

Modification 461

Gemini Impact Assessment Outcome

Modification 461 WG Meeting Thursday 7th November 2013

Xoserve Impact Assessment

Context of Analysis

- At the request of NG NTS, Xoserve have carried out a piece of analysis to evaluate the impact of the Gas Day change on the Gemini system
 - It was based on the draft UNC Mod 461 requirements which apply a minimum approach to scheduled process timing changes
 - This included the assumption that the Gemini Housekeeping window would not be reduced (i.e. system availability would not need to increase). However it evaluated the impact of moving the Housekeeping Window to accommodate the process timing changes for the new Gas Day
- The analysis recognised that assumptions may change as a result of subsequent UNC developments - if this occurs the impact assessment outcomes would need revisiting

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Key Outcomes (1)

- The overall scale and complexity of change is considered **low to medium** due to the following key factors:
 1. The impact on scheduled job times has been reduced by the minimum change approach to process timings
 2. The majority of Gemini processing relates to daily values rather than hourly values
 3. The number of screens and interfaces which contain Gas Day related data is low

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Key Outcomes (2)

- The scale of testing and system validation required is **high** because:
 1. The code changes are relatively simple but impact many areas of system functionality. Therefore the integrity of the whole system would need retesting
 2. Integration Testing would be high-impact as most of the connected systems are expected to change
 3. User Acceptance Testing would be high because Gas Day is an integral element of the system

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High Level Estimate (1)

- A high-level estimate has been delivered as part of the Xoserve assessment
- If carried out in isolation of any other EU functional change on Gemini, or in isolation of any external system change (for Gas Day or other) the high-level estimate indicates:
 - **Costs are estimated in the region of £0.5m**
 - **Approximate delivery timescales are 7 months**
 - **Approximately 60% of the delivery timescales will be testing and implementation activity**

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High Level Estimate (2)

- There are many caveats associated with this outcome;
 - For example, the full impact of changes to NG Systems, for Gas Day, and how that may consequentially affect Gemini was not in scope.
- The assumed implementation approach was based purely on Gemini requirements for the Gas Day change.
 - Any additional EU requirements for a phased or co-ordinated implementation across the industry may have a significant impact on timescales

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Gemini Housekeeping Window

- The initial Impact Assessment confirmed that the housekeeping window can be moved forward an hour to facilitate the Gas Day change
- In reality this means a 03:15-04:15 outage Monday to Saturday and a 03:00-05:00 outage on Sunday
- NG NTS queried the necessity for a 2 hour window. Xoserve's initial view is that a 2 hour outage is still required on a Sunday to complete code deployment, data fixes and update security configuration
- We are currently reviewing other requirements of the EU Network Codes in order to understand the full potential impacts on the Gemini Housekeeping window. This will inform whether we request further system analysis in this area
- As Gemini is not designed to be continuously available, any such requirement would need re-architecting at a potentially high cost

Any Questions?