

- **Configuration tools**
- **Diagnostics**
- **Extraction (prototype)**

HDB++ TOOLS - Configuration



The screenshot shows the HdbConfigurator - 2.0 application window. The title bar indicates the date and time: "Mon May 18 14:14:24 CEST 2015". The menu bar includes "File", "View", "Tools", and "help".

The main window is titled "HDB++ Configurator (Cassandra)". On the left, a tree view shows a hierarchy of devices. The "Lifetime" attribute under the "ict1" device is selected, and a context menu is open with options: "Add Attribute to Subscriber", "Configure Polling/Events", and "Test Event".

The right pane shows the configuration for the selected attribute. At the top, it indicates "33 subscribers: Cassandra Booster 1". Below this, there are three tabs: "146 Started Attributes", "0 Paused Attributes", and "0 Stopped Attributes". A filter is set to "tango:// */*/*/*". The main list displays 146 attributes, all of which are "pressure" attributes from various tango:// paths, such as "tango://orion.esrf.fr:10000/sy/v-ip/s6-7/pressure".

At the bottom left, a "Device Filter" is set to "*/*/*". Below it, a text box displays polling and event properties:

```
Polling period (mS) = 1000
Archive event properties:
abs_change: 5400
rel_change: Not specified
period : 60000
```

HDB++ TOOLS - Configuration



The screenshot shows the HdbConfigurator - 2.0 application window. The title bar indicates the date and time: "Mon May 18 14:14:24 CEST 2015". The main window has a menu bar with "File", "View", "Tools", and "help". Below the menu bar, there is a toolbar and a status bar showing "33 subscribers: Cassandra Booster 1".

The main content area is divided into several sections:

- Left Panel:** A tree view showing a hierarchy of devices. The selected device is "Lifetime" under "ict1".
- Right Panel:** A list of 146 attributes for the selected device.
- Bottom Left:** A "Device Filter" field containing "*/*/*" and a "Polling period (mS) = 1000" label. Below it, a text box displays "Archive event properties: abs_change: 5400, rel_change: Not specified, period : 60000".
- Bottom Right:** A list of event URIs, such as "tango://orion.esrf.fr:10000/sy/v-ip/s9-5/pressure".

An "Archive Event for" dialog box is open in the center, titled "Archive Event for tango://orion.esrf.fr:10000/sr/d-ct/ict1/Lifetime". The dialog contains the following fields and options:

- Archiver:** A dropdown menu set to "Cassandra Booster 1".
- Start Archiving:** A radio button that is selected.
- Event Properties:** Three input fields with "Reset" buttons:
 - absolute change: 5400
 - relative change: Not specified
 - event period (milliseconds): 60000
- Attribute polling period (milliseconds):** An input field set to 1000.
- Event pushed by code:** An unselected radio button.
- Buttons:** "Subscribe" and "Cancel".

HDB++ TOOLS - Configuration



The screenshot shows the HdbConfigurator - 2.0 application window. The title bar indicates the date and time: Mon May 18 14:14:24 CEST 2015. The main window displays a tree view of devices on the left, with 'Lifetime' selected under the 'd-ct' folder. A dialog box titled 'Archive Event for' is open, showing configuration for the event 'tango://orion.esrf.fr:10000/sr/d-ct/ict1/Lifetime'. The 'Archiver' dropdown is set to 'Cassandra Booster 1'. The 'Event Properties' section includes 'absol' and 'relati' options, with 'absol' selected. The 'event period (milliseconds)' is set to 60000. The 'Attribute polling period (milliseconds)' is set to 1000. There are 'Reset' buttons for each of these fields. At the bottom of the dialog, there is a radio button for 'Event pushed by code' and 'Subscribe' and 'Cancel' buttons. The background window shows a list of devices, a 'Device Filter' set to '*/*/*', and a list of attributes for the selected event, including various pressure measurements from tango://orion.esrf.fr:10000/sy/v-ip/s9-5/pressure to tango://orion.esrf.fr:10000/sy/v-pen/s4-1/pressure.

HDB++ TOOLS - Configuration



HdbConfigurator - 2.0 - Mon May 18 14:14:24 CEST 2015

File View Tools Help

HDB++ Configurator (Cassandra)

33 subscribers: **Cassandra SR 2**

199 Started Attributes 0 Paused Attributes 0 Stopped Attributes

Filter: `tango:// */*/*/*` 199 attributes

sr/d-ct/ict1/Lifetime

- d-beamdiag
- d-beamloss
- d-bpm
- d-bpmlibera
- d-bpmlibera-test
- d-brems
- d-bunch-length
- d-ccd
- d-ccdbpm
- d-ct
 - 1
 - ct1-test
 - fct-id05
 - ict-id10
 - ict-id15
 - ict1
 - CurrentDeviceName
 - Current
 - Lifetime
 - State
 - Status
 - nidaq-id05
 - nidaq-id10
 - pct-id05
 - pct-id10

Device Filter: `*/*/*`

Polling period (mS) = 1000
Archive event properties:
abs_change: 5400
rel_change: Not specified
period : 60000

tango//orion.esrf.fr:10000/sr/d-ct/1/lifetime
tango//orion.esrf.fr:10000/sr/d-ct/fct-id05/current
tango//orion.esrf.fr:10000/sr/d-ct/fct-id05/lifetime
tango//orion.esrf.fr:10000/sr/d-ct/ict-id10/current
tango//orion.esrf.fr:10000/sr/d-ct/ict-id10/lifetime
tango//orion.esrf.fr:10000/sr/d-ct/ict-id15/current
tango//orion.esrf.fr:10000/sr/d-ct/ict-id15/lifetime
tango//orion.esrf.fr:10000/sr/d-ct/ict1/current
tango//orion.esrf.fr:10000/sr/d-ct/ict1/lifetime
tango//orion.esrf.fr:10000/sr/d-ct/pct-id10/rawcurrent
tango//orion.esrf.fr:10000/sr/d-ct/pct-id15/current
tango//orion.esrf.fr:10000/sr/d-ct/pct-id15/lifetime
tango//orion.esrf.fr:10000/sr/d-ig5/c01-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c02-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c03-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c04-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c05-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c06-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c07-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c08-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c09-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c10-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c11-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c12-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c13-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c14-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c15-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c16-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c17-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c18-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c19-d2/doserate
tango//orion.esrf.fr:10000/sr/d-ig5/c20-d2/doserate

HDB++ TOOLS - Diagnostics



HdbDiagnostics - 1.13 - Wed Apr 08 09:16:17 CEST 2015

File View help

HDB++ Diagnostics (Cassandra)

	Faulty	Started	Stopped	Pending	ev/sec	Fail./sec
Cassandra Beam Position Mo...	278	279	0	0	0.00	0.00
Cassandra Booster 1	0	146	0	0	4.00	0.00
Cassandra D-RGA	7	70	0	0	0.00	0.00
Cassandra Experiments Gam...	0	43	0	0	2.00	0.00
Cassandra FE Vacuum Pressur...	0	200	0	0	0.00	0.00
Cassandra Front Ends	0	173	0	0	0.00	0.00
Cassandra ID22	0	7	0	0	0.00	0.00
Cassandra ID30	0	2	0	0	0.00	0.00
Cassandra Insertion Devices 1	0	91	0	0	0.00	0.00
Cassandra Insertion Devices 2	0	113	0	0	0.00	0.00
Cassandra Insertion Devices ...	0	38	0	0	0.00	0.00
Cassandra LINAC	0	122	0	0	0.00	0.00
Cassandra Power Supplies	0	155	0	0	0.00	0.00
Cassandra RGA 1	0	368	0	0	1.00	0.00
Cassandra RGA 2	0	305	0	0	2.00	0.00
Cassandra RGA 3	0	262	0	0	1.00	0.00
Cassandra RGA 4	0	480	0	0	0.00	0.00
Cassandra RGA 5	0	244	0	0	3.00	0.00
Cassandra RGA 6	0	488	0	0	2.00	0.00
Cassandra RGA 7	0	244	0	0	2.00	0.00
Cassandra RGA 8	0	427	0	0	0.00	0.00
Cassandra Radiations	1	128	0	0	0.00	0.00
Cassandra SR 1	1	82	0	0	11.00	0.00
Cassandra SR 2	1	199	0	0	1.00	0.00
Cassandra SR Correctors	0	94	0	0	0.00	0.00
Cassandra SR RF	0	38	0	0	0.00	0.00
Cassandra SR Steerers	6	203	0	0	5.00	0.00
Cassandra SR Vacuum 1	0	60	0	0	0.00	0.00
Cassandra SR Vacuum Pressur...	0	729	0	0	2.00	0.00
Cassandra SR Vacuum Tempe...	0	940	0	0	0.00	0.00
Cassandra SYSTEM 1	2	192	0	0	0.00	0.00
Cassandra TL1/TL2	7	28	0	0	0.00	8.00
HDB statistics	0	68	0	0	14.00	0.00
	Faulty	Started	Stopped	Pending	ev/sec	Fail./sec
ES. Manager	303	7018	0	0	44	9

HDB++ TOOLS - Diagnostics



HdbDiagnostics - 1.13 - Wed Apr 08 09:16:17 CEST 2015

File View help

HDB++ Diagnostics (Cassandra)

	Faulty	Started	Stopped	Pending	ev/sec	Fail./sec
Cassandra Beam Position Mo...	278	279	0	0	0.00	0.00
Cassandra Booster 1	0	146	0	0	4.00	0.00
Cassandra D-RGA	7	70	0	0	0.00	0.00
Cassandra Experiments Gam...	0	43	0	0	2.00	0.00
Cassandra FE Vacuum Pressur...	0	200	0	0	0.00	0.00

Cassandra TL1/TL2

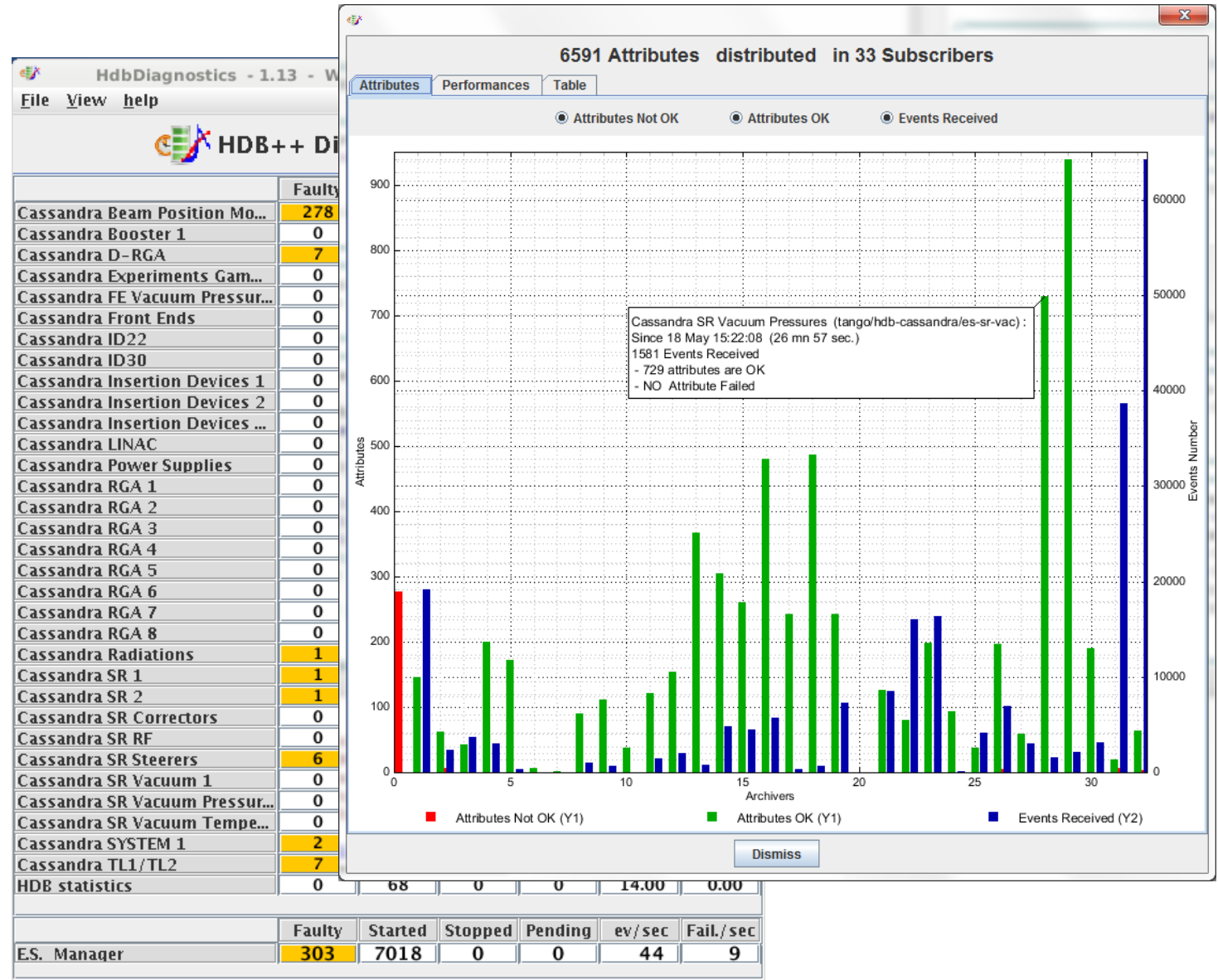
File View

Cassandra TL1/TL2 Filter: Apply

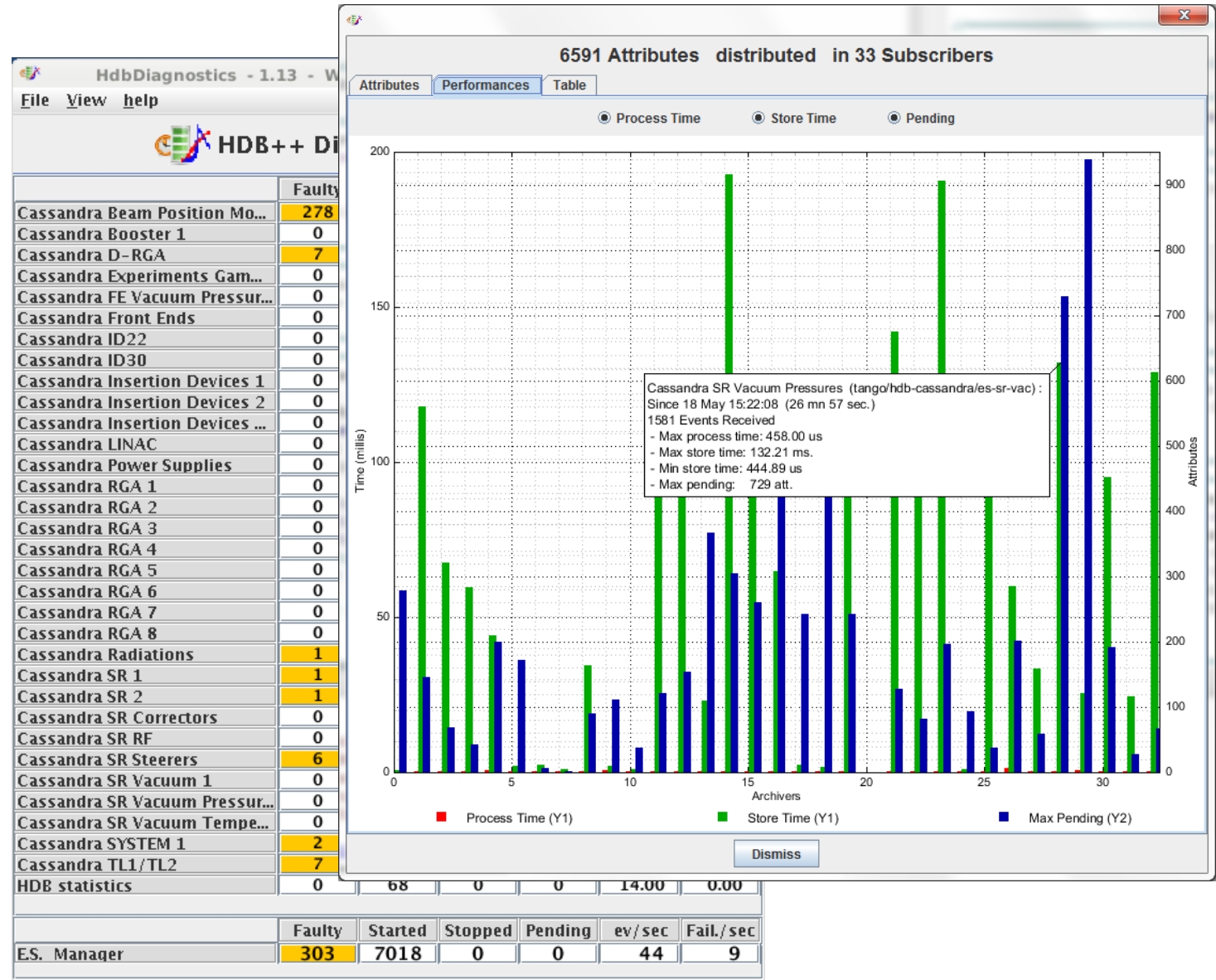
Attribute Names	Fault description
tango://orion.esrf.fr:10000/tl2/d-bpm/cv9/horizontalpos	<input checked="" type="checkbox"/> Current is under the validity threshold.
tango://orion.esrf.fr:10000/tl2/d-bpm/cv9/verticalpos	<input checked="" type="checkbox"/> Current is under the validity threshold.
tango://orion.esrf.fr:10000/tl2/d-bpm/qd12/current	<input checked="" type="checkbox"/> It is currently not allowed to read attribute Gain
tango://orion.esrf.fr:10000/tl2/d-bpm/qd12/horizontalpos	<input checked="" type="checkbox"/> It is currently not allowed to read attribute Gain
tango://orion.esrf.fr:10000/tl2/d-bpm/qd12/verticalpos	<input checked="" type="checkbox"/> It is currently not allowed to read attribute Gain
tango://orion.esrf.fr:10000/tl2/d-bpm/qf13/horizontalpos	<input checked="" type="checkbox"/> Current is under the validity threshold.
tango://orion.esrf.fr:10000/tl2/d-bpm/qf13/verticalpos	<input checked="" type="checkbox"/> Current is under the validity threshold.

Cassandra RGA 8	0	427	0	0	0.00	0.00
Cassandra Radiations	1	128	0	0	0.00	0.00
Cassandra SR 1	1	82	0	0	11.00	0.00
Cassandra SR 2	1	199	0	0	1.00	0.00
Cassandra SR Correctors	0	94	0	0	0.00	0.00
Cassandra SR RF	0	38	0	0	0.00	0.00
Cassandra SR Steerers	6	203	0	0	5.00	0.00
Cassandra SR Vacuum 1	0	60	0	0	0.00	0.00
Cassandra SR Vacuum Pressur...	0	729	0	0	2.00	0.00
Cassandra SR Vacuum Tempe...	0	940	0	0	0.00	0.00
Cassandra SYSTEM 1	2	192	0	0	0.00	0.00
Cassandra TL1/TL2	7	28	0	0	0.00	8.00
HDB statistics	0	68	0	0	14.00	0.00
	Faulty	Started	Stopped	Pending	ev/sec	Fail./sec
ES. Manager	303	7018	0	0	44	9

HDB++ TOOLS - Diagnostics



HDB++ TOOLS - Diagnostics



HDB++ TOOLS - Diagnostics



HdbDiagnostics - 1.13 - W

File View help

HDB++ Diagnostics

	Faulty
Cassandra Beam Position Mo...	278
Cassandra Booster 1	0
Cassandra D-RGA	7
Cassandra Experiments Gam...	0
Cassandra FE Vacuum Pressur...	0
Cassandra Front Ends	0
Cassandra ID22	0
Cassandra ID30	0
Cassandra Insertion Devices 1	0
Cassandra Insertion Devices 2	0
Cassandra Insertion Devices ...	0
Cassandra LINAC	0
Cassandra Power Supplies	0
Cassandra RGA 1	0
Cassandra RGA 2	0
Cassandra RGA 3	0
Cassandra RGA 4	0
Cassandra RGA 5	0
Cassandra RGA 6	0
Cassandra RGA 7	0
Cassandra RGA 8	0
Cassandra Radiations	1
Cassandra SR 1	1
Cassandra SR 2	1
Cassandra SR Correctors	0
Cassandra SR RF	0
Cassandra SR Steerers	6
Cassandra SR Vacuum 1	0
Cassandra SR Vacuum Pressur...	0
Cassandra SR Vacuum Tempe...	0
Cassandra SYSTEM 1	2
Cassandra TL1/TL2	7
HDB statistics	0

	Faulty	Started	Stopped	Pending	ev/sec	Fail./sec
ES. Manager	303	7018	0	0	44	9

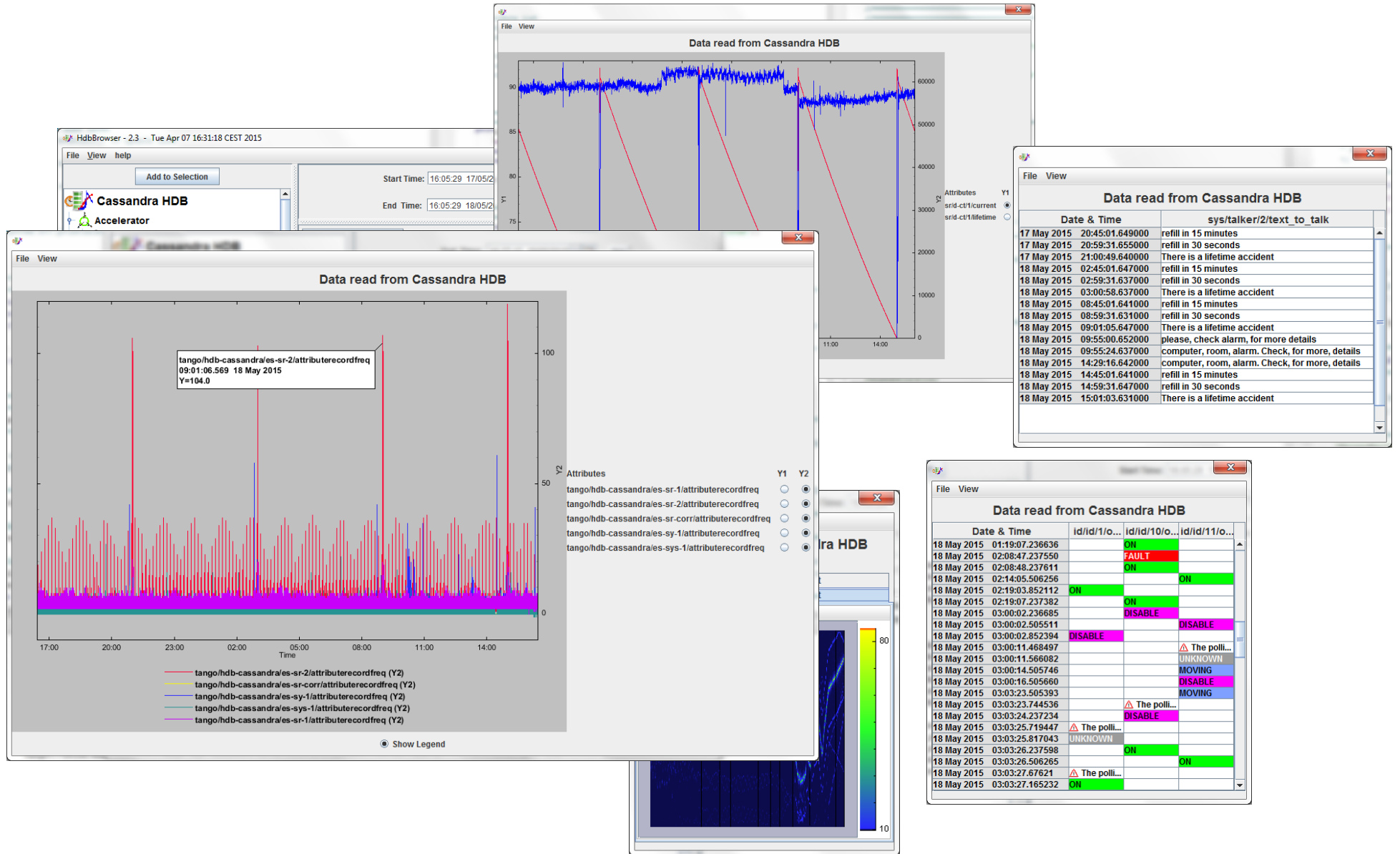
7018 Attributes distributed in 33 Subscribers

Attributes Performances Table

Subscriber	Attributes	Nb Events	Max Store	Max Pendi...	Reset Time	Duration
Cassandra Beam Position Monitors	279	1	903.84 us	279	18 May 14:25:32	1 h 30 mn 16 sec.
Cassandra Booster 1	146	20462	210.34 ms.	146	18 May 14:27:39	1 h 28 mn 09 sec.
Cassandra D-RGA	70	2967	67.80 ms.	70	18 May 15:15:12	40 mn 36 sec.
Cassandra Experiments Gamma Monitors	43	3991	59.77 ms.	43	18 May 14:25:11	1 h 30 mn 37 sec.
Cassandra FE Vacuum Pressures	200	3353	44.35 ms.	200	18 May 14:25:41	1 h 30 mn 07 sec.
Cassandra Front Ends	173	380	2.30 ms.	173	18 May 14:25:25	1 h 30 mn 23 sec.
Cassandra ID22	7	50	2.62 ms.	7	18 May 14:25:34	1 h 30 mn 14 sec.
Cassandra ID30	2	20	1035.21 us	2	18 May 14:26:08	1 h 29 mn 40 sec.
Cassandra Insertion Devices 1	91	1072	34.62 ms.	91	18 May 14:25:51	1 h 29 mn 57 sec.
Cassandra Insertion Devices 2	113	702	2.69 ms.	113	18 May 14:26:01	1 h 29 mn 47 sec.
Cassandra Insertion Devices Corrections	38	70	1256.94 us	38	18 May 14:26:05	1 h 29 mn 43 sec.
Cassandra LINAC	122	1598	122.16 ms.	122	18 May 14:25:06	1 h 30 mn 42 sec.
Cassandra Power Supplies	155	2203	123.18 ms.	155	18 May 14:28:07	1 h 27 mn 41 sec.
Cassandra RGA 1	368	1057	23.36 ms.	368	18 May 15:40:29	15 mn 19 sec.
Cassandra RGA 2	305	5243	193.03 ms.	305	18 May 14:26:56	1 h 28 mn 52 sec.
Cassandra RGA 3	262	4985	160.85 ms.	262	18 May 14:27:17	1 h 28 mn 31 sec.
Cassandra RGA 4	480	6255	187.84 ms.	480	18 May 14:27:52	1 h 27 mn 56 sec.
Cassandra RGA 5	244	606	2.52 ms.	244	18 May 15:44:31	11 mn 17 sec.
Cassandra RGA 6	488	2184	219.63 ms.	488	18 May 15:48:30	7 mn 18 sec.
Cassandra RGA 7	244	7985	93.00 ms.	244	18 May 14:28:53	1 h 26 mn 55 sec.
Cassandra RGA 8	427	602	2.29 ms.	427	18 May 15:52:56	2 mn 52 sec.
Cassandra Radiations	128	9072	142.31 ms.	128	18 May 14:26:11	1 h 29 mn 37 sec.
Cassandra SR 1	82	17366	329.06 ms.	82	18 May 14:25:44	1 h 30 mn 04 sec.
Cassandra SR 2	199	17480	331.47 ms.	198	18 May 14:26:00	1 h 29 mn 48 sec.
Cassandra SR Correctors	94	282	1841.07 us	94	18 May 14:26:09	1 h 29 mn 39 sec.
Cassandra SR RF	38	4721	96.26 ms.	38	18 May 14:51:20	1 h 04 mn 28 sec.
Cassandra SR Steerers	203	7617	60.29 ms.	203	18 May 14:26:35	1 h 29 mn 13 sec.
Cassandra SR Vacuum 1	60	3333	33.49 ms.	60	18 May 14:26:56	1 h 28 mn 52 sec.
Cassandra SR Vacuum Pressures	729	1807	132.21 ms.	729	18 May 15:22:07	33 mn 41 sec.
Cassandra SR Vacuum Temperatures	940	2432	28.11 ms.	940	18 May 15:37:08	18 mn 40 sec.
Cassandra SYSTEM 1	192	3435	95.43 ms.	192	18 May 14:29:25	1 h 26 mn 23 sec.
Cassandra TL1/TL2	28	41999	24.79 ms.	28	18 May 14:29:29	1 h 26 mn 19 sec.
HDB statistics	68	71204	381.75 ms.	68	18 May 14:26:13	1 h 29 mn 35 sec.

Dismiss

HDB++ TOOLS - Extraction (prototype)



HDB++ TOOLS



Thank you for your attention.