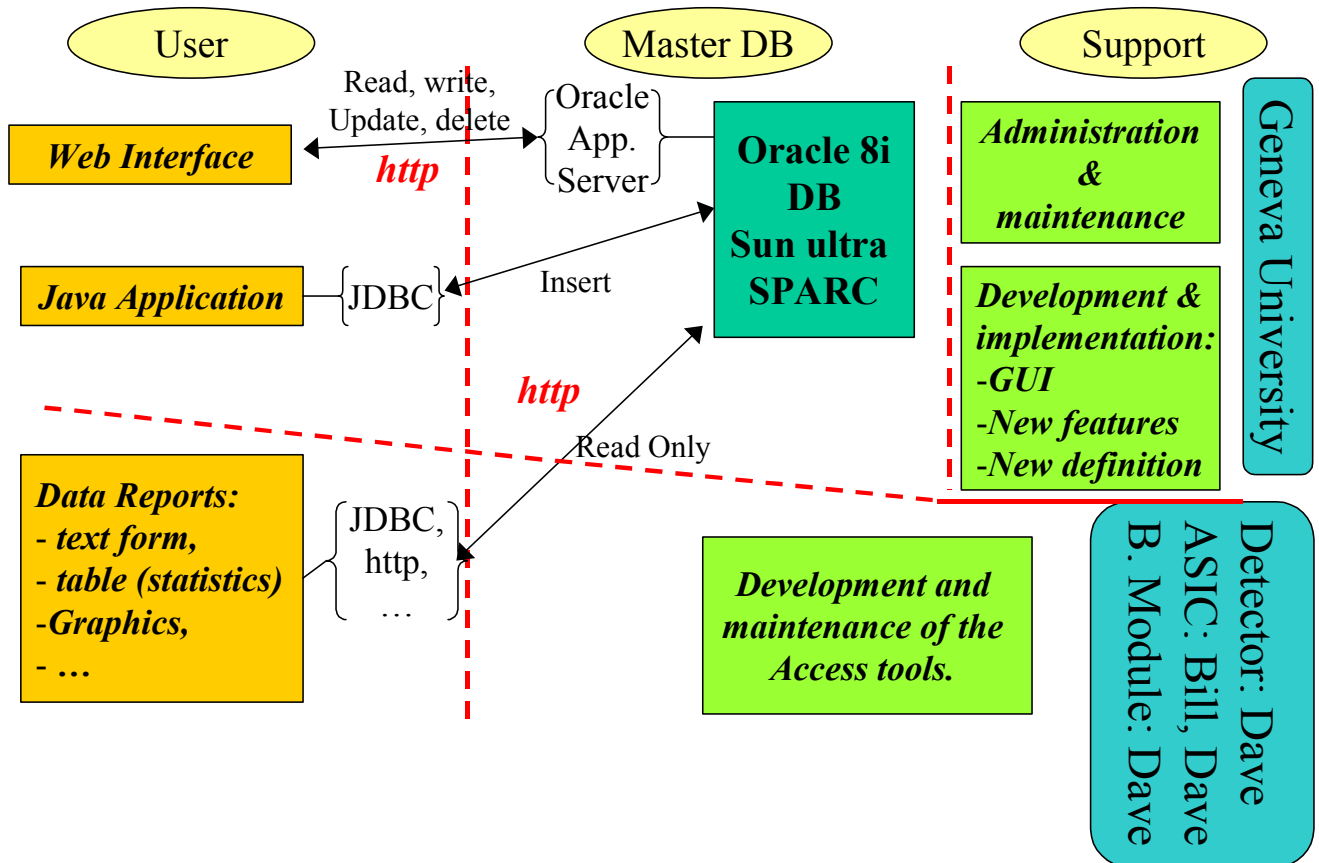


SCT Production DB

- **DB General scheme and working group**
- **Simplified DB model – Recall**
- **Table space as of February 25, 2003**
- **DB definition and the barrel module activities**
- **Recall of the existing tool interfaced to the DB**
- **BM survey implementation**
- **SCTDAQ recall + Redundancy test (New)**
- **Other things: Change of rule for chip logistic**

DB General scheme and working group

Data Base scheme

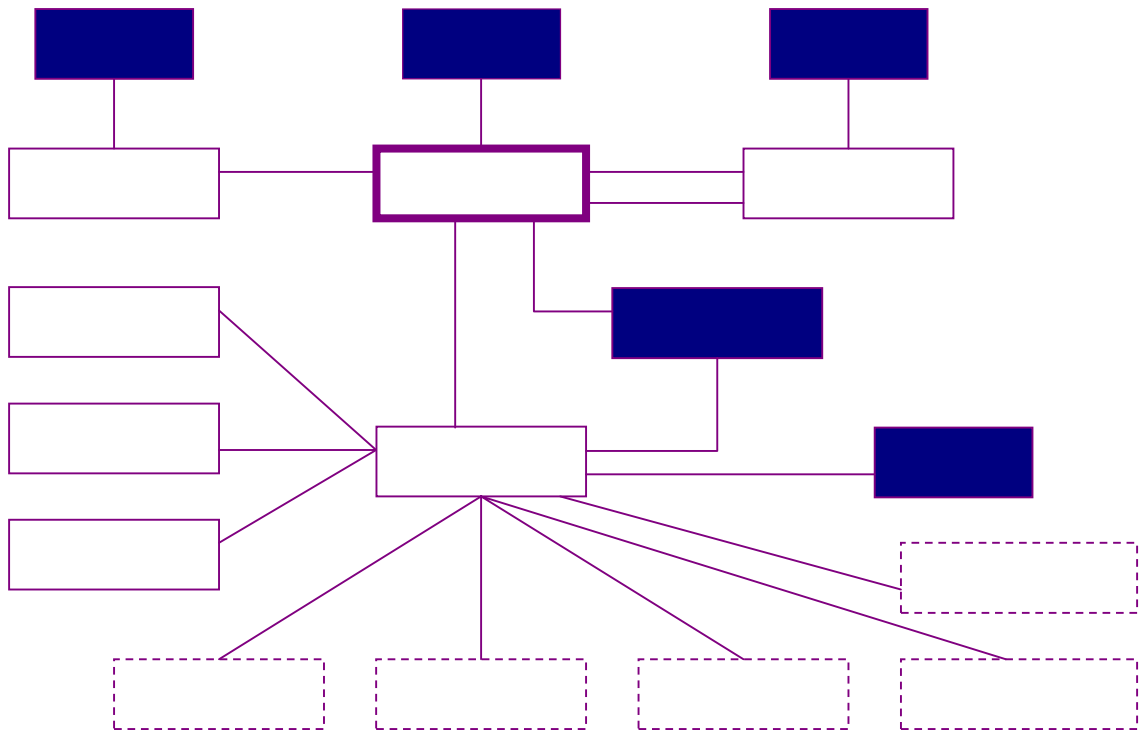


- The administration tasks consist of: maintaining the all DB running 24 hours 7 days, update of the software, creating new access and setting the DB roles
- The development tasks consist of: Extension of the **data structure** with new entities, with implementation of **tables, web access modules, java upload utility**, and new survey extension of **definitions**

NB:

- *Web module access and java Upload application do use the Institute Username and Password*
- *Data Report uses only the SCT read username*

Simplified DB model – Recall



Important rule for users:

If you want to see data reports that is significant, you must enter the data and in a reliable way into the DB for:

- ❖ Items
- ❖ Shipment
- ❖ Assembly
- ❖ Events
- ❖ Tests

NB: Everyone must play the game with the existing rules otherwise it does not make any sense to use a DB.

DB definition and the barrel module activities

Any data entry can be entered according to a the definition like for: items, assemblies, tests, events, ...

Please refer to Nobu's document: *“Definitions of the barrel modules and link with the SCT database”*

Component type	Pos.	Component type	Pos.
bmHASIC	1		
		bmHPC	1
		chABCD3T	1
		chABCD3T	2
		chABCD3T	3
		chABCD3T	4
		chABCD3T	5
		chABCD3T	6
		chABCD3T	7
		chABCD3T	8
		chABCD3T	9
		chABCD3T	10
		chABCD3T	11
		chABCD3T	12
bmSB	1		
		bmBB	1
		bmSiDetectorOut	1
		bmSiDetectorOut	2
		bmSiDetectorOut	3
		bmSiDetectorOut	4

Barrel Module and its components

Test lists example:

bmSB: ModBarXYsurvey, ModBarZsurvey, Visual inspection

bmModule: SCTDAQ test (11), detModIV, ModBarXYsurvey, ModBarZsurvey, ModBarZProf, Visual Inspection

bmHASICs: SCTDAQ test (11), Visual Inspection

Recall of the existing tool interfaced to the DB

Web access tools:

- *Insert, consult, update, delete* for most of the user tables. Insert/Update do not work for the SCTDAQ web access modules
- *Consult* all the definition tables
- *Web basic reports* allow to consult the data and get summarized information (see Tutorial of September 2002)
- *Bar code generation* allows to print bar code 128 in flexible sheets
- *Chip to hybrid assembly* access tool (this does a deletion of chips to gel pack assembly first)
- *Display of test status*

Java Tools:

Upload operation	Tool to use
<i>Initial registration</i>	java UploadItemData File SCTusername SCTpassword
<i>Item image</i>	java Upload_ItemImage SCTusername SCTpassword ItemSerialnumber imageFilename [-T Title] [-U url]
<i>Shipment</i>	java UploadShipData File SCTusername SCTpassword
<i>Shipment validation</i>	Web (by Updating “Confirmation Date”)
<i>Shipment receipt.</i>	Web (by receiving the items)
<i>Assembly</i>	Java UploadAssmData File SCTusername SCTpassword
<i>Tests (any)</i>	java UploadTestData File SCTusername SCTpassword
<i>Test image</i>	java Upload_ItemImage SCTusername SCTpassword testnumber imageFilename [-T Title] [-U url]
<i>ABCD chips and wafer registration</i>	java UploadABCDChips FileName SCTusername SCTpassword

The other specific java tools considered as special development:

Operation	Tool to use
<i>Download last raw data of a particular test</i>	java GetLastRawData SerNo testname outfilename UserReadAccess
<i>Download raw data</i>	java DownloadRawData testnumber outfilename SCTusername SCTpassword OutputFilename
<i>Get the corresponding chip position versus serial number</i>	java GetChipPosSerNo WaferMfrSerNo ChipType OutputFile UserReadAccess

BM survey implementation

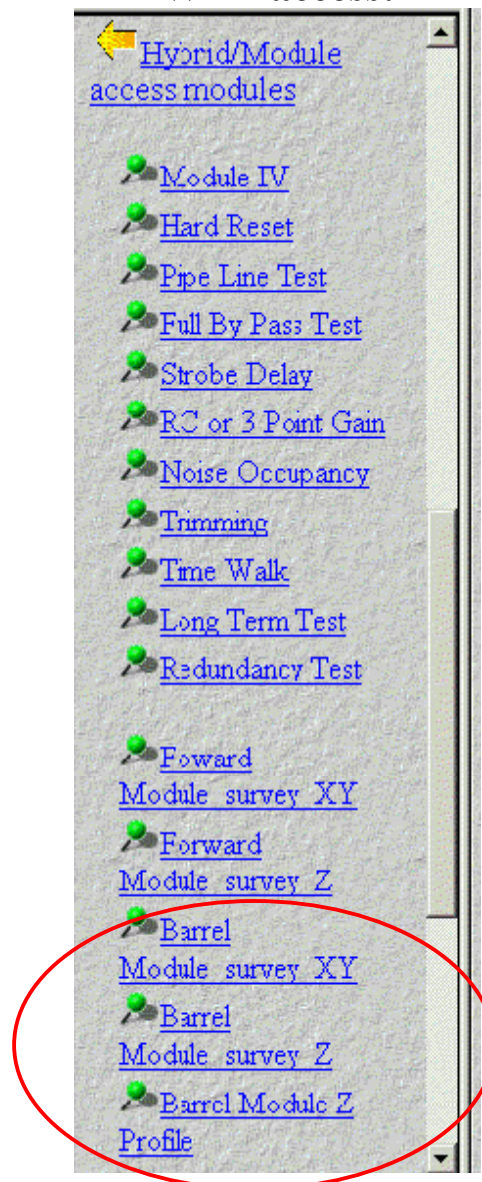
Following working discussion with Nobu and Dave it has been agreed to implement specifically for the barrel modules the following entity and the related application: BMSurveyXY, BMSurveyZ, BMZProfile

All the implementation and tools were completed last week and it has been documented on the web!

For the data upload, the user must download the java application SCTTEST_3_17_P.jar

The template upload files are documented on the web at the usual place.

WEB access:



SCTDAQ recall + Redundancy test (New)

Table	Table approved for addition to DB	Table created in dev DB	Web access view in dev DB	Java Upload on dev DB	Definition for test, defect and test list in dev DB	Move all in prod DB + java + web doc and links
TSTDAQINFO	YES	YES	YES	YES	YES	YES
TSTDCSINFO	YES	YES	YES	YES	YES	YES
TSTSCANINFO	YES	YES	YES	YES	YES	YES
TSTMODIV	<i>Already exists in TEST_DET_IV table and the test name is "DetModIV"</i>					
TSTHYBRESET	YES	YES	YES	YES	YES	YES
TSTHYBCLOCK	YES	YES	YES	YES	YES	YES
TSTHYBBPASS	YES	YES	YES	YES	YES	YES
TSTHYBPIPE	YES	YES	YES	YES	YES	YES
TSTHYBDELAY	YES	YES	YES	YES	YES	YES
TSTHYBRC	YES	YES	YES	YES	YES	YES
TSTHYBTRIM	YES	YES	YES	YES	YES	YES
TSTHYBNOISE	YES	YES	YES	YES	YES	YES
TSTHYBTW	YES	YES	YES	YES	YES	YES
TSTHYBLTT	YES	YES	YES	YES	YES	YES

The **redundancy test** was forgotten and **is now implemented** for the web access module and the java upload. No specific data was requested for it.

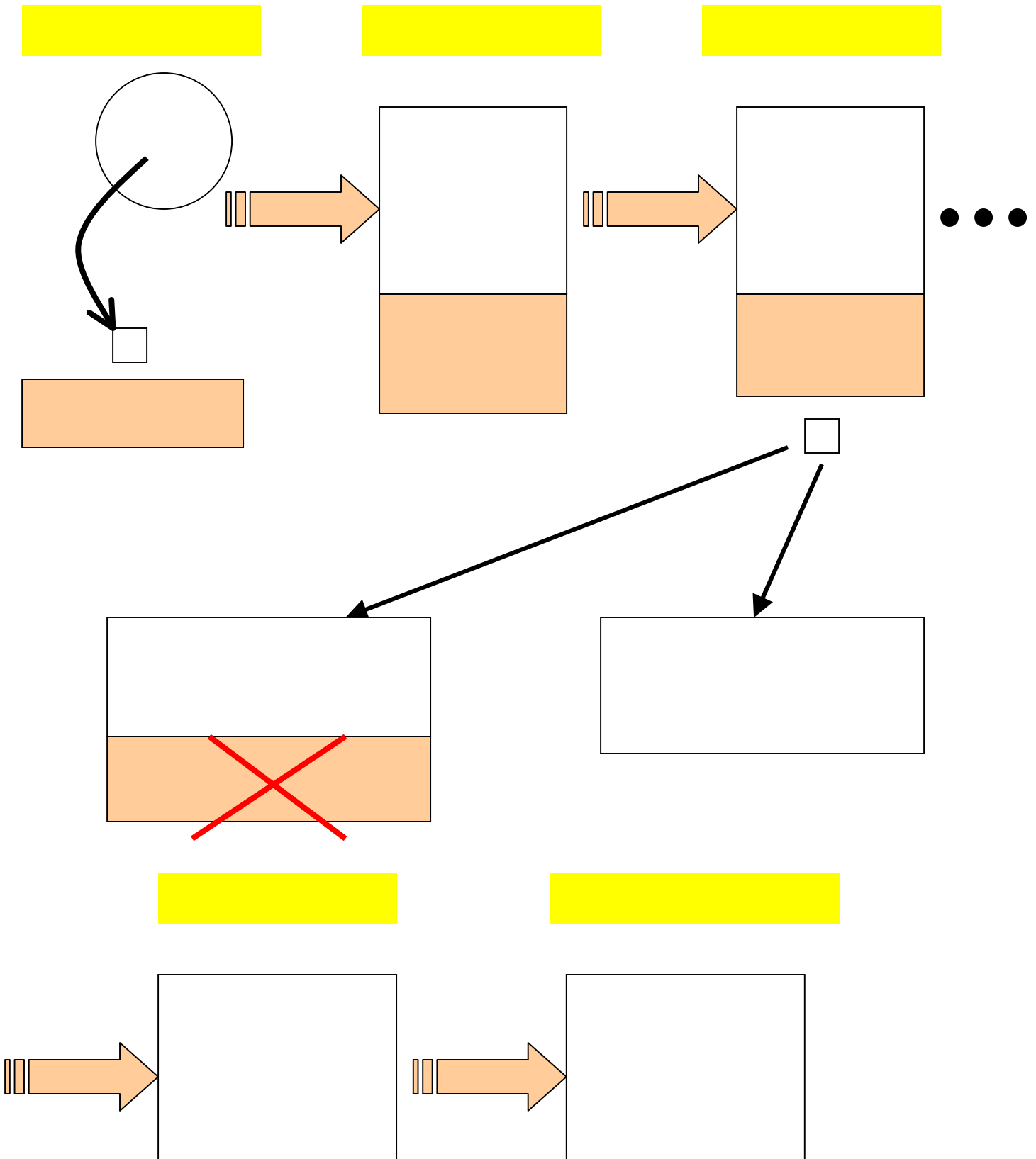
Java Upload file template (extract)

```

%NewTest
SERIAL NUMBER   : 20220990000019
TEST MADE BY    : DF
LOCATION NAME     : CERN
Run number      : Exhibition
TEST DATE       : 27/02/2003
PASSED          : YES
PROBLEM         : NO
# --
%RedundancyTest
%Comment
COMMENT         : Here is my test comment 1
    
```

...

Change of rule for chip logistic



Change of rule for chip logistic

Rule change: No assembly upload of chips to gelpack anymore

New rule: Once the chips are dices they are physically placed into a gelpack. Then into the DB a shipment box is created for a single gelpack and its chips.