iFSC★Tools

v2.7.0

Web application developped at LAM
dedicated for the SVOM Burst Advocates

Chrystel Moreau (LAM)

The Components

iFSC-Tools is composed of 4 components :
- the NATS client to subscribe and publish notifications for the real time management
- the database to store for ex the GRB and the ToO
- the REST server to communicate between the database and the web client
- the WEB client to display the SVOM BA informations
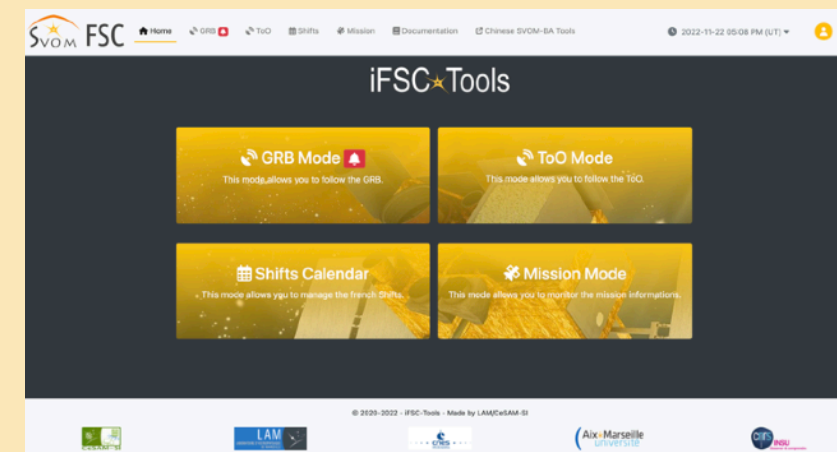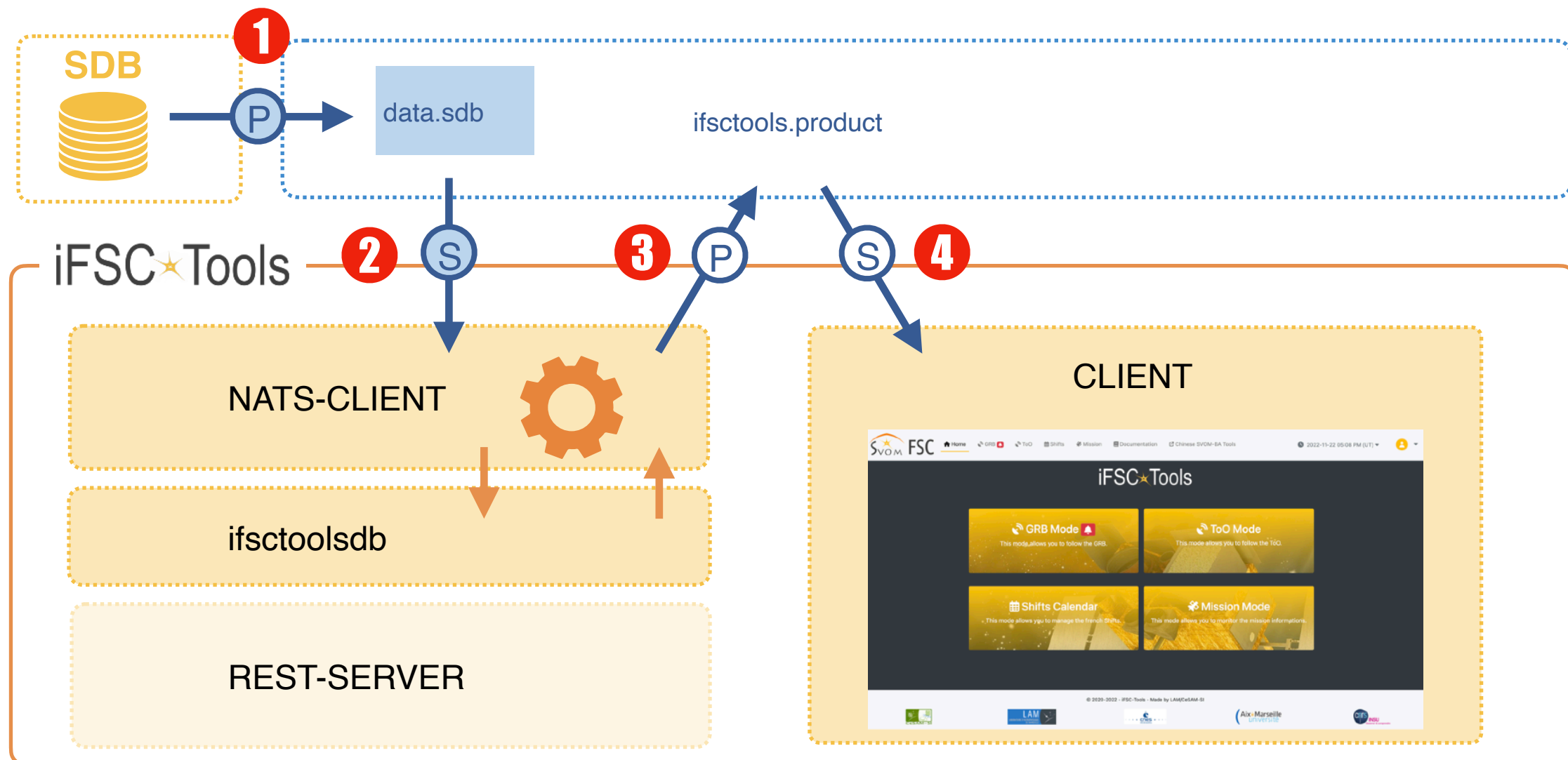
The Real Time System

As soon as a new product has been imported into the SVOM DB,

1. the SDB sends a notification,
2. iFSC-Tools subscribed to the SDB and TOO channels sets off the GRB and ToO online modes,
3. by publishing the products informations for the web client
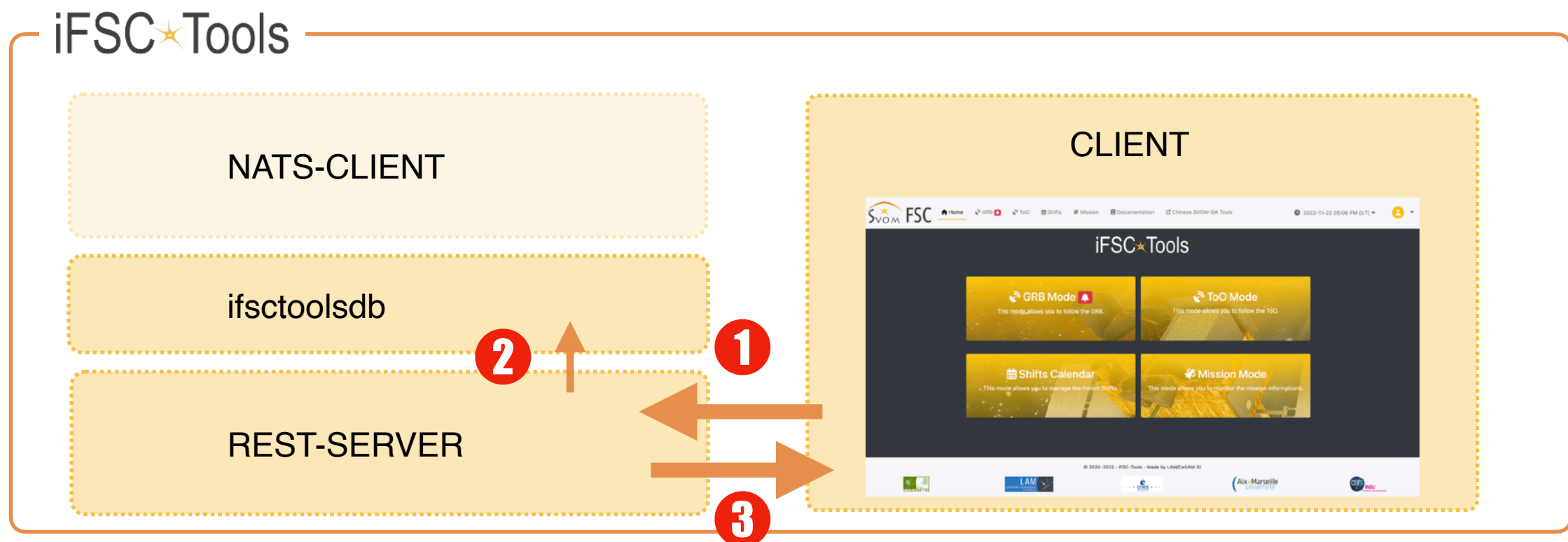4. and by subscribing to product the displays.

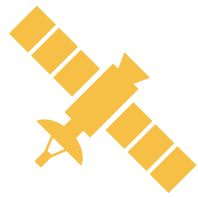*IFSC-Tools - v2.7.0, Chrystel Moreau (LAM)*

The current System

When the BA selected a GRB or ToO after the real time sequence :
1. the WEB client sends to the REST server a request
2. the REST server extracts data from the database,
3. and sends back the results to the WEB client for the displays.

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HOME

After the step of authentification, the BA can access to several modules

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GRB Mode

With the GRB mode, the BA can list & follow the available or current GRB and display the available science products

GRB List

GRB Mode

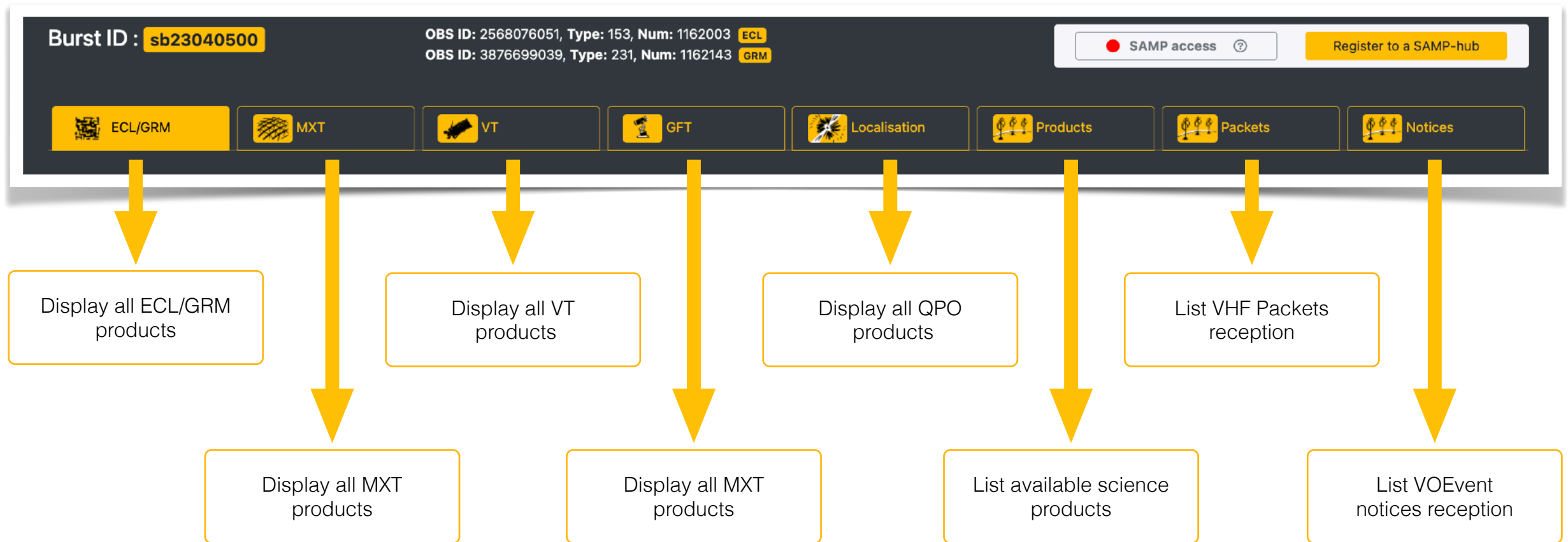The BA can list available GRB by Year, by Date range or by GRB id

Products List

For the selected GRB, iFSC-Tools loads the available science products and displays them on dedicated tab to each instrument

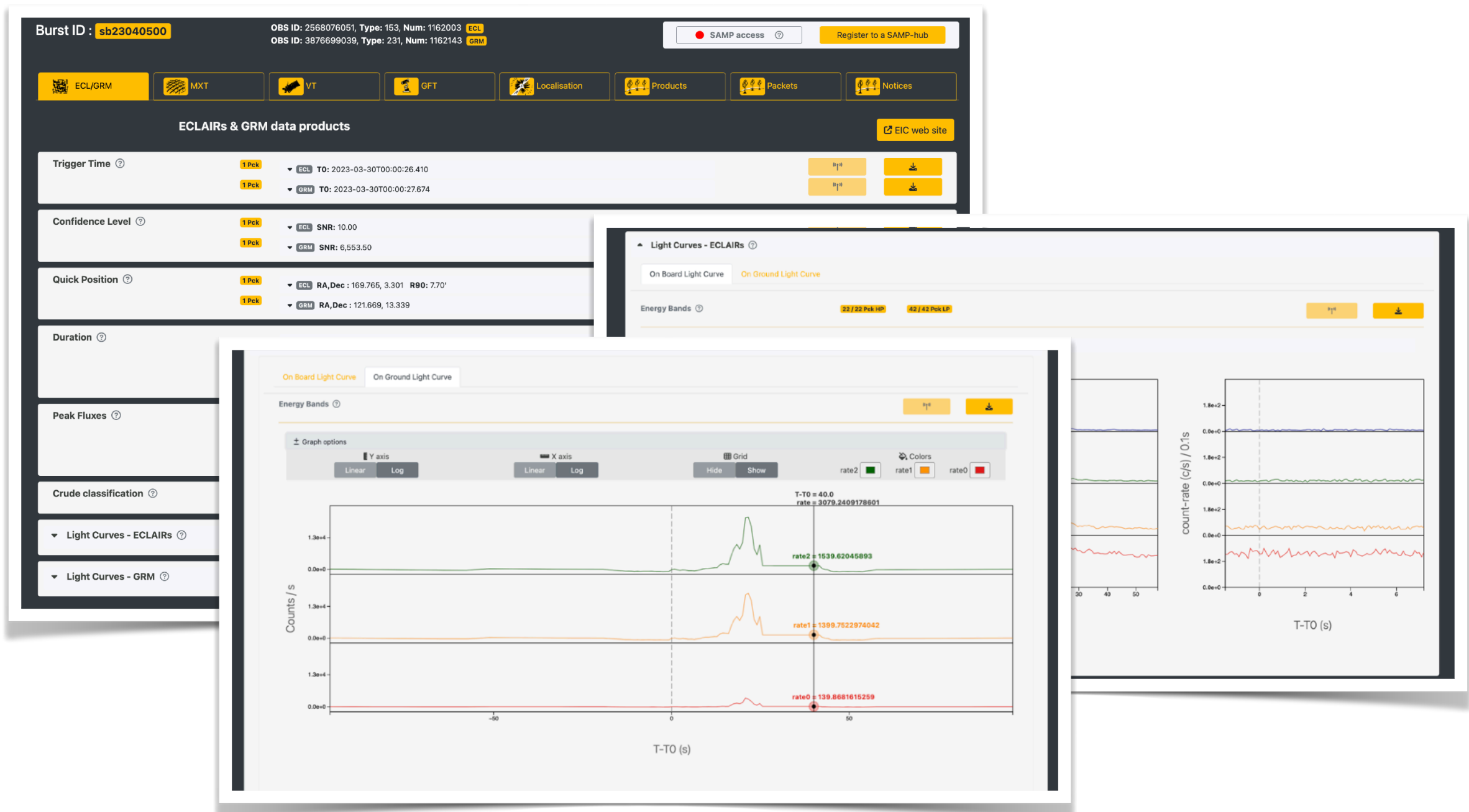During a GRB sequence, the new products are displayed in real time

Burst ID : **sb23040500**

OBS ID: 2568076051, **Type:** 153, **Num:** 1162003 `ECL`
OBS ID: 3876699039, **Type:** 231, **Num:** 1162143 `GRM`

● SAMP access ⓘ   Register to a SAMP-hub

| ECL/GRM | MXT | VT | GFT | Localisation | Products | Packets | Notices |

Display all ECL/GRM products

Display all MXT products

Display all VT products

Display all MXT products

Display all QPO products

List available science products

List VHF Packets reception

List VOEvent notices reception

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Products display (1)

For exemple, the BA can visualise the Trigger Time and the Light Curves of ECLAIRs or GRM

Products display (2)

GRB Mode

and the Detection Time and the Light Curves of MXT and the VT Images

Localisation

the BA can also visualise the available detected Positions by the instruments

Localisation Options

The localisation Display offers several options like show/hide positions, show/hide the error box, change the color or change the position format (deg or hms)

Available products

the BA can check the available science products during a GRB sequence

			Available Science Products						
Product	**Pipeline**	**Definition**	**Created**	**Last upd**	**Nb of upd**	**Download**	**Broadcast**	**SDB**	**PDB**
QTI_MXT	MXT pipeline	Quick temporal index	2023-04-27 13:45:32.9	2023-04-27 13:45:32.9	1	⬇	📡	🗄	🗄
QLC_MXT	MXT pipeline	Quick Light Curve	2023-04-27 13:43:31.7	2023-04-27 13:43:31.7	1	⬇	📡	🗄	🗄
QF_MXT	MXT pipeline	Quick Flux at detection	2023-04-25 14:49:43.6	2023-04-25 14:49:43.6	1	⬇	📡	🗄	🗄
DT_MXT	MXT pipeline	Detection time	2023-04-25 14:26:43.3	2023-04-25 14:26:43.3	1	⬇	📡	🗄	🗄
QPO_MXT	MXT pipeline	Quick position	2023-04-19 09:05:58.7	2023-04-19 09:05:58.7	1	⬇	📡	🗄	🗄
OBALERT_ECL	VHF pre-proc	Trigger params	2023-04-19 08:46:29.3	2023-04-19 08:46:29.3	1	⬇	📡	🗄	🗄
OBLC_ECL	VHF pre-proc	On-Board Light Curve							🗄
OBLC_GRM	VHF pre-proc	On-Board Light Curve							🗄
QLC_ECL	VHF pre-proc	Quick Light Curve							🗄
QLC_GRM	VHF pre-proc	Quick Light Curve							🗄
QPF_ECL	VHF pre-proc	Quick peak flux							🗄
QPF_GRM	VHF pre-proc	Quick peak flux							🗄

Packets & VoEvent reception

and also check the VHF packets reception and the Notices reception

ToO Mode

With the ToO mode, the BA can list & follow the available or current ToO and display the available alerts and available science products

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ToO Mode

Like with the GRB mode, the BA can list the ToO by Year, by Date range or by ToO id

Alerts & Products

ToO Mode

For the selected ToO, iFSC-Tools loads the available alerts and science products and displays them on dedicated tab

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Shifts Calendar

With the Shifts Calendar, the BA check and manage the french Shifts

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Shifts Visualisation

The first tab displays all shifts.

if the shift is complete : with main and backup BA

if the shift is incomplete : with main or backup BA

if the shift is empty : with no main and no backup BA

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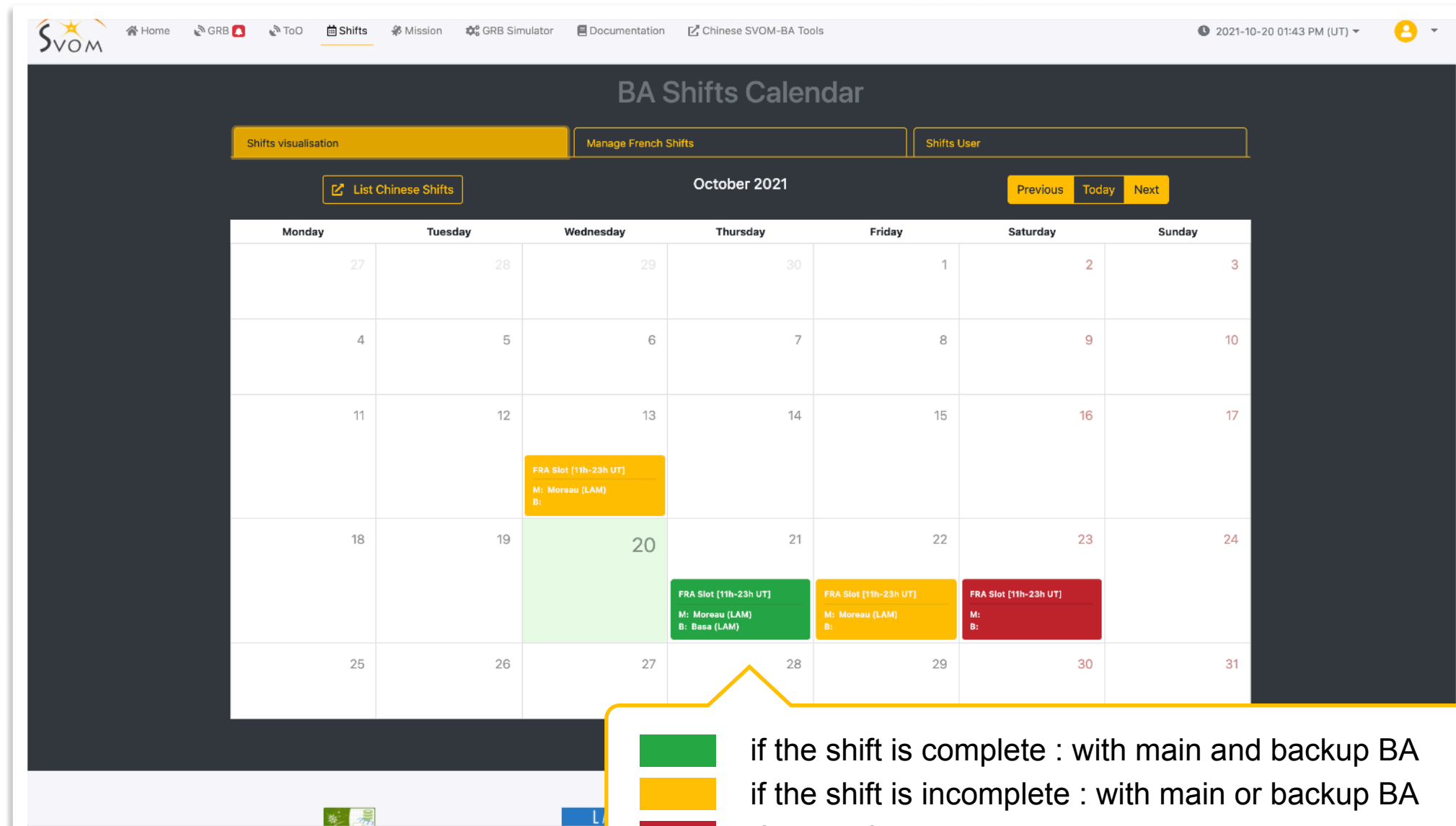
The second tab allows to manage the french shifts.

The BA can Add or Edit a shift to complete it, and the shifts status changes in real-time.

SHIFTS User

Shifts Mode

This tab allows to check the statistics of the BA

Mission Mode

With the Mission, the BA can monitor the mission informations

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Mission Mode

The current version provides only the spacecraft informations
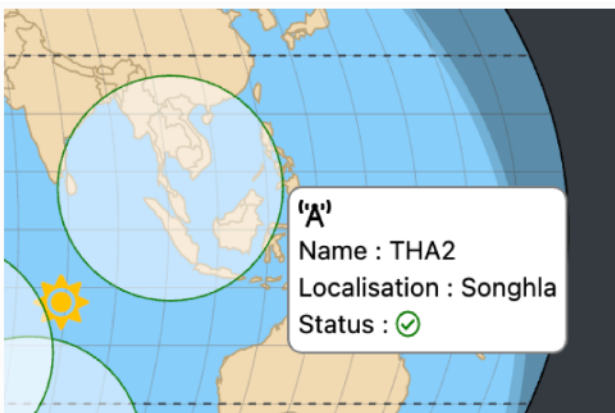like observatories positions or stations activities

Spacecraft tab

the BA can select an observatory or VHF stations and get informations
the BA can also show or hide the several map visualisation options

ToDO

Finish the GRB mode with the specifications for VT and GFT products

Improve the ToO mode with the specifications for VHF and X-Band products

Improve the Mission mode