

# Gemini Update

Richard Griffiths - 10<sup>th</sup> May 2006

# Agenda

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- Recent Outages & Incidents
- Future Fixes
- Disaster Recovery Update
- API Trial Environment

# Recent Outages / Incidents

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9 <sup>th</sup> April	Gemini did not receive an interface file from an internal system required to run the Demand Attribution process at 12:00am. This issue was tracked to a problem with the in-scan process which is used to pick up files awaiting transfer.
10 <sup>th</sup> April	Initially intermittent connection issues were highlighted by Shippers from around 02:30am. On analysis, hanging sessions were identified on the OID servers. Following the housekeeping period the system did not return and the OID was not responding. The full restart process was commenced and full service was regained at 09:40.

# Recent Outages / Incidents

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28 <sup>th</sup> April	Oracle Internal Server error was encountered on the Gemini Production stack (Leicester). The error was worked on by Oracle and as a result the secondary service (Hinckley) was reconfigured to act as the primary service. Due to replication issues once the system was restored a number of Shipper password resets were required.
29 <sup>th</sup> April	An Oracle fix was provided for the OID issue encountered on 28 <sup>th</sup> April. Attempts were then made to restore the Production (Leicester) stack, but these were unsuccessful. As a result the Hinckley stack (acting as the primary service) encountered problems. Two restarts of the Hinckley stack were required.

# Recent Outages / Incidents

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2 <sup>nd</sup> May	The Gemini Application container failed to initialize correctly following the maintenance window. As a result security errors were encountered by users when attempting to logon. A full restart was undertaken and service resumed by 10:00.
5 <sup>th</sup> May	Following infrastructure clean-up activities, attempts were made to reintroduce replication at 10:57. This failed, and brought down the service. A restart was performed and service resumed before 12:30.

# Future Fixes

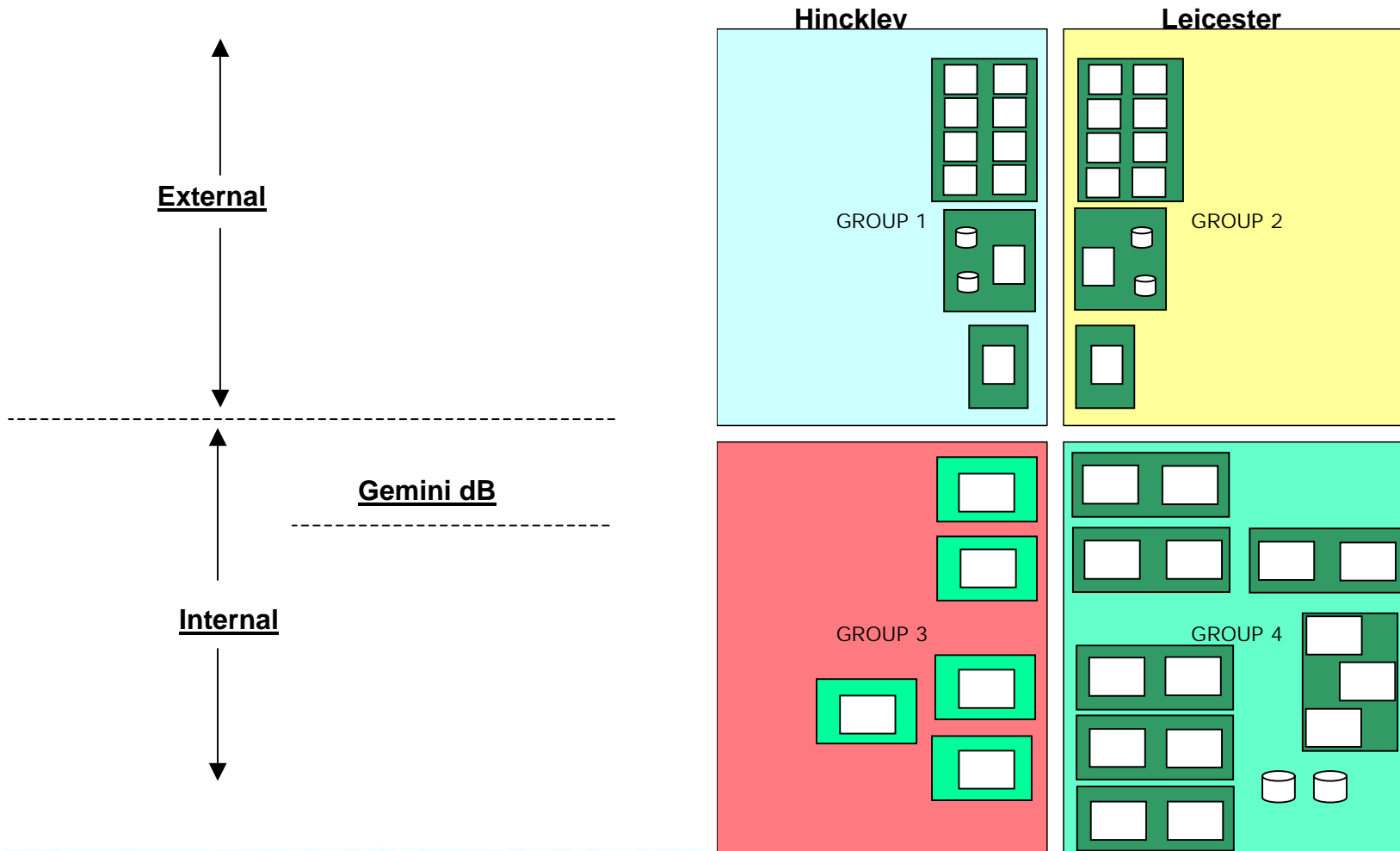
# Future Fixes

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<p>21<sup>st</sup> May (target production deployment)</p>	<p>Automated batch job implemented to reject any unmatched Gas Trades over one hour old.</p>
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# Disaster Recovery Update

# DR - "Quadrants"



# What is Disaster Recovery?

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- In the event of a total loss of a site, connections can be routed through one location
  - External Production stacks exist at Leicester and Hinckley
- The Gemini Databases are constantly synchronised so there is no data loss due to Disaster Recovery (only the current active session would be lost)

# Gemini Disaster Recovery Testing Plan

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<p>Date TBC</p>	<p>Internal Failover to “Warm Standby” Failover to be completed between 04:15 and 10:15. The primary internal infrastructure will be hosted at Hinckley (Group 3) Originally planned for the 6<sup>th</sup> May, new date to be confirmed.</p>
<p>Date TBC</p>	<p>Internal Failback to Production Stack Failback to be completed between 04:00 and 10:00. Once completed the primary route for infrastructure returns to Leicester. Originally planned for the 7<sup>th</sup> May, new date to be confirmed</p>

# Disaster Recovery Testing - Impact

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- Disaster Recovery Testing planned so far will impact the Internal network **only**.
- You will be able to continue connecting to Gemini in the normal way but are encouraged to test your D/R access

# System Access - Reminder

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- Screen Access
  - Port 443
  - Resolve the FQDN `geminixprod-citrix.transco.co.uk` to the IP address `194.129.160.17` on your network.
  - For Disaster Recovery you must resolve the FQDN `geminixprod-citrix-dr.transco.co.uk` to `194.129.160.19` on your network.
- API Access
  - Port 4445
  - Resolve the FQDN `geminixprod.transco.co.uk` to the IP address `194.129.160.25` on your network.
  - For Disaster Recovery the Gemini API service will be hosted at `194.129.160.30` on the same FQDN (`geminixprod.transco.co.uk`)
  - You **cannot** have simultaneous access configured to both production and D/R API services, as the FQDN resolutions are mutually exclusive.

# Gemini API Trial Environment

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- Data refreshed in the trial environment up to 13<sup>th</sup> February 2006.
- If necessary the data will be refreshed up to a maximum of every three months.
- Seven shippers have used the trial environment to test API's.
- Shipper Trial environment request form can be requested via [xoserve.gemini.isbs@xoserve.com](mailto:xoserve.gemini.isbs@xoserve.com).
- Code refreshes are planned monthly to update the trial environment with the production code base.
- Ad hoc code deployments into the Trial Environment may be requested if high priority API fixes are deployed into production.