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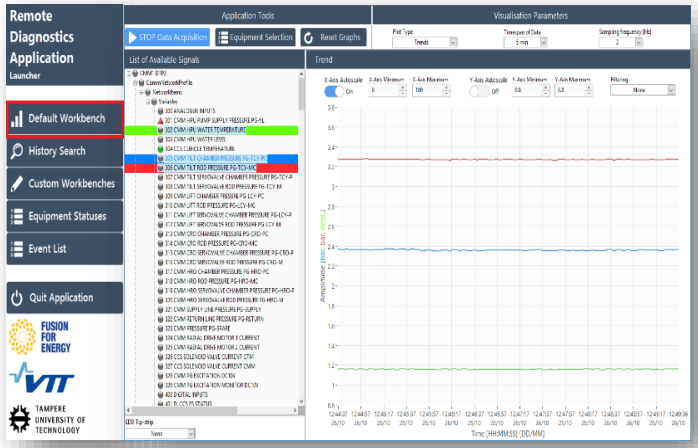
Adaptable Remote Handling Diagnostics Tool

VTT and TAU have developed, with the support of F4E, Euratom-TEKES a software providing a set of tools for diagnostic of Remote Handling systems and allowing incorporation of custom diagnostic functions. This technology could be used in any application that needs remote real time diagnostics such as industrial machinery in mining, energy, industry.



The technology

In Remote Handling applications, it is difficult to know beforehand what data will provide relevant information to prevent failure of the system. For this reason it is important to have a flexible system that allows the creation of new diagnostic rules or diagnostic functions.

Developed by VTT and TAU with the support of F4E, Euratom-TEKES, Remote Diagnostics Application (RDA) is a software for analysing and archiving ITER Remote Handling systems diagnostics data.

An evolving and adaptable diagnostics framework

RDA implements a unique architecture and as a result features an evolving and adaptable diagnostics framework that help operators to monitor performance data, to run diagnostics tests and rules on equipment systems and to analyse historical data. The main benefit is the downtime reduction of the Remote Handling systems by exposing failure conditions and maintenance needs. Also, the solution is flexible enough to accommodate customised diagnostics rules and other diagnostics tests and function.

Remote real-time diagnostics for industrial machinery

In application which are dangerous to humans or in which automation is a must to remain competitive, remote Handling systems are used for maintenance operations. The software developed can be used for diagnosis of industrial machinery in various domains such as mining, forestry, maritime, transport and industrial manufacturing.

Collaboration opportunities

The technology is available through the implementation of pilot integration project or under licensing agreement of the RDA software. Services regarding diagnostic rules definition are also offered.

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