



TINE Release 4.0 News

(Nov 11, 2011: That was the month that was !)

“What a long, strange trip it’s been”

[Release 4.2.7]

- **Improvements** in version 4.2.7
 - Stable against *port scans* ! (also 4.2.6)
 - 1 of the 3 TCP listening sockets caught in an infinite loop if first 2 bytes = 0 !
 - tested against all manner of corrupt input data.
 - Some new *meta properties*
 - “.URL”, “.MAX”, “.MIN”, “.XMAX”, “.XMIN”
 - “.EGU”, “.XEGU” now WRITEABLE (but volatile)
 - New property description parsing
 - New Property signal: *PS_PROCESSED*
 - *State-Change* callback triggers
 - Establish a ‘*root*’ context for decorated contexts.
 - Command line debugging: allow *negative filters*
 - Group Server: accept device name *pre-* and *post-fix* decorations

[Release 4.2.7]

- Property Description parsing:

```
"[vscale=<min>:<max> <units>]
```

```
[hscale=<xmin>:<xmax> <xunits>]
```

```
[vplot=<plot style>]
```

```
[hplot=<plot style>]
```

```
[url=<url string>]
```

```
[desc=<description>]"
```

[Release 4.2.7]

- Legacy style description (still parsed correctly)
 - "[<min:max> <units>]
[<xmin:xmax> <units>]
<description>"
- Many registered properties still do not supply this information !
 - => settings = 0 to 0
 - units = ""
 - description = ""

[Release 4.2.7]

■ example export.csv:

EXPORT	LOCAL_NAME	PROPERTY	PROPERTY VALUE	PROPERTY ACCESS	FORMAT	NUM	DESCRIPTION
WinSineSi	SINEQM	Sine	8192	1 READ XREAD	float.SPECTRUM	10	[vscale=-1000:1000 V][hscale=0:1000 ms][desc=Sine curve]
WinSineSi	SINEQM	Amplitude	10	2 READ WRITE	float.CHANNEL	10	[1:1000 V !LOG]Sine Curve Amplitude
WinSineSi	SINEQM	Frequency	10	3 READ WRITE SAVE	float.CHANNEL	10	[1:60]Sine Curve Frequency
WinSineSi	SINEQM	Phase	10	4 READ STATIC	float.CHANNEL	10	[0:512]Sine Curve Phase
WinSineSi	SINEQM	Noise	10	5 XREAD WRITE	float.CHANNEL	10	[0:100 V]Sine Curve Noise Level
WinSineSi	SINEQM	SineInfo	10	6 READ WRITE	struct.SineInfo	10	Sine Generator Information
WinSineSi	SINEQM	StructTest	10	8 READ WRITE	struct.StCmp	10	[url=http://coolproperties.desy.de/structtest.html][desc=struct test]

The screenshot shows the Java Instant Client window with the following configuration:

- Device Context: TEST
- Device Subsystem: ALL
- Device Server: WinSineServer
- Device Name: SineGen0
- Device Property: StructTest.URL
- Data Size: 80
- Data Type: TEXT
- URL for additional information: <http://coolproperties.desy.de/structtest.html>
- Timeout: 1000

The main display area shows the following text:

```
.TEST/WinSineServer/SineGen0 StructTest.URL @ 17:01:17.173  
(0,0) http://coolproperties.desy.de/structtest.html
```

Additional controls on the right include Read, Poll, Draw Mode (set to Textbox), and checkboxes for Autoscale, Log Scale, History, Suggest Decorations (checked), and Input Pane.

[Release 4.2.7]

■ Meta Properties

- “.MAX”, “.MIN”, “.XMAX”, “.XMIN”
duplicate information retrievable from
“.EGU” and “.XEGU” with format
CF_FLOAT or CF_USTRING
- Now WRITEABLE
 - But changes are volatile !

[Release 4.2.7]

- New Property (Contract) Signal **PS_PROCESSED** !
 - sent after a contract has completely processed the returned data objects.
- Not true of **PS_CALLED** !
 - sent immediately after an *eqm dispatch* routine returns.
 - The returned data object could contain references which need to be evaluated.
- Note: **PS_SENT** sent later
 - and NOT guaranteed to be sent following every *eqm dispatch*!

[Release 4.2.7]

Signal functions ...

```
int RegisterPropertySignalFunction ( const char * eqm,  
                                   const char * prp,  
                                   PRPSIG      fcn,  
                                   int          mask,  
                                   void *      ref  
                                   )
```

Registers a property signal function.

If a property is accessed by remote callers, it will be represented within a server's contract list. The appropriate equipment module will be called, which is the extent of the transaction in most cases. The server can also optionally receive signals during the course of the transaction by attaching a signal function to the property in question. Signals will include

- **PS_ACCESS** (is being accessed by a new caller),
- **PS_RETRY** (is being retried),
- **PS_LATE** (is being returned late),
- **PS_PENDING** (is being called while last transmission still pending),
- **PS_CALLED** (has returned from call to the equipment module dispatch routine),
- **PS_PROCESSED** (has returned from dispatch call and has finished processing all returned information),
- **PS_SENT** (has been sent to caller),

Note:

the access bits CA_FIRST and CA_LAST can be used with the equipment module to check the scope of the caller's transaction.

Parameters:

eqm is the local equipment module name (maximum 6 characters in length) For example: "BPMEQM".

prp is the registered property for the signal function is to be applied.

fcn is the property signal function of prototype: void sigfcn(int signal,int contractId,int propertyId,int currentStatus,void *reference);

mask is a signal mask indicating which signals are of interest (use PS_ALL to receive all signals).

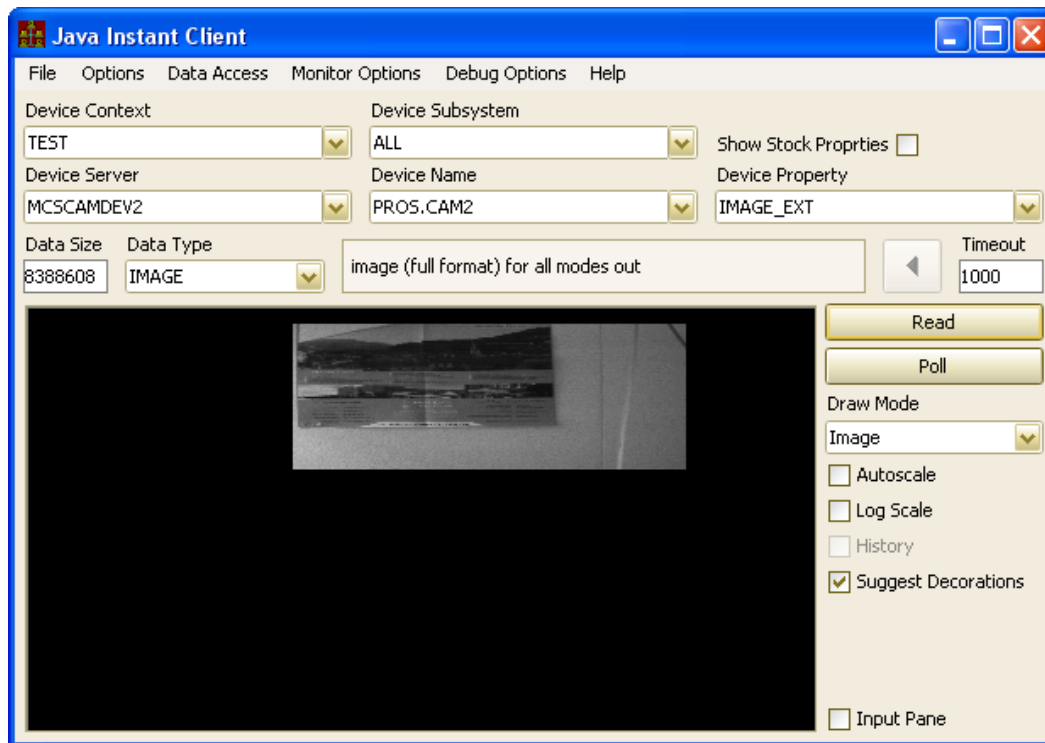
ref is a caller supplied reference which will be returned when the signal function. As this is a void pointer, it can refer to any structure or function the caller wants to have returned when the signal function is called.

Returns:

0 if successful, otherwise a TINE completion code

Release 4.2.7

- This all relates to the recent doocs2tine video bug !



[Release 4.2.7]

- State-Change callback triggers
 - Convenience functions !
 - C – API:

```
int RegisterStateChangeCallback ( SCCBFCNP fcn,  
                                const char * eqm,  
                                const char * stateKey,  
                                void * reference  
                                )
```

Registers a state change callback dispatch function.

If STATE and GLOBALS servers are running, a server can receive state change notifications and react accordingly by calling this routine and passing a callback dispatch routine. The callback routine will be called only upon change of state. In the event of any i/o errors which prevent the server from receiving the state information, the state will be changed automatically to 'unavailable' following 5 consecutive readback errors.

Parameters:

- fcn** is a reference to the state change dispatch routine to be called following a change of state This must have the prototype: void (*fcn)(const char *previousState,const char *currentState,void *reference). If a NULL is passed for this parameter then any callback routine will be de-registered.
- eqm** the local equipment module name of the desired central server (e.g. "BPMEQM")
- stateKey** is an optional specification of the desired state keyword from the GLOBALS server. If a NULL is passed, then the default of /<context>/GLOBALS/DeclaredState will be used.
- reference** is a caller supplied void pointer which will be returned to the called in the dispatch routine. A NULL can be passed if no reference is required.

Returns:

0 if successful, otherwise a TINE completion code

[Release 4.2.7]

■ e.g.

```
enum operationModes
{
    mode_not_running,
    mode_electrons,
    mode_positrons
};

void myStaChg(const char *prv, const char *nxt, void *ref)
{
    printf("changed from %s to %s\n", prv, nxt);
    if (!strcmp(nxt, "running_e-"))
    {
        opMode = mode_electrons;
    }
    else if (!strcmp(nxt, "running_e+"))
    {
        opMode = mode_positrons;
    }
    else
    {
        opMode = mode_not_running;
    }
}

void PostSystemInit(void)
{
    // register equipment module(s) ...
    RegisterEquipmentModule("WinSineServer", "SINEQM", NUM_DEVICES, sineqm, sininit, sinbkg, 100, NULL);
    // other code omitted ...
}

void sininit(void)
{
    int cc = 0;
    // call restration routines ...
    registerSineProperties();
    registerSineDevices();

    // add a state change callback to the equipment module
    // use the default State Variable ...

    if ((cc=RegisterStateChangeCallback(myStaChg, "SINEQM", NULL, NULL)) != 0)
    {
        printf("could not register state change callback : error %d\n", cc);
    }
}
```

previous state

next state

Use default state "key"

Release 4.2.7

■ State-Change callback triggers (Java API):

● **void de.desy.tine.server.equipment.TEquipmentModule.setStateChangeTrigger(TStateChangeTrigger stateChangeTrigger, String stateChangeKey)**

Establishes a state-change trigger callback for this equipment module. If a GLOBLAS server is running and providing state information, then any detected state change will be passed to the callback function provided. The callback must implement the TStateChangeTrigger class. It will receive both the current state and previous state (as Strings).

Parameters:

stateChangeTrigger is a reference to the callback instance.

stateChangeKey is the GLOBALS keyword providing the declared state for the context associated with this equipment module. If 'null' then the default keyword "DeclaredState" is assumed.

No "key" given
=> use default
("DeclaredState"
in my context)

e.g.

```
sineEqModule.setStateChangeTrigger(testChange);
cosineEqModule.setStateChangeTrigger(testChange2);
}
TStateChangeTrigger testChange = new TStateChangeTrigger()
{
    @Override
    public void update(String previousState, String thisState)
    {
        System.out.println("state changed from "+previousState+" to "+thisState);
    }
};
TStateChangeTrigger testChange2 = new TStateChangeTrigger()
{
```

[Release 4.2.7]

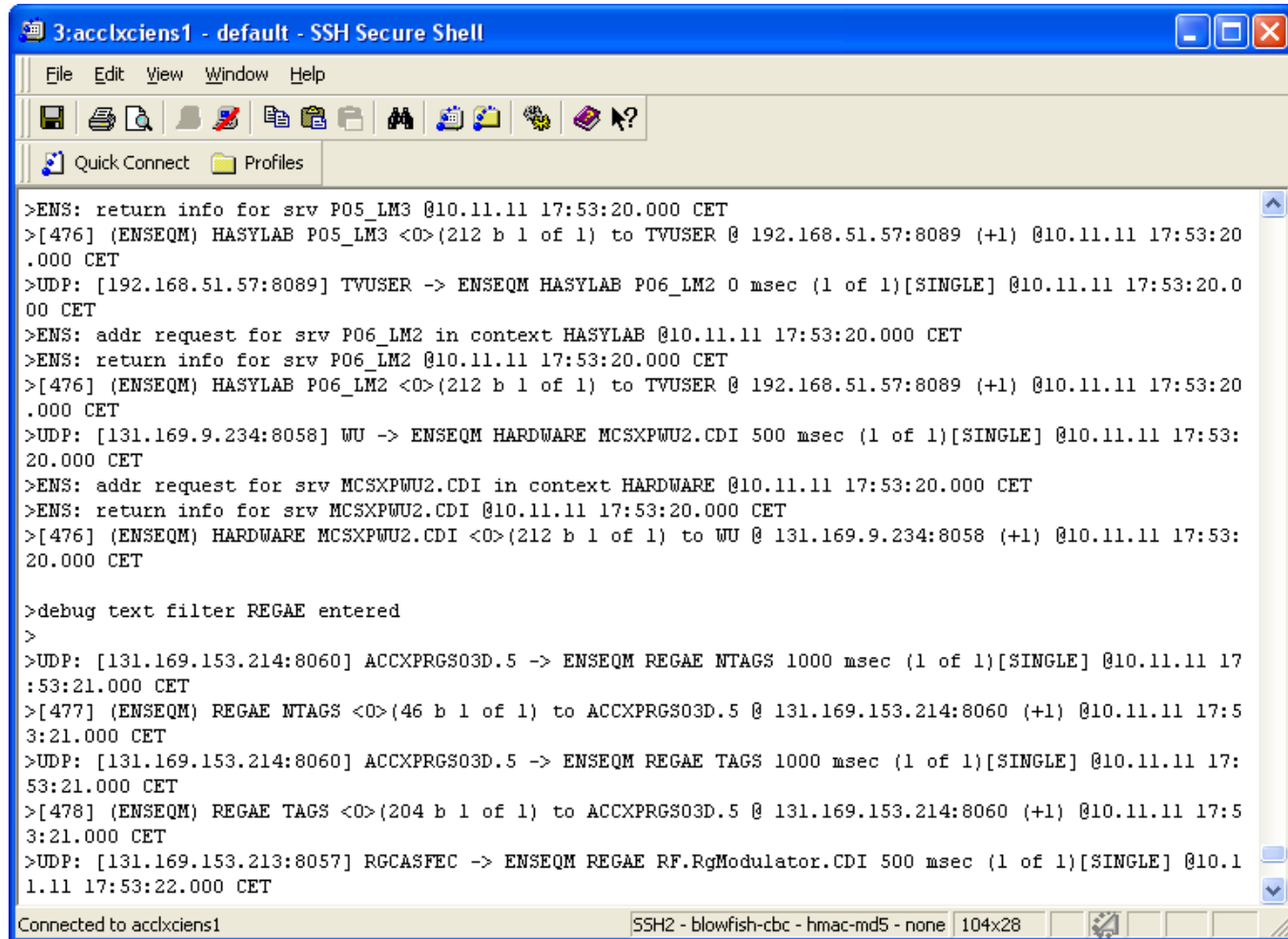
- ‘*root*’ context used for accessing **CAS** and **STATE** servers.
 - remove decoration *if* subsystem is registered !
 - e.g. context “**TTF2.RF**” signals **CAS** in context “**TTF2**” if subsystem is registered.

Release 4.2.7

- ‘negative’ filters with command line debugging !

e.g. the ENS with debug=1

a ‘positive’ filter:



```
3:acclxciens1 - default - SSH Secure Shell
File Edit View Window Help
Quick Connect Profiles
>ENS: return info for srv P05_LM3 @10.11.11 17:53:20.000 CET
>[476] (ENSEQM) HASYLAB P05_LM3 <0>(212 b 1 of 1) to TVUSER @ 192.168.51.57:8089 (+1) @10.11.11 17:53:20.000 CET
>UDP: [192.168.51.57:8089] TVUSER -> ENSEQM HASYLAB P06_LM2 0 msec (1 of 1)[SINGLE] @10.11.11 17:53:20.000 CET
>ENS: addr request for srv P06_LM2 in context HASYLAB @10.11.11 17:53:20.000 CET
>ENS: return info for srv P06_LM2 @10.11.11 17:53:20.000 CET
>[476] (ENSEQM) HASYLAB P06_LM2 <0>(212 b 1 of 1) to TVUSER @ 192.168.51.57:8089 (+1) @10.11.11 17:53:20.000 CET
>UDP: [131.169.9.234:8058] WU -> ENSEQM HARDWARE MCSXPWU2.CDI 500 msec (1 of 1)[SINGLE] @10.11.11 17:53:20.000 CET
>ENS: addr request for srv MCSXPWU2.CDI in context HARDWARE @10.11.11 17:53:20.000 CET
>ENS: return info for srv MCSXPWU2.CDI @10.11.11 17:53:20.000 CET
>[476] (ENSEQM) HARDWARE MCSXPWU2.CDI <0>(212 b 1 of 1) to WU @ 131.169.9.234:8058 (+1) @10.11.11 17:53:20.000 CET

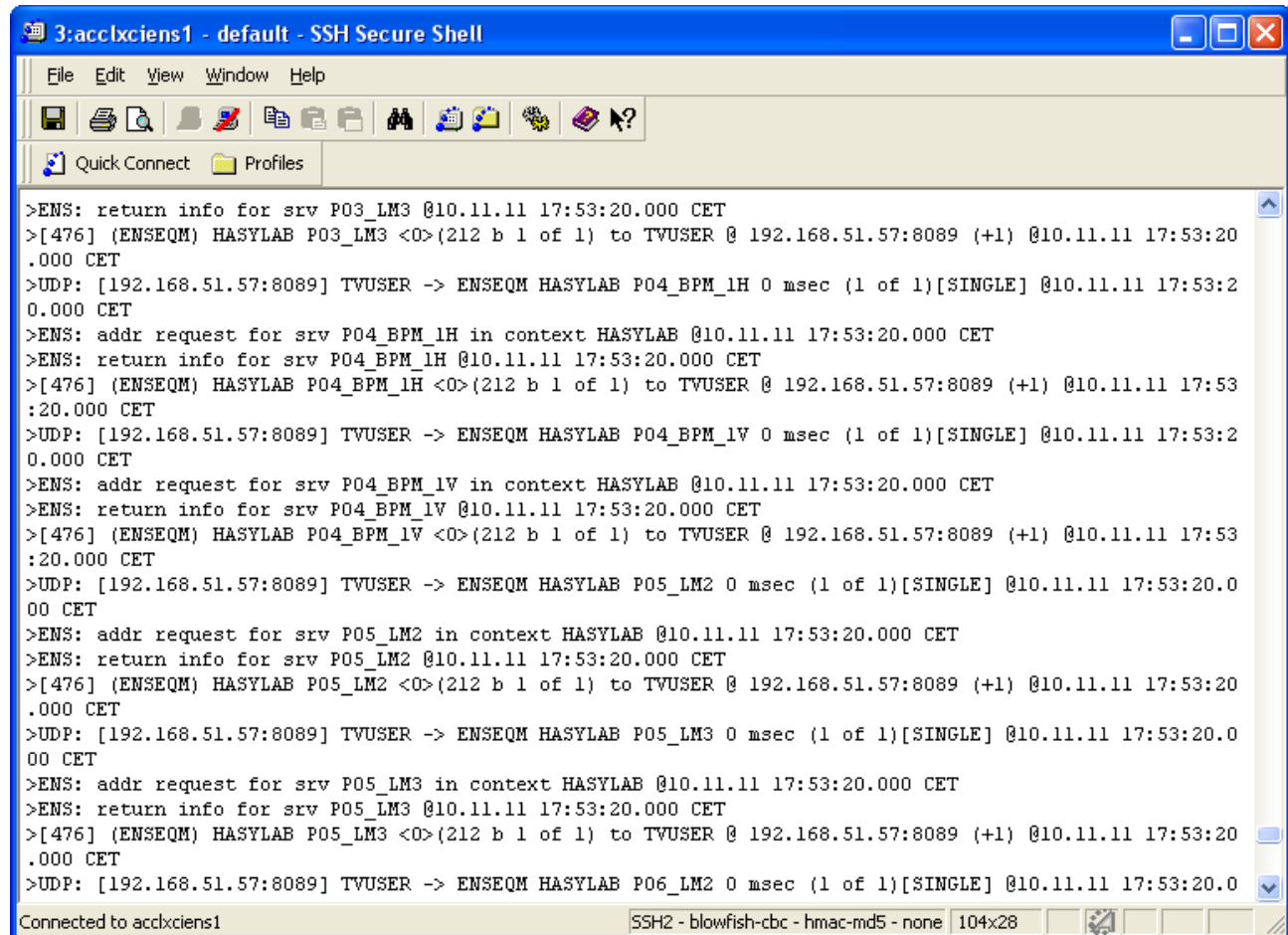
>debug text filter REGAE entered
>
>UDP: [131.169.153.214:8060] ACCXPRGS03D.5 -> ENSEQM REGAE NTAGS 1000 msec (1 of 1)[SINGLE] @10.11.11 17:53:21.000 CET
>[477] (ENSEQM) REGAE NTAGS <0>(46 b 1 of 1) to ACCXPRGS03D.5 @ 131.169.153.214:8060 (+1) @10.11.11 17:53:21.000 CET
>UDP: [131.169.153.214:8060] ACCXPRGS03D.5 -> ENSEQM REGAE TAGS 1000 msec (1 of 1)[SINGLE] @10.11.11 17:53:21.000 CET
>[478] (ENSEQM) REGAE TAGS <0>(204 b 1 of 1) to ACCXPRGS03D.5 @ 131.169.153.214:8060 (+1) @10.11.11 17:53:21.000 CET
>UDP: [131.169.153.213:8057] RGCASFEC -> ENSEQM REGAE RF.RgModulator.CDI 500 msec (1 of 1)[SINGLE] @10.11.11 17:53:22.000 CET

Connected to acclxciens1  SSH2 - blowfish-cbc - hmac-md5 - none 104x28
```

[Release 4.2.7]

But sometimes
you want to filter
'out' and not filter
'in' :

e.g. get rid of
"TVUSER" from
the output !



```
3:acclxciens1 - default - SSH Secure Shell
File Edit View Window Help
Quick Connect Profiles
>ENS: return info for srv P03_LM3 @10.11.11 17:53:20.000 CET
>[476] (ENSEQM) HASYLAB P03_LM3 <0>(212 b 1 of 1) to TVUSER @ 192.168.51.57:8089 (+1) @10.11.11 17:53:20.000 CET
>UDP: [192.168.51.57:8089] TVUSER -> ENSEQM HASYLAB P04_BPM_1H 0 msec (1 of 1)[SINGLE] @10.11.11 17:53:20.000 CET
>ENS: addr request for srv P04_BPM_1H in context HASYLAB @10.11.11 17:53:20.000 CET
>ENS: return info for srv P04_BPM_1H @10.11.11 17:53:20.000 CET
>[476] (ENSEQM) HASYLAB P04_BPM_1H <0>(212 b 1 of 1) to TVUSER @ 192.168.51.57:8089 (+1) @10.11.11 17:53:20.000 CET
>UDP: [192.168.51.57:8089] TVUSER -> ENSEQM HASYLAB P04_BPM_1V 0 msec (1 of 1)[SINGLE] @10.11.11 17:53:20.000 CET
>ENS: addr request for srv P04_BPM_1V in context HASYLAB @10.11.11 17:53:20.000 CET
>ENS: return info for srv P04_BPM_1V @10.11.11 17:53:20.000 CET
>[476] (ENSEQM) HASYLAB P04_BPM_1V <0>(212 b 1 of 1) to TVUSER @ 192.168.51.57:8089 (+1) @10.11.11 17:53:20.000 CET
>UDP: [192.168.51.57:8089] TVUSER -> ENSEQM HASYLAB P05_LM2 0 msec (1 of 1)[SINGLE] @10.11.11 17:53:20.000 CET
>ENS: addr request for srv P05_LM2 in context HASYLAB @10.11.11 17:53:20.000 CET
>ENS: return info for srv P05_LM2 @10.11.11 17:53:20.000 CET
>[476] (ENSEQM) HASYLAB P05_LM2 <0>(212 b 1 of 1) to TVUSER @ 192.168.51.57:8089 (+1) @10.11.11 17:53:20.000 CET
>UDP: [192.168.51.57:8089] TVUSER -> ENSEQM HASYLAB P05_LM3 0 msec (1 of 1)[SINGLE] @10.11.11 17:53:20.000 CET
>ENS: addr request for srv P05_LM3 in context HASYLAB @10.11.11 17:53:20.000 CET
>ENS: return info for srv P05_LM3 @10.11.11 17:53:20.000 CET
>[476] (ENSEQM) HASYLAB P05_LM3 <0>(212 b 1 of 1) to TVUSER @ 192.168.51.57:8089 (+1) @10.11.11 17:53:20.000 CET
>UDP: [192.168.51.57:8089] TVUSER -> ENSEQM HASYLAB P06_LM2 0 msec (1 of 1)[SINGLE] @10.11.11 17:53:20.000 CET
Connected to acclxciens1 SSH2 - blowfish-cbc - hmac-md5 - none 104x28
```

Release 4.2.7



```
3:acclxciens1 - default - SSH Secure Shell
File Edit View Window Help
Quick Connect Profiles
fecadmin@acclxciens1:/export/tine/server/gens/bin$ attachfec ENS
Remote session established
set filter--TVUSER
>debug negative text filter TVUSER entered
>
set debug=1
>Debug level 1
>
>UDP: [131.169.72.139:8051] ROOT -> ENSEQM PETRA.EXT PiConditions3 0 msec (1 of 1)[SINGLE] @10.11.11 18:00:51.000 CET
>ENS: addr request for srv PiConditions3 in context PETRA.EXT @10.11.11 18:00:51.000 CET
>ENS: return info for srv PiConditions3 @10.11.11 18:00:51.000 CET
>[476] (ENSEQM) PETRA.EXT PiConditions3 <0>(212 b 1 of 1) to ROOT @ 131.169.72.139:8051 (+1) @10.11.11 18:00:51.000 CET
>UDP: [131.169.72.139:8051] ROOT -> ENSEQM PETRA.EXT PiConditions3 0 msec (1 of 1)[SINGLE] @10.11.11 18:00:51.000 CET
>ENS: addr request for srv PiConditions3 in context PETRA.EXT @10.11.11 18:00:51.000 CET
>ENS: return info for srv PiConditions3 @10.11.11 18:00:51.000 CET
>[476] (ENSEQM) PETRA.EXT PiConditions3 <0>(212 b 1 of 1) to ROOT @ 131.169.72.139:8051 (+1) @10.11.11 18:00:51.000 CET
>UDP: [131.169.72.139:8051] ROOT -> ENSEQM PETRA.EXT PiConditions3 0 msec (1 of 1)[SINGLE] @10.11.11 18:00:51.000 CET
>ENS: addr request for srv PiConditions3 in context PETRA.EXT @10.11.11 18:00:51.000 CET
>ENS: return info for srv PiConditions3 @10.11.11 18:00:51.000 CET
>[476] (ENSEQM) PETRA.EXT PiConditions3 <0>(212 b 1 of 1) to ROOT @ 131.169.72.139:8051 (+1) @10.11.11 18:00:51.000 CET
>UDP: [131.169.72.139:8051] ROOT -> ENSEQM PETRA.EXT PiConditions3 0 msec (1 of 1)[SINGLE] @10.11.11 18:00:51.000 CET
Connected to acclxciens1 SSH2 - blowfish-cbc - hmac-md5 - none 104x28
```


[Release 4.2.7]

- Group Server + device pre-/post-fix
 - 'identical' device servers (with identical device name lists) can establish a device group
 - distinguish among the various device lists by supplying a device prefix and/or a device postfix !

[Release 4.2.7]

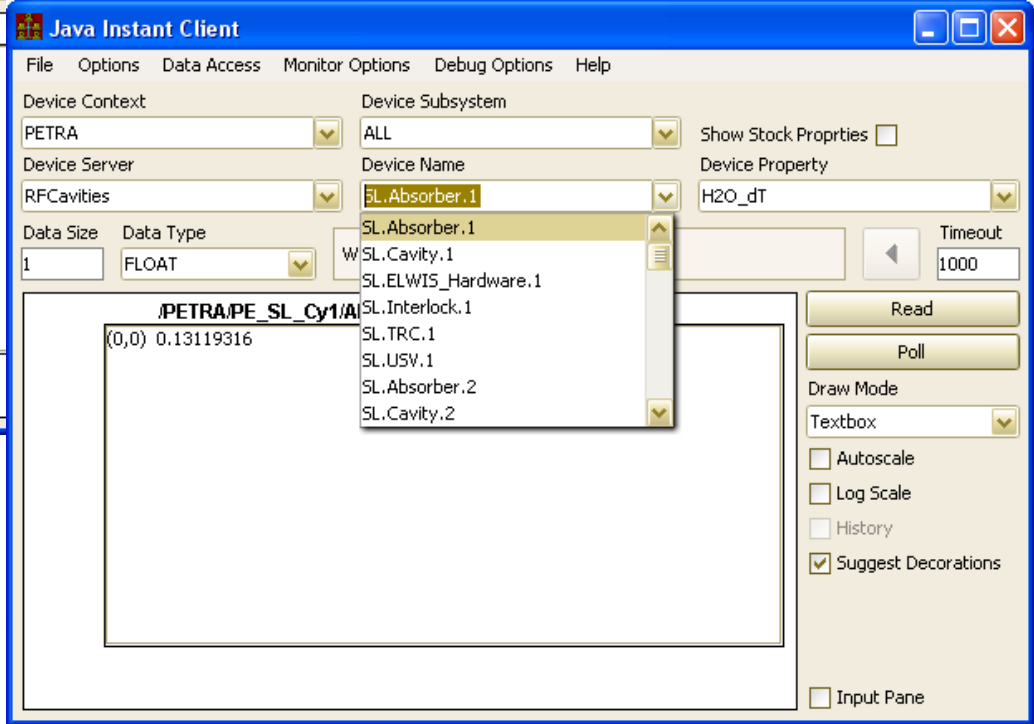
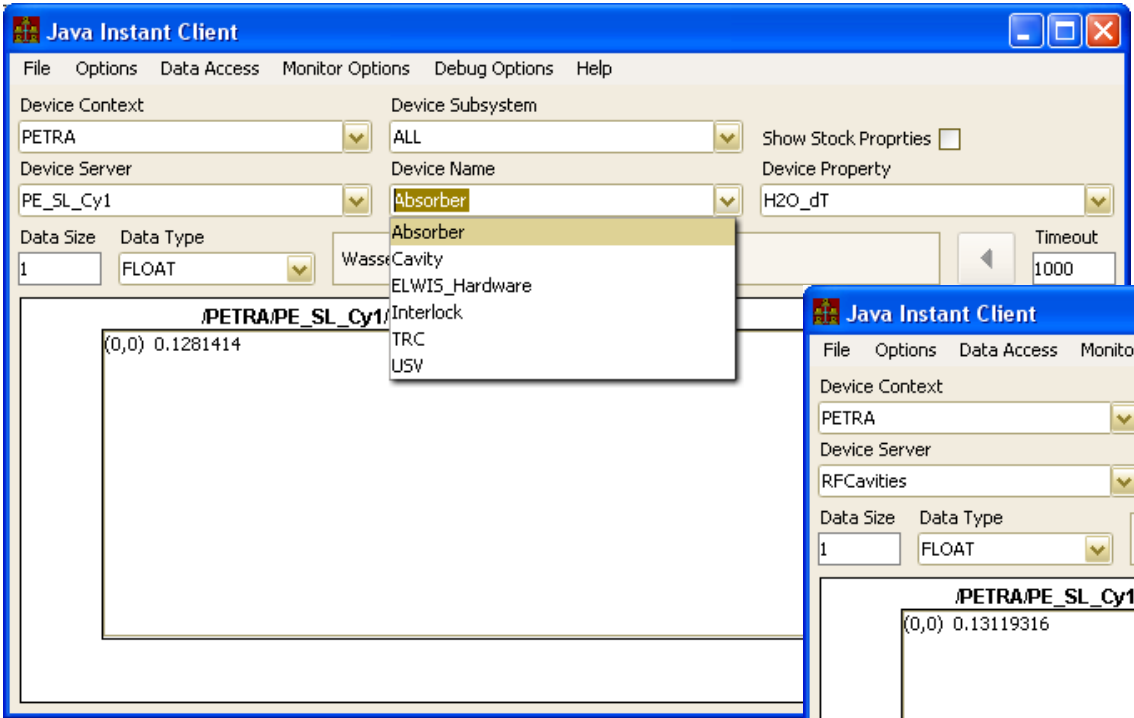
- Database configuration files
 - “GROUP_DEVICE_PREFIX” and “GROUP_DEVICE_POSTFIX”
 - optional columns in exports.csv or
 - optional tags in fec.xml
- API calls
 - C: JoinEquipmentGroupEx() ←
 - Java: setGroupDevicePrefix(), setGroupDevicePostfix()

Takes prefix
and postfix
tags

[Release 4.2.7]

12 Elwis Servers with same device list !

Use prefix "SL." and "SR."
Postfix ".1" -> ".6" !



1 "logical" Server
RFCavities :



[Central Services]

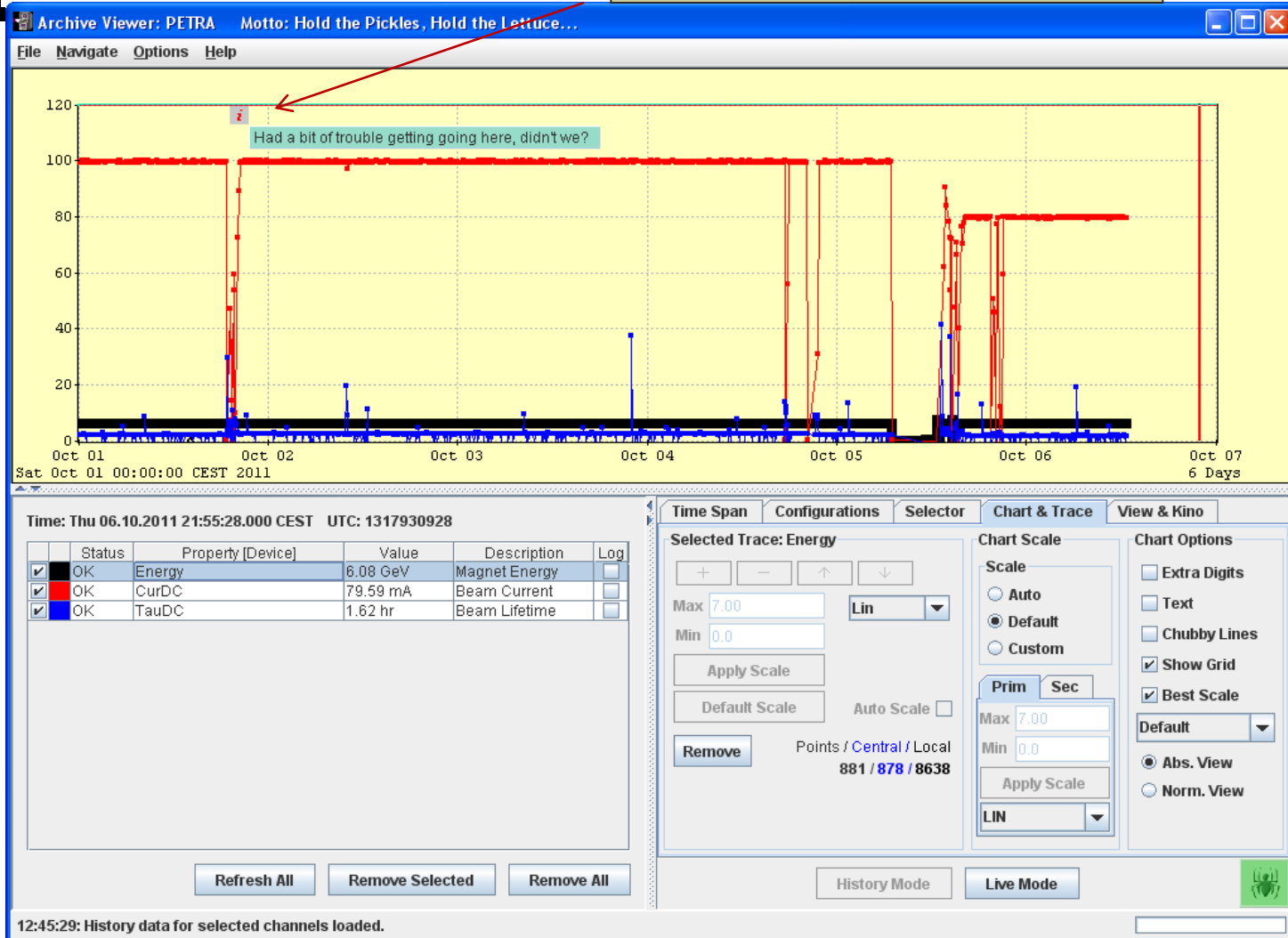
- Archive Viewer
 - annotations
 - status
 - add history records (local history)
- Archive Database Manager
 - becoming useable
- ENS Administration
 - can toggle ENS
- Alarm Viewer
 - add/edit alarm watch
 - edit alarm definition

[Central Services]

- Archive System
 - Central Archive
 - now accepts annotations
 - now stores link status (if non-zero)

Archive System

Found an annotation !



Archive System

Archive Viewer: LINAC2 Motto: Hold the Pickles, Hold the Lettuce...

File Navigate Options Help

Time Span Configurations Selector Chart & Trace View & Kino

Time: Wed 05.10.2011 12:08:22.000 CEST UTC: 1317809302

Status	Property [Device]	Value	Description	Log
<input checked="" type="checkbox"/>	OK CurD2	0.00 mA	DESY2 Beam Cur...	<input type="checkbox"/>
<input checked="" type="checkbox"/>	OK Curl2	4674.14 mA		<input type="checkbox"/>
<input checked="" type="checkbox"/>	OK VacPressure.L2[L2-A1:Gun...]	3.47E-10 mbar	LINAC2 Vac Pres...	<input type="checkbox"/>
<input checked="" type="checkbox"/>	OK VacPressure.L2[L2-A2:GP 8]	4.04E-08 mbar	LINAC2 Vac Pres...	<input type="checkbox"/>
<input checked="" type="checkbox"/>	OK TempSLED[SLED 1.1]	40.60 Deg C	Linac Temps	<input type="checkbox"/>
<input checked="" type="checkbox"/>	OK PChopDelay_lmS	No Data	Zero-Crossing - R...	<input type="checkbox"/>

Reason for 'No Data' ?

Subsystem: ALL

ModTrigReady
ModTrigShifted
ModTrigStatus
ModVorMagI
ModVorMagV
OperationStatisticsTrigger
PChopDelay_lmS
PIAKickRegDevStatus
PIAKickRegStatus
ParticleSign
ParticleTimeTest

Zero-Crossing - Ref

Device Name: keyword

Selected Bit: ALL

Add Selected

History Mode Live Mode

13:12:23: No history data available for channel 'LINAC2/HISTORY/keyword/PChopDelay_lmS'.

Archive System

The screenshot displays the 'Archive Viewer: PETRA' application. The main window features a data plot with a red line at 100 and a blue line with spikes. A context menu is open over the plot, with 'Local History Browsing' selected. An 'Add To Local History' dialog box is overlaid on the right, containing various configuration fields. A red arrow points from the 'Add To History' button in the dialog to the 'Add To History' button in the main window's bottom right area.

Archive Viewer: PETRA Motto: Hold the Pickles, Hold the Lettuce...

Options Menu:

- Use Absolute X Scale
- Number of History Points...
- Central Archive
- Subsystem Browsing
- Local History Browsing
- Warn About Log Channels
- Debug Chart

Add To Local History 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!

Context: PETRA, Depth Long (months): 1, Server: BLM, Depth Short (ring buffer): 600, Device: PU01, Heart Beat (seconds): 1800, Property: LossRates, Polling Interval (msec): 1000, Data Size: 20, Archiving Interval (msec): 1000, Format: INT32, Relative Tolerance: 0, Absolute Tolerance: 0

Main Window Data Table:

Status	Property [Device]	Value	Description	Log
<input checked="" type="checkbox"/> OK	Energy	6.08 GeV	Magnet Energy	<input type="checkbox"/>
<input checked="" type="checkbox"/> OK	CurDC	99.03 mA	Beam Current	<input type="checkbox"/>
<input checked="" type="checkbox"/> OK	TauDC	2.31 hr	Beam Lifetime	<input type="checkbox"/>

Time: Sun 02.10.2011 08:24:28.000 CEST UTC: 1317536668

Buttons: Refresh All, Remove Selected, Remove All, Add Selected, Add To History, History Mode, Live Mode

12:54:45: Characteristics for property 'LossRates' loaded.

Archive Database Manager

Archive Database Manager

File Configurations Options Help

Archive Server: PETRA

Search (Ctrl-F)
View Errors
Hide Inactive Records (checked)

Index	Active	Device Server	Device Name	Device Property
152	✓	VAC.TSP	#0	RdStrom.NAM
153	✓	VAC.TSP	SOL21.8	RdStatusInteger
157	✓	MpsAlarms	Alarme	CurDC_MpSy_Avg_Fast
158	✓	MpsAlarms	Alarme	CurDC_MpSy_Avg_Slow
159	✓	MpsAlarms	Alarme	CurDC_MpSy_Max
160	✓	MpsAlarms	Alarme	CurDC_MpSy_Min
161	✓	BunchScope.Data	Bunch-1	BunchFill.Maximum
162	✓	BunchScope.Data	Bunch-1	BunchFill.Minimum
163	✓	BunchScope.Data	Bunch-1	BunchFill.Maximum.NAM
169	✓	Petra3_P09vil.CDI	#0	TEMP_ALARM_OUT.NAM
176	✓	Petra3_P07vil.CDI	#0	TEMP_OUT.NAM
178	✓	Petra3_P07vil.CDI	#0	TEMP_ALARM_OUT.NAM
180	✓	Petra3_P07vil.CDI	#0	DURCHFLUSS_OUT.N...
190	✓	Petra3_P10vil.CDI	#0	DURCHFLUSS_OUT.N...
197	✓	Petra3_P09vil.CDI	BL_0	TEMP_ALARM_OUT
201	✓	Petra3_P07vil.CDI	BL_0	TEMP_OUT
202	✓	Petra3_P07vil.CDI	BL_0	TEMP_ALARM_OUT
203	✓	Petra3_P07vil.CDI	KW_FROND_1_E	DURCHFLUSS_OUT
208	✓	Petra3_P10vil.CDI	KW_FROND_1_E	DURCHFLUSS_OUT
219	✓	LTG-VXW	LTG	PEMODE
224	✓	Petra3_P03vil.CDI	KW_FROND_1_E	DURCHFLUSS_OUT
232	✓	RadMonIP	#0	MCA.DoseSumTotal
234	✓	RadMonIP	#0	MCA.RestartCounter
235	✓	RadMonIP	#0	MCA.EthernetCounterTo...
236	✓	RadMonIP	#0	MCA.UpTimeCounterTo...
237	✓	RadMonIP	#0	MCA.Burst-GammaSum...
238	✓	RadMonIP	#0	MCA.Burst-NeutronSum...
239	✓	RadMonIP	#0	MCA.Conti-DHNSumTotal
240	✓	RadMonIP	#0	MCA.Conti-GammaSum...
241	✓	RadMonIP	#0	MCA.Conti-NeutronSum...
248	✓	Petra3_P01vil.CDI	KW_FROND_1_E	DURCHFLUSS_OUT
249	✓	Petra3_P01vil.CDI	KW_FROND_1_E	DURCHFLUSS_OUT

Index: Tweak Edit Clone New Add MCA Names

Device Context Device Server Device Name Access Rate (1000)

Device Property Array Size Format (DOUBLE) Input Format (DOUBLE)

Filter: NEVER, ONCE, ALWAYS, FAST, SLOW, FIXTIME, HRT, STATUS, VOLATILE, NOPOI, BEAM, RUNNING

Data Output List

Reload DB Write DB

Archive Database Manager

The screenshot displays the Archive Database Manager application window. The main window has a menu bar (File, Configurations, Options, Help) and a toolbar with buttons like Tweak, Edit, Clone, New, and Add MCA Names. A table of database entries is visible, with columns for Index, Active, Device Server, and Property. A search dialog box titled "Database List Search" is open, prompting the user to enter a search key. The search key "RadMon" is entered. A second dialog box titled "Select the desired entry" is also open, showing a list of search results. The results list includes entries such as "232,PETRA,RadMonIP,MCA.DoseSumTotal,#0,30,DOUBLE,,900,1000,4,MCA.DoseSumTotal.csv,1,duval" and "235,PETRA,RadMonIP,MCA.EthernetCounterTotal,#0,30,DOUBLE,,900,1000,4,MCA.EthernetCounterTotal.csv".

Database List Search

Please enter a search key (server or property)

RadMon

OK Cancel

Select the desired entry

Database List Search

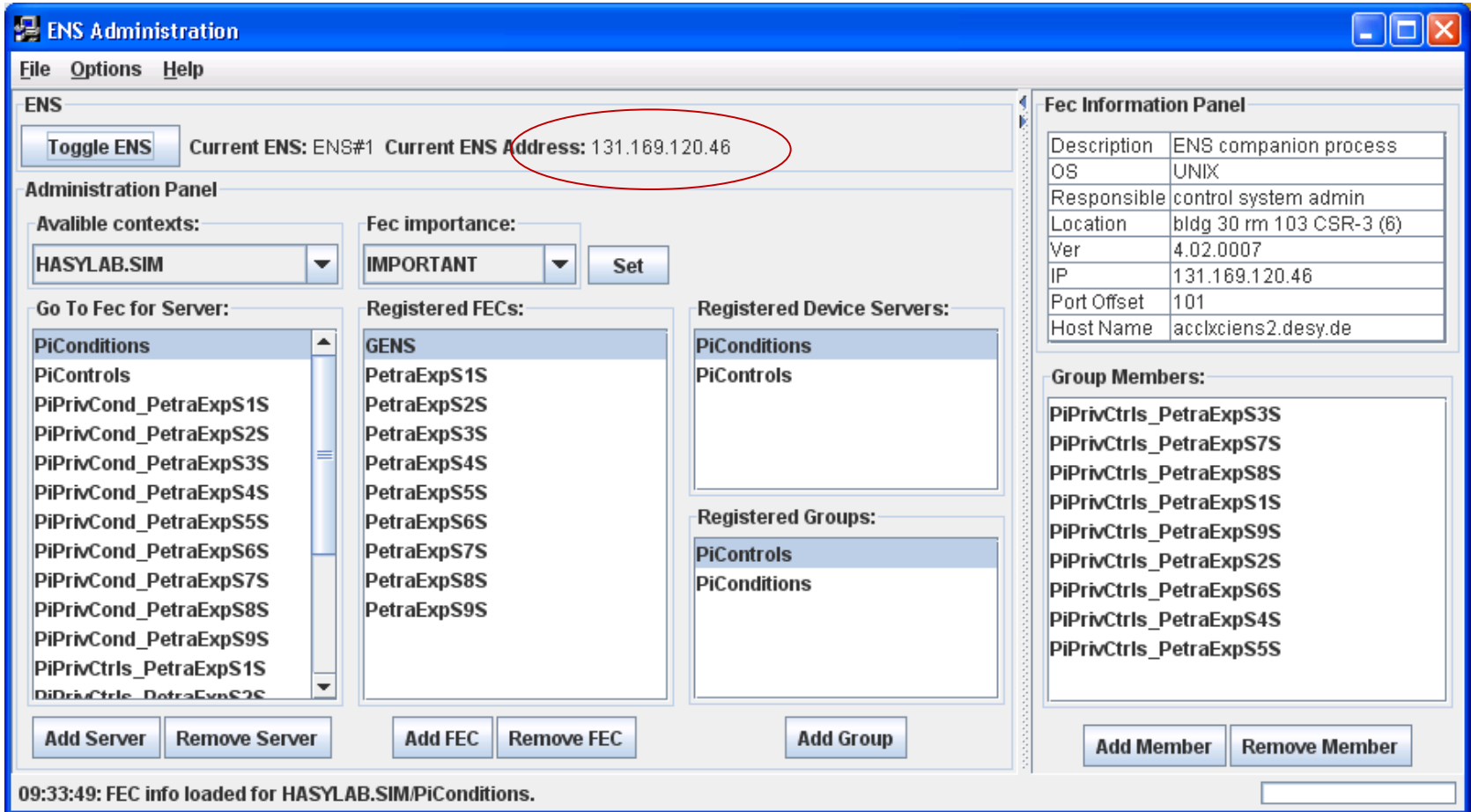
232,PETRA,RadMonIP,MCA.DoseSumTotal,#0,30,DOUBLE,,900,1000,4,MCA.DoseSumTotal.csv,1,duval
234,PETRA,RadMonIP,MCA.RestartCounter,#0,30,INT32,,900,1000,4,MCA.RestartCount.csv,1,duval
235,PETRA,RadMonIP,MCA.EthernetCounterTotal,#0,30,DOUBLE,,900,1000,4,MCA.EthernetCounterTotal.csv,1,duval
236,PETRA,RadMonIP,MCA.UpTimeCounterTotal,#0,30,DOUBLE,,900,1000,4,MCA.UpTimeCounterTotal.csv,1,duval
237,PETRA,RadMonIP,MCA.Burst-GammaSumTotal,#0,30,DOUBLE,,900,1000,4,MCA.Burst-GammaSumTotal.csv,1,duval
238,PETRA,RadMonIP,MCA.Burst-NeutronSumTotal,#0,30,DOUBLE,,900,1000,4,MCA.Burst-NeutronSumTotal.csv,1,duval

Select Close

Index	Active	Device Server	Property
152	<input checked="" type="checkbox"/>	VAC.TSP	
153	<input checked="" type="checkbox"/>	VAC.TSP	
157	<input checked="" type="checkbox"/>	MpsAlarms	
158	<input checked="" type="checkbox"/>	MpsAlarms	
159	<input checked="" type="checkbox"/>	MpsAlarms	
160	<input checked="" type="checkbox"/>	MpsAlarms	Alarme
161	<input checked="" type="checkbox"/>	BunchScope.Data	Bunch-1
162	<input checked="" type="checkbox"/>	BunchScope.Data	Bunch-1
163	<input checked="" type="checkbox"/>	BunchScope.Data	Bunch-1
169	<input checked="" type="checkbox"/>	Petra3_P09vil.CDI	#0
176	<input checked="" type="checkbox"/>	Petra3_P07vil.CDI	#0
178	<input checked="" type="checkbox"/>	Petra3_P07vil.CDI	#0
180	<input checked="" type="checkbox"/>	Petra3_P07vil.CDI	#0
190	<input checked="" type="checkbox"/>	Petra3_P10vil.CDI	#0
197	<input checked="" type="checkbox"/>	Petra3_P09vil.CDI	BL_0
201	<input checked="" type="checkbox"/>	Petra3_P07vil.CDI	BL_0
202	<input checked="" type="checkbox"/>	Petra3_P07vil.CDI	BL_0
203	<input checked="" type="checkbox"/>	Petra3_P07vil.CDI	KW_FROND_1_E
208	<input checked="" type="checkbox"/>	Petra3_P10vil.CDI	KW_FROND_1_E
219	<input checked="" type="checkbox"/>	LTG-VXW	LTG
224	<input checked="" type="checkbox"/>	Petra3_P03vil.CDI	KW_FROND_1_E
232	<input checked="" type="checkbox"/>	RadMonIP	#0
234	<input checked="" type="checkbox"/>	RadMonIP	#0
235	<input checked="" type="checkbox"/>	RadMonIP	#0
236	<input checked="" type="checkbox"/>	RadMonIP	#0
237	<input checked="" type="checkbox"/>	RadMonIP	#0
238	<input checked="" type="checkbox"/>	RadMonIP	#0
239	<input checked="" type="checkbox"/>	RadMonIP	#0
240	<input checked="" type="checkbox"/>	RadMonIP	#0
241	<input checked="" type="checkbox"/>	RadMonIP	#0
248	<input checked="" type="checkbox"/>	Petra3_P01vil.CDI	KW_FROND_1_E
249	<input checked="" type="checkbox"/>	Petra3_P01vil.CDI	KW_FROND_1_E

Reload DB Write DB

ENS Administration



ENS Administration

File Options Help

ENS

Toggle ENS Current ENS: ENS#1 Current ENS Address: 131.169.120.46

Administration Panel

Available contexts: HASLAB.SIM

Fec importance: IMPORTANT Set

Go To Fec for Server:

- PiConditions
- PiControls
- PiPrivCond_PetraExpS1S
- PiPrivCond_PetraExpS2S
- PiPrivCond_PetraExpS3S
- PiPrivCond_PetraExpS4S
- PiPrivCond_PetraExpS5S
- PiPrivCond_PetraExpS6S
- PiPrivCond_PetraExpS7S
- PiPrivCond_PetraExpS8S
- PiPrivCond_PetraExpS9S
- PiPrivCtrls_PetraExpS1S
- PiPrivCtrls_PetraExpS2S

Registered FECs:

- GENS
- PetraExpS1S
- PetraExpS2S
- PetraExpS3S
- PetraExpS4S
- PetraExpS5S
- PetraExpS6S
- PetraExpS7S
- PetraExpS8S
- PetraExpS9S

Registered Device Servers:

- PiConditions
- PiControls

Registered Groups:

- PiControls
- PiConditions

Fec Information Panel

Description	ENS companion process
OS	UNIX
Responsible	control system admin
Location	bldg 30 rm 103 CSR-3 (6)
Ver	4.02.0007
IP	131.169.120.46
Port Offset	101
Host Name	acclxcien2.desy.de

Group Members:

- PiPrivCtrls_PetraExpS3S
- PiPrivCtrls_PetraExpS7S
- PiPrivCtrls_PetraExpS8S
- PiPrivCtrls_PetraExpS1S
- PiPrivCtrls_PetraExpS9S
- PiPrivCtrls_PetraExpS2S
- PiPrivCtrls_PetraExpS6S
- PiPrivCtrls_PetraExpS4S
- PiPrivCtrls_PetraExpS5S

Add Server Remove Server Add FEC Remove FEC Add Group Add Member Remove Member

09:33:49: FEC info loaded for HASLAB.SIM/PiConditions.

Alarm System

Alarm Viewer: PETRA

File View Options Navigate Help

Context

- Acknowledge Selected Locally
- Acknowledge All Locally
- Unacknowledge Selected Locally
- Unacknowledge All Locally
- Add To Watch Table...
- Open Filter Dialog...
- Suspend Display
- Show Active Alarms Only
- Collapse Equal Alarms
- Collapse Alarms Events
- Show Hidden Systems
- Select Alarm Systems
- Sound Notifications (local)
- Test Sound (local)

System	Device Name	Message	Se
Magnete	D	PS IST-SOLL WARNUNG	4
Magnete	QD	PS IST-SOLL WARNUNG	4
Magnete	QF	PS IST-SOLL WARNUNG	4
Magnete	PDA	PS IST-SOLL WARNUNG	4
Magnete	Main-NO1	> N PS ALARMS	13
Magnete	QA5_OL_62	PS IST-SOLL WARNUNG	4
Magnete	QB2_OL_125	PS IST-SOLL WARNUNG	4
Magnete	QB2_OL_116	PS IST-SOLL WARNUNG	4
Magnete	Main-EXM	> N PS ALARMS	13

13:50:02: Alarms loaded.

Add To Alarm Watch Table

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: PETRA

Severity: 7

Server: BPM

Low Threshold: -2000.0

Device: BPM_SWR_13

High Threshold: 2000.0

Property: Orbit.X

Data Size: 227

Format: FLOAT

OK Cancel

Alarm System

Alarm Viewer: DESY2

File View Options Navigate Help

Context: DESY2

Fatal

0

Fri Nov 11 11:45:25 Warning S

Magnete

H.Korrekt.Mag.

V.Korrekt.Mag.

HF 1

Chopper 1

System	Device
Strahldiag.	PeakingStrip
Kicker-Septa	Kicker2_Plnj
Timing	Septum26A_F
Timing	Septum26B_F
Front-End	HV1_UASet
Chopper	HV1_UASet
Front-End	HV1_UIs
Chopper	HV1_UIs
Front-End	Ht.IDSet

11:45:23: Alarms loaded.

Alarm Details: Kicker-Septa: Kic

Property
Alarm System
Device Server
Alarm Device
Device Text
FEC Name
Host Address
HostName
Location
Alarm Text
Severity
Alarm Data Text
Alarm Tag
URL
Code
Format
Dimension
Mask

Alarm Descriptor	Alarm
Terminated	11:44:36
New	11:44:35
Terminated	11:08:16
New	11:08:15

Alarm Data: no data associated with

Set Alarm Definition

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	DESY2	System	Kicker-Septa
Server	Kicker	Format	DOUBLE
Data Size	0	Severity	9
Alarm Code	527	Mask	0
Tag	Triggerfrequenz	Text	Triggerfrequenz
Device Text	Kicker Status	Data Text	no data associated with alarm
URL			

Add Close

Nov 11 CET 0 sec
Nov 11 CET 1.3 min
Nov 11 CET 1.3 min
Nov 11 CET 2.0 min
Nov 11 CET 2.0 min
Nov 11 CET 2.1 min

Close