

# TINE Studio News

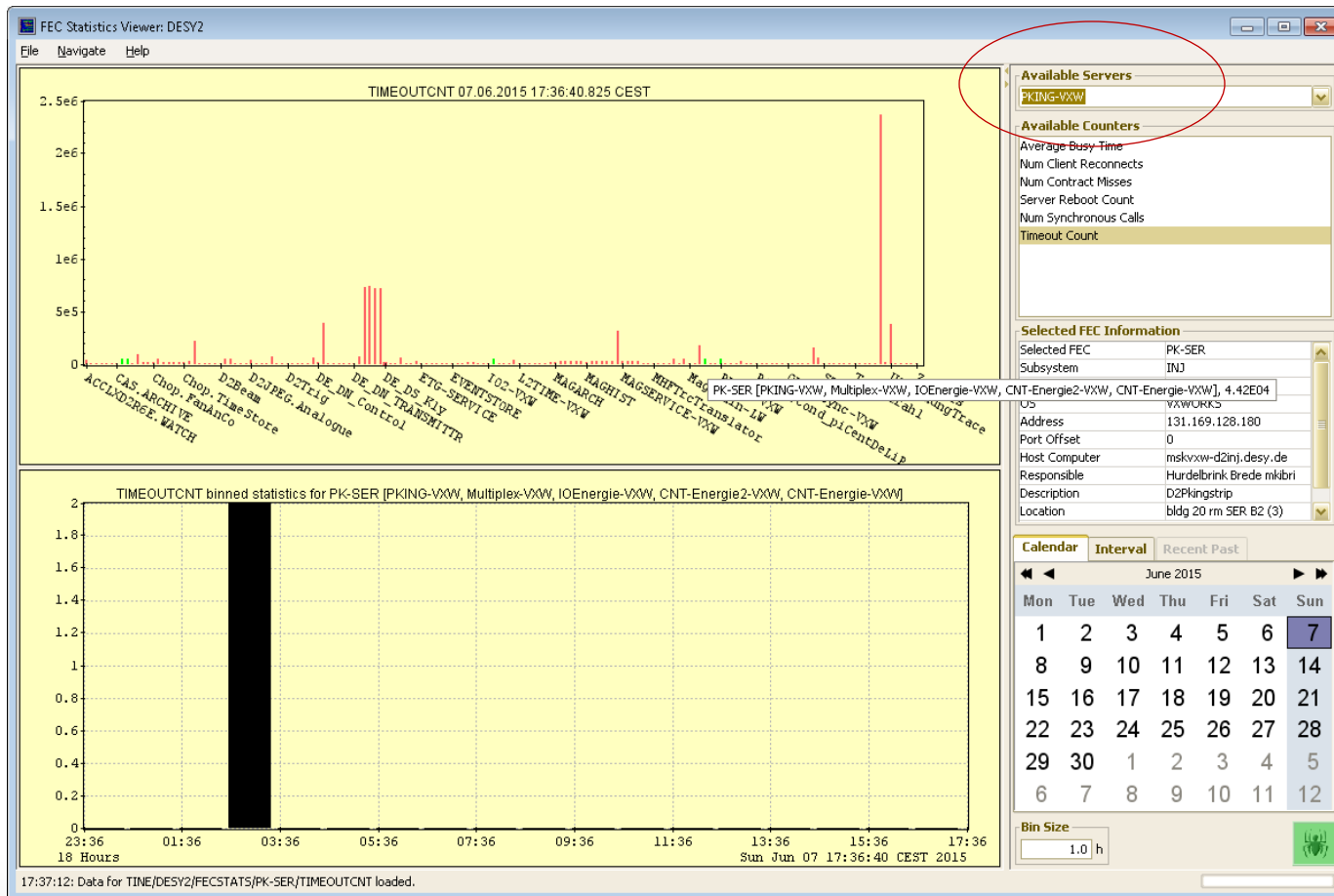
June 8, 2015

# TINE Studio Applications

- FEC Statistics Viewer:**

Easier browsing to the target server

Display relevant FEC information



# TINE Studio Applications

## Operation History Viewer

The screenshot displays the TINE Studio Operation History Viewer interface. A menu is open over the 'Overview' section, listing options such as 'Chart Options...', 'Pie Chart Units', 'Snap Zoom Area to Nearest Hour', 'Display Full Statistics Data', 'Debug Data Window...', 'Filter Bad Data', 'Use Alternative Statistics', 'Reload Configurations', and 'Important Contexts'. The 'Overview' section shows the current state as 'Running: TEST' and a list of running components: DORIS (0 sec), PETRA (beam) (40.2 min), PETRA (idle) (0 sec), TEST (16.8 hr), Control Room (0 sec), Preparing (0 sec), Standby (6.1 min), Machine Studies (0 sec), Problems (1.3 hr), Service Mode (5.2 hr), and Undefined (0 sec). A pie chart is partially visible. Below the overview, a 'Date Span' section shows the selected time range from 13.05.2015 00:00:00 to 13.05.2015 23:59:59. A 'Summary' table lists various states and their durations: Service Mode (5.1 hr), Chopper (7.0 s), HF (16.2 min), and Magnete (4.3 hr). The interface also includes 'Alarm Server Subsystem' and 'Components Groups' options, and a 'Total Non-Available Time (CAS)' of 4.5 hr. Two charts are displayed: 'DESY-2 Overview' and 'Chopper', 'HF', 'Magnete'. The 'DESY-2 Overview' chart shows a time series plot with red and blue data points. The 'Chopper', 'HF', 'Magnete' chart shows a Gantt-style availability plot for these components. The interface includes a 'Cursor' field showing 'Wed 13.05.2015 02:47:27.505 CEST' and a 'Chart Options...' button. At the bottom, there are 'Live', 'History', 'Interval: 60 s', and 'Refresh' buttons, along with a status bar showing '18:11:07: Alarm messages loaded.'

File Options Help

Select Chart Options...  
Select Pie Chart Units  
✓ Snap Zoom Area to Nearest Hour  
✓ Display Full Statistics Data  
Debug Data Window...  
✓ Filter Bad Data  
Use Alternative Statistics  
Reload Configurations  
✓ Important Contexts

**Overview**

- Running: DORIS: 0 sec
- Running: PETRA (beam): 40.2 min
- Running: PETRA (idle): 0 sec
- Running: TEST: 16.8 hr
- Running: Control Room: 0 sec
- Preparing: 0 sec
- Standby: 6.1 min
- Machine Studies: 0 sec
- Problems: 1.3 hr
- Service Mode: 5.2 hr
- Undef.: 0 sec

**Current State: Running: TEST**  
Selected time range: 05.13.15 00:00 - 05.13.15 23:59

**Date Span Info**

From: 13.05.2015 00:00:00  
To: 13.05.2015 23:59:59

Total Beam Time DORIS: 0 sec	Service Mode: 5.1 hr
Trans. Time DORIS: 0 sec	Chopper: 7.0 s
Total Beam Time PETRA: 0 sec	HF: 16.2 min
Trans. Time PETRA: 0 sec	Magnete: 4.3 hr

Total Time: 24 hr  
Sum of Slices: 24 hr

Alarm Server Subsystem  
 Components Groups

Total Non-Available Time (CAS): 4.5 hr

Live History Interval: 60 s Refresh

18:11:07: Alarm messages loaded.

**Chart Alarms**

**DESY-2 Overview**

Cursor: Wed 13.05.2015 02:47:27.505 CEST Chart Options...

**Chopper HF Magnete**

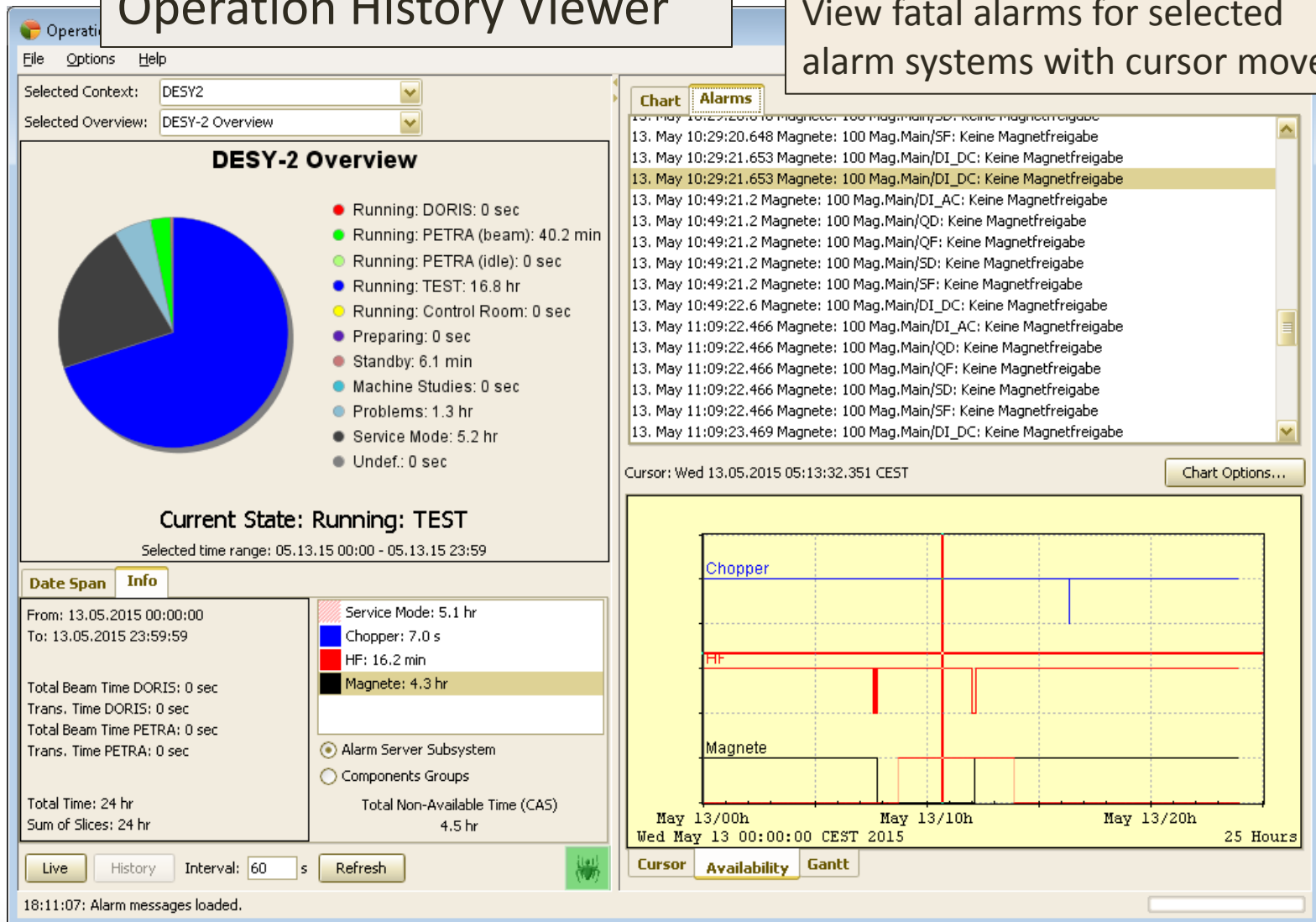
Cursor Availability Gantt

Snap Zoom to nearest hour  
Update Pie Chart on Zoom.  
Display selected time range

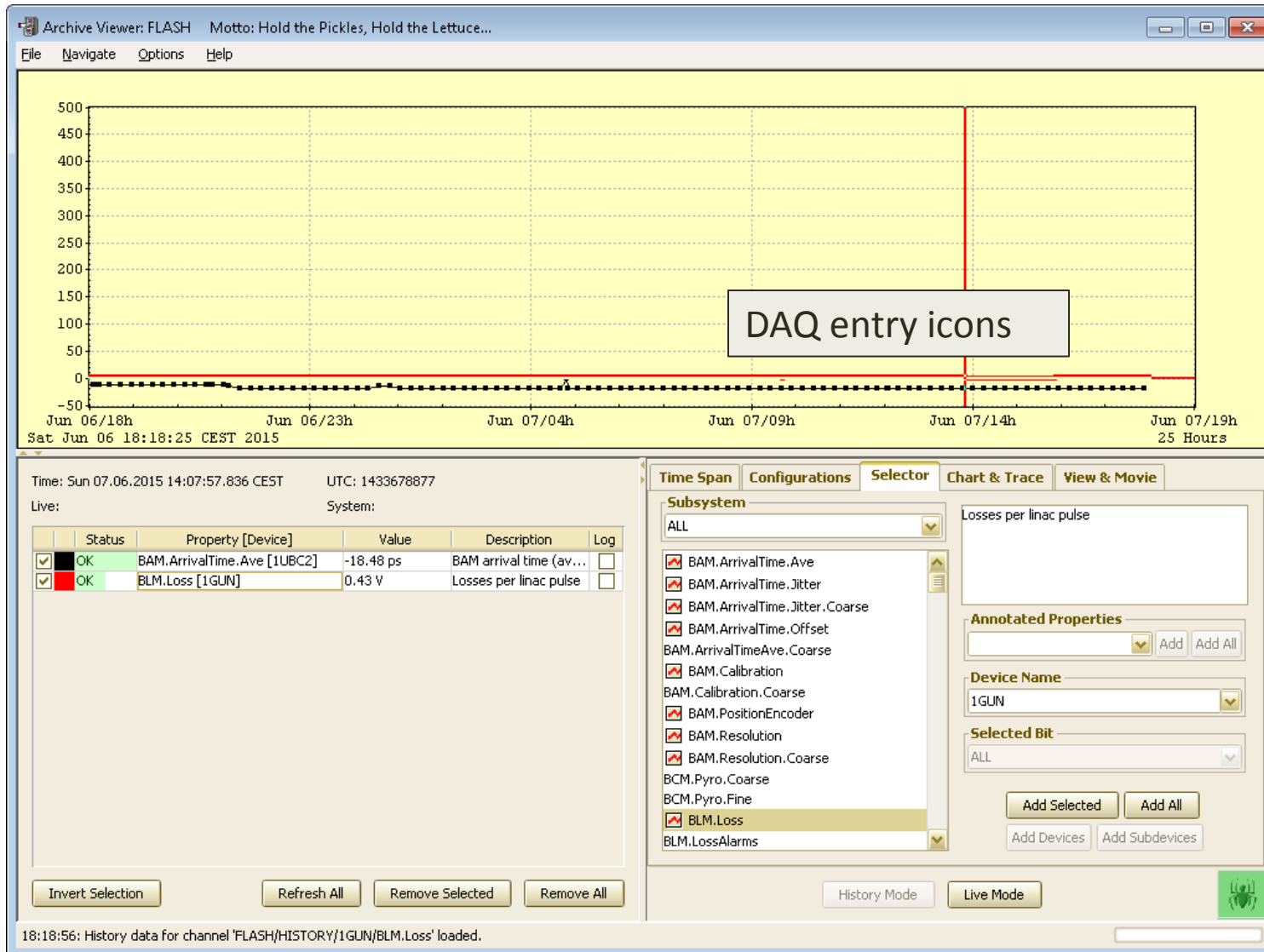
# TINE Studio Applications

## Operation History Viewer

View fatal alarms for selected alarm systems with cursor move.



# TINE Studio Applications



# TINE Studio Applications

Can store and display video properties.

The screenshot displays the TINE Studio Archive Viewer interface. The main window is titled "Archive Viewer: PETRA" with the motto "Motto: Hold the Pickles, Hold the Lettuce...". The interface is divided into several sections:

- Top Left:** A line chart showing data over time from Jun 06/18h to Jun 07/14h. The y-axis ranges from 0 to 120. A blue line is at 100, a red line is at 40, and a green line is at 0. A tooltip for the green line reads: "(CTRL + right mouse click to pin) PETRA/HISTORY/keyword [SyncRadInf.Frame] keyword: /PETRA/SRINT1.JPEG/Output[Frame]".
- Top Right:** A video frame showing a diffraction pattern with horizontal blue and yellow bands.
- Bottom Left:** A table with columns: Status, Property [Device], Value, Description, and Log. It lists several system properties.
- Bottom Center:** A control panel with tabs: Time Span, Configurations, Selector, Chart & Trace, and View & Movie. The "View & Movie" tab is active, showing "Array Options" and "Corr. Chart Options".
- Bottom Right:** A status bar showing "18:24:32: Array data for channel 'PETRA/HISTORY/keyword/SyncRadInf.Frame' loaded."

Status	Property [Device]	Value	Description	Log
OK	SyncRadInf.Frame [keyword]	8.04E05	get cur frame nonsc...	
OK	Energy	6.08 GeV	Magnet Energy	
OK	CurDC			
OK	TauDC			

18:24:32: Array data for channel 'PETRA/HISTORY/keyword/SyncRadInf.Frame' loaded.

# TINE Studio Applications

Jackson Pollack displays ...

Can now add up to 128 curves  
Automatically deselect curves which  
cannot be displayed.  
Can 'invert selections'

The screenshot displays the TINE Studio application interface. At the top, a menu bar includes 'File', 'Navigate', 'Options', and 'Help'. Below the menu is a plot area showing a dense collection of multi-colored data points over time, with a red horizontal line at approximately 0.5. The x-axis is labeled with dates from Jun 06/18h to Jun 07/19h. Below the plot, a status bar shows 'Sat Jun 06 18:18:25 CEST 2015' and '25 Hours'.

Below the plot is a table with columns: Status, Property [Device], Value, and Description. The table lists various 'Fast Orbit Feedba...' channels with their respective values and statuses.

Status	Property [Device]	Value	Description
OK	FOFB.SetValues [NWL_46-V]	0.03 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWL_61-V]	-0.19 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWL_75-V]	-0.10 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWL_90-V]	0.16 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWL_104-V]	0.08 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWL_118-V]	0.25 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWL_133-V]	-0.22 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWR_13-V]	-0.12 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWR_31-V]	-0.18 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWR_46-V]	0.00 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWR_61-V]	0.00 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWR_75-V]	0.00 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWR_90-V]	0.00 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWR_104-V]	0.00 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWR_118-V]	0.00 A	Fast Orbit Feedba...
OK	FOFB.SetValues [NWR_133-V]	0.00 A	Fast Orbit Feedba...

Below the table are buttons for 'Invert Selection', 'Refresh All', 'Remove Selected', and 'Remove All'. To the right, a 'Time Span' and 'Configurations' panel is visible, along with a 'Selector' panel. A dialog box titled 'Too Many Channels' is overlaid on the right, with the message: 'You are about to add 128 channels. Are you sure?' and 'Yes' and 'No' buttons. A red arrow points to the 'Selected Bit' dropdown menu in the 'Selector' panel.

18:27:07: Channels added.

# TINE Studio Applications

Reload buttons on all address parameters.

A 'delta-T' display for monitors

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

- Context: PETRA
- Subsystem: ALL
- Server: CYCLER
- Device: ZYK
- Property: CycleNumber
- Data Size: 1
- Data Type: INT32
- Timeout: 1000

The main display area shows the following text:

```
/PETRA/CYCLER/ZYK CycleNumber @ 18:21:51.637  
system stamp: 0, user stamp: 0  
(0,0) 437009455
```

The right-hand panel includes the following controls:

- Buttons: Read, Stop
- Draw Mode: Textbox
- Decimal
- Autoscale:
- Log Scale:
- History:
- Suggest Decorations:
- Suggest Draw Mode:
- Overlap:
- Input Pane:

The status bar at the bottom indicates: Settings: UDP, Timer | Suppress Query Properties and  $\Delta t=0.160$  s, 0 cycles.



# TINE Studio Applications

Video displays now show time and data stamps ...

The screenshot shows the Java Instant Client interface with the following components:

- Menu Bar:** File, Options, Data Transfer, Monitor Options, Debug Options, Help
- Context:** PETRA
- Subsystem:** VIDEO
- Server:** MDI2\_JPEG1
- Device:** Output
- Property:** Frame
- Data Size:** 9437184
- Data Type:** IMAGE
- Command:** get cur frame nonscheduled
- Timeout:** 1000
- Video Display:** /PETRA/MDI2\_JPEG1/Output @ 18:32:59.451  
system stamp: 437013635, user stamp: 0
- Buttons:** Read, Stop
- Draw Mode:** Image
- Decimal:** Decimal
- Checkboxes:** Autoscale, Log Scale, History, Suggest Decorations, Suggest Draw Mode, Overlap, Input Pane
- Status Bar:** Settings: UDP, Timer | Suppress Query Properties, Device Query Precedence  $\Delta t=1.000$  s, 7 cycles

# TINE Watchdog

- **Features**

- **Windows** and **Unix** (Linux, Elinos)
- **Windows:**
  - *Can run as a service*
  - *Can watch services.*
- Monitors server **process**, **CPU load**, **memory**
- Can monitor a TINE property for regular updates.
- Keeps local **histories** ...
- Sets **alarms** (warning and error) for CPU, memory too high, unexpected restarts, missing property updates, etc.
- Can **start** or **attach to** process to be monitored
  - Match path exactly
  - Match command line arguments exactly

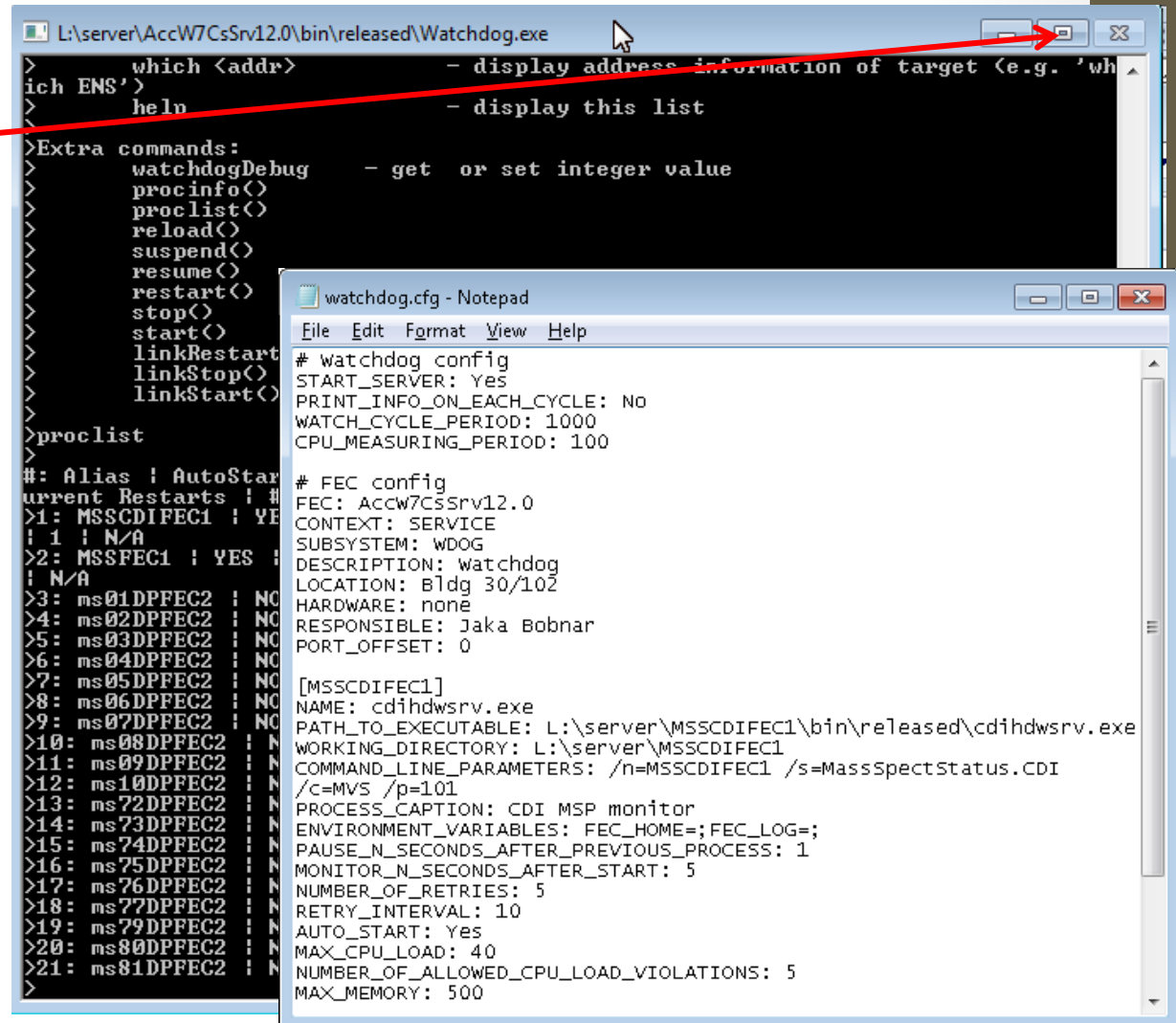
# TINE Watchdog

- **Features**
  - Runs as a **TINE server**
    - With console commands
  - **Command line** utility
    - Access local or remote watchdogs
  - **GUI** access

# TINE Watchdog

- **Windows** example:

- The 'x' is now disabled.
- Can also run as service or in 'background'



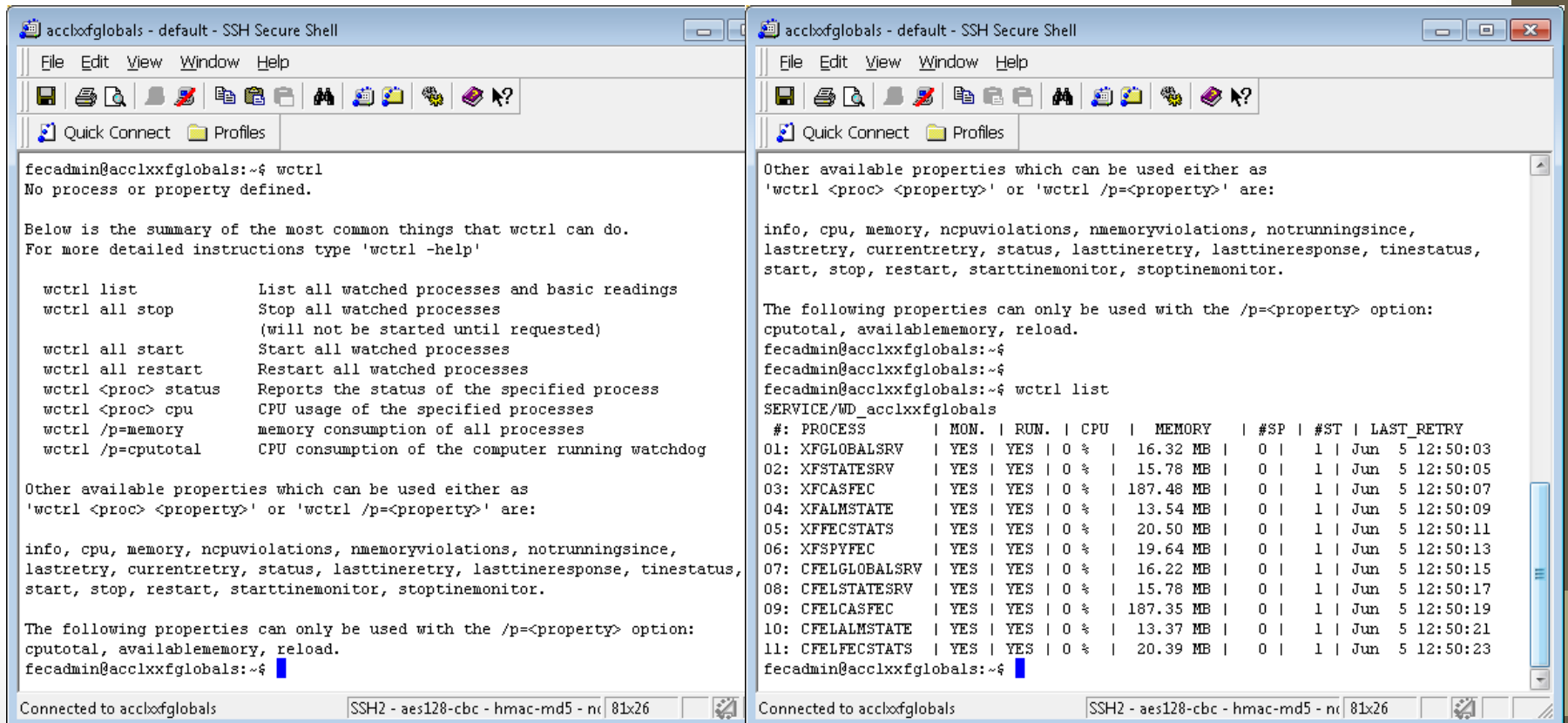
The screenshot shows two windows. The top window is a command prompt running Watchdog.exe. The bottom window is a Notepad file named watchdog.cfg showing the configuration for the watchdog service.

```
L:\server\AccW7CsSrv12.0\bin\released\Watchdog.exe
> which <addr> - display address information of target (e.g. 'wh
ich ENS')
> help - display this list
Extra commands:
watchdogDebug - get or set integer value
procinfo()
proclist()
reload()
suspend()
resume()
restart()
stop()
start()
linkRestart
linkStop()
linkStart()
>proclist
#: Alias | AutoStar
urrent Restarts | #
>1: MSSCDIFEC1 | YE
| 1 | N/A
>2: MSSFEC1 | YES |
| N/A
>3: ms01DPFEC2 | NO
>4: ms02DPFEC2 | NO
>5: ms03DPFEC2 | NO
>6: ms04DPFEC2 | NO
>7: ms05DPFEC2 | NO
>8: ms06DPFEC2 | NO
>9: ms07DPFEC2 | NO
>10: ms08DPFEC2 | N
>11: ms09DPFEC2 | N
>12: ms10DPFEC2 | N
>13: ms72DPFEC2 | N
>14: ms73DPFEC2 | N
>15: ms74DPFEC2 | N
>16: ms75DPFEC2 | N
>17: ms76DPFEC2 | N
>18: ms77DPFEC2 | N
>19: ms79DPFEC2 | N
>20: ms80DPFEC2 | N
>21: ms81DPFEC2 | N
>
```

```
watchdog.cfg - Notepad
File Edit Format View Help
# watchdog config
START_SERVER: Yes
PRINT_INFO_ON_EACH_CYCLE: NO
WATCH_CYCLE_PERIOD: 1000
CPU_MEASURING_PERIOD: 100
# FEC config
FEC: AccW7CsSrv12.0
CONTEXT: SERVICE
SUBSYSTEM: WDOG
DESCRIPTION: watchdog
LOCATION: Bldg 30/102
HARDWARE: none
RESPONSIBLE: Jaka Bobnar
PORT_OFFSET: 0
[MSSCDIFEC1]
NAME: cdihdwsrv.exe
PATH_TO_EXECUTABLE: L:\server\MSSCDIFEC1\bin\released\cdihdwsrv.exe
WORKING_DIRECTORY: L:\server\MSSCDIFEC1
COMMAND_LINE_PARAMETERS: /n=MSSCDIFEC1 /s=MassSpectStatus.CDI
/c=MVS /p=101
PROCESS_CAPTION: CDI MSP monitor
ENVIRONMENT_VARIABLES: FEC_HOME=;FEC_LOG=;
PAUSE_N_SECONDS_AFTER_PREVIOUS_PROCESS: 1
MONITOR_N_SECONDS_AFTER_START: 5
NUMBER_OF_RETRIES: 5
RETRY_INTERVAL: 10
AUTO_START: Yes
MAX_CPU_LOAD: 40
NUMBER_OF_ALLOWED_CPU_LOAD_VIOLATIONS: 5
MAX_MEMORY: 500
```

# TINE Watchdog

- **wctrl** (Watchdog control) command line utility



The image shows two screenshots of a terminal window. The left screenshot shows the command `wctrl` being executed, resulting in a message that no process or property is defined. It then provides a summary of common `wctrl` commands and their functions. The right screenshot shows the command `wctrl list` being executed, which displays a table of monitored processes and their status.

```
acclxxfglobals - default - SSH Secure Shell
File Edit View Window Help
Quick Connect Profiles

fecadmin@acclxxfglobals:~$ wctrl
No process or property defined.

Below is the summary of the most common things that wctrl can do.
For more detailed instructions type 'wctrl -help'

wctrl list          List all watched processes and basic readings
wctrl all stop      Stop all watched processes
                    (will not be started until requested)
wctrl all start     Start all watched processes
wctrl all restart   Restart all watched processes
wctrl <proc> status Reports the status of the specified process
wctrl <proc> cpu     CPU usage of the specified processes
wctrl /p=memory     memory consumption of all processes
wctrl /p=cputotal   CPU consumption of the computer running watchdog

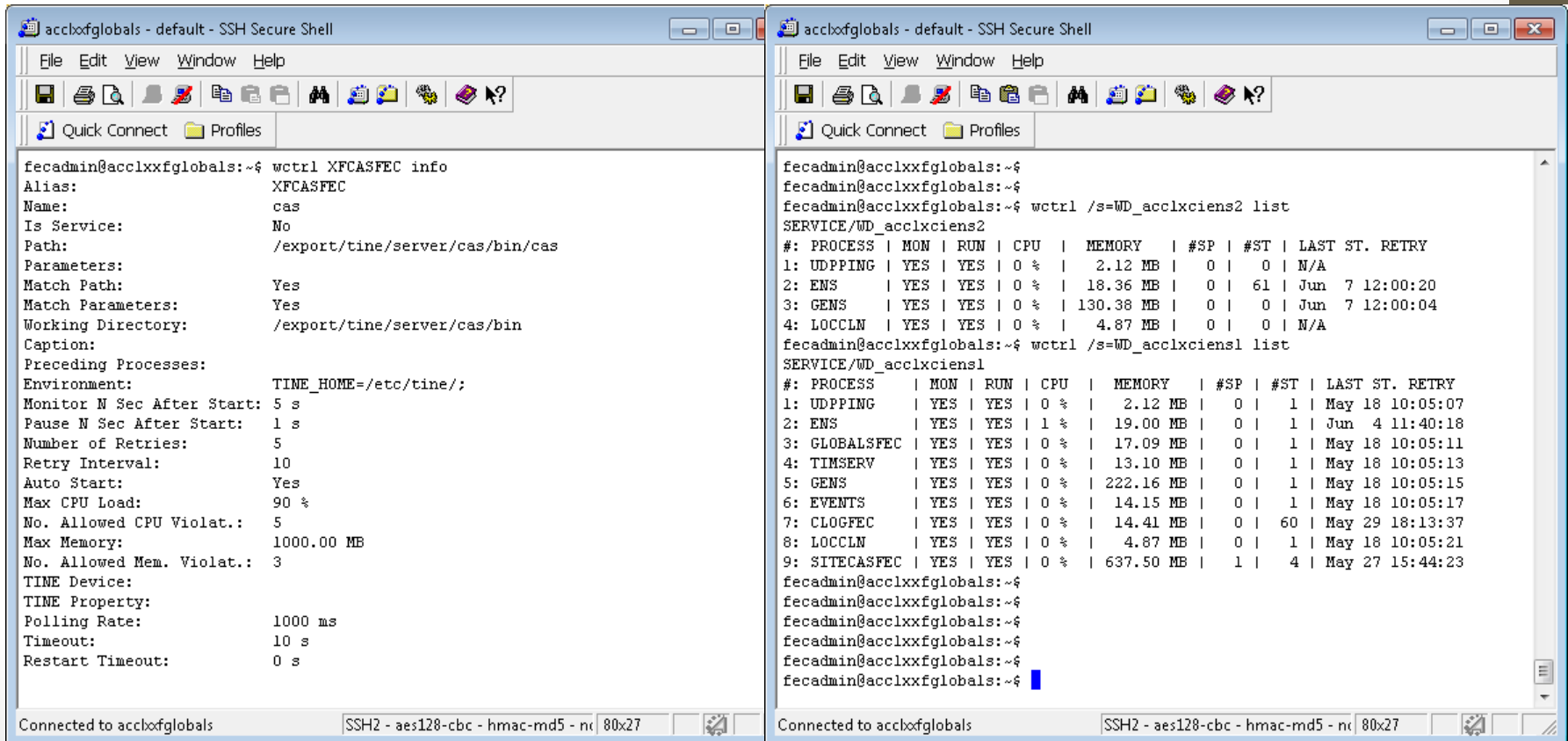
Other available properties which can be used either as
'wctrl <proc> <property>' or 'wctrl /p=<property>' are:

info, cpu, memory, ncpuviolations, mmemoryviolations, notrunningsince,
lastretry, currentretry, status, lasttineretry, lasttineresponse, timestatus,
start, stop, restart, starttineonitor, stoptineonitor.

The following properties can only be used with the /p=<property> option:
cputotal, availablememory, reload.
fecadmin@acclxxfglobals:~$
fecadmin@acclxxfglobals:~$
fecadmin@acclxxfglobals:~$ wctrl list
SERVICE/WD_acclxxfglobals
#: PROCESS | MON. | RUN. | CPU | MEMORY | #SP | #ST | LAST_RETRY
01: XFGLOBALSRV | YES | YES | 0 % | 16.32 MB | 0 | 1 | Jun 5 12:50:03
02: XFCASFEV | YES | YES | 0 % | 15.78 MB | 0 | 1 | Jun 5 12:50:05
03: XFCASFEC | YES | YES | 0 % | 187.48 MB | 0 | 1 | Jun 5 12:50:07
04: XFALMSTATE | YES | YES | 0 % | 13.54 MB | 0 | 1 | Jun 5 12:50:09
05: XFECSTATS | YES | YES | 0 % | 20.50 MB | 0 | 1 | Jun 5 12:50:11
06: XFSPYFEC | YES | YES | 0 % | 19.64 MB | 0 | 1 | Jun 5 12:50:13
07: CFELGLOBALSRV | YES | YES | 0 % | 16.22 MB | 0 | 1 | Jun 5 12:50:15
08: CFELSTATSRV | YES | YES | 0 % | 15.78 MB | 0 | 1 | Jun 5 12:50:17
09: CFELCASFEV | YES | YES | 0 % | 187.35 MB | 0 | 1 | Jun 5 12:50:19
10: CFELALMSTATE | YES | YES | 0 % | 13.37 MB | 0 | 1 | Jun 5 12:50:21
11: CFELFECSTATS | YES | YES | 0 % | 20.39 MB | 0 | 1 | Jun 5 12:50:23
fecadmin@acclxxfglobals:~$
```

# TINE Watchdog

- **wctrl** (Watchdog control) command line utility



The image shows two terminal windows from an SSH session. The left window displays the configuration for the 'XFCASFEC' service, and the right window shows the output of the 'wctrl' command used to list and monitor services.

```
fecadmin@acclxxfglobals:~$ wctrl XFCASFEC info
Alias: XFCASFEC
Name: cas
Is Service: No
Path: /export/tine/server/cas/bin/cas
Parameters:
Match Path: Yes
Match Parameters: Yes
Working Directory: /export/tine/server/cas/bin
Caption:
Preceding Processes:
Environment: TINE_HOME=/etc/tine/;
Monitor N Sec After Start: 5 s
Pause N Sec After Start: 1 s
Number of Retries: 5
Retry Interval: 10
Auto Start: Yes
Max CPU Load: 90 %
No. Allowed CPU Violat.: 5
Max Memory: 1000.00 MB
No. Allowed Mem. Violat.: 3
TINE Device:
TINE Property:
Polling Rate: 1000 ms
Timeout: 10 s
Restart Timeout: 0 s
```

```
fecadmin@acclxxfglobals:~$ wctrl /s=WD_acclxcien2 list
SERVICE/WD_acclxcien2
#: PROCESS | MON | RUN | CPU | MEMORY | #SP | #ST | LAST ST. RETRY
1: UDPPING | YES | YES | 0 % | 2.12 MB | 0 | 0 | N/A
2: ENS | YES | YES | 0 % | 18.36 MB | 0 | 61 | Jun 7 12:00:20
3: GENS | YES | YES | 0 % | 130.38 MB | 0 | 0 | Jun 7 12:00:04
4: LOCCLN | YES | YES | 0 % | 4.87 MB | 0 | 0 | N/A
fecadmin@acclxxfglobals:~$ wctrl /s=WD_acclxcien1 list
SERVICE/WD_acclxcien1
#: PROCESS | MON | RUN | CPU | MEMORY | #SP | #ST | LAST ST. RETRY
1: UDPPING | YES | YES | 0 % | 2.12 MB | 0 | 1 | May 18 10:05:07
2: ENS | YES | YES | 1 % | 19.00 MB | 0 | 1 | Jun 4 11:40:18
3: GLOBALSFEC | YES | YES | 0 % | 17.09 MB | 0 | 1 | May 18 10:05:11
4: TIMSERV | YES | YES | 0 % | 13.10 MB | 0 | 1 | May 18 10:05:13
5: GENS | YES | YES | 0 % | 222.16 MB | 0 | 1 | May 18 10:05:15
6: EVENTS | YES | YES | 0 % | 14.15 MB | 0 | 1 | May 18 10:05:17
7: CLOGFEC | YES | YES | 0 % | 14.41 MB | 0 | 60 | May 29 18:13:37
8: LOCCLN | YES | YES | 0 % | 4.87 MB | 0 | 1 | May 18 10:05:21
9: SITECASFEC | YES | YES | 0 % | 637.50 MB | 1 | 4 | May 27 15:44:23
fecadmin@acclxxfglobals:~$
fecadmin@acclxxfglobals:~$
fecadmin@acclxxfglobals:~$
fecadmin@acclxxfglobals:~$
fecadmin@acclxxfglobals:~$
```

# TINE Watchdog

- **Watchdog GUI** -> browse among the watchdogs ...

The screenshot shows the TINE Watchdog GUI with the following sections:

**Context:** SERVICE | **Server:** WD\_ACCW7PE5RV13 |  Watchdog Subsystem Only

**Selected Watchdog Server:**

Total CPU Usage: 0 % | Watchdog CPU: 0 % | Remaining Time: 0 s  
 Available Memory: 6.23 GB | Watchdog Memory: 8.38 MB

Process	CPU	Memory	Starts	Stops	Status	Tine Status
MDI2P35MLA1	0 %	13.13 MB	1	0	<span style="color: green;">■</span>	(no monitoring link configured)
MDI2P36LMLA2	0 %	11.87 MB	1	0	<span style="color: green;">■</span>	(no monitoring link configured)
Petra3_P12Col	0 %	7.64 MB	1	0	<span style="color: green;">■</span>	(no monitoring link configured)
P3MST	0 %	13.57 MB	1	0	<span style="color: green;">■</span>	(no monitoring link configured)
P3MST.NO	0 %	13.01 MB	1	0	<span style="color: green;">■</span>	(no monitoring link configured)
P3MST.EWEG	0 %	13.34 MB	1	0	<span style="color: green;">■</span>	(no monitoring link configured)

**Process: P3MST**

CPU Violations: 0 | Last Start Retry: 10:40:49 26. May | Last TINE Response: 08:12:55 17. Aug  
 Memory Violations: 0 | Current Retry: 0 | Last TINE Retry: 08:12:55 17. Aug

Buttons: Start, Stop, Restart, Start Polling, Stop Polling

Setting	Value	Setting	Value
Alias	P3MST	Pause N Seconds After Start	1 s
Process Name	WDProcessInfo	Number of Retries	5
Is Service	false	Retry Interval	10 s
Path	L:./server/P3MST/bin/released/mst.exe	Autostart	true
Startup Parameters	/c=PETRA /s=Scrapers /l=mstbek	Max CPU Load	20 %
Match Parameters	true	No. of Allowed CPU Violations	5
Match Path	true	Max Memory	500.0 MB
Working Directory	L:./server/P3MST	No. of Allowed Memory Violations	1
Console Caption	P3MST	TINE Property	
Preceding Processes		Polling Rate	1000 ms
Environment Variables	FEC_HOME=;FEC_LOG=;FEC_REMOT...	Timeout	10 s
Monitor N Seconds After Start	5 s	Timeout Restart	0 s

# TINE Watchdog

Server and FEC Remote Control Panel for DESY2

File View Tools Help

ALARMSTATE	DESYDATA	LWegBPMs	PIDisplayDeviceStates
ALMSTATE	DESYGLOBALS	LWegBPMStatus	PIKeyBoxes
AMGSCOPE-VI	DESYSTATE	LwLewProxy	Pilotherme_D2
ARCHIVER	DE_BKR	LwPiloProxy	Pilotherme_Lw
BeamRates.TB21	DE_DN_Control	LwWdwProxy	PIPrivateCommands
BeamRates.TB22	DE_DN_Cy28	Mag.Corr	PIPrivateSwitchables
BeamRates.TB24	DE_DN_Cy30	Mag.Corr-LW	PIPrivCmds_piFieldDe...
BeamRateServer	DE_DN_Cy32	Mag.Group	PIPrivCond_piCentDe...
bmst.CDI	DE_DN_Cy34	Mag.Group	PIPrivCond_piFieldDe...
Bunche.DE05	DE_DN_EKTst	Mag.Group.Corr	PIPrivCtrls_piCentDeLP
Bunche.DE17	DE_DN_EKTst_CCD	Mag.Group.Main	PIPrivSwitc_piFieldD...
BunchStrom_IMA	DE_DN_Kly	Mag.Group.Main-LW2	PVideoSwitc_piField...
CAS	DE_DN_Mod	Mag.Main	PKING-VXW
CAS.ARCHIVE	DE_DN_TRANSMITTR	Mag.Main-LW	QMessung-VEE
Chop.CDI	DE_DS_Control	Mag.Main-LW2	QuarzSync-VI
Chop.FanAnCo	DE_DS_Cy04	MAGARCH	QUARZsync-VXW
Chop.MMM	DE_DS_Cy06	MAGARCH2	RadMonIP
Chop.Par	DE_DS_Cy08	MAGBLIND-VXW	RFAlarm
Chop.Power	DE_DS_Cy10	MAGCNTALL-VXW	RFSetValueCavity
Chop.PowerState	DE_DS_Kly	MAGCNTMOD-VXW	RFSetValueRegulation
Chop.Push	DE_DS_Mod	MAGFIFO-VXW	RFStorage
Chop.TimeStore	DE_DS_TRANSMITTR	MAGHEW-VXW	SchirmMon
Chop.TimeStore	DE_DS_Webcam	MAGUET	SchirmMon_CDI

Refresh Ping all Active: 191 of 194 (21:54:14) Chop.Power: Active (21:54:29) Report

Summary: Servers in DESY2 for the selected subsystems

Context: DESY2 FEC Importance: ALL

Selected Subsystems:

<input checked="" type="checkbox"/> DIAG	<input checked="" type="checkbox"/> HIST	<input checked="" type="checkbox"/> INJ	<input checked="" type="checkbox"/> INSTR
<input checked="" type="checkbox"/> MAG	<input checked="" type="checkbox"/> MEX	<input checked="" type="checkbox"/> MISC	<input checked="" type="checkbox"/> PINTLK
<input checked="" type="checkbox"/> RF	<input checked="" type="checkbox"/> SER	<input checked="" type="checkbox"/> TIM	<input checked="" type="checkbox"/> VAC
<input checked="" type="checkbox"/> VIDEO	<input type="checkbox"/> WDOG	<input type="checkbox"/> TEST	

OS Color Code: Dos Unix VxWorks VMS Win16 Win32 Java

21:54:28: Normal

Selected FEC: d2chopsvr  
 Selected Server [Local Name - on FEC]: Chop.Power [CHO004]  
 Subsystem: TIM  
 Version: 4.5.5:5136  
 OS: JAVA  
 Address: 131.169.154.74  
 Port Offset: 3  
 Host Computer: AccW7D2Srv15.desy.de  
 Responsible: labudda  
 Description: Buffer fuer die letzten gesetzten Zeiten d...  
 Location: bldg 30 rm 102 IE-R2 (5)  
 Importance: ESSENTIAL  
 Server App. Version: 1.00.0000

FECs on this host:  
 d2chopsvr (DESY2)  
 d2chommm (DESY2)  
 d2chopperhw (DESY2)  
 ACCW7D2SRV15.20 (SERVICE)  
 d2bmsthw (DESY2)  
 AccW7D2Srv15.0 (SERVICE)

Servers on FEC d2chopsvr  
 Chop.Par [CHO001]  
 Chop.Power [CHO004]  
 Chop.Push [CHO003]  
 Chop.TimeStore [CHO005]  
 Chop.PowerState [CHO002]  
 Chop.FanAnCo [CHO006]

Report Attach FEC  
 Ping Control Restart

Host computer: alive  
 Server: alive  
 Daemon: alive (Watchdog TINE Server)

Find your server in the FEC remote panel and launch the WD GUI !

Watchdog: SERVICE/WD\_ACCW7D2SRV15

Total CPU Usage: 1 % Watchdog CPU: 0 %  
 Available Memory: 2.77 GB Watchdog Memory: 8.26 MB

Remaining Time: 0 s Reload Reboot

Process	CPU	Memory	Starts	Stops	Status	Tine Status
multiSedac	0 %	1.74 MB	1	0	●	(no monitoring link configured)
d2chopperhw	0 %	10.30 MB	1	0	●	(no monitoring link configured)
d2bmsthw	0 %	9.84 MB	1	0	●	(no monitoring link configured)
d2chopsvr	0 %	158.23 MB	1	0	●	(no monitoring link configured)
d2chommm	0 %	152.88 MB	1	0	●	(no monitoring link configured)

Process: d2chopsvr ●

CPU Violations: 0 Last Start Retry: 14:58:00 26. May Last TINE Response: Never  
 Memory Violations: 0 Current Retry: 0 Last TINE Retry: Never

Start Stop Restart Start Polling Stop Polling

Setting	Value	Setting	Value
Alias	d2chopsvr	Pause N Seconds After Start	15 s
Process Name	WDProcessInfo	Number of Retries	5
Is Service	false	Retry Interval	10 s
Path	C:/Program Files/Java/jre7/bin/java...	Autostart	true
Startup Parameters	-DMACHINE=DESY2 -DTEMPERATUR...	Max CPU Load	80 %
Match Parameters	true	No. of Allowed CPU Violations	5
Match Path	true	Max Memory	500.0 MB
Working Directory	L:/server/d2chopsvr	No. of Allowed Memory Violations	1
Console Caption	d2chopsvr	TINE Property	
Preceding Processes	d2chopsvr	Polling Rate	1000 ms
Environment Variables	FEC_HOME=;FEC_LOG=;FEC_REMO...	Timeout	10 s
Monitor N Seconds After Start	5 s	Timeout Restart	0 s

Close



# TINE Watchdog

Add the watchdog to the central alarm server  
(e.g. context 'SITE')

The screenshot shows the 'Alarm Database Manager' application window. On the left, a list titled 'Servers in CAS database for SITE' contains various server paths, with '/SERVICE/WD\_ACCW7D25RV12' selected. The main area is titled 'Server and Alarm Configuration' and includes several dropdown menus: 'Context' (SERVICE), 'Device Server' (WD\_ACCW7D25RV12), 'Alarm System' (System), and 'Subsystem' (SER). To the right, there is an 'Extra Alarm Systems' section with an 'Add' button. Below this is an 'Action Items' section with a 'Target Alarm Code' dropdown and a list of items. The item '<5104> CPU too high' is highlighted. A callout box points to this item with the text 'Send emails, etc. ...'. At the bottom left, there are 'Reload DB' and 'Write DB' buttons, and a status bar shows '07:33:04: Data loaded.'.

Alarm Database Manager: SITE

File Options Navigate Help

Servers in CAS database for SITE

/SERVICE/WD\_ACCW7C5SRV17  
/SERVICE/WD\_ACCW7C5SRV18  
/SERVICE/WD\_ACCW7C5SRV2  
/SERVICE/WD\_ACCW7C5SRV3  
/SERVICE/WD\_ACCW7C5SRV4  
/SERVICE/WD\_ACCW7C5SRV5  
/SERVICE/WD\_ACCW7C5SRV6  
/SERVICE/WD\_ACCW7C5SRV7  
/SERVICE/WD\_ACCW7C5SRV8  
/SERVICE/WD\_ACCW7C5SRV9  
/SERVICE/WD\_ACCW7D2BUNCH  
/SERVICE/WD\_ACCW7D2DIAG  
/SERVICE/WD\_ACCW7D2GRABBER  
/SERVICE/WD\_ACCW7D2KICK  
/SERVICE/WD\_ACCW7D2NEBU  
/SERVICE/WD\_ACCW7D2SIGBL5  
/SERVICE/WD\_ACCW7D25RV1  
/SERVICE/WD\_ACCW7D25RV10  
/SERVICE/WD\_ACCW7D25RV11  
**/SERVICE/WD\_ACCW7D25RV12**  
/SERVICE/WD\_ACCW7D25RV13  
/SERVICE/WD\_ACCW7D25RV14  
/SERVICE/WD\_ACCW7D25RV15  
/SERVICE/WD\_ACCW7D25RV2  
/SERVICE/WD\_ACCW7D25RV3  
/SERVICE/WD\_ACCW7D25RV4  
/SERVICE/WD\_ACCW7D25RV5  
/SERVICE/WD\_ACCW7D25RV6  
/SERVICE/WD\_ACCW7D25RV7  
/SERVICE/WD\_ACCW7D25RV8

OK Cancel

Server and Alarm Configuration

CAS Device Server List

Context: SERVICE

Device Server: WD\_ACCW7D25RV12

Alarm System: System

Subsystem: SER

Extra Alarm Systems

Add

Delete

Action Items

Target Alarm Code:

Mail To:

Current Action Items:

<999> Not Responding  
<5101> CPU too high  
<5102> Memory too high  
<5103> Property link timeout  
**<5104> CPU too high**  
<5105> Memory too high  
<5106> Property link timeout

Reload DB Write DB

07:33:04: Data loaded.

# TINE Watchdog

Alarm data provides useful information ...

The screenshot displays the TINE Watchdog interface. A central window titled "Alarm Details: System: WD\_ACCW7D2SRV6/PiloD2Ser.13" is open, showing a table of properties and values for an alarm. Below this, a table lists recent alarm events. To the right, a summary dashboard shows a warning level of 51, a spider icon, and radio buttons for "Live" and "Archive". Below the dashboard is a table of active alarms, and at the bottom, a detailed table of alarm descriptors and times.

Property	Value
Alarm System	System
Device Server	WD_ACCW7D2SRV6
Alarm Device	PiloD2Ser.13
Device Text	
FEC Name	AccW7D2Srv6.0
Host Address	
HostName	
Location	bldg 30 rm 102 IE-R3 (2)
Alarm Text	CPU usage of the process is too high
Severity	3
Alarm Data Text	Current CPU, Max CPU, Current Violation, All...
Alarm Tag	CPU too high
URL	
Code	5101
Format	3
Dimension	4
Alarm Region	255 []

Alarm Descriptor	Alarm Time	Duration
New Transient Terminated	07:36:20.067 - Jun 08 CEST	0 sec

Alarm Data: Current CPU, Max CPU, Current Violation, Allowed Violations

```
31
20
1
5
```

Warning: 51

Alarm Display:  Live  Archive

1 Active Alarms Only (184 Disabled)

System	Count	Hardware	Count	Services	Count
System	92	0	0	4	
Hardware	0	0	47	0	0
Services	0	0	0	0	0

Alarm Descriptor	Alarm Time	Duration
Changed	07:39:25.401 - Jun 08 CEST	11.7 days
Data Changed	07:39:03.466 - Jun 08 CEST	11.7 days
New Transient Terminated	07:36:20.067 - Jun 08 CEST	0 sec
New Transient Terminated	07:35:46.551 - Jun 08 CEST	0 sec

07:38:53: Alarms loaded.

# TINE Watchdog

CPU and Memory usage are in the Watchdog's local history !

