



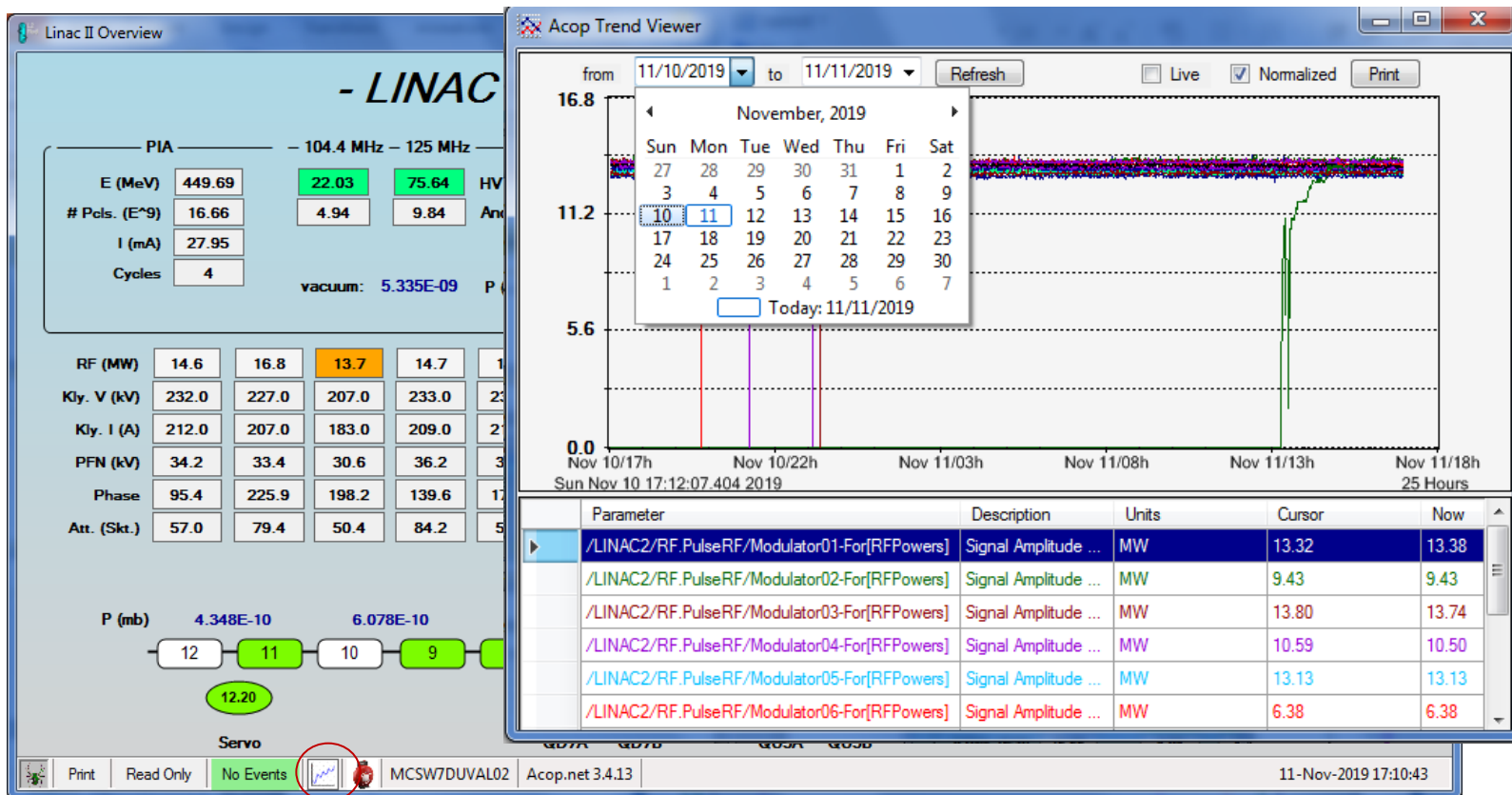
Acop.Net

The best ACOP there's ever been ...

ACOP Trend Viewer:

from last time

- live vs. history mode
- optical zooming in history mode



ACOP Alarms Viewer

- live vs. history mode
- Alarms from central source or targeted server

from last time

The screenshot displays the 'Alarms of Selected Servers' window. At the top, there are radio buttons for 'Fatal', 'Errors', and 'Warnings' (selected), and a checkbox for 'Active Only'. A 'blink:' dropdown is set to 'active alarms'. The time is 11/11/2019 5:17:36 PM. The alarm list contains multiple entries for various modulators (Modulator01 to Modulator12) with messages like 'Shunt Diode (Fehlanpassung)' and 'Pulsdauerfehler Klystron'. A context menu is open over one of the entries, showing 'Acknowledge Alarms' and 'Set Alarm Range Filter'. Below the list is a table with columns 'Source', 'Nr. Alarms', and 'Nr. Active'. The table shows one entry: '/LINAC2/CAS/SYS:L2-Protokoll' with 34 alarms and 0 active.

Source	Nr. Alarms	Nr. Active
/LINAC2/CAS/SYS:L2-Protokoll	34	0

The background window shows 'Linac II Overview' with parameters: PIA (E: 449.69 MeV, # Pcls: 16.66, I: 27.95 mA, Cycles: 4), RF (14.6 MW), Kly. V (232.0 kV), Kly. I (212.0 A), PFN (34.2 kV), Phase (95.4), Att. (57.0 Skt.), and P (4.348E-10 mb). A beamline diagram at the bottom shows stations 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 1, and GUN1. A 'Servo' section shows 12.20 and a status bar at the bottom indicates 'No Events' and 'MCSW7DUVAL02 Acop.net 3.4.13'.

[Acop.NET]

**Dogmatic Assertion:
All GUI applications should
have a status bar !**

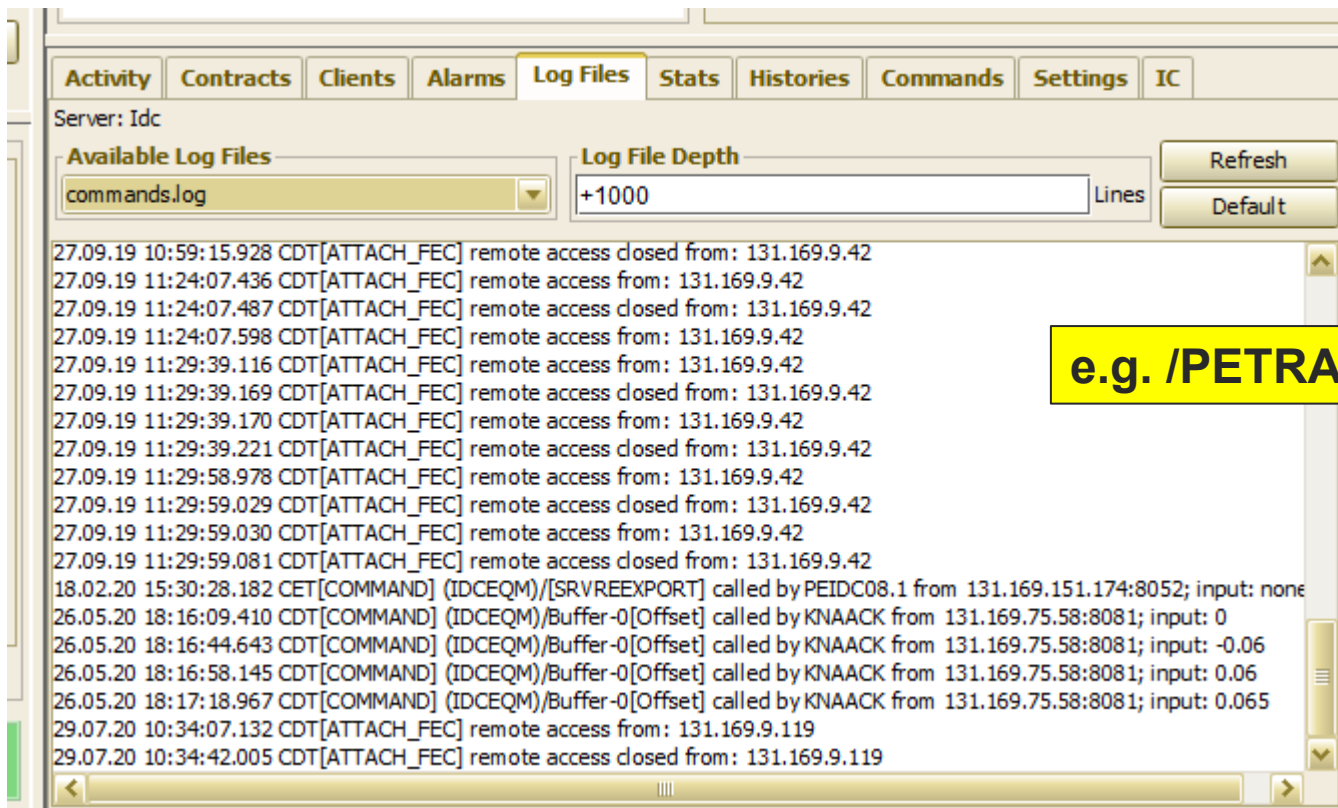
- Status Bar:
 - ~~Dialog and info items (a la mstApp)~~
 - Menu icons with dialog (+info items)
 - Irrelevant icons are now hidden
 - e.g. no *expert* controls registered, no *trip thresholds* registered => then no *app mode* icon and no *events* icon..
- Demos :
 - The Status bar with examples for
 - Application Mode
 - Trend Viewer
 - Alarms Viewer
 - Commands Viewer
 - Run-time drag and drops ...



New, and it's good!

TINE standard feature:

All servers maintain a commands.log :



Activity Contracts Clients Alarms **Log Files** Stats Histories Commands Settings IC

Server: Idc

Available Log Files: commands.log

Log File Depth: +1000 Lines

Refresh Default

```
27.09.19 10:59:15.928 CDT[ATTACH_FEC] remote access closed from: 131.169.9.42
27.09.19 11:24:07.436 CDT[ATTACH_FEC] remote access from: 131.169.9.42
27.09.19 11:24:07.487 CDT[ATTACH_FEC] remote access closed from: 131.169.9.42
27.09.19 11:24:07.598 CDT[ATTACH_FEC] remote access from: 131.169.9.42
27.09.19 11:29:39.116 CDT[ATTACH_FEC] remote access from: 131.169.9.42
27.09.19 11:29:39.169 CDT[ATTACH_FEC] remote access closed from: 131.169.9.42
27.09.19 11:29:39.170 CDT[ATTACH_FEC] remote access from: 131.169.9.42
27.09.19 11:29:39.221 CDT[ATTACH_FEC] remote access closed from: 131.169.9.42
27.09.19 11:29:58.978 CDT[ATTACH_FEC] remote access from: 131.169.9.42
27.09.19 11:29:59.029 CDT[ATTACH_FEC] remote access closed from: 131.169.9.42
27.09.19 11:29:59.030 CDT[ATTACH_FEC] remote access from: 131.169.9.42
27.09.19 11:29:59.081 CDT[ATTACH_FEC] remote access closed from: 131.169.9.42
18.02.20 15:30:28.182 CET[COMMAND] (IDCEQM)/[SRVREEXPORT] called by PEIDC08.1 from 131.169.151.174:8052; input: none
26.05.20 18:16:09.410 CDT[COMMAND] (IDCEQM)/Buffer-0[Offset] called by KNAACK from 131.169.75.58:8081; input: 0
26.05.20 18:16:44.643 CDT[COMMAND] (IDCEQM)/Buffer-0[Offset] called by KNAACK from 131.169.75.58:8081; input: -0.06
26.05.20 18:16:58.145 CDT[COMMAND] (IDCEQM)/Buffer-0[Offset] called by KNAACK from 131.169.75.58:8081; input: 0.06
26.05.20 18:17:18.967 CDT[COMMAND] (IDCEQM)/Buffer-0[Offset] called by KNAACK from 131.169.75.58:8081; input: 0.065
29.07.20 10:34:07.132 CDT[ATTACH_FEC] remote access from: 131.169.9.119
29.07.20 10:34:42.005 CDT[ATTACH_FEC] remote access closed from: 131.169.9.119
```

e.g. /PETRA/Idc

Acop.NET Status Bar

Linac II Overview

- LINAC II Overview Panel -

PIA — 104.4 MHz — 125 MHz

E (MeV)	449.68	21.66	77.18	HV (kV)
# Pcls. (E^9)	0.04	4.94	10.01	Anode (kV)
I (mA)	0.04			
Cycles	0			

vacuum: 5.662E-09 P (mb)

LINAC II Operation State

Beam for: **Kein Bedarf**

Machine State: **Bereit**

Gun in operation: **GUN 2**

Operation ID: 2964

RF (MW)	14.2	15.4	11.6	12.8	11.3	13.4	9.1	15.5	9.8	14.9	9.0	9.7
Kly. V (kV)	235.0	226.0	221.0	229.0	232.0	229.0	233.0	234.0	240.0	236.0	229.0	227.0
Kly. I (A)	212.0	203.0	197.0	210.0	216.0	205.0	215.0	206.0	211.0	213.0	219.0	217.0
PFN (kV)	34.3	33.4	32.9	35.1	38.1	33.9	34.5	33.9	35.4	33.7	35.9	33.5
Phase	206.3	274.9	235.1	125.1	202.7	307.3	43.0	148.3	128.5	329.0	271.0	311.2
Att. (Skt.)	58.4	79.4	81.2	85.7	76.6	70.0	87.0	65.0	89.0	57.5	78.2	81.0

LINAC II

0.04	# Pcls. (E^9)
0.93	I (mA)

DESY II

Bereit

0.03	I (mA)
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PETRA

Betrieb->Experimente

120.44	I (mA)
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Gun 2

99.40	HV (kV)
80.00	G1 (V)

Gun 1

0.49	V-Kly (kV)
0.00	I-Kly (A)
0.37	

P (mb) 2.686E-10 2.414E-10 1.786E-10 1.107E-09 1.239E-09 2.458E-10

Servo 6.40

QD7A QD7B QU5A QU5B

Print Read Only No Events

CMD MICS10DUVAL01 Acop.net 3.5.1

12-Oct-2020 14:34:19

the new guy

[Acop.NET Commands Viewer]

Who was changing what, when on the servers this application is talking to?

If you're trying to figure something out, this is *very* useful!

The screenshot shows the 'Recent Commands List' window. The main area displays a log of commands with columns for time, server, command, and user. A search filter 'HEIKO' is applied. The bottom table summarizes the data:

Server	Time Last Command	User
/LINAC2/RFGun	12.10.2020 15:38:05.976	77
/LINAC2/RFGun2	12.10.2020 15:38:05.976	77
	12.10.2020 02:49:41.663	97

Let's demo this !