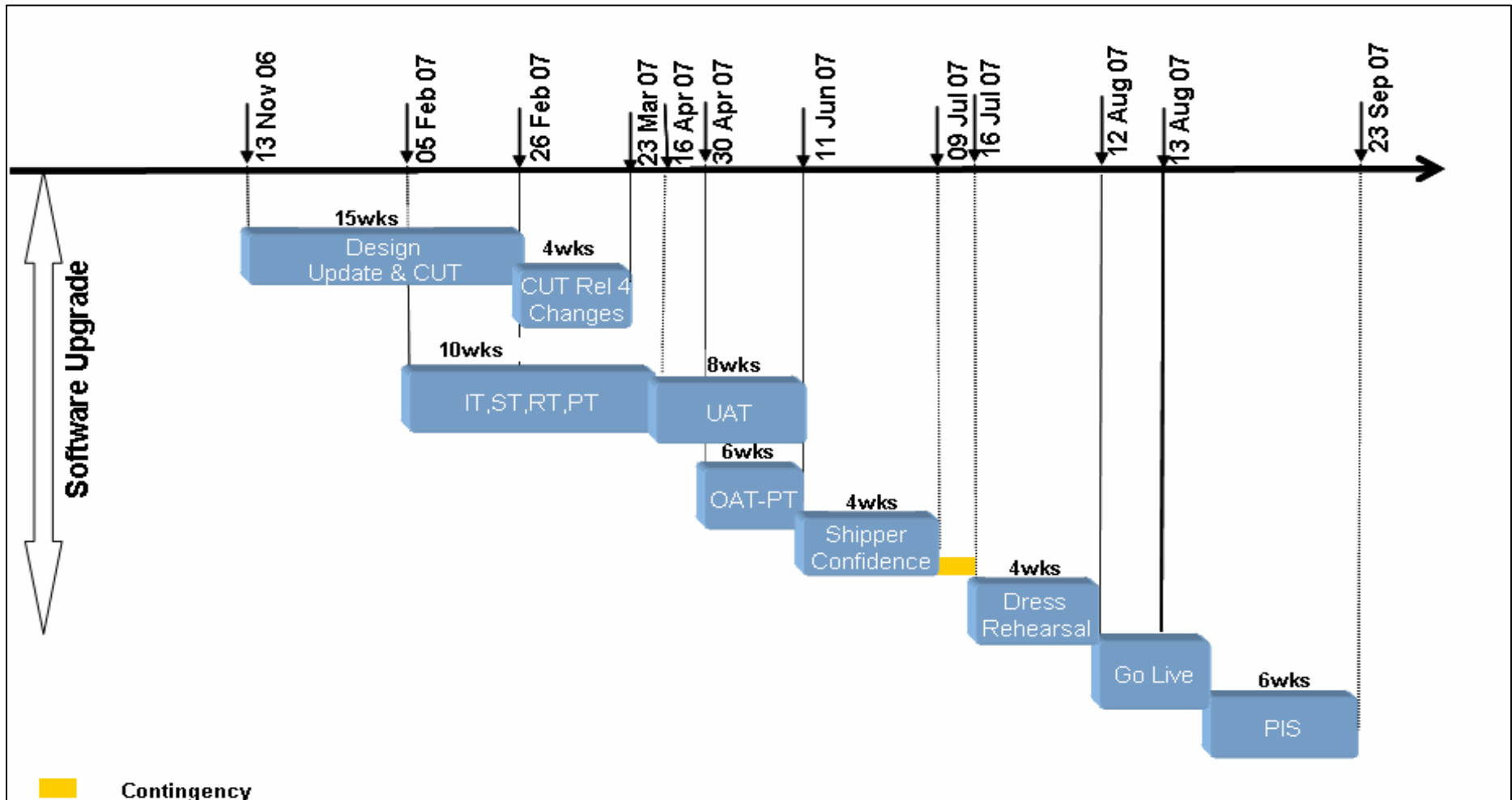
Gemini Oracle Software Upgrade – Background (2)

- **Gemini Oracle Software Upgrade - Proof of Concept**
 - Conducted a Proof of Concept (POC) in two phases.
 - Phase1 (Jun 2006 – Jul 2006), using ADF Faces as the target framework.
 - Phase2 (Aug 2006 – Sep 2006), using Struts framework.
 - National Grid IS and CSC were involved in a challenge and review of design and POC work

Gemini Oracle Software Upgrade – Background (3)

- POC recommended that the Struts framework is more suitable for the Gemini application based on the following key drivers.
 - Retention of the existing User Interface and Application Programme Interface (API) as far as possible.
 - No impact on existing interfaces between Gemini and other core internal systems.
 - Performance of the application
 - Reuse of existing code with the intention to reduce effort and costs of the upgrade
 - Compatible with existing Gemini software products and interfacing systems
 - No Shipper changes

Gemini Oracle Software Upgrade – Schedule



Gemini Oracle Software Upgrade – Summary

- **Highlights:**

- No functional changes to the Gemini Application.
- No changes to the User Interfaces (Online Screens) and Application Programme Interface (API).
- No changes to the existing interfaces between Gemini and other external systems.
- Current planning indicates Shipper Trial environment will not be available from the beginning of April until the middle of June
- Shipper Confidence testing planned from 11th June 2007 to 09th July 2007.
- Implementation planned for weekend of 11th / 12th August

- **Progress:**

- Design phase completed
- Development of System Test cases in progress, system testing on schedule to start 05-Feb-07.
- Testing strategy for all phases, defined and awaiting sign off.
- Code Management principles agreed to manage dependencies with Gemini Release 4 and Application Support (day to day operations).
- Implementation strategy currently being developed.

Gemini Oracle Software Upgrade – Key Contacts

- Key Contacts:
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XP1 Token Replacement

XP1 Token Replacement - Background

- Existing tokens are now out-dated and difficult to source.
- Upgraded infrastructure has been put in place and being tested with 5 Shippers during this week.
- Operation of new tokens will be exactly the same as the existing arrangement.
- Communication by Customer Life Cycle Team within xoserve has started with each organisation's Local Security Officer.

XP1 Token Replacement - Schedule

- Week commencing 29th January: UAT by 5 Shippers. Daily communication to ensure process working as expected.
- Week commencing 29th January: Customer Life Cycle Team is undertaking detailed communications with each organisation (LSO).
- Week commencing 5th February: Assessment of UAT and finalise implementation plans.
- Week commencing 12th February: Further communication with each organisation on implementation plan. (Communication will be co-ordinated by Customer Life Cycle Team.)

XP1 Token Replacement - Schedule (2)

- Week commencing 12th February: CSC will issue new token and operating instructions to LSO's, will also include information on the return of old token
- Implementation currently planned during 1st quarter 2007.

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