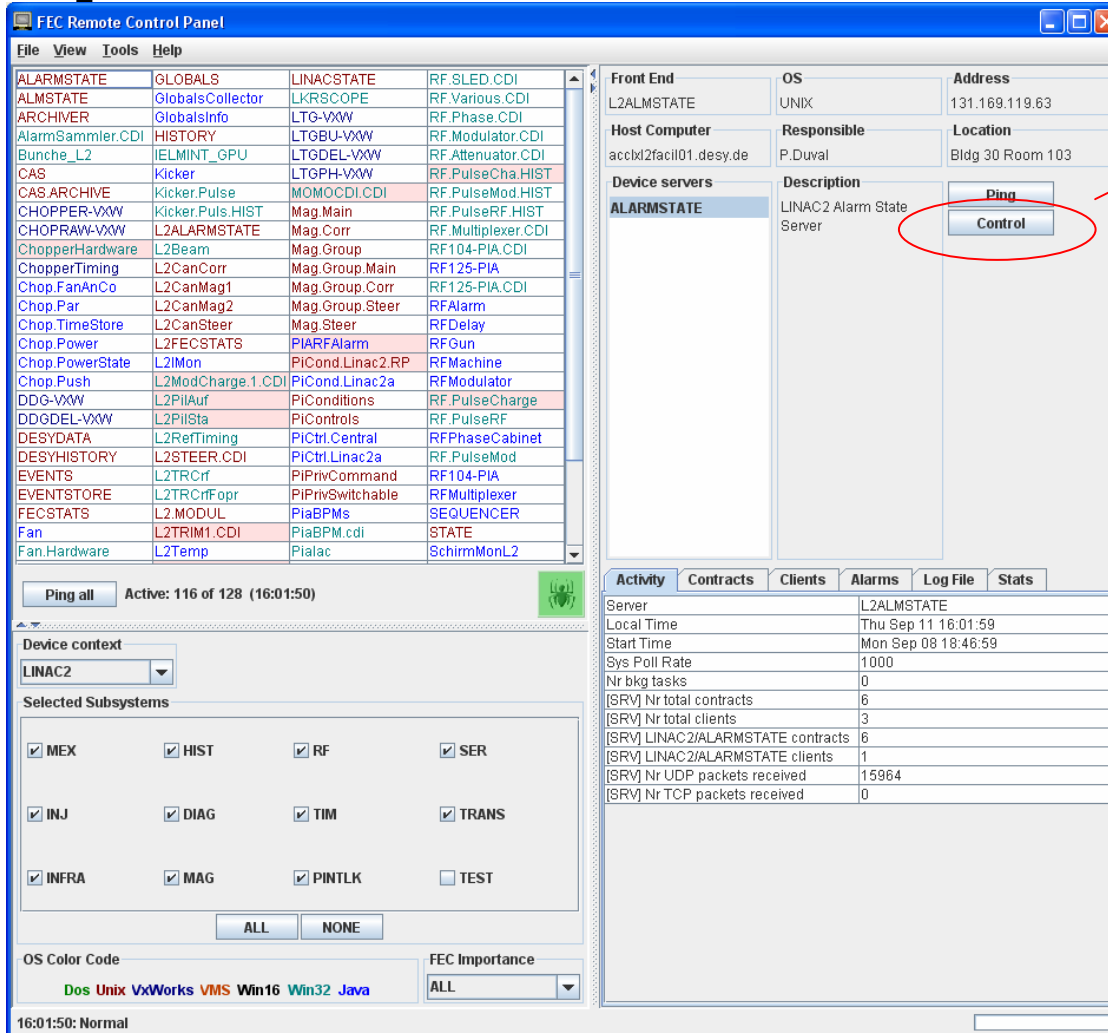




# Central Services News

# FEC Remote Panel:



Also a “Restart” button (hidden), BUT ...

Windows:

- Must have a watchdog’ running; watchdog must list the FECNAME as an alias.

Linux/Unix:

Must have autoproc running; security must allow the clients subnet; autoproc must have the FECNAME as the process tag name.

VxWorks:

‘control’ telnets to the ip address.

‘restart’ requires a daemon process

# ENS Administration

The screenshot displays the ENS Administration application window. The interface is divided into several panels:

- Administration Panel:**
  - Available contexts:** A dropdown menu showing "DESY2".
  - Registered FECs:** A list of FECs including D2STATSRV, D2Sequencer, D3Strahlung.2, GENS, GLOBALS.3, IEARCALM.5.100, IEARCALM.5, IECOOL.10, IECOOL.11, IEVAC.12, IEVAC.4 (highlighted), IEVAC.9, L2TEMP.14, LTG-SRV1, and LWGBPM.
  - Buttons:** "Add FEC" and "Remove FEC".
- Fec importance:** A dropdown menu set to "IMPORTANT" with a "Set" button.
- Registered Device Servers:** A list of servers including IEVAC, IEVAC\_D2, IEVAC\_L2, IEVAC\_OPR, IEVAC\_SV, and IEVAC\_TDC.
- Go To Fec for Server:** A dropdown menu set to "IEVAC".
- Registered Groups:** A list of groups including Mag.Group (highlighted), PiConditions, PiPrivSwitchable, PiPrivCommand, and PiControls.
- Buttons:** "Add Alias", "Remove Alias", and "Add Group".

**Fec Information Panel:**

Description	Getterpumpen
OS	WIN32
Responsible	W.Gerhardt
Location	Bldg 30 Rm 103
Ver	4.00.0002
IP	131.169.154.229
Port Offset	4
Host Name	AccXpD2R4e.desy.de

**Group Members:**

- Mag.Group.Main
- Mag.Group.Corr

**Buttons:** "Add Member" and "Remove Member".

At the bottom left, a status bar reads: "16:24:37: FEC info loaded." There is also an empty input field at the bottom right.

# [ Alarm System ]

- Finally undertaking the mapping of doocs and tine alarms !
  - Catch setalarm() on a doocs server and map to SetAlarm() in tine
  - Map selected alarms at the tine CAS and submit to the corresponding doocs error server.

# Alarm Viewer:

Alarm Viewer: LINAC2

File View Options Navigate Help

Fatal: 3    Error: 4    Warning: 2

Thu Sep 11 15:58:46    Warning Severity >= 0    Selected/Total Number of Alarms: 9/9    Terminated Alarms Includ...

System	Fatal	Error	Warning	Device Name	Message	Sev	Alarm Desc...	Al
Magnete	0	1	1	Kicker-Septa			Kontrollen	
Korrekt.Mag.	0	0	1	Chopper			Front-End	
Steerer	0	0	0	Timing	Timing, Fatal: 0, Error: 0, Warning: 0		Diagnose	
PIA-HF	0	0	0	Temperaturen			L2-Protokoll	
L2-HF	1	0	0	Piloth.-Wasser			Interlock	
				Vakuum		1	0	0

System	Device Name	Message	Sev	Alarm Desc...	Al
L2-Protokoll	Alarm05	Klystron HV 5 ist zu gering.	15	Heartbeat	15:48:15
L2-HF	Alarm05	Klystron HV 5 ist zu gering.	15	Heartbeat	15:48:15
L2-Protokoll	LncSumMidgModDoors	Modulator Doors	9	New	15:41:04
Magnete	FOC6-7	PS IST-SOLL WARNUNG	4	Data Chan...	15:02:57
Magnete	FOC6-7	PS AUS FEHLER	8	Data Chan...	15:00:11
Korrekt.Mag.	SHZ1	PS IST-SOLL WARNUNG	4	Terminated	14:40:45
L2-Protokoll	LncSumMidgKlystFoc	Klystron Focus	9	Terminated	14:24:47
Vakuum	Mod-5	Getterpumpe aus	15	Terminated	14:23:32
L2-Protokoll	Mod-5	Getterpumpe aus	9	Terminated	14:23:32

15:58:44: Alarms loaded.

Alarm Details: Magnete: Mag.Main/FOC6-7

Property	Value
Alarm System	Magnete
Device Server	Mag.Main
Alarm Device	FOC6-7
Device Text	HauptMagneten PSC1 Typ
Alarm Text	PS IST-SOLL : Warnung
Severity	4
Alarm Data Text	
Alarm Tag	PS IST-SOLL WARNUNG
URL	
Code	524
Format	3
Dimension	4
Mask	0

Alarm Descriptor	Alarm Time	Duration
Data Changed Terminated	15:02:57.482 - Sep 11	1.4 min
Data Changed	15:02:37.482 - Sep 11	1.0 min
Data Changed	15:02:22.351 - Sep 11	50 sec
Data Changed	15:02:16.317 - Sep 11	44 sec
Data Changed	15:02:16.317 - Sep 11	39 sec
Data Changed	15:01:51.051 - Sep 11	19 sec
Data Changed	15:01:41.002 - Sep 11	9 sec
Data Changed	15:01:36.956 - Sep 11	5 sec
New	15:01:31.916 - Sep 11	0 sec
Data Changed Terminated	14:42:51.351 - Sep 11	1.2 min
Data Changed	14:42:31.351 - Sep 11	55 sec

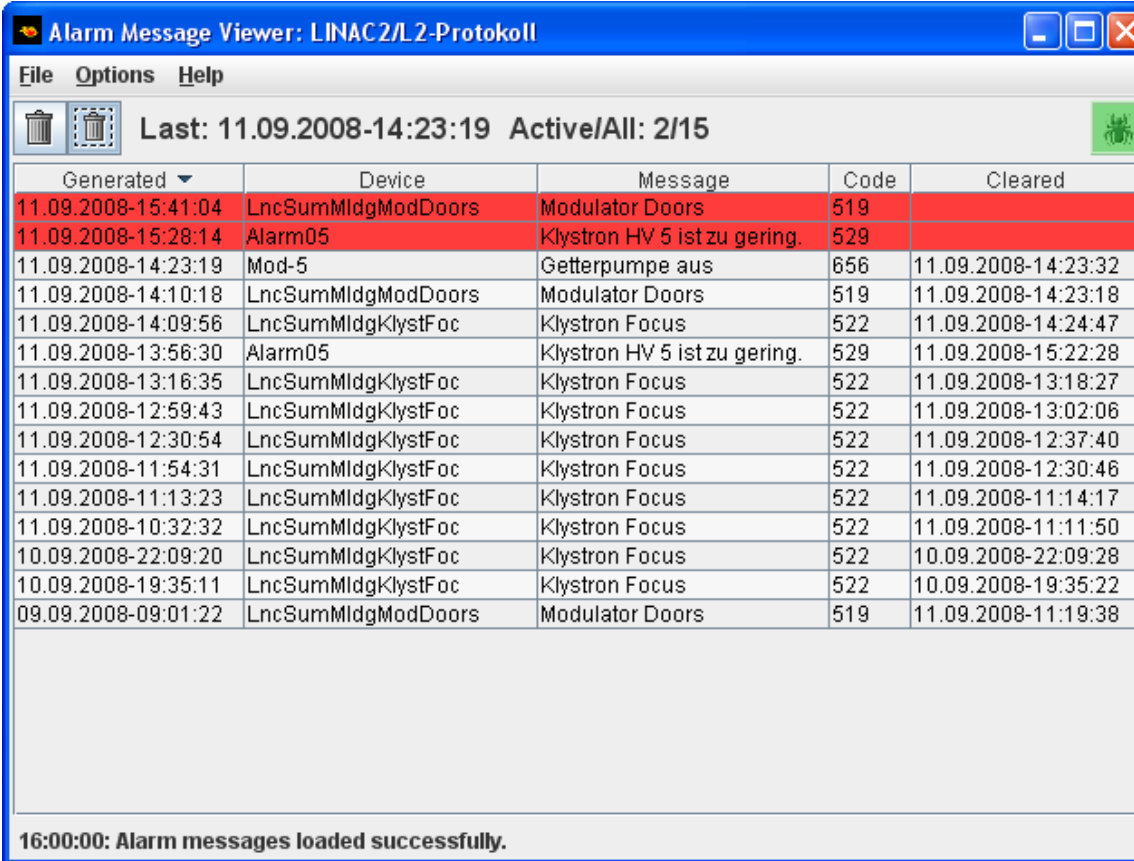
  

Alarm Data:

-575  
0  
500  
134776240

Close

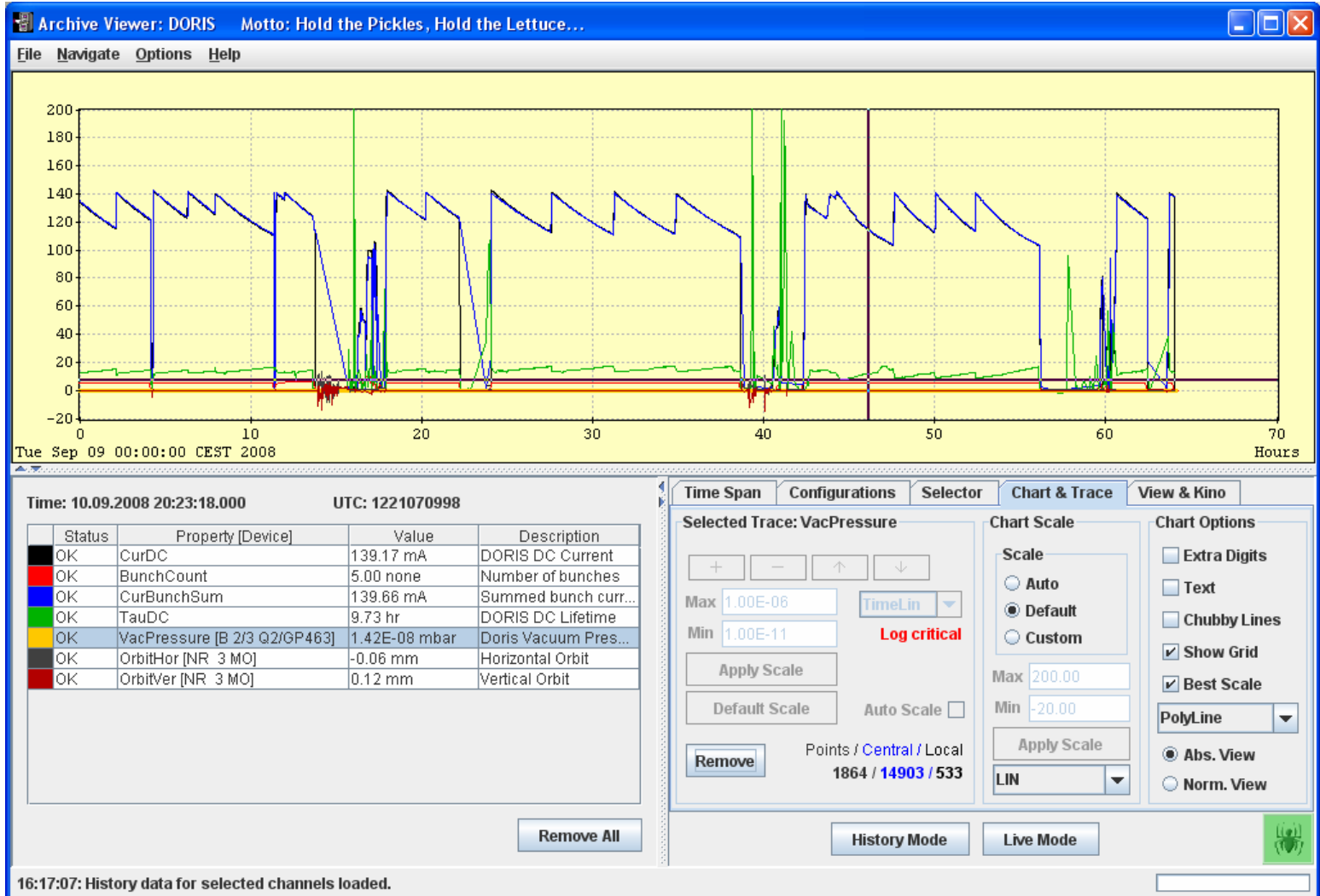
# Alarm Message Viewer:



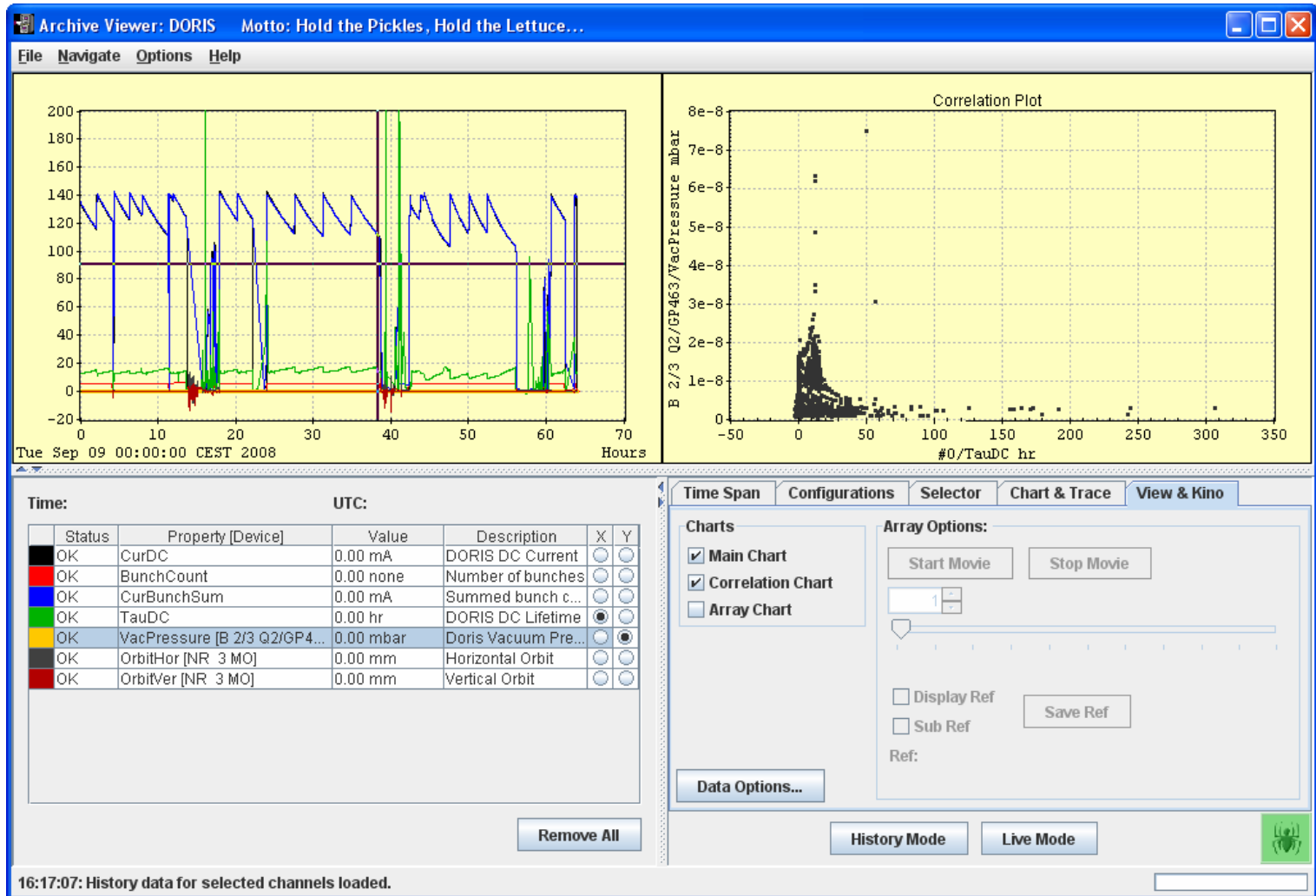
Generated	Device	Message	Code	Cleared
11.09.2008-15:41:04	LncSumMldgModDoors	Modulator Doors	519	
11.09.2008-15:28:14	Alarm05	Klystron HV 5 ist zu gering.	529	
11.09.2008-14:23:19	Mod-5	Getterpumpe aus	656	11.09.2008-14:23:32
11.09.2008-14:10:18	LncSumMldgModDoors	Modulator Doors	519	11.09.2008-14:23:18
11.09.2008-14:09:56	LncSumMldgKlystFoc	Klystron Focus	522	11.09.2008-14:24:47
11.09.2008-13:56:30	Alarm05	Klystron HV 5 ist zu gering.	529	11.09.2008-15:22:28
11.09.2008-13:16:35	LncSumMldgKlystFoc	Klystron Focus	522	11.09.2008-13:18:27
11.09.2008-12:59:43	LncSumMldgKlystFoc	Klystron Focus	522	11.09.2008-13:02:06
11.09.2008-12:30:54	LncSumMldgKlystFoc	Klystron Focus	522	11.09.2008-12:37:40
11.09.2008-11:54:31	LncSumMldgKlystFoc	Klystron Focus	522	11.09.2008-12:30:46
11.09.2008-11:13:23	LncSumMldgKlystFoc	Klystron Focus	522	11.09.2008-11:14:17
11.09.2008-10:32:32	LncSumMldgKlystFoc	Klystron Focus	522	11.09.2008-11:11:50
10.09.2008-22:09:20	LncSumMldgKlystFoc	Klystron Focus	522	10.09.2008-22:09:28
10.09.2008-19:35:11	LncSumMldgKlystFoc	Klystron Focus	522	10.09.2008-19:35:22
09.09.2008-09:01:22	LncSumMldgModDoors	Modulator Doors	519	11.09.2008-11:19:38

16:00:00: Alarm messages loaded successfully.

# Archive Viewer

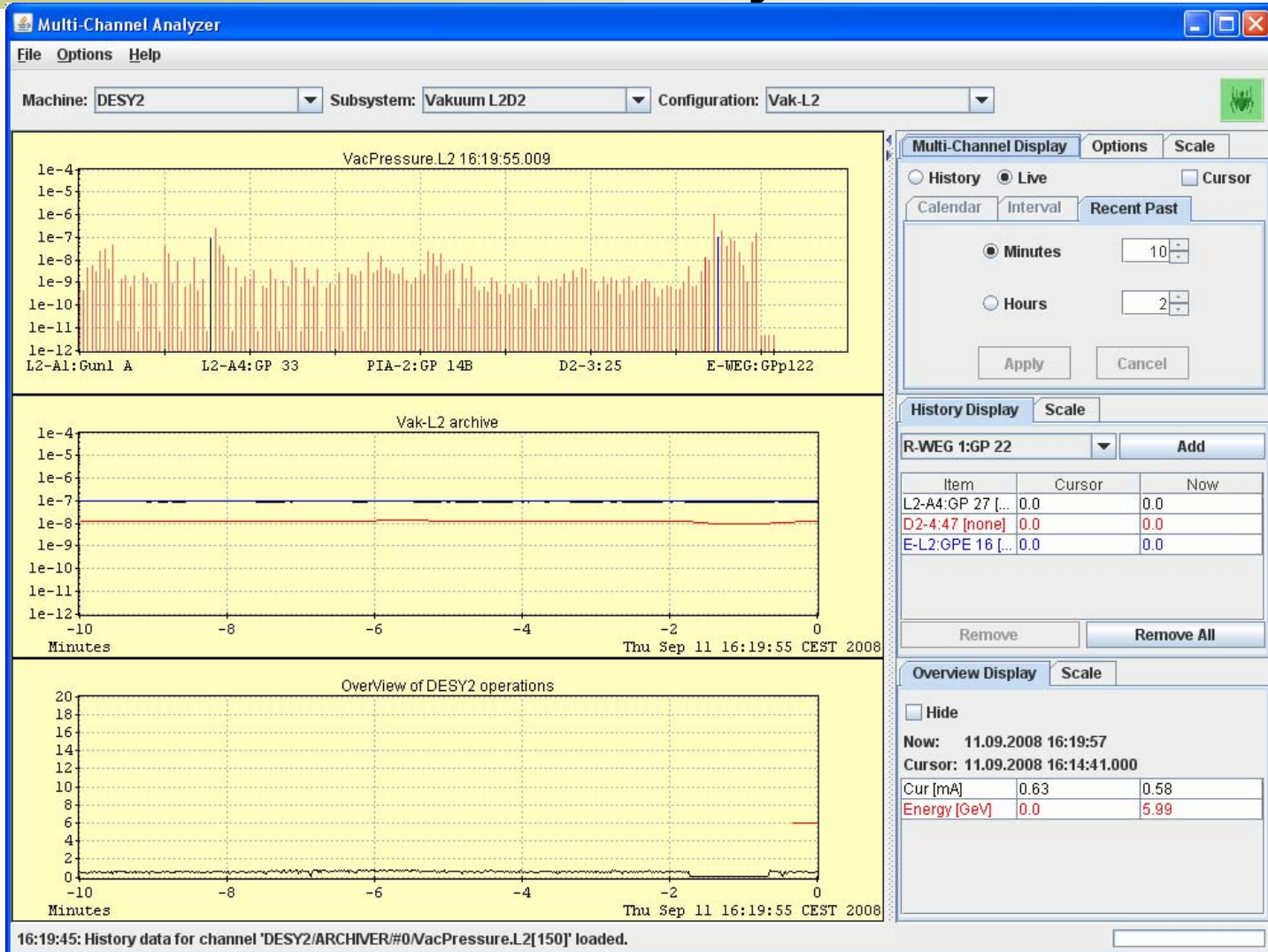


# Archive Viewer

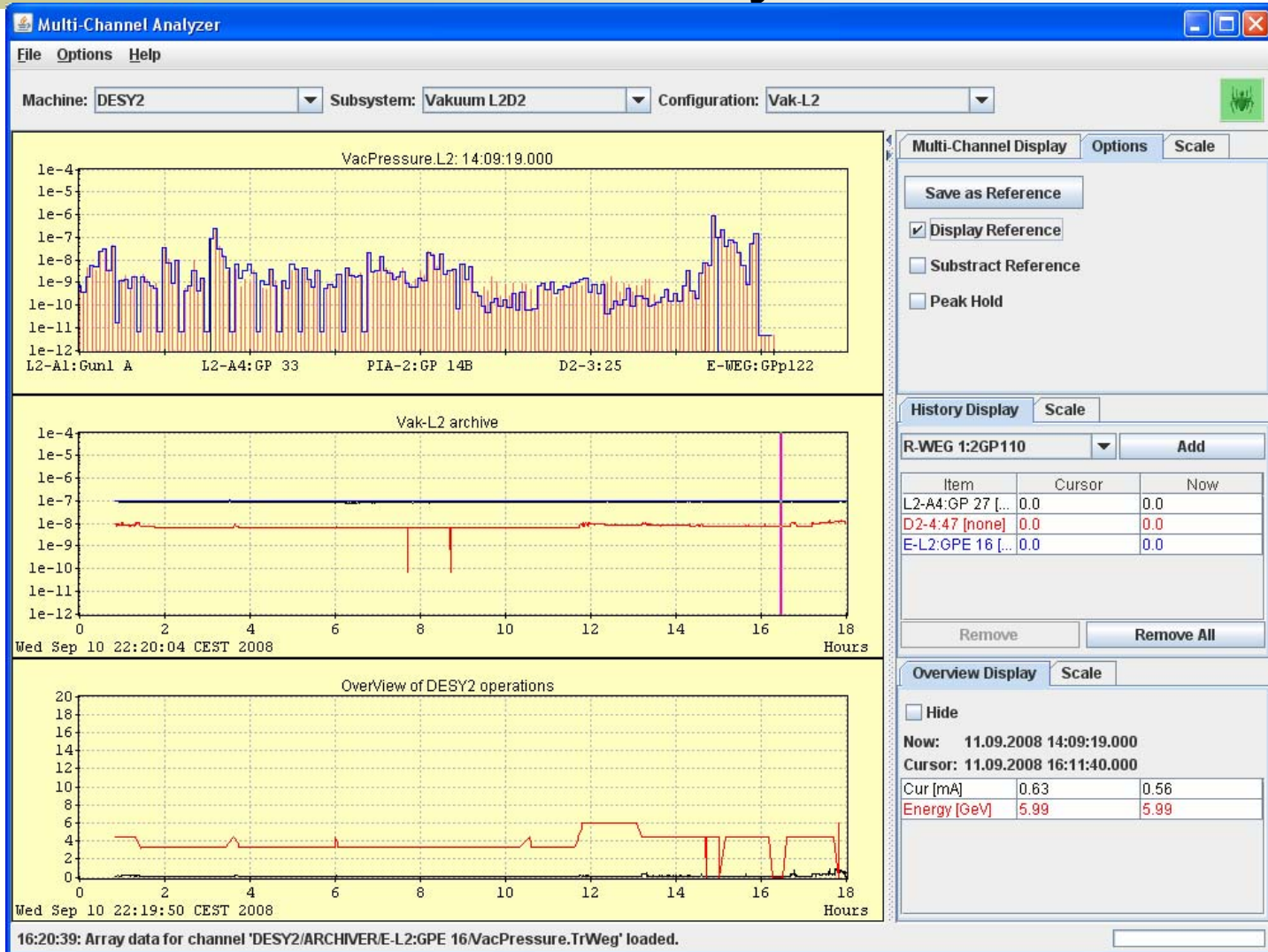




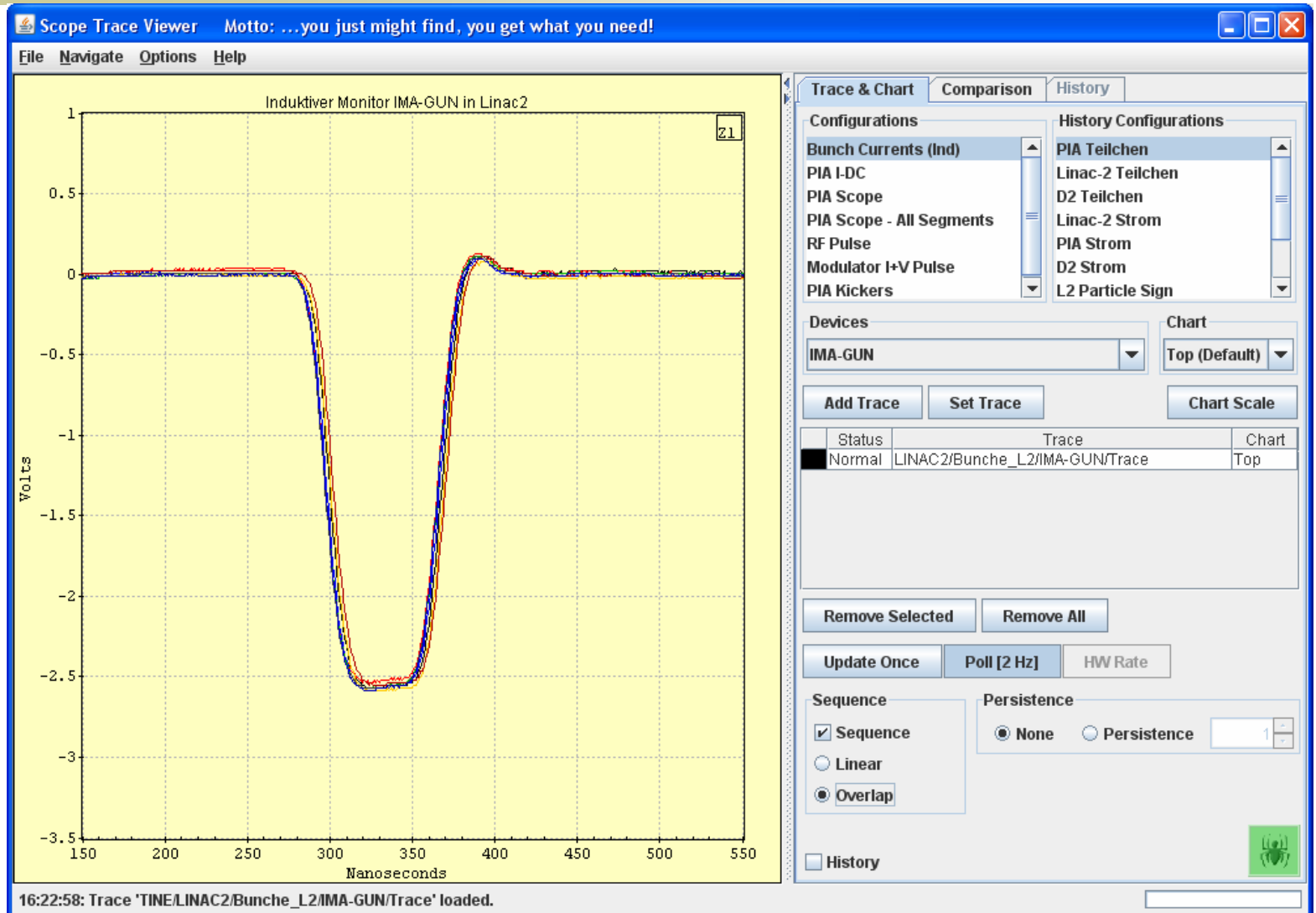
# Multi-Channel Analyzer



# Multi-Channel Analyzer



# Scope Trace Viewer



# Trend Chart Viewer

Device manager for DESY Septum and Kicker

Datei Optionen Hilfe

DeviceTable DESY2

DevName	Netz	HV	Soll	Delay
Kicker2_Elnj	AUS	AUS	3.622 kV	5.531 µs
Kicker2_Plnj	EIN	EIN	3.629 kV	5.665 µs
Septum_Inj	EIN	-	0.352 kA	0.381 ms
Kicker40_E	AUS	AUS	20 kV	1.8 µs
Septum42_E	AUS	-	1.17 kA	2 ms
BeamBumpH_E	AUS	-	29.917 A	2.033 ms
BeamBumpV44_ER	AUS	-	13.957 A	0 ms
BeamBumpV46_ER	AUS	-	14.72 A	4.186 ms
Kicker24_R	EIN	AUS	5.877 kV	6.105 µs
Septum26A_R	AUS	-	4.32 kA	0.908 ms
Septum26B_R	AUS	-	4.71 kA	0.904 ms
BeamBumpH_R	EIN	-	22.73 A	35 ms
Kicker16p	EIN	EIN	9.777 kV	3.58 µs
KickerH36	EIN	EIN	2 kV	0.738 µs
KickerV12	EIN	EIN	-	-
Kicker20	AUS	AUS	-	-

Main Errors Addresses

Kicker2\_Elnj

Netz: EIN AUS AUS

HV: EIN AUS AUS

Trigger: EIN AUS AUS

Trg. Modul: 0 AUS

TriggerError:

Tino Status Viewer

Links Exceptions

Time	Status	Message
Thu Sep 11 16:29:30 CEST 2008	success	DESY2:Kicker#0:LinkStatusForCDI
Thu Sep 11 16:29:30 CEST 2008	success	DESY2:Kicker#0:SollAll
Thu Sep 11 16:29:30 CEST 2008	success	DESY2:Kicker#0:DelayAll
Thu Sep 11 16:29:30 CEST 2008	success	DESY2:Kicker#0:MPX1
Thu Sep 11 16:29:36 CEST 2008	success	DESY2:Kicker#0:MPX2
Thu Sep 11 16:29:30 CEST 2008	success	DESY2:Kicker#0:HVAll
Thu Sep 11 16:29:30 CEST 2008	success	DESY2:Kicker#0:PolungAll
Thu Sep 11 16:29:30 CEST 2008	success	DESY2:Kicker#0:PowerAll
Thu Sep 11 16:29:29 CEST 2008	success	DESY2:TriggerModule_D2:Kicker2_ElnjInterlock
Thu Sep 11 16:29:29 CEST 2008	success	DESY2:TriggerModule_D2:Kicker2_Elnjzyklusst
Thu Sep 11 16:29:29 CEST 2008	success	DESY2:Kicker:Kicker2_ElnjErrorDescription
Thu Sep 11 16:29:29 CEST 2008	success	DESY2:TriggerModule_D2:Kicker2_ElnjErrorDescription
Thu Sep 11 16:29:30 CEST 2008	success	DESY2:Kicker.PulseKicker2_ElnjTrace

Soll

3.622 KV

0.000 2.000

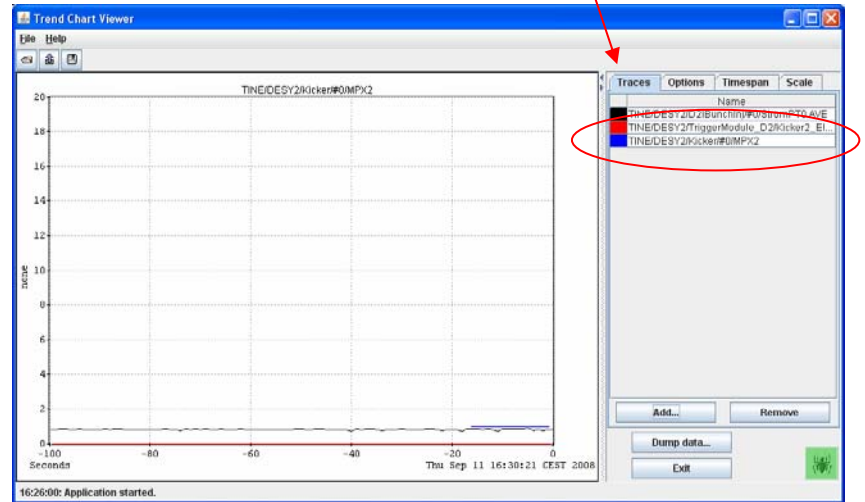
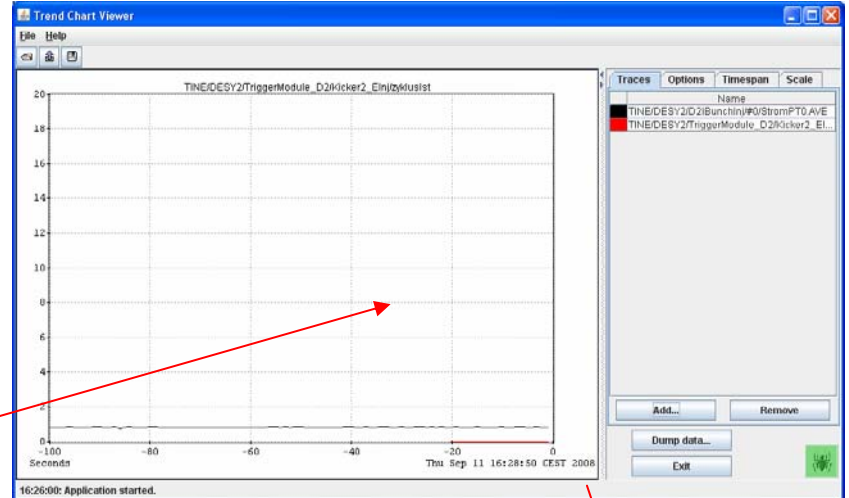
1000 0 -1000 -2000 -3000 -4000

0 1 2 3 4 5

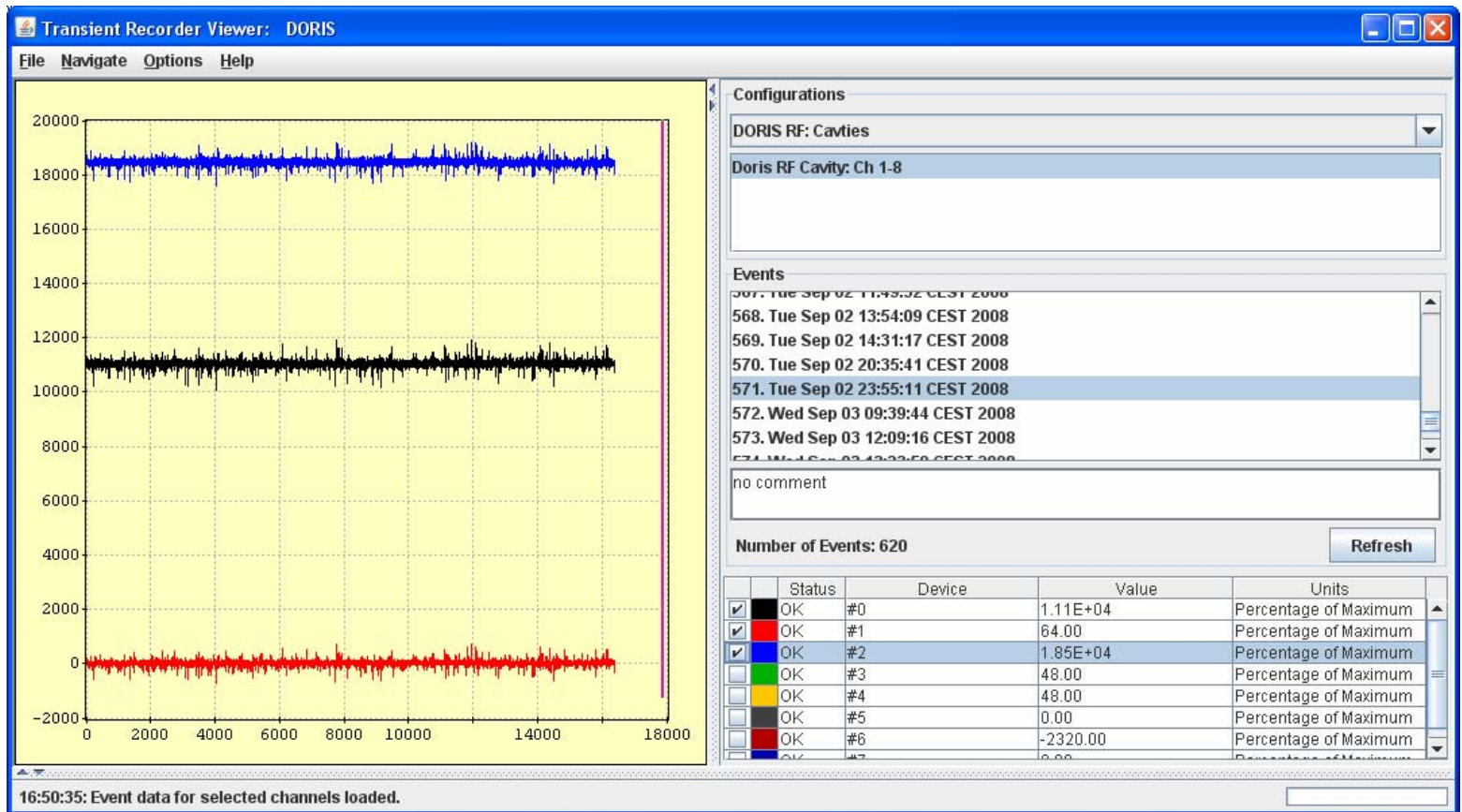
µs

Reference Pulse Pulse

McsXpDuval01 11.09.08 16:30:40 Operations Mode [Betrieb] Serveranwahl [Default] [5]KeineDatei



# Transient Recorder Viewer





# Globals Viewer

FLASH Globals	
Keyword	Value
ChargeBunch	1.1430581
MessageText	Electro Optic Spectral Decoding Measurements
Energy	899.888
Wavelength	8.01325
Globals Time	11.09.08 16:57:28.907 CEST

LINAC2 Globals	
Keyword	Value
BeamPermText	Vorhanden
MachineStateText	Unbestimmt
MachineTypeText	LINAC2
ParticleTypeText	Positronen
MessageText	
BeamPerm	1
MachineState	600
MachineType	1
ParticleType	2
Energy	449.60925
NumParticles.L2	-0.0976562425494194
NumParticles.PIA	2.8155648708343506
DeclaredState	Undefined
GunStatus	1
GunStatusText	Ein
MachineFile	
StateReadiness	4
StateReadinessText	Unbestimmt
Globals Time	11.09.08 16:58:54.467 CEST

DESY2 Globals	
Keyword	Value
BeamPermText	Vorhanden
MachineStateText	Unbestimmt
MachineTypeText	DESY2
ParticleTypeText	Positronen
MessageText	
BeamPerm	1
MachineState	600
MachineType	2
ParticleType	2
Energy	4.462728
NumParticles	2.139887809753418
DeclaredState	Undefined
MagCurrPermText	Vorhanden
MagCurrPerm	1
BeamForText	DORIS
BeamFor	1
MachineFile	unbestimmt
StateReadiness	4
StateReadinessText	Unbestimmt
Globals Time	11.09.08 16:57:59.970 CEST