

# Gemini- Shipper Acceptance Criteria Validation

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|-----------------------------------|--|
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**Revision History**

| <b>Version</b> | <b>Date</b> | <b>Section</b> | <b>Amendment</b>                     |
|----------------|-------------|----------------|--------------------------------------|
| 1              | 08/04/05    |                | Document created                     |
| 2              | 23/08/05    | Appendix A     | Appendix A (Performance times) added |
|                |             | 3.1.5          | Dates and/or actions updated         |
|                |             | 3.2.2          | "                                    |
|                |             | 4.1.1          | "                                    |
|                |             | 4.1.2          | "                                    |
|                |             | 4.1.3          | "                                    |
|                |             | 4.1.4          | "                                    |
|                |             | 4.2.1          | "                                    |
|                |             | 4.2.2          | "                                    |
|                |             | 4.3.1          | "                                    |
|                |             | 4.3.3          | "                                    |
|                |             | 4.3.4          | "                                    |
|                |             | 4.3.5          | "                                    |
|                |             | 4.3.6          | "                                    |
|                |             | 4.3.7          | "                                    |
|                |             | 4.3.8          | "                                    |
|                |             | 4.3.9          | "                                    |

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## II Shipper Acceptance Criteria Validation

### **1. Introduction to Acceptance Criteria Validation**

#### **1.1 Background**

This report validates each of the Acceptance Criteria identified in the Shipper Acceptance Criteria Document

#### **1.2 Process**

Each criterion has been updated with the action taken to complete the criteria and the date of completion.

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## 2 Acceptance Criteria to proceed into Early View Shipper Trials

### 2.1 Functional Acceptance Criteria to proceed into Early View Shipper Trials

|       | <b>Acceptance Criteria</b>   | <b>Responsibility</b>  | <b>Action</b>  | <b>Completion date</b> |
|-------|--|--|--|------------------------|
| 2.1.1 | API Specifications and file formats for Bulk Upload/Download have been published to the UK Link Committee.   | NGT publish by February for March approval                                 | Mail was sent to UK-LINK Committee on 18/02/05; approved at March UK-LINK Meeting  | 18/02/05               |
| 2.1.2 | UCT has been completed and a report has been sent to Shippers, including all outstanding defects and a plan for resolution.  | NGT one week before Early View Shipper Trials commences                    | UCT now not expected to complete until one week after Early View Shipper Trials commences. Mail sent out on 08/04/05 detailing 3 issues outstanding, and planned resolution date of 15/04/05. UCT Report shared with Shippers at the Shipper Forum of 08/06/05 | 08/06/05               |
| 2.1.3 | The process to agree the classification of faults found during Early View Shipper Trials and the timescales for their rectification has been presented to the Shipper Working Group and circulated to the Shipper Forum. | Shipper Working Group one month before Early View Shipper Trials commences | Presented at SWG 23/03/05; e-mailed to Shipper Community 01/04/05; presented at Shipper Forum 05/04/05   | 05/04/05               |

### 2.2 Technical Acceptance Criteria to proceed into Early View Shipper Trials

|       | <b>Acceptance Criteria</b>  | <b>Responsibility</b>                                    | <b>Action</b>  | <b>Completion date</b> |
|-------|---|--|--|------------------------|
| 2.2.1 | The API Framework Document has been updated and communicated to Shippers one month before commencing Early View Shipper Trials    | NGT one month before Early View Shipper Trials commences | Link to website showing UK-Link Approved API Specifications to be implemented with the Gemini Energy Balancing and Exit Capacity release mailed to Shipper Community | 08/02/05               |
| 2.2.2 | APIs have been tested prior to commencing Early View. A status report has been produced outlining findings during System testing. | NGT one week before Early View Shipper Trials commences  | API System Testing Report presented at the Shipper Forum   | 05/04/05               |

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|       | <b>Acceptance Criteria</b>   | <b>Responsibility</b>   | <b>Action</b>  | <b>Completion date</b> |
|-------|--|---|--|------------------------|
| 2.2.3 | All Shippers who requested to take part in Early View Shipper Trials have proved their connectivity to the Trials environment. | NGT/Shippers 2 weeks before Early View Shipper Trials commences | Connectivity proven by all but 6 Shippers who requested to take part in Early View Shipper Trials; report presented at Shipper Forum | 05/04/05               |

### 3 Acceptance Criteria to proceed into Shipper Trials

#### 3.1 Functional Acceptance Criteria to proceed into Shipper Trials

|       | <b>Acceptance Criteria</b>   | <b>Responsibility</b>   | <b>Action</b>  | <b>Completion date</b> |
|-------|--|---|--|------------------------|
| 3.1.1 | The process to agree the classification of issues found during Shipper Trials has been presented to the Shipper Working Group and circulated to the Shipper Forum. | Shipper Working Group one month before Shipper Trials commences | Issue classification approach document circulated to the Shipper Community 01/04/05 and presented at the Shipper Forum on 05/04/05   | 05/04/05               |
| 3.1.2 | A report has been produced showing that all critical (P1 and P2) faults found during Early View Shipper Trials have been corrected.                                | NGT at the end of Early View Shipper Trials                     | Shared with Shippers at the Shipper Forum on 08/06/05  | 08/06/05               |
| 3.1.3 | A plan has been published showing when all non-critical (P3 and P4) faults found during Early View Shipper Trials will be corrected.                               | NGT at the end of Early View Shipper Trials                     | Shared with Shippers at the Shipper Forum on 08/06/05  | 08/06/05               |
| 3.1.4 | The Shipper Trial plan and requirements have been published.   | NGT 3 months before Shipper Trials commences                    | Presented to Shipper Working Group and Shipper Forum   | 24/02/05               |
| 3.1.5 | I'X Upgrades Plan has been presented to the Shipper Working Group and circulated to the Shipper Forum  | NGT 4 months before Shipper Trials                              | MPLS presented as replacement for I'X lines, at the Shipper Forum on 05/04/05. All sites requiring upgrade (Phase I) to be completed by 10/09/05. Plan for Phase II sites due for completion mid-November. Details for XP1 replacement to be issued. | Ongoing                |

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**3.2 Operational Acceptance Criteria to Proceed into Shipper Trials**

|       | <b>Acceptance Criteria</b>   | <b>Responsibility</b>                        | <b>Action</b>  | <b>Completion date</b> |
|-------|--|--|--|------------------------|
| 3.2.1 | Shipper Trial plan and requirements have been presented to the Shipper Working Group and the Shipper Forum and comments have been responded to. Final Shipper Trials requirements have been published. | NGT 3 months before Shipper Trials commences | Presented to the Shipper Working Group and Shipper Forum   | 24/02/05               |
| 3.2.2 | Shipper procedures have been published. A list of Shipper procedures can be found in Appendix C of the Shipper Acceptance Criteria Document.   | NGT 1 month before Shipper Trials commences  | Shipper procedures are being proven during integrated UCT (11/04/05). The latest versions of the Procedures were uploaded to the UK-Link Documents Extranet website on the 13th June 2005. | 13/06/05               |
| 3.2.3 | The Shipper User/Training Manual has been published.   | NGT before Training commences                | Published on Gemini website  | 27/04/05               |
| 3.2.4 | Shipper Acceptance Criteria has been presented to the Shipper Working Group and the Shipper Forum. Final Shipper Acceptance Criteria has been published and comments responded to.                     | NGT 6 months before implementation           | A number of updates to the Shipper Acceptance Criteria Document culminated in the document presented at UK Link Committee  | 17/02/05               |
| 3.2.5 | A list of Shippers willing to participate in Shipper Trials has been confirmed.  | NGT 3 months before Shipper Trials commences | Anticipated participation document sent to Shipper Community on 02/03/05. A list has been compiled   | 17/03/05               |

**4 Acceptance Criteria to proceed into Implementation**

**4.1 Functional Acceptance Criteria to proceed into Implementation**

|       | <b>Acceptance Criteria</b>  | <b>Responsibility</b>           | <b>Action</b>   | <b>Completion date</b> |
|-------|---|---------------------------------|---|------------------------|
| 4.1.1 | The number of Shippers who have participated in Shipper Trials has been communicated to the Shipper Forum following completion of Shipper Trials. | NGT 1 week after Shipper Trials | Included in the Shipper Trials Exit Report presented to the Shipper Working Group and the Shipper Forum and in the Shipper Status Report dated 19/08/05 | 23/08/05               |

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|       | <b>Acceptance Criteria</b>  | <b>Responsibility</b>            | <b>Action</b>   | <b>Completion date</b> |
|-------|---|----------------------------------|---|------------------------|
| 4.1.2 | A report has been produced showing that all critical (P1 and P2) faults found during Shipper Trials have been corrected.  | NGT at the end of Shipper Trials | Included in the Shipper Trials Exit Report presented to the Shipper Working Group and the Shipper Forum. One P2 fault outstanding from Shipper Trials corrected before 23/08/05 | 23/08/05               |
| 4.1.3 | A plan has been published showing when all non-critical (P3 and P4) faults found during Shipper Trials will be corrected. | NGT at the end of Shipper Trials | Included in the Shipper Trials Exit Report presented to the Shipper Working Group and the Shipper Forum   | 23/08/05               |
| 4.1.4 | Shipper Trials end of phase report has been produced.   | NGT 1 week after Shipper Trials  | Distributed on 22/08/05   | 22/08/05               |

**4.2 Technical Acceptance Criteria to proceed into Implementation**

|       | <b>Acceptance Criteria</b>   | <b>Responsibility</b>                                      | <b>Action</b>   | <b>Completion date</b> |
|-------|--|--|---|------------------------|
| 4.2.1 | Shipper interfaces to the system have been proven during Shipper Trials:<br><br><ul style="list-style-type: none"> <li>- IX</li> <li>- API</li> <li>- Bulk Upload/Download</li> </ul>  | Shipper Trials participants by the end of Shipper Trials   | Confirmation sought via calls to the members of the Shipper Working Group to check. Details of proven connectivity and use of functionality included in the Shipper Trials Exit Report, distributed on 22/08/05 | 22/08/05               |
| 4.2.2 | All User data security (Shipper, MO, Agent) has been proven during Shipper Trials:<br>a. Shippers are only able to see data specific to the appropriate Shipper or Shippers with whom they are associated.<br>b. Shippers are able to see common data. | Shipper Trials participants – by the end of Shipper Trials | Called the members of the Shipper Working Group, GMSL and APX to check. There is no evidence to suggest issues with user data security  | 11/08/05               |
| 4.2.3 | Key contacts for every User have been defined. Part of stakeholder analysis to engage Shippers/Traders/Agents/Market Operators, to facilitate communications with Gemini Users   | NGT 6 months before implementation                         | List of key contacts including Shippers, Traders, Agents and Market Operator identified. Engagement maintained via industry forums and individual shipper telephone calls.                                      | 17/03/05               |
| 4.2.4 | Access and Security role information has been provided   | NGT 1 month before implementation                          |   |                        |

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|       | <b>Acceptance Criteria</b>   | <b>Responsibility</b> | <b>Action</b> | <b>Completion date</b> |
|-------|--|-----------------------|---------------|------------------------|
| 4.2.5 | Confirmation has been sought from each User contact that access to the system has been proven. | NGT by implementation |               |                        |

**4.3 Operational Acceptance Criteria to proceed into Implementation**

|       | <b>Acceptance Criteria</b>  | <b>Responsibility</b>  | <b>Action</b>   | <b>Completion date</b> |
|-------|---|--|---|------------------------|
| 4.3.1 | Performance of key processes has been proven. The key processes on which performance will be measured can be found in Appendices A and B of the Shipper Acceptance Criteria Document. Performance times can be found in Appendix D of the Shipper Acceptance Criteria Document  | NGT by the end of Shipper Trials                                       | Details provided in Appendix A of Shipper Acceptance Criteria Validation Document   | 17/08/05               |
| 4.3.2 | Operational Acceptance Testing System Status Report has been published  | NGT 2 months prior to implementation                                   |   |                        |
| 4.3.3 | SLA has been published, reviewed and amended as appropriate prior to Implementation covering the following: <ul style="list-style-type: none"> <li>- system availability and resilience</li> <li>- password changes</li> <li>- fault fixing</li> </ul>  | NGT issue to UK Link Committee at least 3 months before implementation | There will not be a new SLA for Gemini from a Shipper perspective, as the system availability, response times and fault fixing for AT-Link will prevail. Changes to the Helpdesk procedure for password changes shared at Shipper Working Group 16/02/05 and Shipper Forum 24/02/05             | 23/08/05               |
| 4.3.4 | Detailed Implementation Plan has been published, including the following: <ul style="list-style-type: none"> <li>- Outage Time</li> <li>- Phased Cutover Approach</li> <li>- Data Migration requirements</li> <li>- Reversion Plan</li> <li>- Revised documentation and templates for manual fax procedures for Gemini</li> </ul> | NGT issue to UK Link Committee at least 3 months before implementation | Information has been shared with Shipper Working Group, Shipper Forum and UK-Link Committee since February 2005. Implementation Plan on agenda at Shipper Working Group 17/08/05 and Shipper Forum 23/08/05.<br><br>Revised fax procedures to be published on Gemini website for Implementation | 23/08/05               |

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|        | <b>Acceptance Criteria</b>   | <b>Responsibility</b>                                     | <b>Action</b>  | <b>Completion date</b> |
|--------|--|---|--|------------------------|
| 4.3.5  | The UK Link Manual has been revised, approved & reissued to be approved by the UK Link Committee   | UK Link Committee at least 3 months before implementation | Revised UK-Link Manual is being updated and will be published prior to implementation. No approval is required by the UK-Link Committee  |                        |
| 4.3.6  | Shipper Training plan has been published and Shipper Training programme has been completed to plan | NGT to report at the end of Training                      | External Training Completion Report presented to the Shipper Working Group and Shipper Forum   | 06/07/05 & 14/07/05    |
| 4.3.7  | IS Failover contingency arrangements have been published to include XP1                            | NGT 2 months before implementation                        | Presentation shared with Shipper Working Group and Shipper Forum June 2005. Test 6 of Disaster Recovery tests 1-6 still outstanding – dates of 13 <sup>th</sup> and 14 <sup>th</sup> September 2005 have been requested. |                        |
| 4.3.8  | Business Contingency arrangements have been published  | NGT before the start of Shipper Trials                    | Flexibility Mechanism and Business Contingency discussed at the Shipper Working Group and Shipper Forum in January 2005; Business Contingency arrangements to remain unchanged   |                        |
| 4.3.9  | A process to discuss and agree governance after implementation of Gemini has commenced             | NGT by implementation                                     | xoserve involved in Shipper Working Group and Shipper Forum discussions  |                        |
| 4.3.10 | Meeting held with SWG and SF to verify Shipper Acceptance Criteria status prior to Go-live         | NGT 1 month before implementation                         |  |                        |

## 5 Post Implementation Acceptance Criteria

|     | <b>Acceptance Criteria</b>  | <b>Responsibility</b>            | <b>Action</b> | <b>Completion date</b> |
|-----|---|----------------------------------|---------------|------------------------|
| 5.1 | End of Project Production Support Handover report has been published.                       | NGT 40 days after implementation |               |                        |
| 5.2 | Hold meeting of Shipper Forum to discuss End of Project Production Support Handover report. | NGT 40 days after implementation |               |                        |

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**6 Appendix A – Performance Times**

Business Processes

| <b>Process Name</b>               | <b>No of Nominations</b> | <b>AT-Link Average Time</b> | <b>Gemini Average Time</b> | <b>No of Nominations</b> | <b>Gemini Average Time</b> | <b>OAT Average Time</b> |
|-----------------------------------|--------------------------|-----------------------------|----------------------------|--------------------------|----------------------------|-------------------------|
| <b>Shipper Balance</b>            |                          | 17.5                        | 9.2                        |                          |                            | 2.62                    |
| <b>View National Balance</b>      |                          | 18.1                        | 9.2                        |                          |                            | 5.90                    |
| <b>Maintain Input Nomination</b>  | 1                        | 32                          | 20.3                       | 10                       | 110.6                      | 11.04                   |
| <b>Input Nomination</b>           | 1                        | 38                          | 20.1                       | 10                       | 92.1                       | 21.21                   |
| <b>Maintain Output Nomination</b> | 1                        | 32                          | 20.4                       | 10                       | 127.8                      | 12.13                   |
| <b>Output Nomination</b>          | 1                        | 38                          | 21.8                       | 10                       | 124                        | 13.45                   |

# Shipper Acceptance Criteria For Implementation

## APIs

| Best Case |                               |   |                |                    |                 |                     |                  | Worst Case   |                |                    |                 |                     |                  | OAT Response (sec)   |
|-----------|-------------------------------|---|----------------|--------------------|-----------------|---------------------|------------------|--|----------------|--------------------|-----------------|---------------------|------------------|----------------------|
| No        | API Name                      | Query Parameters  | Response (sec) | Input Size (bytes) | Input # Records | Output Size (bytes) | Output # Records | Query Parameters   | Response (sec) | Input Size (bytes) | Input # Records | Output Size (bytes) | Output # Records | OAT Response (sec)   |
| 1         | Shipper Preliminary Balance   | Gas day: 2003-12-01   | 2.8            | 282                | 1               | 1592                | 1                | Gas day: 2003-12-01  | 2.8            | 282                | 1               | 1592                | 1                |                      |
| 2         | System Status Info            | No parameters, no Request file  | 1.9            | 0                  | 1               | 475                 | 1                | No parameters, no request file   | 1.9            | 0                  | 1               | 475                 | 1                | 1.25                 |
| 3         | System Nomination Balance     | Gas day: 2004-01-01   | 2.5            | 279                | 1               | 601                 | 1                | Gas day: 2004-01-01  | 2.5            | 279                | 1               | 601                 | 1                | 1.21                 |
| 4         | View Renominations            | Gas day: 2003-12-01, Service_id: BG-SS-000365 Start and end activity - 000001 | 2.65           | 318                | 1               | 927                 | 1                | Gas day: 2003-12-01 service_id: BG-SS-000365 Start activity: 000001 End activity: 006263 | 10.7           | 318                | 1               | 46924               | 165              |                      |
| 5         | View Renomination Details     | Gas day: 2003-12-02 activity: 000001  | 2.1            | 350                | 1               | 1278                | 3                | Gas day: 2003-12-02 activity: 000001   | 2.1            | 350                | 1               | 1278                | 3                | 0.99                 |
| 6         | Update Renominations          | 10 RECORDS  | 52.3           | 1571               | 10              | 2363                | 10               | 100 Records  | 138            | 13447              | 100             | 20819               | 100              | 115.55 (200 records) |
| 7         | Shipper Total Energy Forecast | Gas day: 2003-12-01   | 2.1            | 303                | 1               | 3037                | 14               | Gas day: 2003-12-01  | 2.1            | 303                | 1               | 3037                | 14               |                      |
| 8         | View INS Nominations          | Start date: 2003-12-01 End Date: 2003-12-01                                   | 2.1            | 318                | 1               | 500                 | 1                | Start date: 2003-12-01 End date: 2003-12-31  | 2.8            | 318                | 1               | 3178                | 31               | 0.76                 |
| 9         | Update INS Nominations        | Gas day: 2004-12-12 EOD BALANCE: 123000 reason: test                          | 1.4            | 390                | 1               | 497                 | 0                | 35 records.  | 8.9            | 4483               | 35              | 8258                | 35               | 1.31                 |

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| Best Case |   |  |                |            |                 |             |          | Worst Case   |                |            |                 |             |                  | OAT Response |
|-----------|---|--|----------------|------------|-----------------|-------------|----------|--|----------------|------------|-----------------|-------------|------------------|--------------|
| No        | API Name                                  | Query Parameters   | Response (sec) | Input Size | Input # Records | Output Size | Output # | Query Parameters   | Response (sec) | Input Size | Input # Records | Output Size | Output # Records |              |
| 10        | View Shipper Trade Details*               | GAS DAY: 2004-12-12<br>matched: Y<br>status:             | 1.5            | 303        | 1               | 4258        | 13       | Gas day: 2004-12-12<br>matched:<br>status:               | 6.15           | 281        | 1               | 26703       | 90               |              |
| 11        | Daily Cashout Tolerance BreakDown Details | Gas day: 2003-12-01                                      | 2.8            | 292        | 1               | 3454        | 1        | Gas day: 2003-12-01                                      | 2.8            | 292        | 1               | 3454        | 1                |              |
| 12        | System Status History                     | Production date: 2003-11-01                              | 2.95           | 288        | 1               | 5764        | 22       | Production date: 2003-11-01                              | 2.95           | 288        | 1               | 5764        | 22               | 1.23         |
| 13        | Price Information History                 | Gas day: 2003-12-01<br>MO: ENO                           | 3.2            | 316        | 1               | 2914        | 16       | Gas day: 2003-12-01<br>MO: ENO                           | 3.2            | 316        | 1               | 2914        | 16               |              |
| 14        | Storage Output Claims                     | Agent - BSG<br>Meter Id - ROGHSX<br>Gas day - 2003-12-01 | 3.3            | 341        | 1               | 7862        | 39       | Agent - BSG<br>Meter Id - ROGHSX<br>Gas day - 2003-12-01 | 3.3            | 341        | 1               | 7862        | 39               |              |
| 15        | WCF/SF Values                             | Gas day: 2003-12-01<br>ldz: EA                           | 1.45           | 305        | 1               | 3718        | 1        | Gas day: 2003-12-01<br>ldz:                              | 16.55          | 293        | 1               | 61,342      | 216              |              |
| 16        | Shipper EOD Nominations                   | Gas day: 2033-12-01                                      | 2.4            | 283        | 1               | 8090        | 26       | Gas day: 2033-12-01                                      | 2.4            | 283        | 1               | 8090        | 26               |              |
| 17        | Gas Trades Breakdown                      | Gas day: 2003-12-01<br>mkt_operator_code: ENO            | 3.6            | 331        | 1               | 1057        | 1        | Gas day: 2003-12-01<br>mkt_operator_code:                | 4.8            | 331        | 1               | 11170       | 32               |              |
| 18        | Register Title Swap                       | 5 Title Swaps  | 3.3            | 774        | 5               | 1338        | 5        | 10 Title Swaps   | 4.6            | 1264       | 10              | 2332        | 10               | 3.47         |
| 19        | Register Physical Locational Trades       | 5 Physical Trades  | 2.8            | 1613       | 5               | 2028        | 5        | 10 Physical Trades                                       | 3.9            | 2903       | 10              | 3764        | 10               | 5.01         |

\* Note: View Shipper Trade Details has been re-measured for new worst case of 90 records. Best case was checked at the same time and the 0.9-second degradation from last measurement is being investigated

## Shipper Acceptance Criteria For Implementation

### Bulk Uploads and Downloads

| Job Name                                  | # records processed | # records output | Criteria       | Completion time (Sec)* | OAT Completion time ** |
|---|---------------------|------------------|----------------|------------------------|------------------------|
| <b>Measurements</b>                       |                     |                  |                |                        |                        |
| <b>Bulk download of measurements</b>      | N/A                 | 30               | 1 month data   | 14.3                   | 3.72 minutes           |
| <b>Allocations &amp; Balancing</b>        |                     |                  |                |                        |                        |
| <b>Bulk download of Allocations</b>       | N/A                 | 3,000            | 1 month data   | 12.65                  | 3.42 minutes           |
| <b>Bulk download of imbalance details</b> | N/A                 | 30               | 1 month data   | 11.77                  | 3.33 minutes           |
| <b>Nominations</b>                        |                     |                  |                |                        |                        |
| <b>Bulk Upload of Nominations</b>         | 50                  | N/A              | 50 nominations | 2.3                    | 16.36 seconds          |
| <b>Bulk Download of Nominations</b>       | NA                  | 1,000            | 1 month data   | 5.81                   | 3.38 minutes           |

\*Completion time excludes XFTM overhead

\*\* OAT Completion times were measured as part of a 23-hour simulation of Gemini usage; previous completion time were measured for individual files as one part of this process