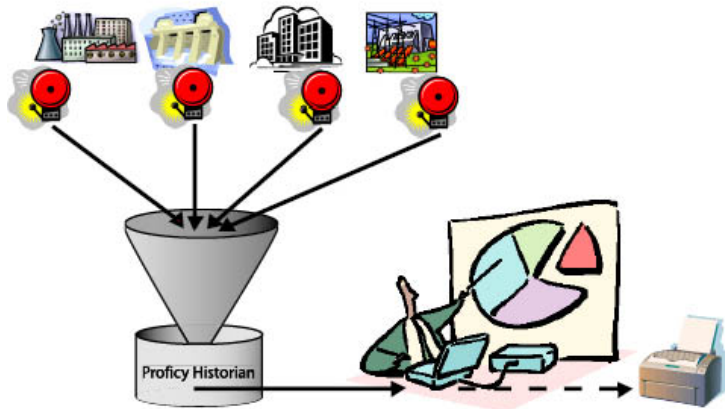


NOVOTEK *AlarmAnalysis*

:: PLANT INFORMATION :: PLANT EXECUTION :: OPERATOR INTERFACE :: CONTROL



NovotekAlarmAnalysis is a tool to analyse historically collected and stored alarms and events. It can help you find problem areas, investigate frequency of alarms, condense large amounts of alarms to one view and get an overview of the total amount of alarms & events in a production site.

Analyse all alarms and events in a user friendly tool.

NovotekAlarmAnalysis is an ActiveX component that you integrate into Proficy iFIX, MS Explorer, MS Excel or any other program that acts as an ActiveX container. You can easily get alarm statistics, view alarms and events separately or together on your demand. Make your own filters, define field to be viewed, analyse specific alarms and much more. Query data and focus in on alarms and events by adapting views on the fly through intuitive point and click selection.

The component has a high level of user configurability, e.g. you can

- :: **DEFINE** and save your own named queries.
- :: **CHOOSE TIME** intervals.
- :: **SET SORT ORDERS** e.g. per alarm severity.
- :: **FILTER DATA** e.g. per area.
- :: **CONFIGURE** viewed columns.
- :: **EXPORT DATA** to e.g. Excel for further analysis or report assembling.
- :: **PRINT REPORTS.**
- :: **MAKE YOUR OWN** programs and VBA scripts connecting to the common objects, methods, properties and events of the alarm analysis object.

NovotekAlarmAnalysis handles alarms and events stored in Proficy Historian with Alarms&Events Collector. Since the Alarms&Events Collector supports the OPC Alarms&Events standard the NovotekAlarmAnalysis can be used to analyse alarms and events from any OPC Alarms&Events compliant product, such as Proficy iFIX and other OPC Alarms&Events servers.



THERE ARE DIFFERENT TYPES OF VIEWS:

- ❖ **ALARM LIST:** A list of all alarms, where each alarm is shown as a single line in a list, e.g. used to see when alarm started and ended without level of severity in between.
- ❖ **ALARM HISTORY:** A list of all alarms, where each event for an alarm is shown on a separate line, e.g. to see the sequence of alarms and its severity.
- ❖ **EVENT HISTORY:** A list of all events, that are not alarms, are shown here.
- ❖ **ALARM AND EVENT HISTORY:** A combined list of both alarms and other events.
- ❖ **ALARM STATISTICS:** A statistic view of alarms with calculated total time and count of alarms.
- ❖ **EVENT STATISTICS:** A statistic view of event that are not alarms with calculated count of events.

Start time	End time	Ack time	Tag	Event text	Start event	End event	Statistics	Level/seq
2006-08-08 12:22:38.000	2006-08-08 12:22:38.000		363	363_LUPM	Change alarm	HE	0	0

Start time	End time	Tag	Event text	Level	Value
2006-08-08 12:22:38.000	2006-08-08 12:22:38.000	363	363_LUPM, CV set to 90 by PI	Operator Process Change	
2006-08-08 12:22:38.000	2006-08-08 12:22:38.000	363	363_LUPM, CV set to 90 by PI	Operator Process Change	
2006-08-08 12:22:38.000	2006-08-08 12:22:38.000	363	363_LUPM is acknowledged by PI	Operator Process Change	

Tag	Total time	Count
363	0:00:00.000	0
HE_LUPM	0:00:00.000	0
LUPM	0:00:00.000	0
LUPM	0:00:00.000	0

The **Filter** is used to filter out only the alarms and events you want to see

The **Sort Order** specifies which order the alarms should be shown in.

The **Columns** selects what data should be shown for each alarm and event.

FACTS

- ❖ A tool to analyse historically collected and stored alarms and events
- ❖ It finds problem areas
- ❖ It investigates frequency of alarms
- ❖ It condense large amounts of alarms to one view
- ❖ It's easy to receive alarm statistics
- ❖ The program can be put into Proficy iFIX, MS Explorer, MS Excel, and many more

Novotek AB has specialists in products and open integrated solutions for automation and industrial IT in all lines of business. We supply products, solutions, consulting, support and training with the Proficy- family of products as base.



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