



PROTOTYPE DOCUMENTATION
EXECUTIVE SUMMARY FOR TASK 3.3

WP3

Document Filename: **CG3.3-TCD-D3.3-v0.1-ExecutiveSummary.doc**
Work package: **WP3**
Partner(s): **TCD, CYFRONET, ICM**
Lead Partner: **TCD**
Config ID: **CG3.3-TCD-D3.3-v0.1-ExecutiveSummary**
Document classification: **PUBLIC**

Delivery Slip

| | Name | Partner | Date | Signature |
|--------------------|---------------|--------------------------|-----------------------------|------------------|
| From | WP3, Task 3.3 | TCD, CYFRONET, ICM | Jan 17 th , 2003 | Brian Coghlan |
| Verified by | | | | |
| Approved by | | | | |

Document Log

| Version | Date | Summary of changes | Author |
|----------------|-------------|---------------------------|------------------------|
| 0.1 | 20/01/2003 | Draft version | Brian Coghlan |
| 1-0 | 24-02-2003 | Final version | Brian Coghlan ,N.Meyer |
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EXECUTIVE SUMMARY FOR WP3 TASK 3.3

CrossGrid workpackage WP3 includes a set of tools and services, which will define (with the results of WP2) the middleware layer of the CrossGrid project. WP3 incorporates five Tasks, of which Task 3.3 (Grid Monitoring) is one.

The main objective of Task 3.3 is to develop Grid services and a software infrastructure required to support the monitoring needs of Grid users, applications and tools as defined in the workpackages WP1 and WP2. The results of Task 3.3 will improve the existing grid middleware by delivering both new kinds of monitoring services and enhancements to the existing DataGrid R-GMA monitoring services.

Hence Task 3.3 will develop middleware software, in the form of grid monitoring services.

The first deliverable (D3.1) in Month 3 contained the Software Requirements Specification (SRS), with detailed planning for all the tools and services, including:

- requirements of the end user;
- definition of the monitoring environment functionality and interfaces to Task 2.4;
- use cases.

The second deliverable (D3.2) in Month 9 defined the **architecture** and **interfaces**, based on the SRS, including:

- the decomposition of the system;
- any dependencies;
- the interface description,
- any security issues,
- the detailed design classes and methods.

This current deliverable (D3.3) describes the prototype, based on the preceding two deliverables. It covers the implementation structure of the prototype, its functionality, a user guide, internal testing details and any outstanding issues.

The goals of Task 3.3 are to develop:

- Subtask 3.3.1 OCM-G [CYFRONET]
- Subtask 3.3.2 SANTA-G [TCD]
- Subtask 3.3.3 Jiro-based-monitoring [CYFRONET]
- Subtask 3.3.4 Analysis [ICM]

OCM-G is a new service designed to enable monitoring of application tasks. **SANTA-G** extends the DataGrid R-GMA for ad-hoc non-invasive monitoring of grid components using external instruments. **Jiro-based-monitoring** is a new service for routinely monitoring grid components using built-in instrumentation. **Analysis** refers to in-depth analysis of information acquired from the enriched monitoring environment.

Since each of these represents a complex subsystem that extends the common monitoring environment in different ways, their design is discussed in four separate documents:

- Subtask 3.3.1 OCM-G: CG-3.3.1-CYF-D3.3-v1.0-OCM-G.doc
- Subtask 3.3.2 SANTA-G: CG3.3.2-TCD-D3.3-v1.1-SANTAG.doc
- Subtask 3.3.3 Jiro-based-monitoring: CG3.3.3-CYF-D3.3-v1.1-Jiro.doc
- Subtask 3.3.4 Analysis: CG3.3.4-v0.5-ICM-PrototypeDoc-impr.doc

To summarize, the associated Prototype Documents describe the prototypes developed by each subtask of WP3 Task 3.3, including those for the OCM-G monitoring system for Grid applications, additional R-GMA services for non-invasive monitoring, the Jiro-based services for Grid-infrastructure monitoring, and an analysis system that exploits these. The intended audience is both the Task itself and dependent tasks.