

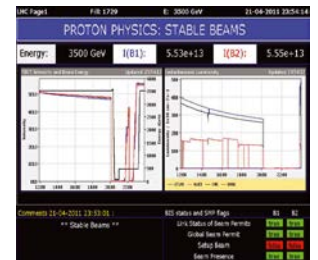
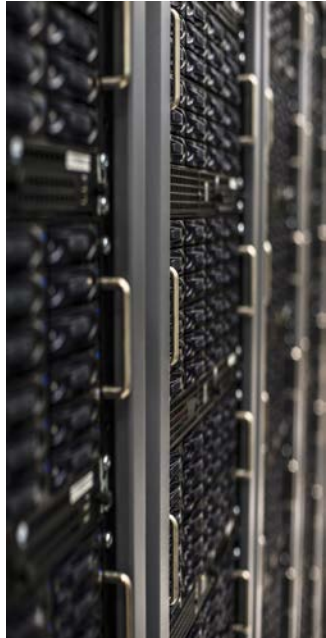


DIAMON2

Improved Monitoring of CERN's Accelerator Controls Infrastructure

Péter JURCSÓ - W. Buczak, M. Buttner, F. Ehm, M. Mitev

CERN's accelerators infrastructure



DIagnostic and MONitoring version 2

- Provides tools for accelerator controls infrastructure monitoring
- Delivers easy to use first line diagnostics and means to
 - solve problems or help to decide about intervention
- Offers monitoring as well as on-demand enquiries
- Integrates with other systems including publishing, notification and alarms
- For operators and equipment groups

DMN2 console (PROD) - new configuration 1.0.13 - JURCSO as GUEST - db:hc 1.0.13 - JURCSO as GUEST - db:all

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CERN Control & Monitoring: C²MON

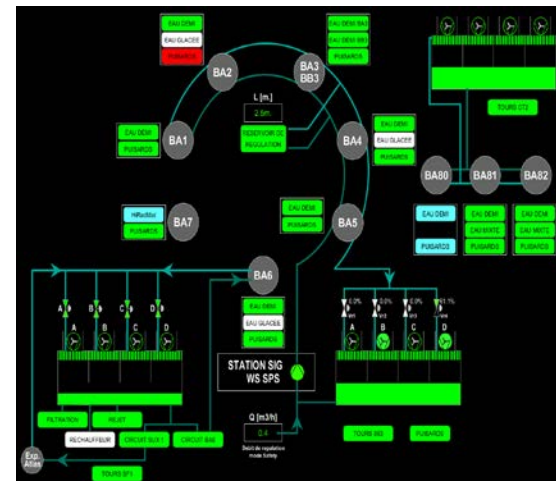
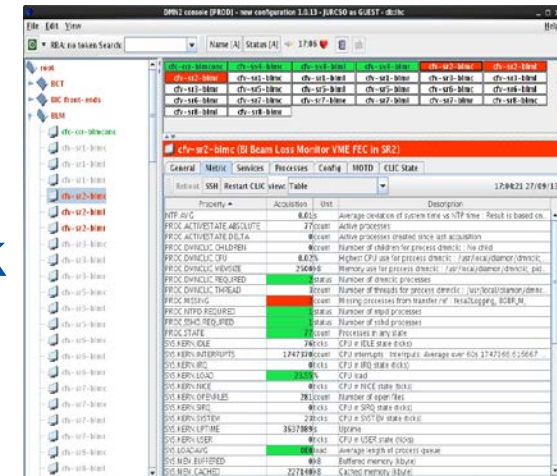
- Collaboration of two Departments to build a generic framework for building inter-operational monitoring solutions

- Applications based on C²MON framework

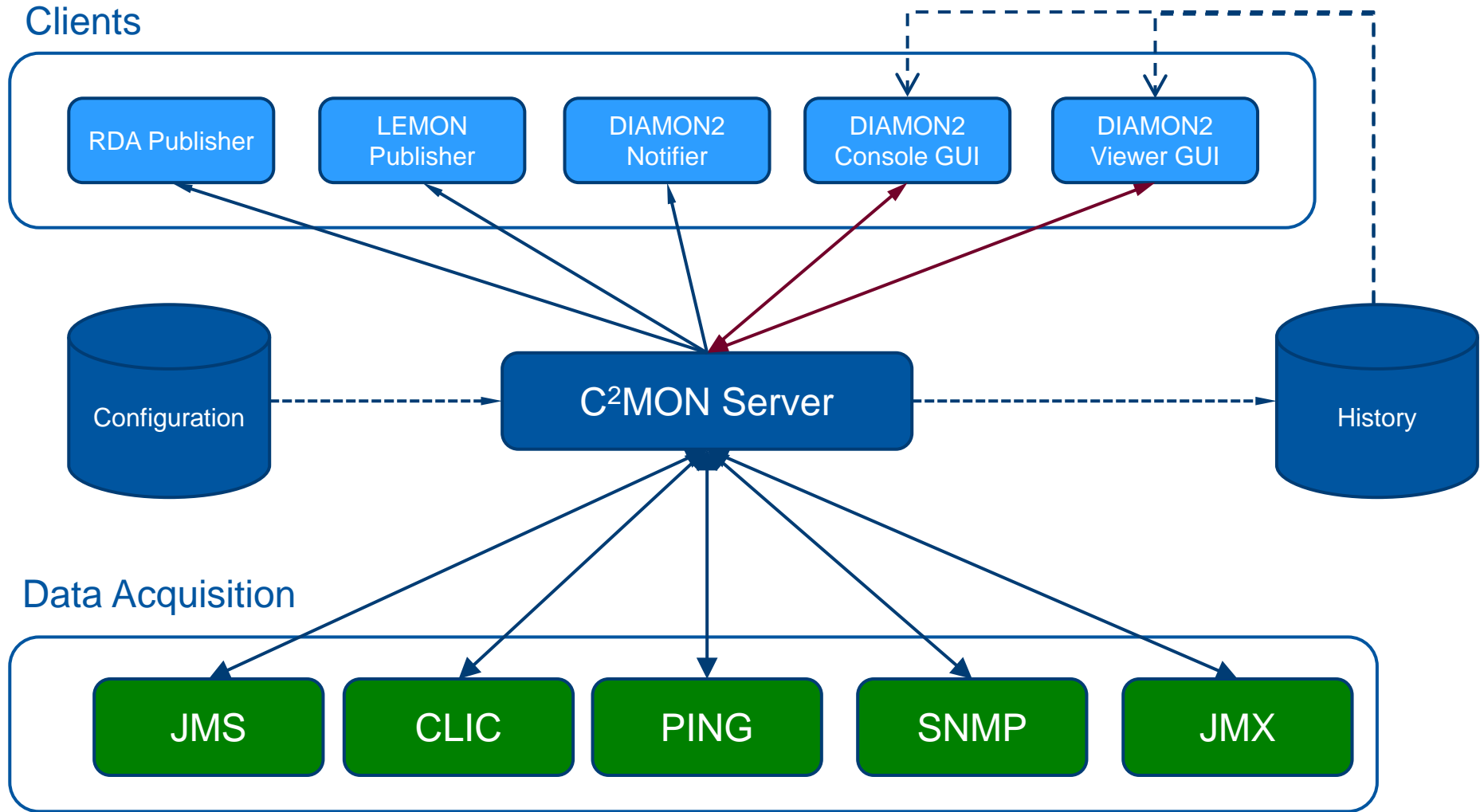
- Beams Department: DIAMON2
- General Services Department: TIM2

- Properties

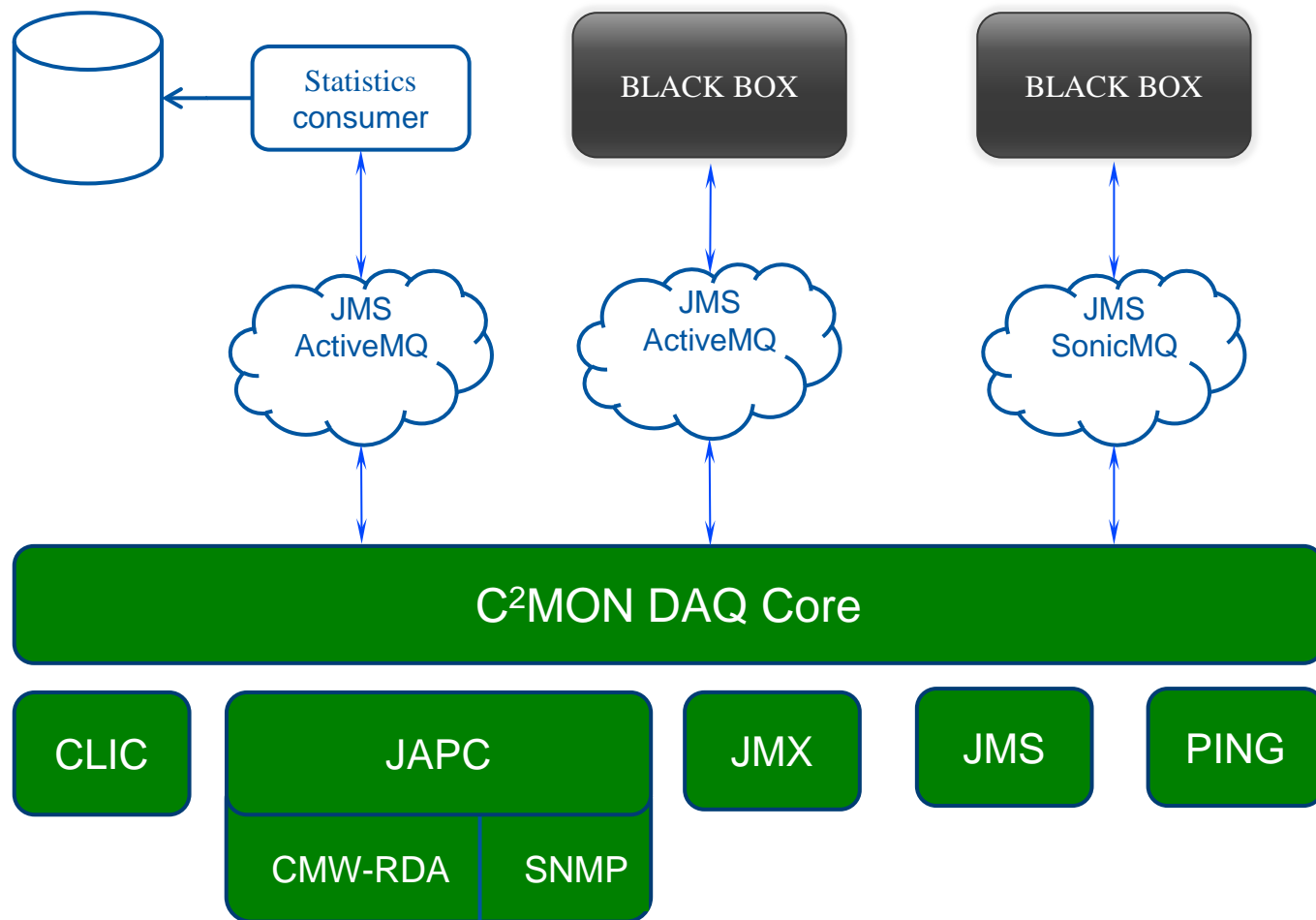
- Ready-to-use solutions for the majority of required functionalities
- Robust, modular, extensible system



DIAMON2 architecture



DIAMON2 DAQ Components

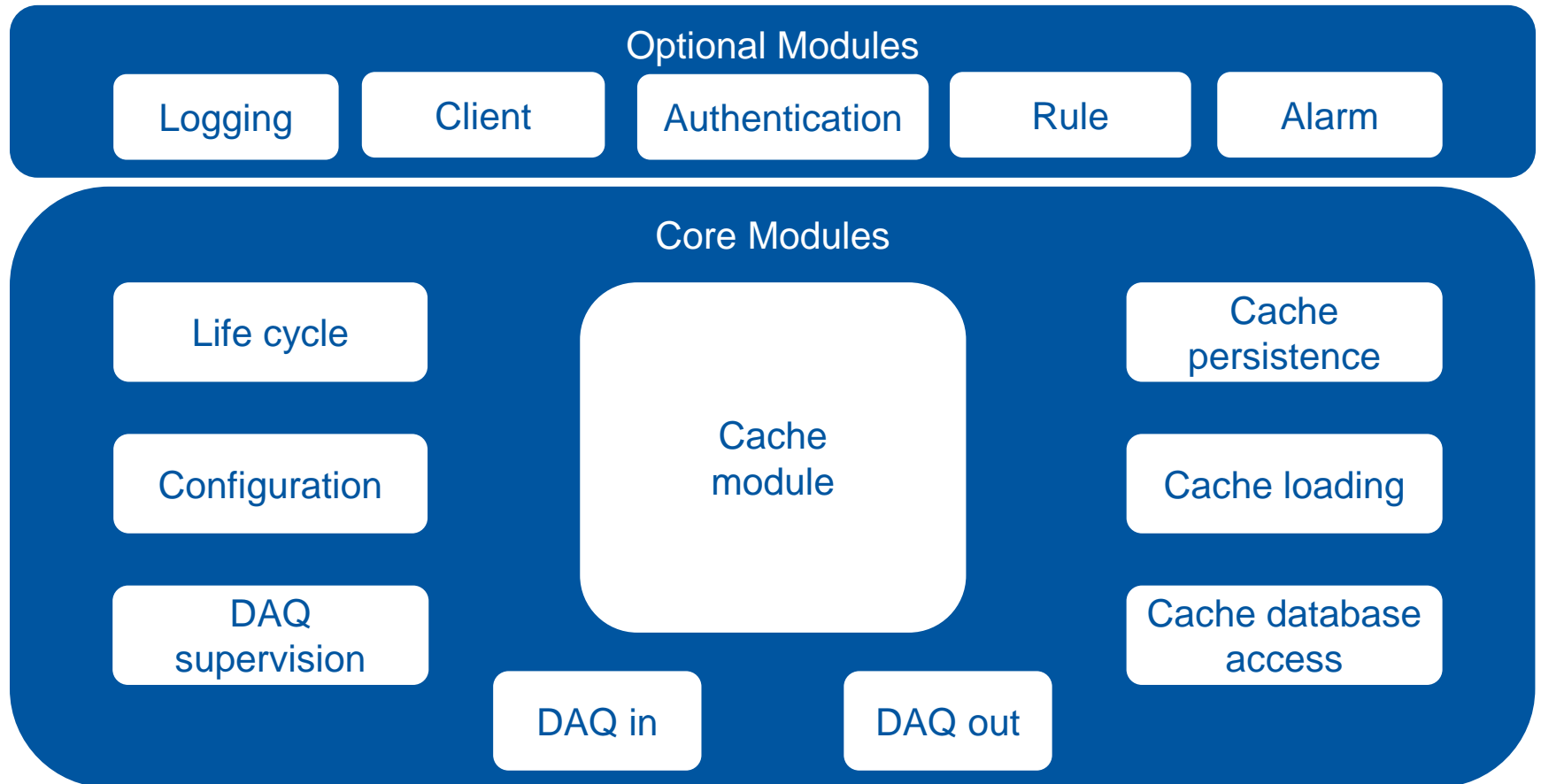


DIAMON2 CLIC

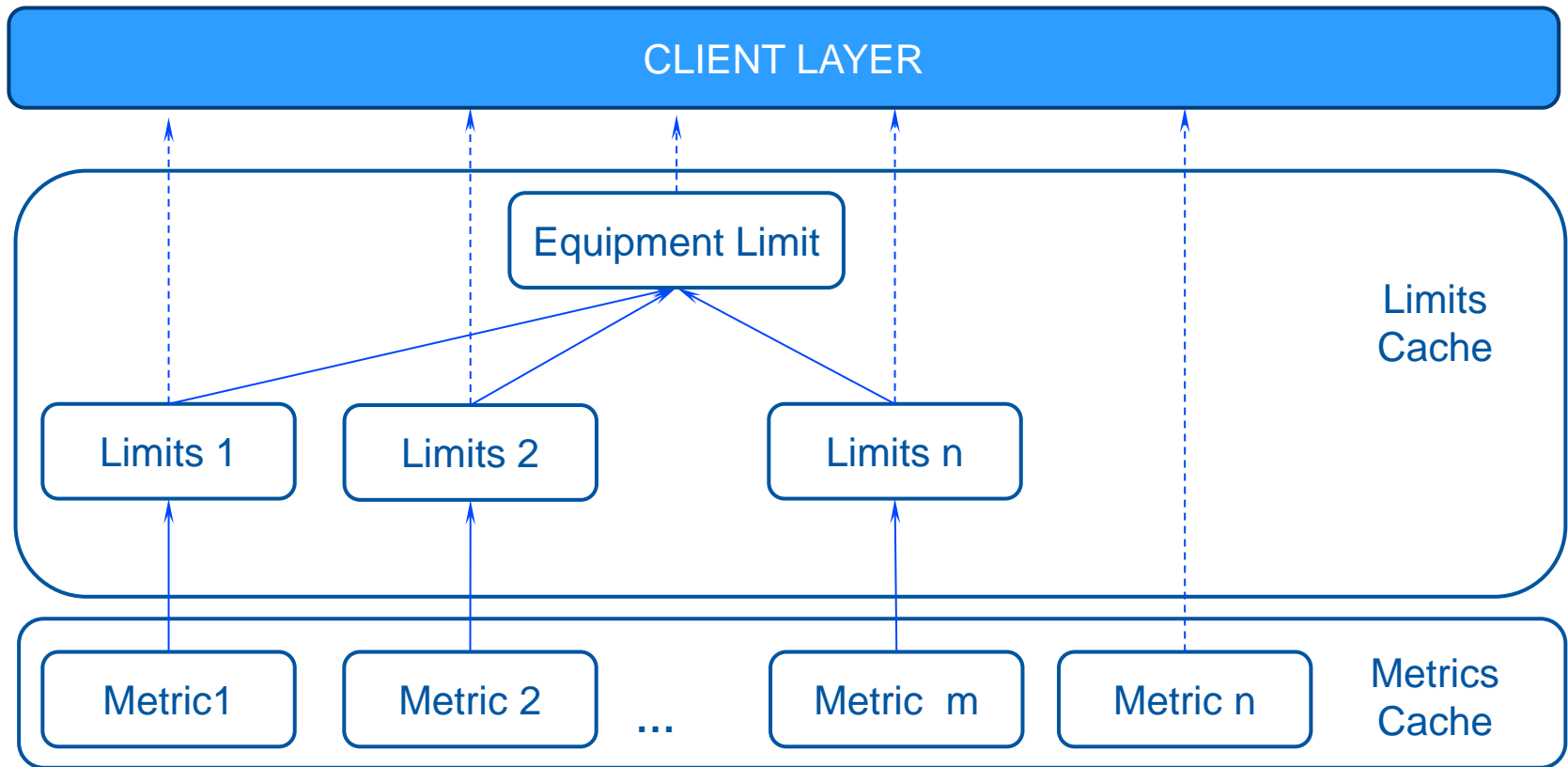
- The CLIC agent
 - Written in C++, small footprint
 - Deployed on over 2000 computers:
LynxOS, Linux & Windows
- The communication
 - STOMP / JMS protocol with text messages
 - Offering subscription and command – reply
- Modular approach is providing flexibility
 - Different modules are available on different platforms

DIAMON2 Server

- Modular approach based on C²MON



Metric, limits, equipment limits



DIAMON2 Console

DMN2 console [PROD] - new configuration 1.0.13 - JURCSO as GUEST - db:hc 1.0.13 - JURCSO as GUEST - db:all

File Edit View

RB/A: no token Search: blm Name [A] Status [N] 13:45

ALL

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cf-163-r1	cf-163-r2	cf-170-aresplgw	cf-170-1422	cf-170-tpic
cf-181-r1	cf-193-altf2	cf-193-asr1	cf-193-tpow1	cf-193-tpow2
atimcp100	cf-193-tdscrap	cf-195-mkadhorm	cf-197-bisobeam	cf-197-tpicops
atimcp102	cf-197-tpicrlm	cf-197-tpicres	cf-197-tpicrps	cf-2001-bmv
atimcp103	cf-2001-tpow1	cf-2010-bpm	cf-2010-ccaos4	cf-2010-tpow1
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bmu20s	cf-353-bpmops	cf-354-rpsth16	cf-355-rpaos12	cf-355-rpscloud
bmu30s	cf-355-rpsring	cf-358-rpsa	cf-359-cstep	cf-359-rsepta
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	cf-867-mkdpm199	cf-867-mkdpm200	cf-867-mkdpm201	cf-867-mkdpm202
	cf-867-mkdpm203	cf-867-mkdpm204	cf-867-mkdpm205	cf-867-mkdpm206
	cf-867-mkdpm207	cf-867-mkdpm208	cf-867-mkdpm209	cf-867-mkdpm210
	cf-867-mkdpm211	cf-867-mkdpm212	cf-867-mkdpm213	cf-867-mkdpm214
	cf-867-mkdpm215	cf-867-mkdpm216	cf-867-mkdpm217	cf-867-mkdpm218
	cf-867-mkdpm219	cf-867-mkdpm220	cf-867-mkdpm221	cf-867-mkdpm222
	cf-867-mkdpm223	cf-867-mkdpm224	cf-867-mkdpm225	cf-867-mkdpm226
	cf-867-mkdpm227	cf-867-mkdpm228	cf-867-mkdpm229	cf-867-mkdpm230
	cf-867-mkdpm231	cf-867-mkdpm232	cf-867-mkdpm233	cf-867-mkdpm234
	cf-867-mkdpm235	cf-867-mkdpm236	cf-867-mkdpm237	cf-867-mkdpm238
	cf-867-mkdpm239	cf-867-mkdpm240	cf-867-mkdpm241	cf-867-mkdpm242
	cf-867-mkdpm243	cf-867-mkdpm244	cf-867-mkdpm245	cf-867-mkdpm246
	cf-867-mkdpm247	cf-867-mkdpm248	cf-867-mkdpm249	cf-867-mkdpm250
	cf-867-mkdpm251	cf-867-mkdpm252	cf-867-mkdpm253	cf-867-mkdpm254
	cf-867-mkdpm255	cf-867-mkdpm256	cf-867-mkdpm257	cf-867-mkdpm258
	cf-867-mkdpm259	cf-867-mkdpm260	cf-867-mkdpm261	cf-867-mkdpm262
	cf-867-mkdpm263	cf-867-mkdpm264	cf-867-mkdpm265	cf-867-mkdpm266
	cf-867-mkdpm267	cf-867-mkdpm268	cf-867-mkdpm269	cf-867-mkdpm270
	cf-867-mkdpm271	cf-867-mkdpm272	cf-867-mkdpm273	cf-867-mkdpm274
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	cf-867-mkdpm287	cf-867-mkdpm288	cf-867-mkdpm289	cf-867-mkdpm290
	cf-867-mkdpm291	cf-867-mkdpm292	cf-867-mkdpm293	cf-867-mkdpm294
	cf-867-mkdpm295	cf-867-mkdpm296	cf-867-mkdpm297	cf-867-mkdpm298
	cf-867-mkdpm299	cf-867-mkdpm300	cf-867-mkdpm301	cf-867-mkdpm302
	cf-867-mkdpm303	cf-867-mkdpm304	cf-867-mkdpm305	cf-867-mkdpm306
	cf-867-mkdpm307	cf-867-mkdpm308	cf-867-mkdpm309	cf-867-mkdpm310
	cf-867-mkdpm311	cf-867-mkdpm312	cf-867-mkdpm313	cf-867-mkdpm314
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	cf-867-mkdpm339	cf-867-mkdpm340	cf-867-mkdpm341	cf-867-mkdpm342
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	cf-867-mkdpm363	cf-867-mkdpm364	cf-867-mkdpm365	cf-867-mkdpm366
	cf-867-mkdpm367	cf-867-mkdpm368	cf-867-mkdpm369	cf-867-mkdpm370
	cf-867-mkdpm371	cf-867-mkdpm372	cf-867-mkdpm373	cf-867-mkdpm374
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	cf-867-mkdpm407	cf-867-mkdpm408	cf-867-mkdpm409	cf-867-mkdpm410
	cf-867-mkdpm411	cf-867-mkdpm412	cf-867-mkdpm413	cf-867-mkdpm414
	cf-867-mkdpm415	cf-867-mkdpm416	cf-867-mkdpm417	cf-867-mkdpm418
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	cf-867-mkdpm495	cf-867-mkdpm496	cf-867-mkdpm497	cf-867-mkdpm498
	cf-867-mkdpm499	cf-867-mkdpm500	cf-867-mkdpm501	cf-867-mkdpm502
	cf-867-mkdpm503	cf-867-mkdpm504	cf-867-mkdpm505	cf-867-mkdpm506
	cf-867-mkdpm507	cf-867-mkdpm508	cf-867-mkdpm509	cf-867-mkdpm510
	cf-867-mkdpm511	cf-867-mkdpm512	cf-867-mkdpm513	cf-867-mkdpm514
	cf-867-mkdpm515	cf-867-mkdpm516	cf-867-mkdpm517	cf-867-mkdpm518
	cf-867-mkdpm519	cf-867-mkdpm520	cf-867-mkdpm521	cf-867-mkdpm522
	cf-867-mkdpm523	cf-867-mkdpm524	cf-867-mkdpm525	cf-867-mkdpm526
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	cf-867-mkdpm531	cf-867-mkdpm532	cf-867-mkdpm533	cf-867-mkdpm534
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	cf-867-mkdpm559	cf-867-mkdpm560	cf-867-mkdpm561	cf-867-mkdpm562
	cf-867-mkdpm563	cf-867-mkdpm564	cf-867-mkdpm565	cf-867-mkdpm566
	cf-867-mkdpm567	cf-867-mkdpm568	cf-867-mkdpm569	cf-867-mkdpm5705

DMN2 console [PROD] - new configuration 1.0.13 - JURCSO as GUEST - db:lhc

File Edit View Help

RBA: no token Search: Name [A] Status [A] 17:06

root

- BCT
- BIC front-ends
- BLM
 - cfc-ccr-blmconc
 - cfv-sr1-blmc
 - cfv-sr1-blml
 - cfv-sr1-blmr
 - cfv-sr2-blmc**
 - cfv-sr2-blml
 - cfv-sr2-blmr
 - cfv-sr3-blmc
 - cfv-sr3-blml
 - cfv-sr3-blmr
 - cfv-sr5-blmc
 - cfv-sr5-blml
 - cfv-sr5-blmr
 - cfv-sr6-blmc
 - cfv-sr6-blml
 - cfv-sr6-blmr
 - cfv-sr7-blmc
 - cfv-sr7-blml
 - cfv-sr7-blmr
 - cfv-sr8-blmc
 - cfv-sr8-blml

cfc-ccr-blmconc	cfv-sx4-blmc	cfv-sx4-blml	cfv-sx4-blmr	cfv-sr2-blmc	cfv-sr2-blml
cfv-sr2-blmr	cfv-sr1-blmc	cfv-sr1-blml	cfv-sr1-blmr	cfv-sr3-blmc	cfv-sr3-blml
cfv-sr3-blmr	cfv-sr5-blmc	cfv-sr5-blml	cfv-sr5-blmr	cfv-sr6-blmc	cfv-sr6-blml
cfv-sr6-blmr	cfv-sr7-blmc	cfv-sr7-blml	cfv-sr7-blmr	cfv-sr8-blmc	cfv-sr8-blml
cfv-sr8-blml	cfv-sr8-blmr				

cfv-sr2-blmc (BI Beam Loss Monitor VME FEC in SR2)

General Metric Services Processes Config MOTD CLIC State

Reboot SSH Restart CLIC view: Table 17:04:21 27/09/13

Property ^	Acquisition	Unit	Description
NTP.AVG	0.01	s	Average deviation of system time vs NTP time : Result is based on...
PROC.ACTIVESTATE.ABSOLUTE	77	count	Active processes
PROC.ACTIVESTATE.DELTA	0	count	Active processes created since last acquisition
PROC.DMNCLIC.CHILDREN	0	count	Number of children for process dmnclic : No child
PROC.DMNCLIC.CPU	0.02	%	Highest CPU use for process dmnclic : /usr/local/diamon/dmnclic,...
PROC.DMNCLIC.MEMSIZE	2500	kB	Memory use for process dmnclic : /usr/local/diamon/dmnclic, pid...
PROC.DMNCLIC.REQUIRED	2	status	Number of dmnclic processes
PROC.DMNCLIC.THREAD	3	count	Number of threads for process dmnclic : /usr/local/diamon/dmnc...
PROC.MISSING	2	count	Missing processes from transfer.ref : fesa2Logging, BOBR_M,
PROC.NTPD.REQUIRED	1	status	Number of ntpd processes
PROC.SSHD.REQUIRED	1	status	Number of sshd processes
PROC.STATE	77	count	Processes in any state
SYS.KERN.IDLE	76	ticks	CPU in IDLE state (ticks)
SYS.KERN.INTERRUPTS	1747370	count	CPU interrupts : Interrupts: Average over 60s 1747366.616667 ...
SYS.KERN.IRQ	0	ticks	CPU in IRQ state (ticks)
SYS.KERN.LOAD	23.55	%	CPU load
SYS.KERN.NICE	0	ticks	CPU in NICE state (ticks)
SYS.KERN.OPENFILES	281	count	Number of open files
SYS.KERN.SIRQ	0	ticks	CPU in SIRQ state (ticks)
SYS.KERN.SYSTEM	23	ticks	CPU in SYSTEM state (ticks)
SYS.KERN.UPTIME	3637089	s	Uptime
SYS.KERN.USER	0	ticks	CPU in USER state (ticks)
SYS.LOADAVG	0E0	load	Average length of process queue
SYS.MEM.BUFFERED	0	kB	Buffered memory (kbyte)
SYS.MEM.CACHED	227140	kB	Cached memory (kbyte)

Operational experience since 2012

- Seamless transition to the new system
- Large scale deployment
 - 4820 equipment (including 2060 CLIC)
 - 67 500 metrics and 30 500 limits
 - Processing about 200 updates per second
- Positive user feedback
 - However configuration maintenance to be simplified

Future plans

- Simplification of configuration maintenance
- Integration of a new alarm system
- Web based user interfaces
 - Including functionality for mobile devices
- Making DIAMON2 Open Source



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