

DB: current status

Store DB

- **Write-Ascii utility**
- **Java Applet**
- **Moving around Objects**



Data insertion: WriteAscii Utility.

New:
ID and Batchnumber
pre-filled according
to site, object, type
(save use of keyboard)

Now available all
“Store” objects
(except wires)

Still to be implemented:
“composed” objects
(chambers, superlayers
etc.)

QC meet. 24/4/01

Write-Ascii Utility

Updated version: 1.0.3.0 (11 Apr 2001)

Requirements: Windows NT, 98, 95 [Download WriteAscii.exe V 1.0.3.0](#)

Instructions:

- The WriteAscii.exe program is inside a ".tar" file, which can be decompressed through Winzip.exe ([download](#))
- Place WriteAscii.exe in an empty folder. At startup please pay attention to set your Domain-Name and Reply-To address. The folders: **OutProgFiles** , **PostponedFiles** and **SentFiles** are automatically created.
- Once a file is "sent", you will receive in 10 minutes time the log. The log ends with *****COMMITTED***** If something went wrong, the subject of the mail is "ERROR xxxx" (where xxxx is the filename).
- At the moment the following keywords can be used:

AlRaw	CrimpBlock
Hybrid	Capacitor
WireEndPlug	StripContact
IBeamEndPlug	IBeamContact
FrontInnerGroundContact	PlasticProfileSLGas
MetallicBusBar	GasStopper
AluminumExtrusion	ComerBlocks
PlasticClipHVB	SignalConnector
TestPulseConnector	SlowControlConnector
LowVoltageConnector	IBeamContactEncasing
MylarTape	Honeycomb
IBeams	RawIBeams

These will allow to start setting up the store

- **New implementation: (version 1.0.3.0)**
IBeams and RawIBeams

These data-card introduce batches of raw electrodes and I-Beams equipped with mylar and Al strips. Their implementation requests to register the batchn. of used Mylar Tape, Al Tape (strip) and nominal length of the I-Beams.
- **Please do not use yet the following keywords:**
WireRoll ; Chamber; Superlayer; Layer; Plate
These are "composite" objects. Be patient until more instructions for filling in data are implemented.

100%

Java Applet

Three flavours:

“full” applet (nothing to be installed, works with Netscape)

If you have Swing libs installed (UNIX)

Recommended with Windows. Sole option with I.E. (V5.0)

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The screenshot shows a Netscape Communicator browser window. The address bar contains the URL: `http://suncms01.lnl.infn.it/cmsdb/java-applet.html`. The page content includes a cartoon character and the text: "Here is the applet you can use to browse the cms mu QC database". Below this, there are requirements for Netscape Navigator V4.0 or greater and Internet Explorer 5.0 or greater. Three applet options are listed: "Full Applet (2.8 MB) equipped with swing classes", "Light Applet (345 KB) without swing classes", and "Applet for Java-Plugin 1.2".

File Edit View Go Communicator

Back Forward Reload Home Search Netscape Print Security Shop Stop


Bookmarks Location: `http://suncms01.lnl.infn.it/cmsdb/java-applet.html`


Work MAN VARIE Util Notizie Linux Univ PHYS CERN CMS temp Home Directory Move


 **Here is the applet you can use to browse the cms mu QC database**

Requirements:

- Netscape Navigator V4.0 or greater
- Internet Explorer 5.0 or greater

 **Full Applet (2.8 MB) equipped with swing classes:** click on this image if you have Netscape browser and you don't want to install swing yourself

 **Light Applet (345 KB) without swing classes.** You can use it if you have swingall.jar installed. If you don't have swingall.jar, you can [download it](#). For example, save this file in `$HOME/.netscape/java/lib/swingall.jar`. Include it in your CLASSPATH. Example c-shell:
`csh> setenv CLASSPATH ${CLASSPATH}:$HOME/.netscape/java/lib/swingall.jar`
`csh> netscape`

 **Applet for Java-Plugin 1.2** It will automatically download and install the Java-Plugin. Java-Plugin allows your browser to run faster Java applications. **Mandatory with Internet Explorer.** (Apparently, does not work with Linux RedHat)

Boards tested in Beijing

Exit

Material

- LegnaroStore
 - WireEndPlug
 - IBeamEndPlug
 - CornerBlocks
 - PlasticClipHVB
 - CrimpBlock
 - Hybrid
 - MylarTape
 - StripContactPin
 - StripContactNopin
 - AIestrCProfile
 - AIestrFESide
 - AIestrHVSide
 - AIestrL
 - IBeamContactEncasing
 - Honeycombs
 - FrontInnerGroundCont
 - PlasticProfileSLGas
 - MetallicBusBar
 - GasStopper
 - SlowControlConnector
 - LowVoltageConnector
 - SignalConnector16
 - TestPulseConn_norma
 - TestPulseConn_term_
 - TestPulseConn_norma
- MadridStore
- AachenStore
- TorinoStore
- BeijingStore
 - Boards

chambers

Board ID: 1073

Type: HVB

Nwires: 16

check: bad

date: 200102010846

Comment: null

HV tests:

Board HV Test HVTest-200102010846

Date 200102010846
 Duration: 7252 sec
 Humidity: 8.0 %
 Temp: 17.0 deg
 Ox. conc. 300.0

Anod values:
 HV 4500.0 V
 I off. 6.0 nA
 I avrg. 0.0 nA

Strips values:
 HV 2250.0 V
 I off. 0.0 nA
 I avrg. 0.0 nA

Cathod values:
 HV 2250.0 V
 I off. 0.0 nA
 I avrg. 20.0 nA

Measured Boards:

- 1066
- 1067
- 1068
- 1069
- 1070
- 1071
- 1072
- 1073
- 1074
- 1075
- 1076
- 1077
- 1078
- 936
- 1027
- 1028

Name: Boards **Location: BeijingStore**

Good HVBs: 418 **Good HVCs: 359** **Good Fes: 0**

1066	52054	
1067	52055	
1068	52056	
1069	52057	
1070	52058	
1071	52059	
1072	52060	
1073	52061	
1074	52062	
1075	52063	
1076	52064	
1077	52065	
1078	52066	
936	52067	
1027	52068	
1028		

HVTest-200102010846
 HVTest-200102011453
 HVTest-200102020904
 HVTest-200102051008
 HVTest-200102060853

(new !) Moving Objects ...

“Shipments”: sends *store-objects* from one site to the other.

ooStoreObj Methods:

- Add
- Retrieve
- Send
- Receive

ooRawShipment Fields:

From
To
DateSent
DateReceived
Name
Batch
Quantity

The screenshot shows a software interface with a menu bar (File, Edit, Browse, Search, View, Help) and three panes: Databases, Containers, and Basic Objects. The Databases pane lists Legnaro, LegnaroStore, ascii_db, MadridStore, AachenStore, Shipments (highlighted), TorinoStore, and BeijingStore. The Containers pane lists _ooDefaultContObj, MadridStore_222301, MadridStore_200104, AachenStore_200104, and TorinoStore_200104 (highlighted). The Basic Objects pane lists LNS_TOS_PlasticProfileSLGas_200104 and LNS_TOS_MylarTape_20010411 (highlighted). Below the panes, the title bar reads 'LNS_TOS_MylarTape_20010411' and the main area displays the following code:

```
ooRawShipment LNS_TOS_MylarTape_20010411 = {
  %versioningMode = oocNoVers
  %scopeNames = {
    [ Shipments ] "LNS_TOS_MylarTape_20010411"
  }
  int32 sentDate = 11042001
  int32 receivedDate = 11042001
  ooVString from = {
    ooVArray(char) _vs = "LegnaroStore"
  }
  ooVString to = {
    ooVArray(char) _vs = "TorinoStore"
  }
  ooVString ObjName = {
    ooVArray(char) _vs = "MylarTape"
  }
  int64 batchno =
  int32 Quantity = 1
}
```

DB: Next Future ...

Construction DB

- **Insertion of “composed” objects with ID (Layers, Plates, Superlayer, Chambers) inside “construction” DB**
- **Java Interface to “construction” DB**

Al-Plates

RAW AL PLATES

=====

AIRaw OPERATION BATCH NUMBER SITE DATE

// OPERATION = "Add"/"Retrieve"/"Send"/"Receive"

example:

AIRaw Add 3510406112010001 200 TorinoStore 20010328

AIRaw Retrieve 3510406112010001 50 TorinoStore 20010328

AL PLATES

=====

Plate ID_pl LX LY BATCH NM VER DATE

// create a new aluminum plate.

// (float) LX nominal dimension [mm]

// (float) LY nominal dimension [mm]

// BATCH batchnumber of raw Al plate used.

// (character) NM VER number. and version. of drawing

PlateComment ID_pl comment

PlateEnv ID_pl TEMP HUMID PRESS DATE TIME

comment

// store environment variables during assembly of an Al plate

==> geom. measures.

PlateDimTest ID_pl type measurement Location date

// (char) type: "LENGTH" "WIDTH" "THICK" "DIAGONAL"

==> set batchnumbers of MylarTape and Strips

PlateChangeStripBatch ID_pl SIDE NUMBER BATCH

PlateChangeMylarBatch ID_pl SIDE NUMBER BATCH

// SIDE either "UP" or "DOWN"

// NUMBER (int) number of first item of new batch

// BATCH batchnumber of new batch

==> **Test on strip positions:**

PlateNomPosStrip ID_pl POS HSIDE

// HSIDE is either "UP" or "DOWN"

PlateMeasStrips ID_pl HV_p FE_p SIDE

// measure the position of the first strip within a plate.

// HV_p first strip pos. at HV side (mm)

// FE_p first strip pos. at FE side (mm)

PlatePosStrip ID_pl POS SSIDE HSIDE

// insert first strip position at one side.

// POS position of first strip [mm].

PlateMeasAllStrip ID_pl NM POS(1)...POS(NM) SSIDE HSIDE

// measure NM strip positions

// POS(1)...POS(NM) array with position of strips in mm.

// SSIDE measured side: either "HV" or "FE"

// HSIDE " " either "UP" or "DOWN"

PlateStripTestRes ID_pl RESULT

// set the result of the test on strip depositions:

// RESULT is either "ok" "fail" or "unknown"

==> **data-card for HV tests (to be refined)**

PlateStartHVTest NM ID_pl(1)...ID_pl(NM)

// transport NM Al Plates to perform HV tests

// ID_pl(1)...ID_pl(NM) identifiers of transported plates

PlateSetHVTest ID_pl TEMP HUMID PRESS APPL comment

// register environment for HV tests

// APPL is either "Latest" or "Next"

PlateHVTest ID_pl VOLT DURATION GAS DATE TIME NCUR curr(1)...curr(NCUR) gran(1)...gran(NCUR) comment

// perform an HV test on Al Plate

// VOLT (float) voltage used in the test (V)

// DURATION (float) duration of the test

// GAS gas used in the test (char with NO spaces ex: "Air")

// NCUR: the number of currents tested

// curr(1)...curr(NCUR) the measured currents

// gran(1)...gran(NCUR) (integers) the granularity for each measured value

PlateHVTestRes ID_pl RESULT

// RESULT either "ok" "fail" or "unknown"

==> **data-cards for moving around ID objects: to be redefined**

I-Beams

```
// ***** available data-cards for Raw-Ibeams :  
RawIBeams OPERATION BATCH NUMBER LOCATION DATE  
RawIBeamComment BATCH comment  
RawIBeamThick BATCH thickness [mm]  
// where OPERATION = "add"/"Retrieve"/"Send"/"Receive"  
  
// ***** available data-cards for Electrodes (IBeams) :  
// *****  
IBeams OPERATION BATCH NUMBER LOCATION DATE  

```

Objects with ID: Chambers, SuperLayers, Layers, Al-Plates, Racks

- ⇒c++ libraries: implemented and re-aligned to new fd structure;**
- ⇒completed test_program building one chamber, using c++ libs.**
- ⇒ascii data-cards being re-aligned to new fd structure**
- ⇒first java-browser under test**