

TINE Studio (RBE*)

VIEWING ALARM DATA

*Real Best Ever

THE ALARM SYSTEM

✘ Alarms

- + Belong to a *registered device* !
- + Defined by: `/context/server/device` + **alarm code** + **starttime**
- + Have a *history*
 - ✘ Tagged as '*new*', '*transient*', '*oscillating*', '*data changed*', '*heartbeat*', '*terminated*'.
- + Have '*static*' information defined by alarm code
 - ✘ alarm tag, various descriptive texts, url, severity, data format
- + Have '*dynamic*' information
 - ✘ descriptor, alarm time, alarm start time, alarm data
- + **Alarm Message**: *dynamic part* + cross-reference to *static part*.

ALARM SYSTEM

✘ e.g. a magnet alarm :

static information:

dynamic information:

The screenshot shows a software window titled "Alarm Details: Magnets: TTMAG-EF/RD13DUMPB". It is divided into several sections:

- Static Information Table:** A table with two columns: "Property" and "Value".
- Dynamic Information Table:** A table with three columns: "Alarm Descriptor", "Alarm Time", and "Duration".
- Alarm Data:** A text box containing the value "9.225135".
- Buttons:** "Set Alarm Definition" (circled in red) and "Close".

Property	Value
Alarm System	Magnets
Device Server	TTMAG-EF
Alarm Device	RD13DUMPB
Device Text	HauptMagnet
FEC Name	TTMAG-EF
Host Address	
HostName	
Location	28b 2-10
Alarm Text	PS EIN : Sollzustand AUS
Severity	8
Alarm Data Text	Sollwert
Alarm Tag	PS EIN FALSCH
URL	
Code	522
Format	5
Dimension	1
Alarm Region	128 [DUMP]

Alarm Descriptor	Alarm Time	Duration
Heartbeat Oscillating Data C...	08:51:00.795 - Sep 11 CEST	24.3 hr
Heartbeat Oscillating Data C...	08:50:29.456 - Sep 11 CEST	24.3 hr
Heartbeat Oscillating Data C...	08:49:59.170 - Sep 11 CEST	24.3 hr
Heartbeat Oscillating Data C...	08:49:29.891 - Sep 11 CEST	24.3 hr
Heartbeat Oscillating Data C...	08:48:58.559 - Sep 11 CEST	24.3 hr
Heartbeat Oscillating Data C...	08:48:28.303 - Sep 11 CEST	24.2 hr

Alarm Data: Sollwert
9.225135

Buttons: **Set Alarm Definition** (circled in red), **Close**

ALARM SYSTEM

- ✗ *static* alarm definitions:
 - + Given by alarms.csv (or fec.xml or via API)
 - + Can be edited 'on-the-fly'
 - > but changes are volatile !
 - + Best to leave '*alarm system*' = 0 (signals the CAS to apply the alarm system registered for the server issuing the alarm).

▲ Edit Alarm Definition

Any editorial changes will be lost upon the next server restart. Please notify the responsible parties if your edits need to be made permanent!

Context	FLASH	System	Magnets
Server	TTMAG-EF	Format	FLOAT
Data Size	1	Severity	8
Alarm Code	522	Mask	128
Tag	PS EIN FALSCH	Text	PS EIN : Sollzustand AUS
Device Text	HauptMagnet	Data Text	Sollwert
URL			

Add Close

ALARM SYSTEM

The screenshot shows the 'Alarm Viewer: FLASH' application. A menu is open under 'Options', with 'Add To Watch Table...' selected. A red arrow points from this menu item to the 'Add To Alarm Watch Table' dialog box. The dialog box contains the following fields:

- Context:** FLASH
- Severity:** 7
- Server:** QUAD.PILO
- Low Threshold:** 0.0
- Device:** Q1.1UBC2
- High Threshold:** 10.0
- Property:** PILO
- Data Size:** 1
- Format:** INT16

At the bottom of the dialog, there are 'OK' and 'Cancel' buttons. A red warning message is displayed at the top of the dialog:

Any editorial changes will be lost upon the next server restart. Please notify the responsible parties if your edits need to be made permanent!

The background interface shows a table of alarms with columns for System, Device Name, and Message. The status bar at the bottom left indicates '08:45:54: Alarms loaded.'

System	Device Name	Message
Magnets	RD13DUMPC	PS EIN FALSCH
Magnets	RD13DUMPB	PS EIN FALSCH
Magnets	RD13DUMPA	PS EIN FALSCH
System	MAIN_PARAMETER	Link error: TTMAG-MN
System	PYRO.BC2.COARSE	remote error: unavail. srv
System	PYRO.BC2.FINE	remote error: unavail. srv
System	BUNCHES.NUMBER	remote error: ill. property

ALARM SYSTEM

- × Automatic Alarms:

- + 'link_error' alarms (middle layer servers).

- × can suppress if desired

- × Disk space alarms:

- + 'low_disk_space' if given path does not have the registered minimum disk space.

- × Yes, there's an API call.

ALARM SYSTEM

Display Options ...

Alarm Viewer: FLASH

File View Options Navigate Help

Alarms

CENTRA 0/0/2
 ACC 0/0/0
 TCOL 0/0/0
 ECOL 0/0/0
 ORS 0/0/0
 UND 0/0/0
 DUMP 0/0/3
 EXP 0/0/0

Show Active Alarms Only
 Collapse Equal Alarms
 Collapse Alarms Events
 Show Hidden Systems
 Select Alarm Systems
 Sound Notifications (local)
 Test Sound (local)

Error: 0 Warning: 7

Alarm Display: Live Archive

Priority >= 0 Selected/Total No. of Alarms: 7/7 Active Alarms Only

System	Device Name	Message	Sev	Alarm Descriptor	Alarm Time	Duration
Magnets	RD13DUMPA	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:00:58.455 - Sep 11 CEST	24.4 hr
Magnets	RD13DUMPC	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:00:48.352 - Sep 11 CEST	24.4 hr
Magnets	RD13DUMPB	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:00:36.206 - Sep 11 CEST	24.4 hr
System	MAIN_PARAMETER	Link error: TTmag-MN	8	Heartbeat	08:55:47.249 - Sep 11 CEST	65.9 days
System	PYRO_BC2.COARSE	remote error: unavail. srv	8	Heartbeat Data Changed	08:51:48.141 - Sep 11 CEST	107.0 days
System	PYRO_BC2.FINE	remote error: unavail. srv	8	Heartbeat	08:51:43.136 - Sep 11 CEST	107.0 days
System	BUNCHES.NUMBER	remote error: ill. property	8	Heartbeat Data Changed	08:51:21.123 - Sep 11 CEST	51.9 days

08:45:54: Alarms loaded.

ALARM SYSTEM

Archive Mode ...

Alarm Viewer: FLASH

File View Options Navigate Help

Alarms for: FLASH

CENTR...
6/0/70

GUN
0/0/2

BC
0/0/74

ACC
0/0/12

TCOL
0/0/0

ECOL
0/0/0

ORS
0/0/0

UND
0/0/0

DUMP
0/0/264

EXP
0/0/24

Alarm Display

Live Archive

Fatal: **6** Error: **0** Warning: **446**

Fri Sep 11 0... Warning Severity >= 0 Selected/Total No. of Alarms: 452/452 Active Alarms

Magnets	6	0	200	Feedbacks	0	0	0	System	0	0	110
Kly + Mod	0	0	0	Timing	0	0	0	Hardware	0	0	0
LLRF	0	0	0	BPMs	0	0	136	Services	0	0	0
Kickers	0	0	0	BLMs	0	0	0	Alarm Server	0	0	0
Vacuum	0	0	0	Collimators	0	0	0	Archive Server	0	0	0
BIS	0	0	0	Infrastructure	0	0	0	Radiation	0	0	0

Calendar Interval

September 2015

Mon	Tue	Wed	Thu	Fri	Sat	Sun
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

Alarm Count

The number of alarms with Severity >= 0

452

System	Device Name	Message	Sev	Alarm Descriptor	Alarm Time	Duration
Magnets	RD13DUMPB	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:05:39.442 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPA	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:05:31.338 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPC	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:05:21.232 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPB	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:05:09.078 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPA	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:05:01.988 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPC	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:04:51.872 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPB	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:04:39.798 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPA	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:04:30.693 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPC	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:04:20.561 - Sep 11 CEST	24.5 hr

09:05:42: Alarms loaded.

ALARM SYSTEM

Subsystem Options ...

Alarm Viewer: FLASH

File View Options Navigate Help

Alarms for: FLASH

CENTR...
6/0/70

GUN
0/0/2

BC
0/0/74

ACC
0/0/12

TCOL
0/0/0

ECOL
0/0/0

ORS
0/0/0

UND
0/0/0

DUMP
0/0/264

EXP
0/0/24

Alarm Display

Live Archive

Fatal	Error	Warning		Alarm Display
6	0	446		<input type="radio"/> Live <input checked="" type="radio"/> Archive

Fri Sep 11 0... Warning Severity >= 0 Selected/Total No. of Alarms: 452/452 Active Alarms

System	Fatal	Error	Warning	Subsystem	Active
Magnets	0	0	0	System	0 0 110
Kly + Mod	0	0	0	Hardware	0 0 0
LLRF	0	0	136	Services	0 0 0
Kickers	0	0	0	Alarm Server	0 0 0
Vacuum	0	0	0	Archive Server	0 0 0
BIS	0	0	0	Radiation	0 0 0

Calendar Interval

September 2015

Mon	Tue	Wed	Thu	Fri	Sat	Sun
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

Alarm Count

The number of alarms with Severity >= 0

452

System	Device Name	Message	Sev	Alarm Descriptor	Alarm Time	Duration
Magnets	RD13DUMPB	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:05:39.442 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPA	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:05:31.338 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPC	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:05:21.232 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPB	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:05:09.078 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPA	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:05:01.988 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPC	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:04:51.872 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPB	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:04:39.798 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPA	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:04:30.693 - Sep 11 CEST	24.5 hr
Magnets	RD13DUMPC	PS EIN FALSCH	8	Heartbeat Oscillating Data Ch...	09:04:20.561 - Sep 11 CEST	24.5 hr

09:05:42: Alarms loaded.

ALARM SYSTEM

Alarm Analysis

Alarm Analysis



Order By:

Device
 Server
 Code
 Severity

#	Device	Server	Code	Seve...	Tag	Al. Data	Al. Data Text	Descriptor	St. Time	Duration
1	- -	- -	1012	- -	device error	ADC error at ch X		Terminated	00:06:23.967 - Sep 11	3 sec
2	3EXP	BPM.8	1001	- -	not available	unable to read raw value		Terminated	08:35:10.967 - Sep 11	3 sec
3	- -	- -	- -	- -	not available	unable to read raw value		Terminated	00:05:48.967 - Sep 11	3 sec
4	- -	- -	- -	- -	not available	unable to read raw value		Terminated	00:54:38.967 - Sep 11	3 sec
5	- -	- -	1012	- -	device error	ADC error at ch X		Terminated	08:35:10.967 - Sep 11	3 sec
6	- -	- -	- -	- -	device error	ADC error at ch X		Terminated	00:05:48.967 - Sep 11	3 sec
7	- -	- -	- -	- -	device error	ADC error at ch X		Terminated	00:54:38.967 - Sep 11	3 sec
8	5DBC2	BPM.2	1001	- -	not available	unable to read raw value		Terminated	00:06:23.967 - Sep 11	3 sec
9	- -	- -	1012	- -	device error	ADC error at ch X		Terminated	00:06:23.967 - Sep 11	3 sec
10	7DBC2	- -	1001	- -	not available	unable to read raw value		Terminated	00:06:23.967 - Sep 11	3 sec
11	- -	- -	1012	- -	device error	ADC error at ch X		Terminated	00:06:23.967 - Sep 11	3 sec
12	9DBC2	- -	1001	- -	not available	unable to read raw value		Terminated	00:06:23.967 - Sep 11	3 sec
13	- -	- -	1012	- -	device error	ADC error at ch X		Terminated	00:06:23.967 - Sep 11	3 sec
14	9DUMP	BPM.8	1001	- -	not available	unable to read raw value		Terminated	08:35:10.967 - Sep 11	3 sec
15	- -	- -	- -	- -	not available	unable to read raw value		Terminated	00:05:48.967 - Sep 11	3 sec
16	- -	- -	- -	- -	not available	unable to read raw value		Terminated	00:10:19.967 - Sep 11	4 sec
17	- -	- -	- -	- -	not available	unable to read raw value		Terminated	00:54:38.967 - Sep 11	3 sec
18	- -	- -	1012	- -	device error	ADC error at ch X		Terminated	08:35:10.967 - Sep 11	3 sec
19	- -	- -	- -	- -	device error	ADC error at ch X		Terminated	00:05:48.967 - Sep 11	3 sec
20	- -	- -	- -	- -	device error	ADC error at ch X		Terminated	00:10:19.967 - Sep 11	4 sec
21	- -	- -	- -	- -	device error	ADC error at ch X		Terminated	00:54:38.967 - Sep 11	3 sec
22	9EXP	- -	1001	- -	not available	unable to read raw value		Terminated	08:35:10.967 - Sep 11	3 sec
23	- -	- -	- -	- -	not available	unable to read raw value		Terminated	00:05:48.967 - Sep 11	3 sec
24	- -	- -	- -	- -	not available	unable to read raw value		Terminated	00:54:38.967 - Sep 11	3 sec
25	- -	- -	1012	- -	device error	ADC error at ch X		Terminated	08:35:10.967 - Sep 11	3 sec
26	- -	- -	- -	- -	device error	ADC error at ch X		Terminated	00:05:48.967 - Sep 11	3 sec
27	- -	- -	- -	- -	device error	ADC error at ch X		Terminated	00:54:38.967 - Sep 11	3 sec
28	10DUMP	- -	1001	- -	not available	unable to read raw value		Terminated	08:35:10.967 - Sep 11	3 sec
29	- -	- -	- -	- -	not available	unable to read raw value		Terminated	00:05:48.967 - Sep 11	3 sec
30	- -	- -	- -	- -	not available	unable to read raw value		Terminated	00:10:19.967 - Sep 11	4 sec
31	- -	- -	- -	- -	not available	unable to read raw value		Terminated	00:54:38.967 - Sep 11	3 sec
32	- -	- -	1012	- -	device error	ADC error at ch X		Terminated	08:35:10.967 - Sep 11	3 sec
33	- -	- -	- -	- -	device error	ADC error at ch X		Terminated	00:05:48.967 - Sep 11	3 sec

Refresh

Save

Close

ALARM SYSTEM

Alarm List Options ...

Alarm Viewer: SITE

File View Options Navigate Help

Alarms for: SITE

Fatal	Error	Warning
0	0	8

Fri Sep 11 09:17:20 Warning Severity >= 0 Selected/Total No. of Alarms: 8/8 Active Alarms Only

Personnel	0 0 0	Orb.Corr.	0 0 0	System	0 0 7
Interlock	0 0 0	Network	0 0 1	Hardware	0 0 0
Infrastructure	0 0 0	Weather	0 0 0	Services	0 0 0

System	Device Name	Message	Sev	Alarm Descriptor	Alarm Time	Duration
System	SCOPEDATA.2	CPU too high	Warning	...	09:17:20.615 - Sep 11 CEST	0 sec
System	D2TRIM.3	CPU too high	Warning	...	09:17:19.355 - Sep 11 CEST	0 sec
System	BrowserDisplayer.5678	CPU too high	Warning	...	09:17:00.000 - Sep 11 CEST	0 sec
System	WD_accdxfglobals	Not Responding	Warning	...	09:16:47.000 - Sep 11 CEST	21.3 hr
System	WD_ACCW7D2SRV7	Not Responding	Warning	...	09:16:46.000 - Sep 11 CEST	21.3 hr
System	WD_accdxl2lkr1	Not Responding	Warning	...	09:16:27.315 - Sep 11 CEST	0 sec
System	csBadgersSet	CPU too high	Warning	...	09:16:27.315 - Sep 11 CEST	0 sec
Network	Network.IEC	Error Counter is increa	Warning	...	09:14:21.003 - Sep 11 CEST	14.0 days

09:15:18: Alarms loaded.

ALARM SYSTEM

✗ Availability

- + server : “/*<context>*/ALARMSTATE”
- + monitor *fatal alarms* for all alarm systems from CAS.
- + At least 1 alarm => system *NOT AVAILABLE*

The screenshot shows the Java Instant Client interface. The title bar reads "Java Instant Client". The menu bar includes "File", "Options", "Data Access", "Monitor Options", "Debug Options", and "Help".

The main interface is divided into several sections:

- Device Context:** A dropdown menu showing "PETRA".
- Device Subsystem:** A dropdown menu showing "ALL".
- Device Server:** A dropdown menu showing "ALARMSTATE".
- Device Name:** A dropdown menu showing "Magne" (part of "Magne" from the image).
- Device Property:** A dropdown menu showing "NOTREADYCOUNT".
- Data Size:** A text input field containing "100".
- Data Type:** A dropdown menu showing "INT32".
- Not Ready State counter:** A text input field containing "Not Ready State counter".
- Show Stock Properties:** An unchecked checkbox.
- GROUPS:** A list of groups including "NOTREADYCOUNT", "ISREADY", "MEMBERS", "NOTREADYRUNNING", and "NUMALARMS".
- Draw Mode:** A dropdown menu showing "Textbox".
- Autoscale:** A checked checkbox.
- Log Scale:** An unchecked checkbox.
- History:** An unchecked checkbox.
- Suggest Decorations:** A checked checkbox.
- Input Pane:** An unchecked checkbox.

The main display area shows the following data:

```
/PETRA/ALARMSTATE/Magne NOTREADYCOUNT @ 16:34:35.0
(0,0) Magne: 435494
(0,1) H.Korrekt.Mag.: 2653243
(0,2) V.Korrekt.Mag.: 2317531
(0,3) e-Weg Korr.Mag.: 0
(0,4) HF: 0
(0,5) Piloth.-Wasser: 0
(0,6) Temperaturen: 429
(0,7) Kicker-Septa: 0
(0,8) Orbit Feedback: 0
(0,9) Feedback: 0
(0,10) PIT: 0
(0,11) Timing/TopUp: 0
```


ALARM SYSTEM

Disabled Alarms ...

Alarm Viewer: PETRA

File View Options Navigate Help

Alarms for: PETRA

CENTRAL 0/0/0 **TRANSPORT** 0/0/0 **EAST** 0/0/0 **SOUTH** 0/0/0 **WEST** 0/0/0 **NORTH** 0/0/0

Fatal Error Warning

0 **0** **0**

Alarm Display: Live Archive

Fri Sep 11 09:12:29 Warning Severity >= 0 Selected/Total No. of Alarms: 0/0 Active Alarms Only (3 Disabled)

Magnete	0 0 0	Kicker-Septa	0 0 0	Kontrollen	1 0 0 0
H.Korrekt.Mag.	0 0 0	Orbit Feedback	0 0 0	Front-End	1 0 0 0
V.Korrekt.Mag.	0 0 0	Feedback	0 0 0	Diagnose	0 0 0
e-Weg Korr.Mag.	0 0 0	PIT	0 0 0	Interlock	0 0 0
HF	0 0 0	Timing&TopUp	0 0 0	Strahlung	0 0 0
Piloth.-Wasser	0 0 0	Machine Prot.	0 0 0
Temperaturen	0 0 0	Kolli.&Scraper	0 0 0

System Device Name Message Sev Alarm Descriptor Alarm T...

09:12:29: Alarms loaded.

- Disable (Suppress) Active Alarms
- Show Disabled (Suppressed) Alarms
- Disabled Alarms
- Alarm Analysis
- Deselect All
- Show All Servers in this Subsystem
- Suspend

ALARM SYSTEM

- ✗ See which alarms have been disabled
 - + By whom ...
 - + Alarm is currently active ?

Enable	Server	Device Name	Message	Sev	Comment	Disabled By	Disabled At	Active
<input type="checkbox"/>	VAC.ION_PUMP	SEK.ALL	offline	1	offline ist kein alarm!	DUVAL	15:29:13.000 - Jun 15	ACTIVE

ALARM SYSTEM

Disable any currently active Alarms ...

Alarm Viewer: SITE

File View Options Navigate Help

Alarms for: SITE

Fatal	Error	Warning
0	0	5

Fri Sep 11 12:10:14 Warning Severity >= 0 Selected/Total No. of Alarms: 5/5 Active Alarms Only

Personnel	0 0 0	Orb.Corr.	0 0 0	System	0 0 4
Interlock	0 0 0	Network	0 0 1	Hardware	0 0 0
Infrastructure	0 0 0	Weather	0 0 0	S	0 0 0

Disabled Alarms

Alarm Analysis

Deselect All

Show All Servers in this Subsystem

Suspend

Disable (Suppress) Active Alarms

Disable (Suppress) All Current Active Alarms

System	Device Name	Message	Sev	Alarm Descriptor	Alarm Time	Duration
System	HasyAlarms4.94	CPU too high	3	New Transient Terminated	12:10:09.377 - Sep 11 CEST	0 sec
System	WD_acdxxfglobals	Not Responding	7	Heartbeat	11:56:58.000 - Sep 11 CEST	24.0 hr
System	WD_ACCW7D2SRV7	Not Responding	7	Heartbeat	11:56:56.000 - Sep 11 CEST	24.0 hr
System	WD_acdxi2lkr1	Not Responding	7	Heartbeat	11:56:50.000 - Sep 11 CEST	24.0 hr
Network	Network.IEC	Error Counter is increasing	3	Heartbeat	11:54:29.002 - Sep 11 CEST	14.1 days

09:15:18: Alarms loaded.

ALARM SYSTEM

- ✘ For all devices or just the one showing ...
- ✘ Automatically re-enable when the current alarm is terminated ?

Disable alarms for alarm system Network in context SITE

Select the alarms you wish to disable (* indicates a required field)

User*:

Reason for disabling the selected active alarms*:

The disabled alarms will be suppressed in the display, and not be accounted for in the availability statistics.

System	Device Name	Message	Disable	Device Selection	Automatic Enable
Network	Network.IEC	Error Counter is increasing	<input checked="" type="checkbox"/>	<input checked="" type="radio"/> This Device <input type="radio"/> All Devices	<input checked="" type="radio"/> Enable alarm when de... <input type="radio"/> No automatic enable

OK Cancel

ALARM SYSTEM

- ✘ Also view alarms in
 - + FEC Remote Panel
 - + Operation History Overview