

EUROPEAN MIDDLEWARE INITIATIVE

MJRA1.15 - SERVICE MONITORING AND MANAGEMENT

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I. DELIVERY SLIP

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II. DOCUMENT LOG

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III. DOCUMENT CHANGE RECORD

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IV. DOCUMENT AMENDMENT PROCEDURE

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V. GLOSSARY

Acronym	Long Name
EGI	European Grid Initiative
EMI	European Middleware Initiative

The complete EMI glossary is available at <https://twiki.cern.ch/twiki/bin/view/EMI/EmiGlossary> .

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MILESTONE REPORT

In the original Description of Work [R1], it was envisioned that EMI would investigate the area of service monitoring and management, along with the use of messaging technology, and propose a common interface for that could be adopted by all EMI services. The status of this milestone has already been reported in DJRA1.4.3 - Infrastructure Area Work Plan and Status Report [R2], and is the relevant aspects have been reproduced here for clarity.

A survey of Grid sites [R3] was jointly conducted with EGI to investigate the requirements in this area. The summary of the result is that while there is general agreement that such an interface would be on everyone's wish list, in practice smaller more concrete objectives would have greater impact.

The survey showed that there is no common interface used for service monitoring and management in the existing data centers. The provision of another proprietary interface would only serve to increase the entropy in this area. Such an interface should be defined in within the wider context of standards in data centers. This is something that is out-of-scope for EMI. Another contributing factor is the re-tooling of data centers in order to adopt the virtualization paradigm and the advent of cloud computing. Due to these factors, EMI should watch this area closely for any emerging standards for service monitoring and management. The Messaging Product Team already has experience related to service monitoring via messaging and as such EMI is well placed for the future.

The feedback from the survey suggested that there were a number of concrete steps that EMI could take to improve service monitoring and management. As a number of different fabric management tools are used to provision EMI services, one recommendation is that EMI software should conform to the operating system guidelines for the platforms which EMI supports. This objective was already in the EMI Technical Plan [R4] as cross-area objective 6, *standard service operation and control (DNA1.3.3 ref X6.)* and has been achieved. For service monitoring, EGI requested that each service should provide a Nagios probe which can be used to measure the availability. Again, this objective was already in the EMI Technical Plan as cross-area objective 4, *provide and support monitoring probes for EMI services (e.g. Nagios) (DNA1.3.3 ref X4.)* and has been achieved.

REFERENCES

R1	EMI Description of Work (Public DoW) http://twiki.cern.ch/twiki/pub/EMI/EmiDocuments/EMI-Part_B_20100624-PUBLIC.pdf
R2	DJRA1.4.3 - Infrastructure Area Work Plan and Status Report https://cdsweb.cern.ch/record/1277585?ln=en
R3	Survey of Grid sites https://twiki.cern.ch/twiki/pub/EMI/InfrastructureArea/TF_service_management.doc
R4	DNA1.3.3 – Technical Development Plan https://cdsweb.cern.ch/record/1277544?ln=en