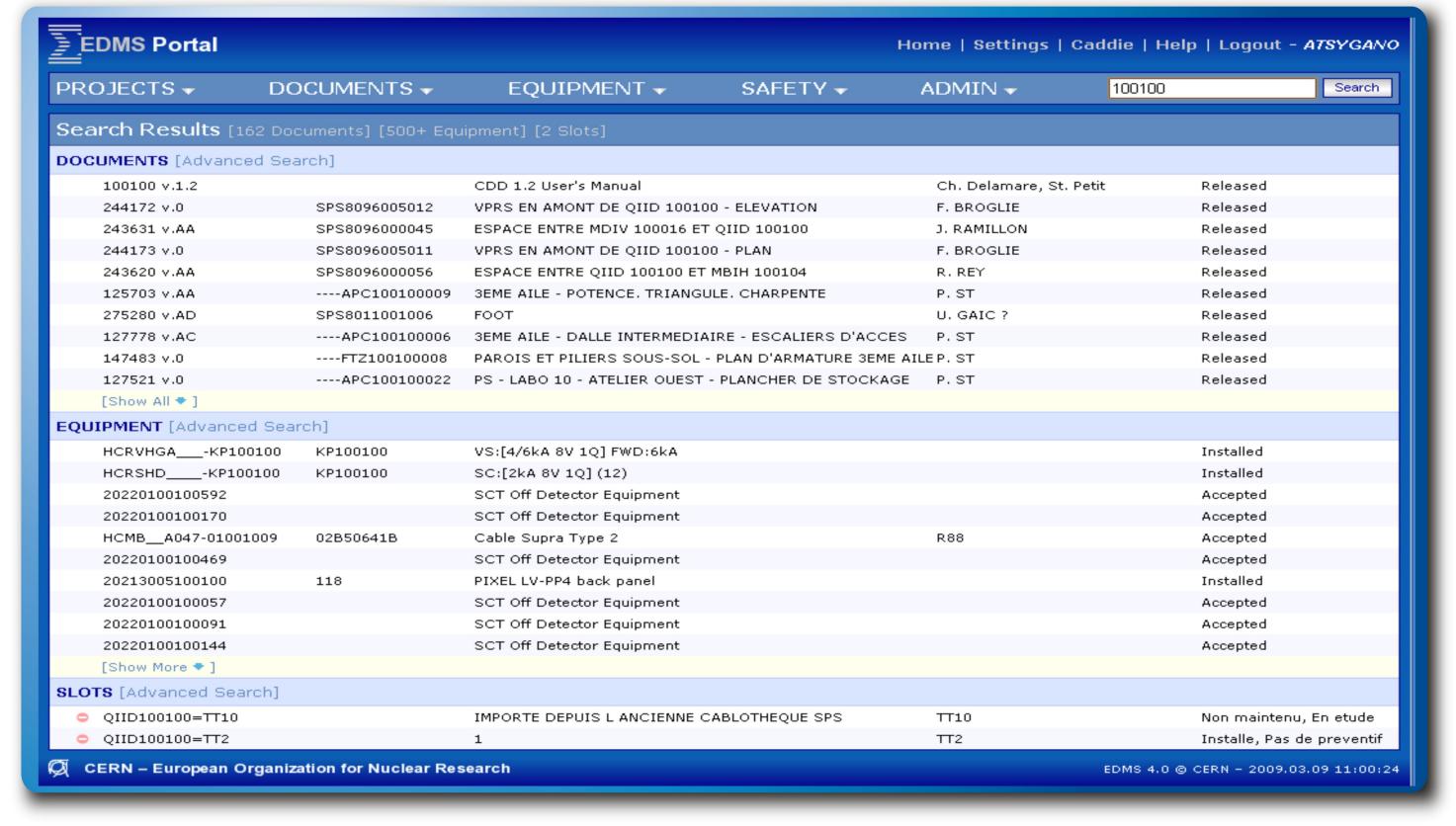


A Web portal for the Engineering and Equipment Data Management System at CERN

Full text search



Uses Oracle Text as a base for the search engine. Allows to perform the search on multiple types of information stored in EDMS.

- Search can be done with any word, number etc...
- **Special semantic syntax is provided for wider search** possibilities.
- **Built on global EDMS metadata and operates on about** 2'000'000 metadata records.

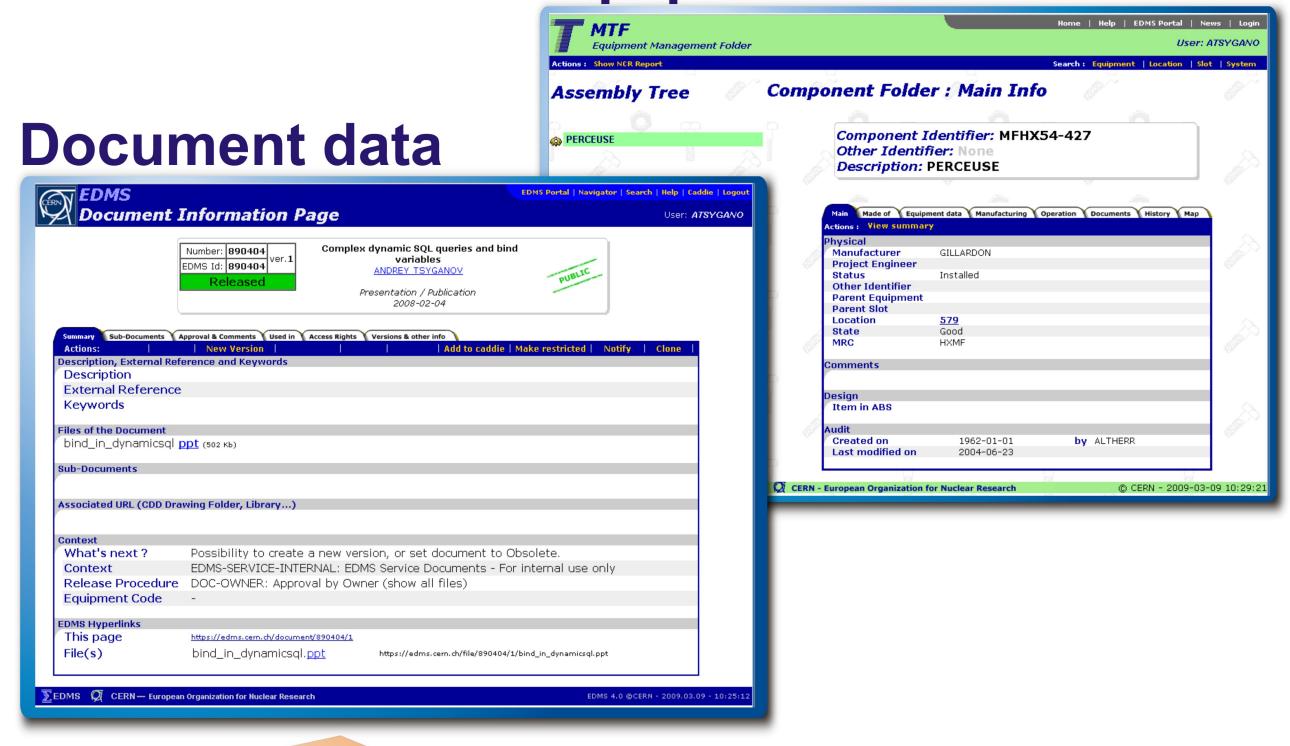
CERN, the European Laboratory for Particle Physics, located in Geneva - Switzerland, has recently started the Large Hadron Collider (LHC), a 27 km particle accelerator. The CERN Engineering and Equipment Data Management Service (EDMS) provides support for managing engineering and equipment information throughout the entire lifecycle of a project. Based on several both in-house developed and commercial data management systems, this service supports management and follow-up of different kinds of information throughout the lifecycle of the LHC project: design, manufacturing, installation, commissioning data, maintenance and more. The data collection phase, carried out by specialists,

is now being replaced by a phase during which data will be consulted on an extensive basis by non-experts users. In order to address this change, a Web portal for the EDMS has been developed. It brings together in one space all the aspects covered by the EDMS: project and document management, asset tracking and safety follow-up. This paper presents the EDMS Web portal, its dynamic content management and its "one click" information search engine

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EDMSPortal



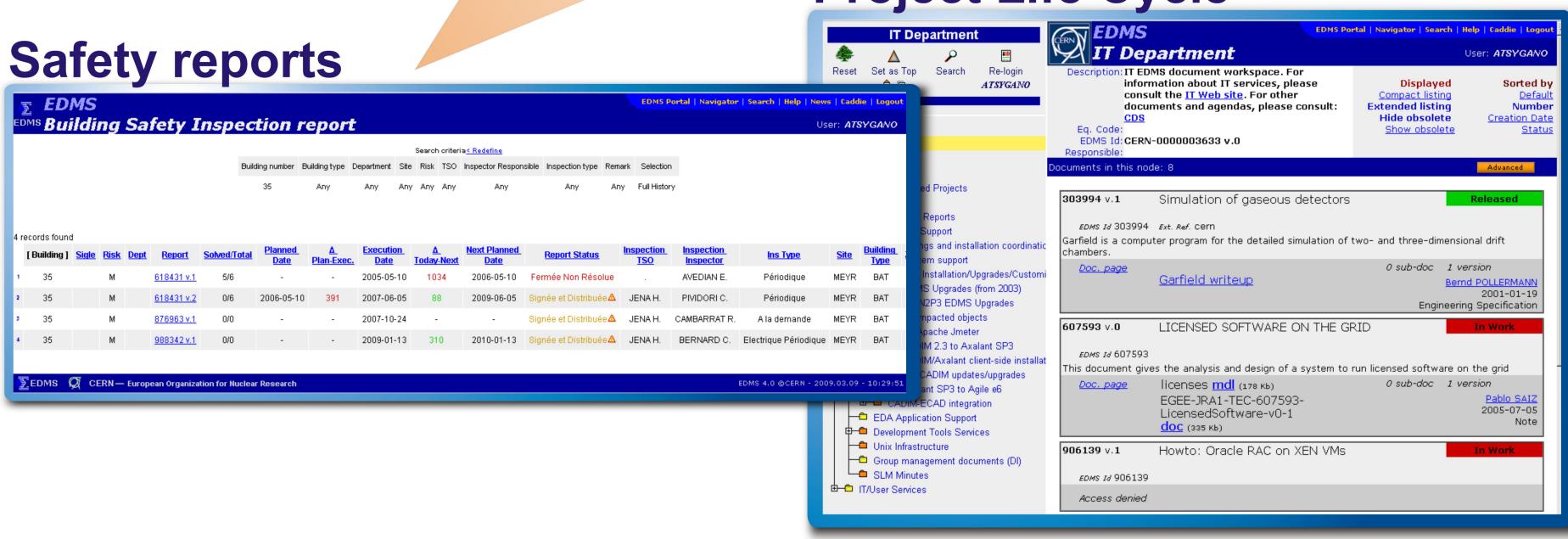
- The categorized menu is a combination of the most important and accessible parts of the EDMS
- Full text data search

system

• EDMS Top 10 - dynamic content of the Web Portal



Project Life Cycle





- Provides a full description of all LHC components throughout their entire lifecycle and make this permanently accessible to all concerned parties.
- Helps finding solutions to problems occurring in the machine by providing asset tracking, configuration management and maintenance management.
- Provides tools to support and help coordinating the globally distributed engineering processes and to facilitate information workflow.
- Establishes a process of knowledge transfer in order to cope with very long lifetime projects; staff replacement, many short-times visitors and large volumes of changing data.





