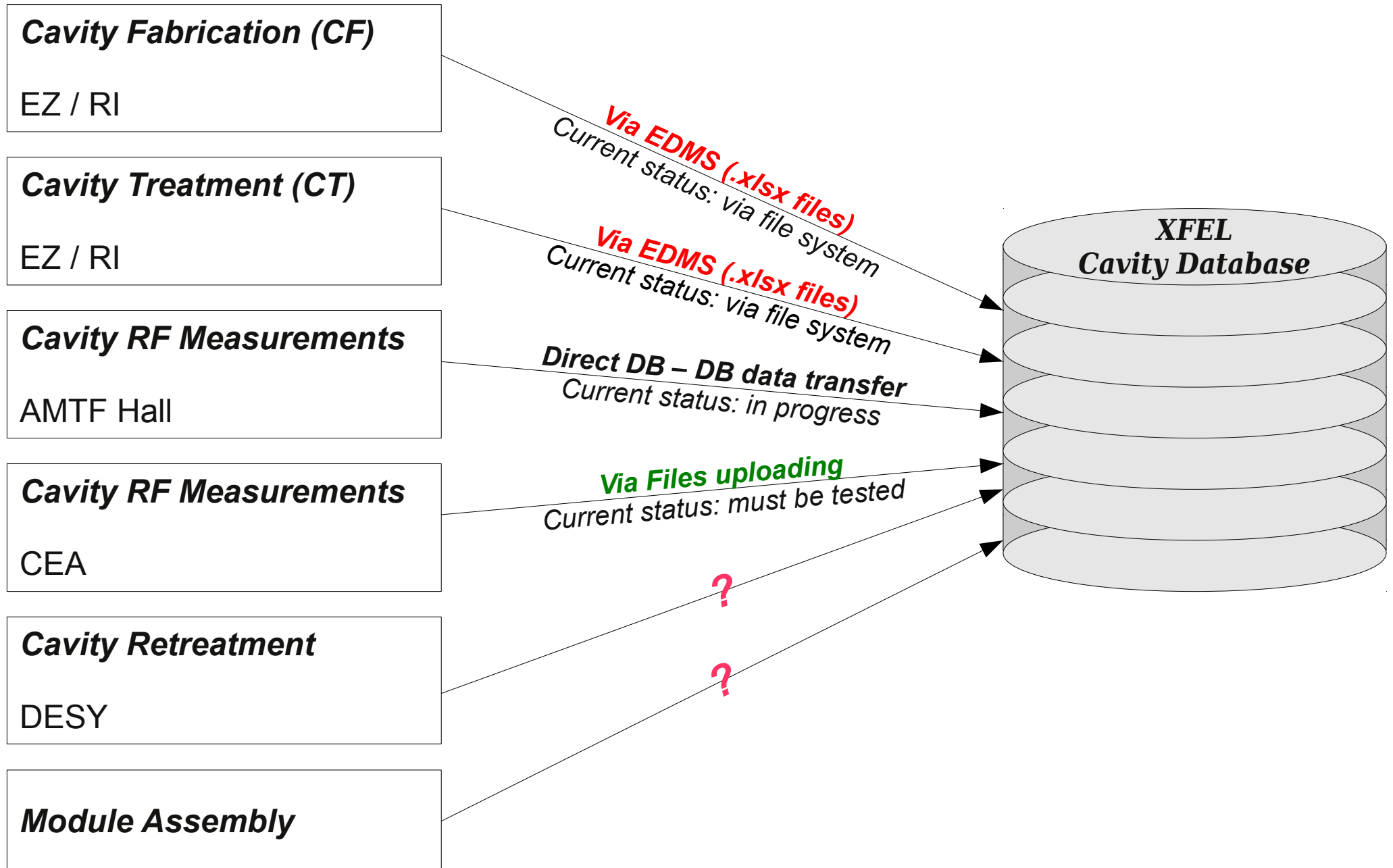


Database Data Sources & Data Flow



EDMS view from the Database side

Access for **EDMS Test Environment**

- Thanks Mr. Dammann for support
- We prefer to work with **Productive Environment**

Actual status:

- XFEL Quality Control (CF + CT)
 - Half cells and Dumb-bells are present
 - Other information on CF will be included soon
 - CT Data (no templates, no description)

The screenshot shows the 'EDMS Data Access' application window. The interface is divided into several sections:

- Top Bar:** Includes a 'Selected:' counter showing '0', a 'Debugger:' checkbox, a 'Load Document(s)' button, and a 'Quit' button.
- EDMS Structure:** A tree view on the left showing a hierarchy starting with 'XFELQualityControl', followed by folders for 'RF-shape record of a long half cell (test)', 'RF-shape record of a normal half cell (test)', 'RF-shape record of a short half cell (test)', 'dimension record of a dumb-bell (test)', 'dimension record of long half cell (test)', 'dimension record of normal half cell (test)', 'dimension record of short half cell (test)', 'frequency record of a dumb-bell (test)', 'frequency record of long half cell (test)', 'frequency record of normal half cell (test)', and 'frequency record of short half cell (test)'.
- EDMS Query Definition:** A section with search options. It includes a 'Start with:' field set to '12-Apr-2012', a 'Working Status' dropdown set to 'Released', and a 'Search:' section with a radio button for 'Start with' and a field set to '1 day(s) ago'.
- Data Load Reports:** A section with two rows of date selection. The first row is 'DB Load on: 04.04.2012' with a 'Go' button. The second row is 'Errors on: 04.04.2012' with a 'Go' button.
- Table:** A table with four columns: 'EDMS Document', 'DB Type', 'DB Object', and 'Action Date'. The table is currently empty.

Data Loading: Cavity Fabrication (CF)

- Thanks Mr. Iversen for support
- We are ready to accept data from CF:

| Type | Description |
|-------|-----------------------------------------|
| V_M01 | Normal Half Cell Mechanical measurement |
| V_F01 | Normal Half Cell Frequency properties |
| V_M02 | Long Half Cell Mechanical measurement |
| V_F02 | Long Half Cell Frequency properties |
| V_M03 | Short Half Cell Mechanical measurement |
| V_F03 | Short Half Cell Frequency properties |
| W_M01 | Dumb-Bell Mechanical measurement |
| W_F01 | Dumb-Bell Frequency properties |
| W_M02 | Long End Group Mechanical measurement |
| W_F02 | Long End Group Frequency properties |
| W_M03 | Short End Group Mechanical measurement |
| W_F03 | Short End Group Frequency properties |
| X_M01 | Cavity Mechanical measurement |
| X_HCP | Cavity half cells position |

Data Loading: Cavity Treatments (CT)

- Thanks Mr. Sulimov, Mr. Iversen for support
- We are ready to accept data from CT:

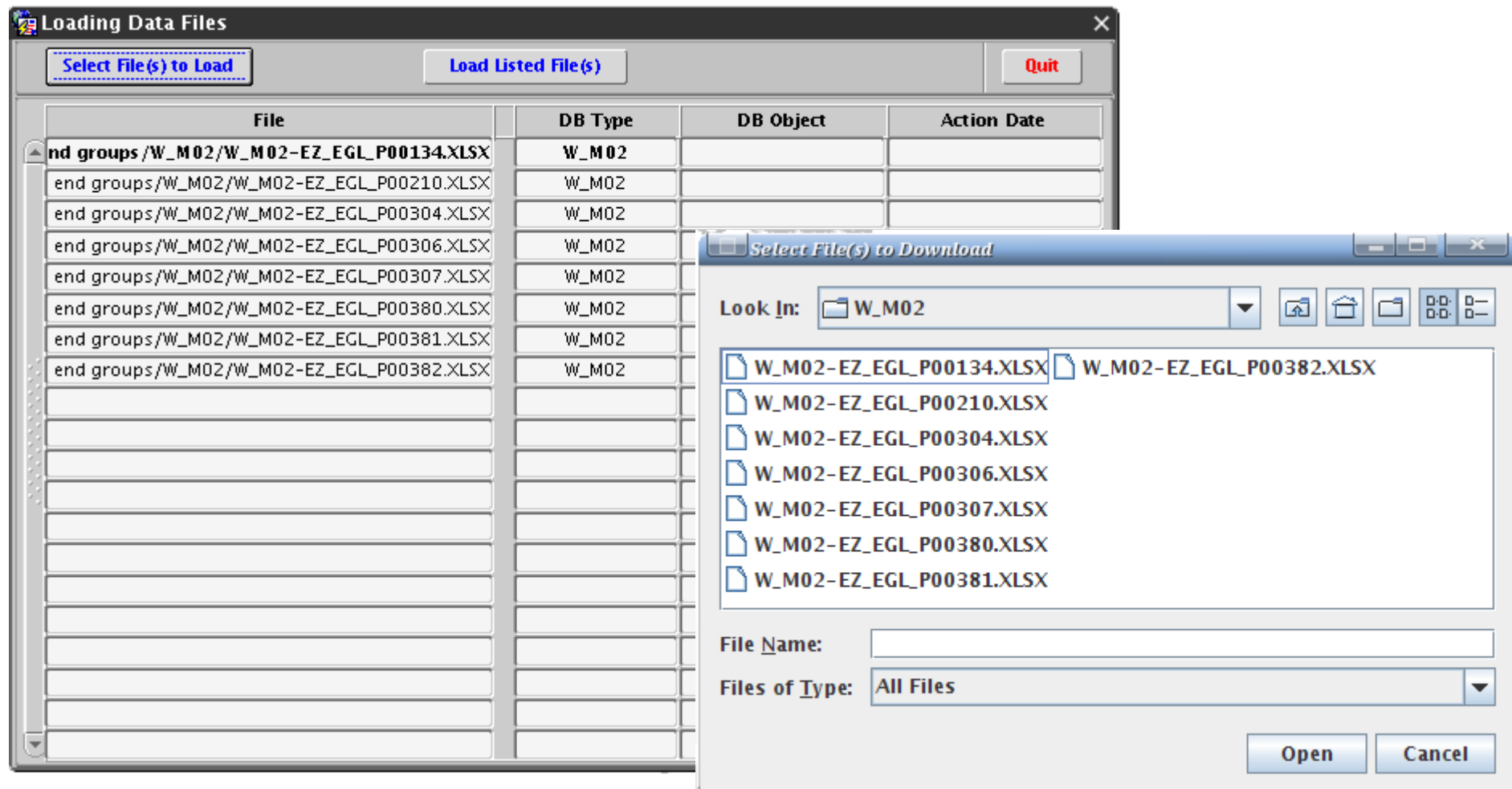
| Type | Description |
|--------|--------------------------------------------------------|
| X_F01 | First Warm Spectrum after cavity welding |
| X_F02 | Tuning of cavity without FMS |
| X_F03 | Tuning of cavity with FMS |
| Y_F01 | Tuning of cavity with rings and bellow |
| Y_F02 | Tuning of cavity in helium tank |
| Y_TM01 | Cavity 3D Transfer measurement |
| Y_M01 | Cavity Eccentricity measurement on tuning machine |
| WFT | Warm Spectrum measurement (from CEA) |
| CRF | Warm Spectrum measurement with transmission (from CEA) |

- We have no support for other treatments:
 - No instructions for using templates
 - No filled templates to develop loading modules
- Database design cannot be done without exact Treatment Information

Data Loading: Load files from client computer (upload)

Upload data from Client computer:

- Tool to load data into XFEL Database from the client side (WEB access)



- Online data access (CEA) - must be tested

XFEL Cavity Database GUI

The screenshot shows a web browser window with the title "Cavity Database - Mozilla Firefox". The address bar displays "xfel.desy.de/cavity_database/". The browser's toolbar includes navigation buttons and a search bar. The page content features a dark blue header with the "European XFEL" logo on the left, "DESY's XFEL Project Group" in the center, and the "HELMHOLTZ GEMEINSCHAFT" and "DESY" logos on the right. Below the header is an orange navigation bar with links: "Organization", "Jobs & Tenders", "Technical Information", "Workshops", "Cavity Database", "Project Group", "TC", "XPO", "Internal", and "Safety". The "Cavity Database" link is highlighted. The main content area has a left sidebar with links: "Cavity Database", "News", "Cavity Production", and "RF Measurements". The main text area is titled "Cavity Database" and contains the following information:

↑ XFEL ▸ Cavity Database ·

Cavity Database

This area contains technical information related to the XFEL project.

Publication policy:

The cavity database may contain so-far unpublished results. It is best practice to leave the publication to those having done the actual work. If you want to use some data as reference for other projects, please contact us. The database responsables are happy to help you contacting the relevant colleagues.

- Contact persons for the Database: [Vladimir Gubarev](#) and [Sibel Yasar](#)

At the bottom of the page, there is a footer with links: "Imprint", "Contact", "Sitemap", "Recommend page", and "© 2012 Deutsches Elektronen-Synchrotron DESY". A "top" link is also present in the bottom right corner.

XFEL Cavity Database GUI: Cavity Production (CP)

The screenshot displays the XFEL Cavity Database GUI in a Mozilla Firefox browser window. The address bar shows the URL `xfel.desy.de/cavity_database/cavity_production/`. The browser's top menu includes File, Edit, View, History, Bookmarks, Tools, and Help. The top navigation bar features the European XFEL logo, the text "DESY's XFEL Project Group", and the Helmholtz Gemeinschaft logo. Below this is a horizontal menu with tabs: Organization, Jobs & Tenders, Technical Information, Workshops, Cavity Database, Project Group, TC, XPO, Internal, and Safety. The "Cavity Database" tab is selected, and the "Cavity Production" sub-tab is active. The left sidebar contains a "Cavity Database" section with links to News, Cavity Production, and RF Measurements. The main content area is titled "Cavity Production" and includes a breadcrumb trail: "XFEL > Cavity Database > Cavity Production". It lists four categories of cavity production, each with a password protection notice: "Half cells", "Dumb-bells", "End groups", and "Cavity in Helium Tank". Each category contains a list of specific cavity types with their respective test numbers and descriptions.

European XFEL DESY's XFEL Project Group HELMHOLTZ GEMEINSCHAFT DESY

Organization Jobs & Tenders Technical Information Workshops **Cavity Database** Project Group TC XPO Internal Safety

← XFEL > Cavity Database > **Cavity Production**

Cavity Database
News
Cavity Production
RF Measurements

Cavity Production

Half cells
Password protected - for permission ask [Jens Iversen @ DESY](#)

- ☒ [HCN - normal half cells](#)
Mechanical and frequency checks according test number V_M01 and V_F01
- ☒ [HCL - long half cells](#)
Mechanical and frequency checks according test number V_M02 and V_F02
- ☒ [HCS - short half cells](#)
Mechanical and frequency checks according test number V_M03 and V_F03

Dumb-bells
Password protected - for permission ask [Jens Iversen @ DESY](#)

- ☒ [DB - dumb-bell](#)
Mechanical and frequency checks according test number W_M01 and W_F01

End groups
Password protected - for permission ask [Jens Iversen @ DESY](#)

- ☒ [EGL - long end groups](#)
Mechanical and frequency checks according test number W_M02 and W_F02
- ☒ [EGS - short end groups](#)
Mechanical and frequency checks according test number W_M03 and W_F03

Cavity in Helium Tank

- ☒ [Transfer Measurement](#)
Transfer measurement according test number Y_TM01
- ☒ [Eccentricity Measurement](#)
Cavity eccentricity measurement

XFEL Cavity Database GUI: Cavity RF Measurements (CT)

RF Measurements - Mozilla Firefox

File Edit View History Bookmarks Tools Help

xfel.desy.de/cavity_database/rf_measurements/

openSUSE Usefull News Oracle DESY Wetter HAMBURG Wikipedia

RF Measurements

14:24
16-04-2012

European XFEL

DESY's XFEL Project Group

HELMHOLTZ GEMEINSCHAFT

DESY

Organization Jobs & Tenders Technical Information Workshops Cavity Database Project Group TC XPO Internal Safety

XFEL Cavity Database RF Measurements

RF Measurements

"Warm" RF measurements for XFEL cavities

- HOM coupler rejection filter
- Spectrum comparison

[Spectrum & more ...](#)

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top