

**Quality Criteria Verification
Executive Summary
For QCV, Stage Rollout, DMSU and EGI internal**

| | | | |
|-------------------------|------------------------------------|---------------------------------------|------------|
| Name of the component | EMI ARC CE | | |
| Release | emi.arc-ce.sl6.x86_64-3.0.0 | RT Ticket | #5101 |
| Software Provider | | | |
| Release Contact | Name: Cristina Aiftimiei | E-Mail: cristina.aiftimiei@pd.infn.it | |
| Validator | Name: Sergio Maffioletti | E-Mail sergio.maffioletti@gc3.uzh.ch | |
| V. Hours Worked | 10 | | |
| Component status | Verified | Date | 26/03/2013 |
| Verification start date | 17/03/2013 | Verification end date | 21/03/2013 |

Summary:

The component was installed without problems on a freshly deployed SL6 machine. Configuration was performed using the same arc.conf file present on one of our production clusters adapting some of the options in order to meet the new system's layout. No relevant issues has been encountered. Backwards compatibility is verified. Regular 1 core and multi core MPI submission worked out without problems. Information publication and retrieval was also successful.

GGUS Tickets:

Summary of Quality Criteria verification:

| | Generic Quality Criteria Total (Critical/Non critical) | | | |
|------------|--|------------|----------------|-------|
| | Passed | Not passed | Not Applicable | Total |
| TP | | | | |
| VLD | 25 | 0 | 8 | 33 |
| | Specific Quality Criteria | | | |
| TP | | | | |
| VLD | | | | |

Quality Criteria verification cheatsheet:

| Criteria | Accepted (Y/N/NA) | Tested (TP/VLD) | Comments |
|---|-------------------|-----------------|---|
| DOCUMENTATION QC | | | |
| GENERIC_DOC_1 (Functional Description) | Optional | | |
| GENERIC_DOC_2 (Release Notes) | Y | | |
| GENERIC_DOC_3 (User Documentation) | Optional | | |
| GENERIC_DOC_4 (Online help (man pages)) | Optional | | |
| GENERIC_DOC_5 (API Documentation) | Optional | | |
| GENERIC_DOC_6 (Administrator Documentation) | Optional | | |
| GENERIC_DOC_7 (Service Reference Card) | Optional | | |
| GENERIC_DOC_8 (Software License) | Y | | |
| GENERIC_DOC_9 (Release changes testing) | Optional | | |
| SOFTWARE DISTRIBUTION QC | | | |
| GENERIC_DIST_1 (Source Code Availability) | Y | | |
| GENERIC_DIST_3 (Binary Distribution) | Y | | |
| SOFTWARE FEATURES QC | | | |
| GENERIC_SOFT_1 (Backwards Compatibility) | Y | | |
| GENERIC_SOFT_2 (New features testing) | | | |
| SERVICE CRITERIA QC | | | |
| GENERIC_SERVICE_1 (Service control and status) | Y | | Tested services: gridftp, a-rex, nordugrid-arc-{bdii,slapd} |
| GENERIC_SERVICE_2 (Log Files) | Y | | Logs available in /var/log/arc. No logs for infoprovider. |
| GENERIC_SERVICE_3 (Service Reliability) | Optional | | |
| GENERIC_SERVICE_4 (Service Robustness) | Optional | | |
| GENERIC_SERVICE_6 (Default Password Configuration) | Y | | |
| GENERIC_SERVICE_7 (Default Configuration) | NA | | |
| SECURITY QC | | | |
| GENERIC_SEC_1 (World Writable Files) | Y | | |
| GENERIC_SEC_3 (Passwords in world readable files) | NA | | |
| MISCELLANEOUS QC | | | |
| GENERIC_MISC_1 (Bug Tracking System) | Y | | |
| AUTHENTICATION QC | | | |
| AUTHN_CRED_1 (X509 Certificate support) | Y | | |
| AUTHN_CRED_2 (SHA2 Certificate support) | Optional | | |
| AUTHN_CRED_3 (RFC Proxy support) | Optional | | |
| AUTHN_PROTO_1 (TLSSSLv3 Support) | NA | | |
| AUTHN_DELEG_1 (Delegation Interface) | NA | | |
| AUTHORISATION QC | | | |
| AUTHZ_PCYDEF_3 (Ban UserGroup of users) | Y | | |
| AUTHZ_PCYDEF_4 (Allowed users definition) | Y | | |
| AUTHZ_PEP_2 (User Mapping) | Y | | |
| JOB EXECUTION QC | | | |
| JOBEXEC_IFACE_1 (Job Execution Interface) | Y | | |
| JOBEXEC_JOB_1 (Simple Job) | Y | | |
| JOBEXEC_JOB_2 (Simple Job with inputoutput files) | Y | | |
| JOBEXEC_JOB_3 (Cancel Job) | Y | | |
| JOBEXEC_EXECMNGR_1 (Not Invasive Deployment) | Y | | |
| JOBEXEC_EXECMNGR_2 (Job Management) | Y | | |
| JOBEXEC_EXECMNGR_3 (Information Retrieval) | Y | | |
| JOBEXEC_AVAIL_1 (Service Redundancy) | NA | | |
| JOBEXEC_AVAIL_2 (Self Disabling Mechanism) | Optional | | |
| JOBEXEC_AVAIL_4 (Timely Job Status Updates) | Optional | | |
| PARALLEL JOB QC | | | |
| PARALLEL_JOB_1 (Simple parallel job submission) | Y | | |
| PARALLEL_JOB_2 (Single machine parallel job submission) | Optional | | |
| PARALLEL_JOB_3 (Fine grained mapping parallel job submission) | Optional | | |
| PARALLEL_MPI_1 (Precompiled MPI job Execution) | Y | | |
| PARALLEL_MPI_2 (MPI job Execution from source.) | Y | | |
| PARALLEL_OMP_1 (Precompiled OpenMP job Execution) | NA | | |
| PARALLEL_OMP_2 (OpenMP job Execution from source) | NA | | |
| MONITORING PROBES QC | | | |
| MON_PROBE_GENERIC_1 (Certificate Lifetime Probe) | Optional | | |
| MON_PROBE_GENERIC_2 (Service Probe) | Optional | | |
| MON_PROBE_JOBEXEC_1 (Job Execution Probe) | NA | | |
| ACCOUNTING CAPABILITY QC | | | |
| ACC_JOBEXEC_1 (Job Execution Appliances Accounting) | Y | | |

Validator comments: No further comments available for this part.

Not applicable Quality Criteria

Specific Functional Tests to be repeated in SR:

| Test number | Description | Motivation |
|-------------|-------------|------------|
| | | |
| | | |
| | | |

Specific Non-functional tests (Scalability, etc...) to be repeated in SR:

| Test number | Description | Motivation |
|-------------|-------------|------------|
| | | |
| | | |
| | | |

Comments for UMD QC definition (TSA2.2):

- Review criteria xxxx
- Add criteria xxxx

Comments for SR (TSA1.3):

Comments for DMSU (TSA2.5):

Comments for TP: