

Archiving News

- New TDB Infrastructure (since 2009-04-28):
 - ➔ New server: 2 quad-core CPU, RAM 16 Go
 - ➔ New Storage : EMC Clariion with a capacity of 1.5 To (RAID 10)
- New HDB infrastructure (june 2009) :
 - ➔ New server: 1 quad-core CPU, RAM 16 Go
 - ➔ New Storage : EMC Clariion with a capacity of 2.7 To (RAID 5)

■ Performance :

- ➔ A temporary file with 1200 lines is recorded in 300ms instead of 10 secondes before.
- ➔ Best response in MAMBO.

■ Now, we can :

- ➔ backuped TDB each night.
- ➔ Store 31 days of data and more.

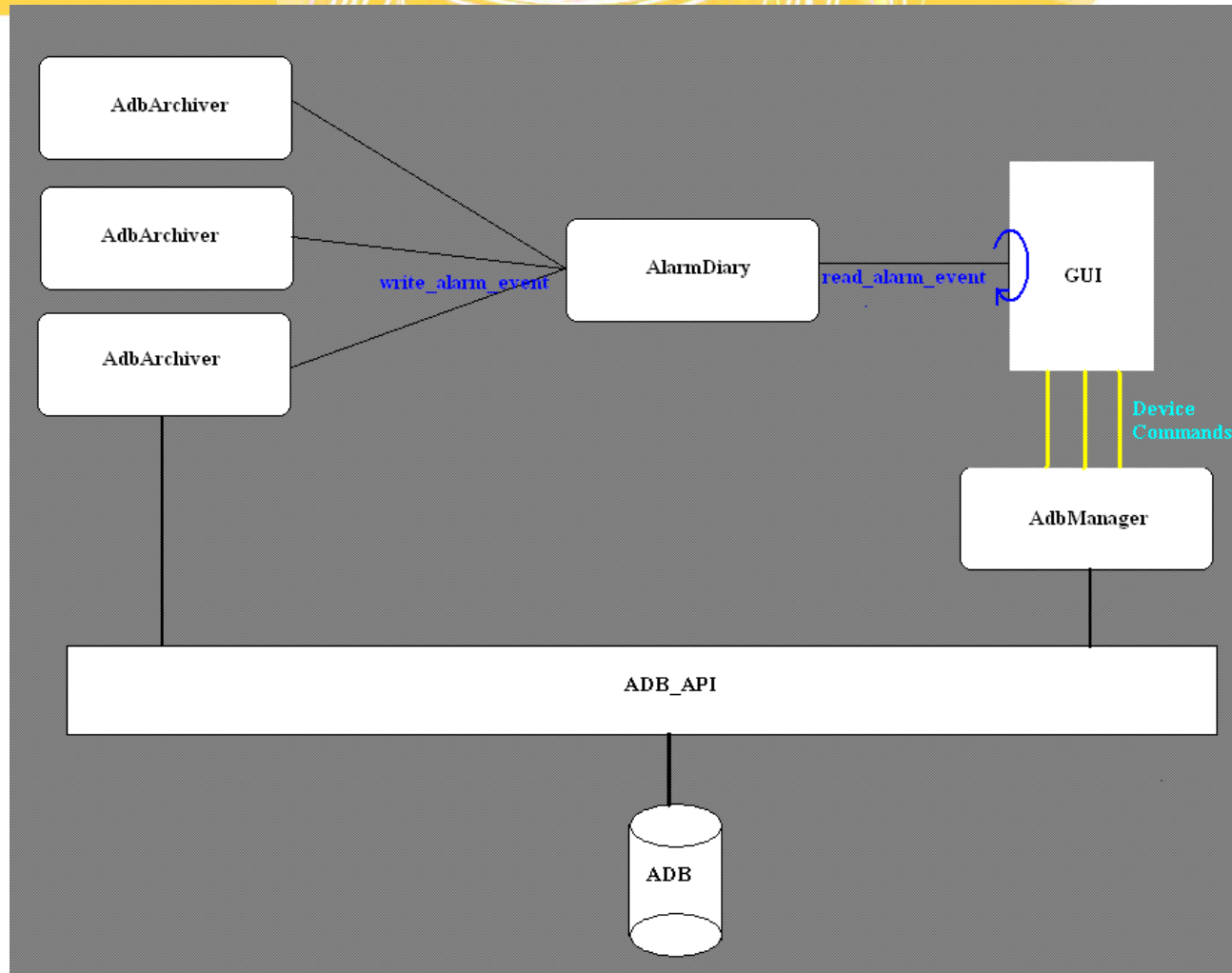
■ The way to reduce the charge :

- ➔ Export temporary file every 1 hour (instead of 30 minutes currently).

- Migration HDB to EMC storage is planned for june. The changes :
 - ➔ New server with better performance
 - ➔ 2.7 To can store several years of data online. Migration HDB to EMC storage is planified for june. The changes :
- Extention of Oracle HDB service to beamlines is planned end 2009
 - ➔ Use of a centerlized Data archiving infrastructure
 - ➔ Overcome current beamline deployment limitations

Project Goals

- Supervise attribute quality and device state changes, and display alarm events.
- Give Users the ability to configure the system themselves.



- The *AlarmDiary* GUI (Macarena) uses *AdbManager* commands for each database transaction.
- The *AdbManager* device dispatches alarm supervision between the existing *AdbArchiver* devices.
- Every *AdbManager* command calls *Adb* api methods and gets responses from database.

- The *AlarmDiary* GUI (Macarena) uses *AdbManager* commands for each database transaction.
- The *AdbManager* device dispatches alarm supervision between the existing *AdbArchiver* devices.
- Every *AdbManager* command calls *Adb* api methods and gets responses from database.

- Database Api: A factory pattern to differentiate specific Oracle and MySql syntax.
- It allows connection and communication with ADB database.
- AdbManager Api: An interface used by devices classes to select/insert ADB data.

- A synchronized event queue
- Has two methods:
 - i) *read_alarm_event()* (Used By the GUI)
 - ii) *write_alarm_event()* (Used By the ADBArchivers)
- Properties:

Device properties [archiving/alarmdiary/ad.1]	
Property name	Value
MaxSize	500

- Start and Stop supervision with two possible modes:
 1. **Periodic mode.**
 2. **Disable mode.**
- Calls `write_alarm_event` for every new inserted event on AlarmDiary device
- Properties:

Device properties [archiving/adb/adbarchiver.sa0]	
Property name	Value
DbHost	ORION
DbName	TEST
DbPassword	adb
DbUser	adb
diaryLogLevel	0
diaryPath	C:\tango\TdbArchiver
hasDiary	0
HasThreadedStartup	0

- Load Balancing between AdbArchivers.
- Manage alarm events Database
- Manage contexts (configurations).
- Properties:

Device properties [archiving/adbmanager/adbmanager.sa1]	
Property name	Value
ADBHost	ORION
ADBName	TEST
ADBPASSWORD	adb
ADBUser	adb

- Display a supervised context as:
 - A tree of supervised and disabled attributes.
 - A table of alarm events: a thread is used to call `read_alarmEvent()` every second to refresh data.
 - A table of deleted alarm events: it's possible to restore an event.

Attributes

Supervised attributes

- context
 - tango
 - tangotest
 - sa_2
 - tango/tangotest/s
 - tango/tangotest/s
 - tango/tangotest/s
 - tango/tangotest/s

Timestamp	Name	ID	Value	min Alarm	max Alarm	min Warning	maxWarning	Delta_T	Delta_Val	Reason	Severity	IsA
2009-04-23 14:56:19	tango/tangotest/sa_2/double_scalar	162	-100.02646367483833	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-23 14:57:49	tango/tangotest/sa_2/double_scalar	162	-40.0465185469283	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-23 14:59:29	tango/tangotest/sa_2/double_scalar	162	-143.1527137282081	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:19:28	tango/tangotest/sa_2/double_scalar	162	13.398671879685352	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:21:08	tango/tangotest/sa_2/double_scalar	162	-91.74148689441155	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:22:38	tango/tangotest/sa_2/double_scalar	162	-40.0465185469283	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:24:08	tango/tangotest/sa_2/double_scalar	162	13.398671879685352	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:25:48	tango/tangotest/sa_2/double_scalar	162	-95.898581078345	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:27:18	tango/tangotest/sa_2/double_scalar	162	-26.75858847889183	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:28:58	tango/tangotest/sa_2/double_scalar	162	-135.65865313094446	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:30:28	tango/tangotest/sa_2/double_scalar	162	-83.34473743269842	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:31:58	tango/tangotest/sa_2/double_scalar	162	-31.19785143510767	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:33:38	tango/tangotest/sa_2/double_scalar	162	-143.1527137282081	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:35:08	tango/tangotest/sa_2/double_scalar	162	-100.02646367483833	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:36:38	tango/tangotest/sa_2/double_scalar	162	-48.84639522700766	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:38:08	tango/tangotest/sa_2/double_scalar	162	6.793189870982979E-4	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:39:48	tango/tangotest/sa_2/double_scalar	162	-116.22087186348583	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:42:48	tango/tangotest/sa_2/double_scalar	162	-8.933584707252963	15.0	300.0	100.0	240.0			0	HIGH	

Timestamp	Name	ID	Value	min Ala...	max Alar...	min Warning	maxWarning	Delta_T	Delta_Val	Reason	Severity	IsA
2009-04-29 11:55:50	tango/tangotest/sa_2/double_scalar_r...	166	-4.467133058985473							0	NO	
2009-04-29 11:55:49	tango/tangotest/sa_2/double_scalar	162	6.793189870982979E-4							0	NO	
2009-04-29 11:55:49	tango/tangotest/sa_2/long_scalar	163	134.0							0	NO	
2009-04-29 11:07:49	tango/tangotest/sa_2/double_scalar_r...	166	-255.376326837248							0	NO	
2009-04-29 11:07:48	tango/tangotest/sa_2/double_scalar	162	-255.02575554434083							0	NO	
2009-04-29 11:07:15	tango/tangotest/sa_2/double_scalar_r...	166	174.5919583127349							0	NO	
2009-04-24 14:43:58	tango/tangotest/sa_2/double_scalar	162	255.84406383401958	15.0	300.0	100.0	240.0			0	WARNING	
2009-04-24 14:43:48	tango/tangotest/sa_2/double_scalar	162	207.10823077181624	15.0	300.0	100.0	240.0			0	NO	
2009-04-24 14:43:38	tango/tangotest/sa_2/double_scalar	162	66.2576208652642	15.0	300.0	100.0	240.0			0	WARNING	
2009-04-24 14:42:48	tango/tangotest/sa_2/double_scalar	162	-8.933584707252963	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:40:58	tango/tangotest/sa_2/double_scalar	162	228.09787065472108	15.0	300.0	100.0	240.0			0	NO	
2009-04-24 14:40:48	tango/tangotest/sa_2/double_scalar	162	250.40572458439968	15.0	300.0	100.0	240.0			0	WARNING	
2009-04-24 14:40:38	tango/tangotest/sa_2/double_scalar	162	164.55351243782874	15.0	300.0	100.0	240.0			0	NO	
2009-04-24 14:39:48	tango/tangotest/sa_2/double_scalar	162	-116.22087186348583	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:39:38	tango/tangotest/sa_2/double_scalar	162	53.22601302513807	15.0	300.0	100.0	240.0			0	WARNING	
2009-04-24 14:39:28	tango/tangotest/sa_2/double_scalar	162	198.94967251428307	15.0	300.0	100.0	240.0			0	NO	
2009-04-24 14:39:18	tango/tangotest/sa_2/double_scalar	162	255.96101595354665	15.0	300.0	100.0	240.0			0	WARNING	
2009-04-24 14:39:08	tango/tangotest/sa_2/double_scalar	162	201.73063210110848	15.0	300.0	100.0	240.0			0	NO	
2009-04-24 14:38:58	tango/tangotest/sa_2/double_scalar	162	57.58742210755554	15.0	300.0	100.0	240.0			0	WARNING	
2009-04-24 14:38:08	tango/tangotest/sa_2/double_scalar	162	6.793189870982979E-4	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:37:58	tango/tangotest/sa_2/double_scalar	162	161.10643365358285	15.0	300.0	100.0	240.0			0	NO	
2009-04-24 14:37:48	tango/tangotest/sa_2/double_scalar	162	249.43882402802603	15.0	300.0	100.0	240.0			0	WARNING	
2009-04-24 14:37:28	tango/tangotest/sa_2/double_scalar	162	108.1901894955995	15.0	300.0	100.0	240.0			0	NO	
2009-04-24 14:36:38	tango/tangotest/sa_2/double_scalar	162	-48.84639522700766	15.0	300.0	100.0	240.0			0	HIGH	
2009-04-24 14:36:18	tango/tangotest/sa_2/double_scalar	162	233.86781214866102	15.0	300.0	100.0	240.0			0	NO	
2009-04-24 14:36:08	tango/tangotest/sa_2/double_scalar	162	247.27693827122883	15.0	300.0	100.0	240.0			0	WARNING	

Attributes
Refresh

- Attributes
 - archiving
 - adb
 - adbmanager
 - alarmdiary
 - archivingmanager
 - hdb
 - snap
 - tdb
 - dserver
 - facade
 - ica
 - my
 - sys
 - tango
 - admin
 - parser
 - tangotest
 - sa_1
 - sa_2
 - tango/tangotest/sa_2/short_scalar_ro
 - tango/tangotest/sa_2/short_scalar
 - tango/tangotest/sa_2/short_scalar_w
 - tango/tangotest/sa_2/short_scalar_rww
 - tango/tangotest/sa_2/long_scalar
 - tango/tangotest/sa_2/long_scalar_w
 - tango/tangotest/sa_2/long_scalar_rww
 - tango/tangotest/sa_2/double_scalar
 - tango/tangotest/sa_2/double_scalar_w
 - tango/tangotest/sa_2/double_scalar_rw
 - tango/tangotest/sa_2/string_scalar
 - tango/tangotest/sa_2/boolean_scalar
 - tango/tangotest/sa_2/float_scalar
 - tango/tangotest/sa_2/uchar_scalar
 - tango/tangotest/sa_2/ushort_scalar
 - tango/tangotest/sa_2/short_spectrum
 - tango/tangotest/sa_2/long_spectrum
 - tango/tangotest/sa_2/double_spectrum

Supervised attributes
Disabled attributes

Attributes
Supervised attributes

- context
 - tango
 - tangotest
 - sa_2
 - tango/tangotest/sa_2/double_scalar
 - tango/tangotest/sa_2/double_scalar_rww
 - tango/tangotest/sa_2/long_scalar
 - tango/tangotest/sa_2/short_scalar

Disabled attributes

Attributes
Supervised attributes

Disabled attributes

- tango/tangotest/sa_2/short_scalar

AlarmDiary 3.0.7-SNAPSHOT - 1.1

Extract Depth | Select Mode >> | New | Apply context | Edit | Delete | 2 tables | Deleted Alarms | archiving/adbmanager/adbmanager.sa1 : ON

Timestamp	Name	ID	Value	min Alarm	max Alarm	min Warning	maxWarni...	Delta_T	Delta_Val	Reason	Severity	IsAck	Ack Time
2009-04-29 11:07:15	tango/tangotest/sa_2/double_scalar	162177.8329120478187								0	NO	<input type="checkbox"/>	
2009-04-29 11:07:14	tango/tangotest/sa_2/long_scalar	16333.0								0	NO	<input type="checkbox"/>	
2009-04-29 10:43:52	tango/tangotest/sa_2/long_scalar	16381.0								0	NO	<input type="checkbox"/>	
2009-04-29 10:43:45	tango/tangotest/sa_2/double_scalar	162181.01969624669448								0	NO	<input type="checkbox"/>	
2009-04-29 10:43:34	tango/tangotest/sa_2/double_scalar_rww	166255.84406383401958								0	NO	<input type="checkbox"/>	
2009-04-24 14:45:38	tango/tangotest/sa_2/double_scalar	162226.0347928419416		15.0	300.0	100.0	240.0			0	NO	<input type="checkbox"/>	
2009-04-24 14:45:28	tango/tangotest/sa_2/double_scalar	162252.1107323431703		15.0	300.0	100.0	240.0			0	WARNING	<input type="checkbox"/>	
2009-04-24 14:45:18	tango/tangotest/sa_2/double_scalar	162167.95099464248113		15.0	300.0	100.0	240.0			0	NO	<input checked="" type="checkbox"/>	2009-04-29 11:...
2009-04-24 14:44:18	tango/tangotest/sa_2/double_scalar	16248.847728903017746		15.0	300.0	100.0	240.0			0	WARNING	<input type="checkbox"/>	
2009-04-24 14:44:08	tango/tangotest/sa_2/double_scalar	162193.2059768878333		15.0	300.0	100.0	240.0			0	NO	<input type="checkbox"/>	
2009-04-24 14:42:38	tango/tangotest/sa_2/double_scalar	162154.06507693514874		15.0	300.0	100.0	240.0			0	NO	<input type="checkbox"/>	
2009-04-24 14:42:28	tango/tangotest/sa_2/double_scalar	162247.2771140917753		15.0	300.0	100.0	240.0			0	WARNING	<input type="checkbox"/>	
2009-04-24 14:42:08	tango/tangotest/sa_2/double_scalar	162116.22147714166734		15.0	300.0	100.0	240.0			0	NO	<input type="checkbox"/>	

Restore selected rows
Print selected rows

- Full mode: display all events of the selected context.
- Flow mode: display the last N events.
→ N is defined as a depth of the flow mode.
- From date mode: display the list of alarm events from the given date.
- Between dates: display the list of alarm events saved between the given dates.

Select Mode >>

- Flow
- From date
- Between dates
- Full

▼	
:50	tango/tango
:49	tango/tango

Entrée [X]

? Enter a new extract depth

100

OK Annuler

Select from date [X]

2009-05-07 [?] 15:50:25

mai 2009

	lun.	mar.	mer.	jeu.	ven.	sam.	dim.
18	27	28	29	30	1	2	3
19	4	5	6	7	8	9	10
20	11	12	13	14	15	16	17
21	18	19	20	21	22	23	24
22	25	26	27	28	29	30	31
	1	2	3	4	5	6	7

