CADIS**N**® Maintenance

An Integrated Solution for Life-cycle Management in Plant Maintenance
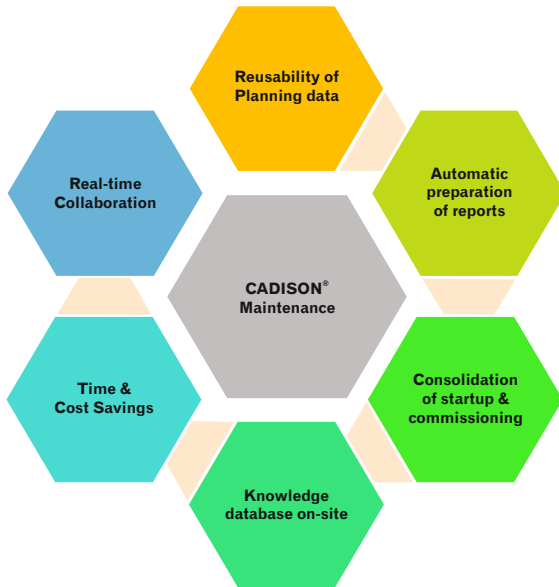

A tool for Planning, Managing and Documenting Technical Inspection and Notifications, Schedule/Planning of maintenance, repairs and other measures for various objects in plant to maintain the operations efficient and reduce breakdowns. It also includes scheduling and tracking deadlines for the next maintenance after service is completed.

CADISON® Maintenance – An Integrated Solution Designed for an Ideal Life-cycle Management for Plant Maintenance

Key Features:

Reusability of Planning data
Real-time Collaboration
Automatic preparation of reports
CADISON® Maintenance
Time & Cost Savings
Consolidation of startup & commissioning
Knowledge database on-site

- All data generated in the design & planning phase e.g., Designation, Equipment tagging, Material name, Order number, Material number, Type number and Manufacturer, etc. can be archived and used in the operational phase – for secure, sustainable plant operations
- The plant designer can expand and optimize the scope of his services by transmitting the object data, drawings and models to the plant operator for further use
- Automatic generation of reports and maintenance task lists & dates for technicians. Also automatic reminder for elimination of defects
- Its open and simple architecture allows an easy way for further integration of customer specific extensions and plant data
- It ensures that entire plant life-cycle is documented and can be traced at any point of time
- Consideration and automatic reminder for order placement in conjunction with the date of test or inspection
- Improve predictive maintenance techniques, maintain the line operational with a reliable data stream and improve reporting to ensure a healthy bottom line

The maintenance tool has been developed in two variants specifically for the maintenance range - CADISON Maintenance Online & CADISON Maintenance Offline. CADISON Maintenance Online has full access to planning data and permits 'to continue the work' in CADISON system. If it is not necessary or needed – to transmit the complete planning data, then working with CADISON Maintenance Offline is preferable. In this case only the maintenance-relevant data will be exported from the CADISON system and delivered to the Maintenance operator for further use.

CADISON Maintenance Online:

- An add-on application that allows for direct access to maintenance related information in CADISON database
- The tool integrates additional properties into the system that allows maintenance intervals to be freely configured and dependencies between them to be determined
- The tool also generates automatic maintenance lists for on-site technicians and customer service personnel, and allows for the use of all CADISON data in the maintenance domain
- Standalone use of CADISON for external access to database files can be enabled online via export and import tools
- Standalone database files are generated and integrated directly via the standard CADISON GUI. The API runtime environment has been retained in the CADISON Maintenance Online application

CADISON Maintenance Offline:

- An add-on tool that enables service engineers at site to view and edit servicing data locally without accessing the main CADISON database
- The application is user friendly, can be readily accessed via a Windows based system and the introduction to the user interface of offline module is easy to learn and use
- The program allows users to edit object data and enter or add maintenance information, without accessing the CADISON system itself
- The tool is designed for daily use by maintenance technicians and installation engineers
- Addition of Customer specific extensions are also feasible as per the organization's requirement


Maintenance in the Scheduler - Operation

Display of objects that were due for maintenance before today's deadline.   Note: 76 maintenance objects   Maintenance browser   ?

Object Class	Installation date	Last smaller service	Next small service	Last large service	Next large service	DB-Object ID	Database	Project
Drive (Actuator)	10/01/2021	---	11/01/2021	---	04/01/2022	14.0.10175	Maintena...	Maintenance_R2102
Drive (Actuator)	10/01/2021	---	11/01/2021	---	04/01/2022	14.0.10175	Maintena...	Maintenance_R2102
Pump	11/01/2021	---	12/01/2021	---	05/01/2022	14.0.10172	Maintena...	Maintenance_R2102
Dirt trap	11/22/2021	---	---	---	---	13.0.280588	Maintena...	Maintenance01
Drive (Actuator)	09/15/2021	---	12/15/2021	---	09/15/2022	13.0.9173	Maintena...	Maintenance01
Pump	---	11/10/2021	09/08/2021	11/10/2021	09/08/2021	13.0.9163	Maintena...	Maintenance01
Drive (Actuator)	09/15/2021	---	12/15/2021	---	09/15/2022	13.0.9173	Maintena...	Maintenance01
Drive (Actuator)	---	---	---	---	---	13.0.9149	Maintena...	Maintenance01
Pump	09/15/2021	---	12/15/2021	---	09/15/2022	13.0.9147	Maintena...	Maintenance01
Drive (Actuator)	---	---	---	---	---	13.0.9149	Maintena...	Maintenance01
Drive (Actuator)	09/10/2021	11/11/2021	02/11/2022	---	9/12/2022	13.0.8622	Maintena...	Maintenance01
Pump	09/10/2021	11/22/2021	02/22/2022	---	---	13.0.8174	Maintena...	Maintenance01
Drive (Actuator)	09/10/2021	11/11/2021	02/11/2022	---	9/12/2022	13.0.8622	Maintena...	Maintenance01
Valve (straight)	---	11/12/2021	02/12/2022	---	---	13.0.7740	Maintena...	Maintenance01
Valve (straight)	---	---	---	---	11/11/2021	13.0.7118	Maintena...	Maintenance01
Vessel	---	---	---	---	---	13.0.7107	Maintena...	Maintenance01
Vessel	---	---	---	---	---	13.0.6647	Maintena...	Maintenance01
Valve (straight)	7/31/2021	8/1/2021	9/1/2021	---	1/3/2022	10.0.393805	Integrat...	Maintenance Project-L
Valve (straight)	07/31/2021	8/1/2021	9/1/2021	---	1/3/2022	10.0.393770	Integrat...	Maintenance Project-L
Valve (straight)	12/2/2021	---	---	---	---	10.0.209916	Integrat...	Maintenance Project-L

CADISON Maintenance - Typical Workflow:

- The Project Manager sets a maintenance flag in Project Engineer for the projects that are subject to maintenance. Maintenance dates such as 'Installation Date' and dates for the 'Next Maintenance' can also be set here
- Preparation of the maintenance data, scheduling the servicing dates for equipments, fittings and objects and selection of the objects for maintenance is done in the Online module and exported through a transfer file to the Offline module for use at the plant site
- The services team at site receives the transfer file in Offline module using a standard Windows system, performs the maintenance activities and updates the details for the objects identified for maintenance using the Offline module and then save the data again in the Transfer file. Then it can be imported back into the CADISON system using Online module
- The 'Inst-Scheduler' has the task of checking all project databases for Due maintenance at a certain interval and displays Due databases. The scheduler is typically linked with the Windows 'Task Scheduler'

The tool generates automatic maintenance lists for on-site technicians and customer service personnel and allows for the use of all CADISON data in the maintenance domain. It also allows to edit object data and enter or add maintenance information, without accessing the CADISON system itself.
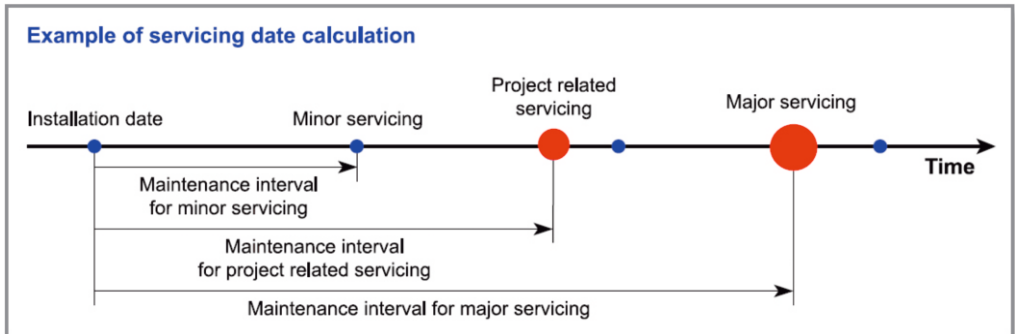
Benefits:

- Automatic generation of maintenance dates and lists for service operators
- Re-usability of data for plant operations and its Life-cycle Management
- Time and Cost Savings through integrated automation with always up-to-date information
- Real-time collaboration with increased Productivity
- Improved Maintenance Data Quality
- Integration with all other CADISON Modules
- Harmonisation and consolidation of startup & commissioning - minimize production losses through reduced downtime