DCS COMPASS

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Meeting – November 17th, 2004

New features and possibilities of PVSS and Framework

- New version of PVSS II (v. 3.0)
  - Database capabilities
  - …

- New version of Framework

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New version of PVSS II (v. 3.0)

- What is the philosophy?

- What are the key objectives?

- Which are the new features and possibilities?

- Which are the new Database capabilities?

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What is the philosophy?

The PVSS II (v.3.0) is process visualization and control system. It provides:

- **less numbers**
- **more images**
- **reduction of the data flow to the essential and to customized solutions.**

What are the key objectives?

- **Increasing of performance and optimizations**
  - Reduce start-up time (system start)
  - Reduce memory consumption (25%)
  - Increased archiving performance for the value and alarm archives

- **PVSS Core**
  - Core Optimizations
  - Intensive cooperation with test and design group at CERN

- **Improved redundancy configuration**
  - Simplified parameterization
  - Redundant network connections (LAN) between all PVSS II managers
  - Improved fault tolerance

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Which are the new features and possibilities?

- **User friendly graphical interface (also in Linux):**
  - an easy visualization of the running PVSS managers
  - facility to identify problems
  - The request of project status can also be done from a standard Web browser

- **Administration interface now also implemented as PVSS II panels**
  - Clear separation between process supervision and project administration

- **New powerful Log Viewer**

- **PVSS II can do network monitoring for other devices and systems**

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Which are the new Database capabilities?

- **It is workable without PVSS**

- **Support for all common databases: e.g. MS Access, MS SQL Server, Oracle on both operating systems (Windows/Linux)**

- **Possibility to use a remote Oracle database to archive history values**

- **Easy configuration of archiving** (The data are archived in a specially developed flat-file structure. This ensures high performance and fault tolerance)

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New version of Framework

- **It is more user-friendly**

- **Increasing functionality and feedback from users**

- **Simplification of the integration of new device types**

- **Configuration from an external database**

- **Framework identified as one of the key elements of JCOP** (Joint Controls Project)

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