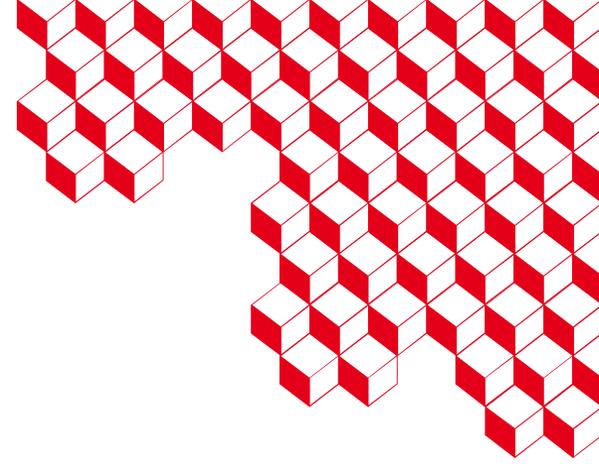




irfu



BA-T Diagnostics Tools

Nicolas Dagoneau (IRFU/DEDIP)

BA-T Workshop

March 2026

BA-T (validation) procedure



https://forge.in2p3.fr/projects/etog-validation/wiki/Burst_Advicate_Trigger_procedure

Notice status (wakeup)



vhf-data-monitor BOT 19:27 etog-Triggers-validation

sb26031604 [GRB-INIT-1062]

open the 'Reply' thread to discuss this trigger validation

[\[SVOM-Alerts\]](#) [\[iFSC-Tools\]](#) [\[AliXCatDB\]](#)

BURST_ID INSERTION TIME (UTC) ↓ NOTICES

> sb26030504

2026-03-05T07:14:30

grm-preliminary

grm-trigger

grm-refined

eclairs-preliminary

eclairs-wakeup

eclairs-refined

eclairs-grm_hr

not-slewing

mxt-initial

vt-candidate

retraction



Processing logs:

++GROUND_FLAG:

2026-03-05T07:22:00.566688+00:00 [ON-HOLD]

PASS: SkySnrMax 16.03 < 666

PASS: SkySnrMax 16.03 >= 8.5

PASS: SkySnrMax/SkySnrStd 13.04 >= 8.5

PASS: SnrDiffMax2 11.50 >= 1.5

↓ BLOCKING: GLAT -2.76 is in [-10, 10] degrees

Sky map: AlixCatDB

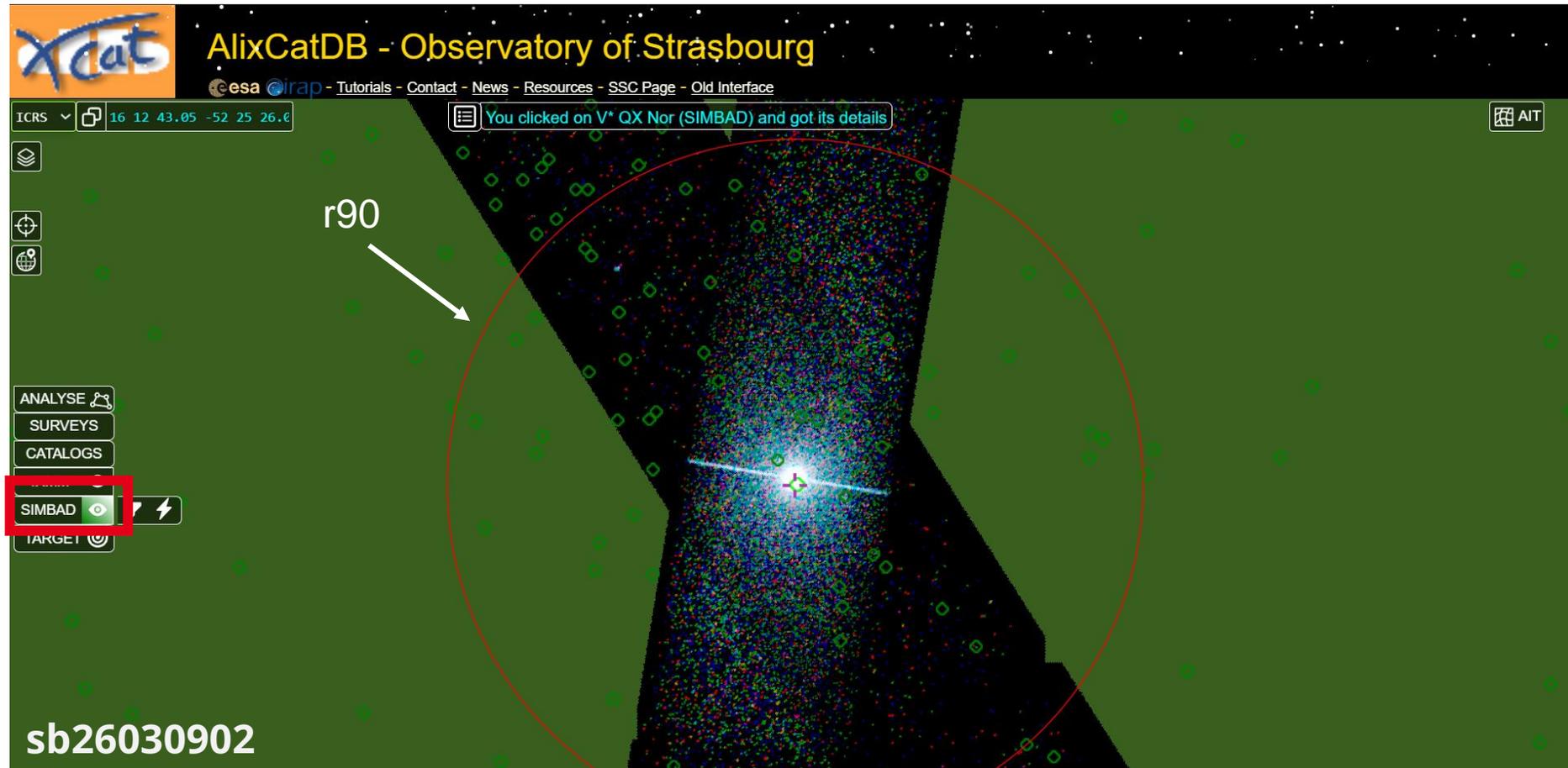


vhf-data-monitor BOT 19:27 etog-Triggers-validation

sb26031604 [GRB-INIT-1062]

open the 'Reply' thread to discuss this trigger validation

[SVOM-Alerts] [iFSC-Tools] **[AlixCatDB]**



iFSC-Tools

With shadowgram: sb25122206, sb25120305

With sub-image: sb25032706



vhf-data-monitor BOT 19:27 etog-Triggers-validation

sb26031604 [GRB-INIT-1062]

open the 'Reply' thread to discuss this trigger validation

[SVOM-Alerts] [iFSC-Tools] [AliXCatDB]

BA-T choices:

- Possible GRB
- Known X-ray source
- Unknown X-ray source
- False trigger
- *Confirmed GRB* → BA-F

The screenshot shows the iFSC-Tools web interface for GRB sb25122206. The top navigation bar includes links for Home, GRB, ToO, Shifts, Mission, Documentation, Chinese SVOM-BA Tools, and SVOM GRB-Table. The main content area is divided into several sections:

- GRB Informations - BurstID: sb25122206**: Status is **Confirmed GRB** (highlighted in red). Other details include GRB Name: GRB 251222A, GRB Contact: N/A, GRB Version: N/A, and contact emails: hyang@irap.omp.eu / sebastien.guillot@irap.omp.eu.
- GRB Slew status**: ECL Obs Id: 2566914973, Type: 153, Num: 925. A green button indicates **Slew Accepted**.
- SAMP access**: A red dot indicates access is required, with a yellow button to **Register to a SAMP-hub**.
- GRB-Table added values**: A section for additional data points.
- ECLAIRs & GRM data products**: A section with tabs for ECL Trigger Info, ECL/GRM, MXT, VT, FU, Positions, Mission, Products, Packets, and Notices. An **EIC web site** link is also present.

Below the navigation tabs, there are three data product rows:

- Trigger Time**: 15 Pck, ECL Tb[s]: 283194351.888357, TbUTC: 2025-12-22T17:05:51.888
- Confidence Level**: 15 Pck, ECL SNR: 26.30, Std: 1.444, SnrDiffMax2: 19.21259880065918
- Onboard Position**: 15 Pck, ECL RA, Dec: 77.215, -7.216, R90: 3.55'

FSC interfaces

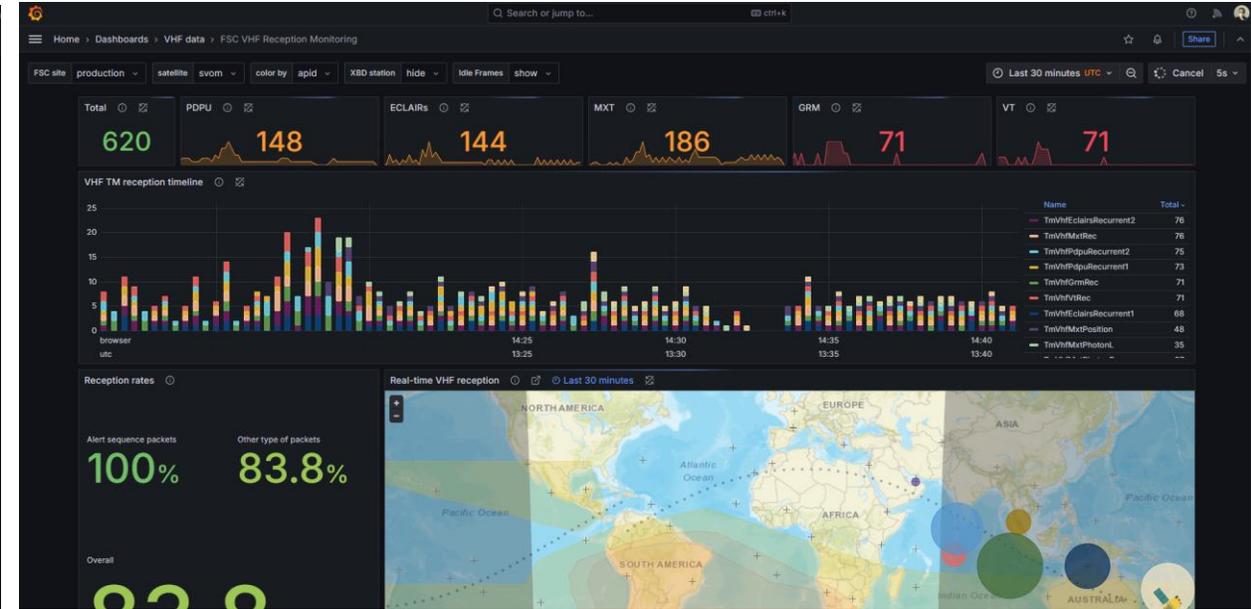
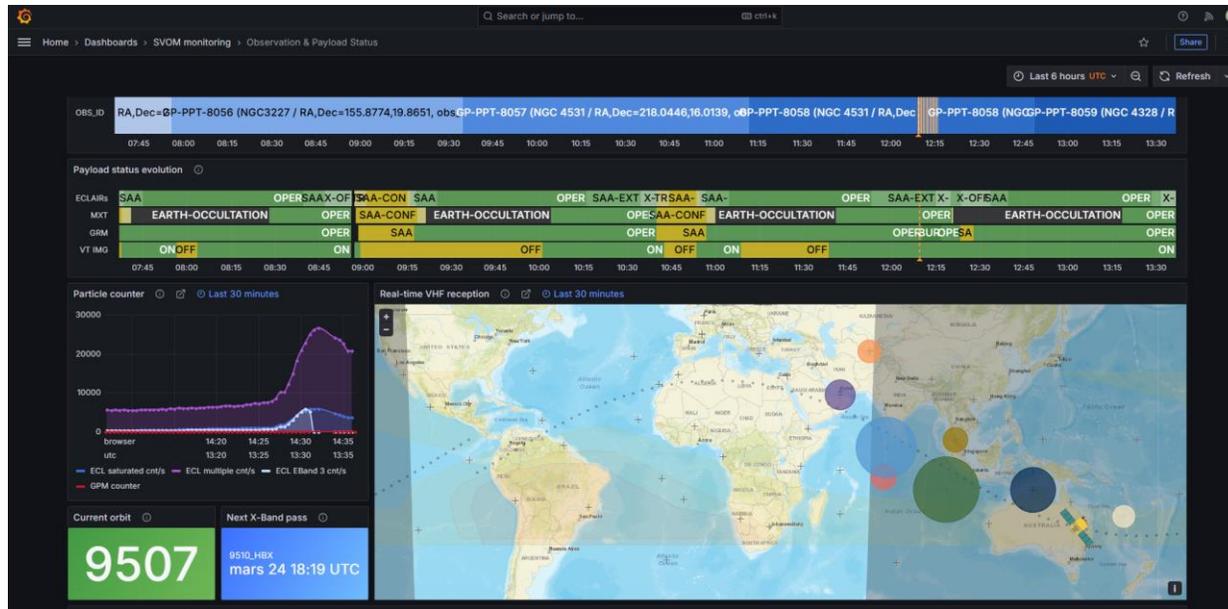


SVOM
French Science Center portal

- Science**
Links to pages dedicated to the science of SVOM
 - IFSC-Tools** *The Burst Advocates dedicated interface*
 - GRB Table** *SVOM public GRB records*
 - Notices & Circulars** *SVOM notices and circulars*
 - ECLGRM** *ECLAIRS/GRM pipeline runs*
 - VTAC** *VT Afterglow Candidates pipeline runs*
 - ToO-MM** *Target Of Opportunity Multi-Messenger server*
 - Workplan** *SVOM planned and realized observations*
- Documentation**
Links to FSGS-related documentation
 - FSGS readthedocs** *Centralized documentation page*
 - Other documentation pages**
- Infrastructure**
Interfaces for common services and infrastructure monitoring
 - Orchestrator** *Automated pipeline processings orchestrator*
 - Pipelines** *All pipelines status, processings, requests*
 - Reprocessing** *The Pipeline Reprocessing Interface*
 - NATS/JetStream** *Centralized messaging system*
 - SSDC Data** *SSDC FTP data retrieval monitoring*
 - Grafana** *Grafana monitoring dashboards*
- Databases**
Links to the FSC databases User Interfaces
 - SDB** *SVOM Science Database*
 - VHF** *VHF Database interface*
 - X-Band** *X-Band Database interface*
 - CrestDB** *Generic purpose Conditions Database interface*
 - CalDB** *Calibration Database interface*
 - AuxHKDB** *Auxiliary HouseKeeping Database interface*
- Instrument Centers**
Links to the SVOM Instrument Centers: ECLAIRS, MXT, and GFT
 - MIC** *MXT (Micro-Channel X-Ray Telescope)*
 - EIC** *ECLAIRS (X/Gamma-Ray Wide-Field Telescope)*
 - EIC/ETC** *ECLAIRS Trigger Control*
 - GIC** *F-GFT (French Ground Follow-up Telescope)*
 - GRM@IHEP** *Link to GRM website hosted at IHEP*
- Developers**
Links to FSC developers utilities
 - Sonarqube** *FSC code quality tool*
 - Portainer** *Docker swarm interface*
 - Harbor** *Docker image registry interface*
 - cdata browser** *Persistent data browsing (/cdata/)*
 - JSON schemes** *Messages and scientific products schemes in JSON format*
 - Integration site** *Go to FSC integration site*

Satellite position / packets reception (live)

<https://admin.svom.eu/grafana>

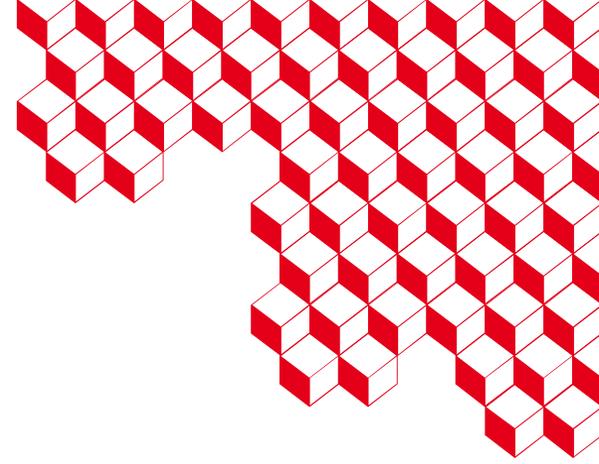


BA-T wiki (<https://forge.in2p3.fr/projects/etog-validation>)

- Procedure: https://forge.in2p3.fr/projects/etog-validation/wiki/Trigger_Advocate_procedure
- Summary reports: https://forge.in2p3.fr/projects/etog-validation/wiki/Onboard_summary
- Verdict tables: https://forge.in2p3.fr/projects/etog-validation/wiki/Basic_TriggerVerdict
- F.A.Q.: <https://forge.in2p3.fr/projects/etog-validation/wiki/Faq>



irfu



ETC - Trigger User Interface

Nicolas Dagoneau (IRFU/DEDIP)

BA-T Workshop

March 2026

Context

- User interface developed to provide displays for ECLAIRs triggers outputs (VHF, X-band: RawData, engineering housekeeping, scientific housekeeping).
- Performs data requests to FSC VHF and X-band databases.
- Designed to be used online at FSC or locally (in particular to be able to analyse trigger test benches outputs).
- Intensively used during the commissioning phase to validate the alert sequences.
- Complementary to the EIC website.
- *Experimental* interface for future implementations on iFSC-Tools.

Development

- Pure python package (called *usspytools*)
- Includes etc-trigger-ui as well as other tools
- Depends on *ssbpy* → requires Ubuntu 22.04 for a local usage (otherwise, docker is recommended)
- User interface based on [plotly-dash](#)
- Code hosted in GitLab instance @ IRFU : <https://drf-gitlab.cea.fr/svom/etc/etc-trigger-ui>
- Follows FSC development workflow and guidelines (validation, quality, continuous integration, deployment)

UIs at FSC

(requires FSC account: [register](#))

On production server, deployed by FSC's admins

- <https://fsc.svom.org/etc-trigger/> (requires FSC role *etc_expert*)
- <https://fsc.svom.org/etc-trigger/ext/>
- Documentation : <https://fsc.svom.org/documentation/usspytools-package/ui.html>

On integration server (for tests purposes), deployed by continuous integration

- <https://fsc-integration.svom.org/etc-trigger/> (requires FSC role *etc_expert*)
- <https://fsc-integration.svom.org/etc-trigger/ext/>
- Documentation : <https://fsc-integration.svom.org/documentation/usspytools-package/ui.html>

(No service deployed on pre-production server)

Support



If you need assistance, there is several way:

- Questions: use Mattermost channel [etc-ext-tools](#) or [ugts-CEA-softUSSground](#)
- Report bug (when you are sure it's a bug, *maybe after asking on Mattermost*): open an issue on GitLab : <https://drf-gitlab.cea.fr/svom/etc/etc-trigger-ui/-/issues>. **Please explain how to reproduce the bug** (what data did you query, which buttons did you click...).

Known issues

- ~~Data conflicts when used simultaneously by several users (*etc-trigger* and *etc-trigger/ext* do not communicate with each other: separated containers): **should be solved now**~~
- Possible high memory usage at FSC: be careful and query only data on the time window you need (especially when querying X band data).

Tutorial

With shadowgram: sb25122206, sb25120305

With sub-image: sb25032706

The screenshot displays the fsc ETC-UI web interface. At the top left is the fsc logo, and to its right are navigation links for ETC-UI and ETC-MESSAGING. On the top right, the user's name 'Nicolas Dagoneau' and a 'Logout' button are visible. Below the navigation bar is a breadcrumb trail: Home > TmVhfEclairs > TmVhfPdpi > TmXbDuplicVhfEclairs > TmXb > Configuration > Tools. The main heading is 'Home & Data management'. Underneath, the 'Input file:' is set to a long path ending in '.bin'. The 'Input configuration files:' section lists five .yaml files. The 'Time unit:' is set to 'PktDatelso' and the 'Status:' is 'Idle'. The 'Query data' section has two dropdown menus: 'Mode 1: time start/stop' and 'packetTime'.

{*fsc ETC-UI ETC-MESSAGING Nicolas Dagoneau | Logout

Home TmVhfEclairs TmVhfPdpi TmXbDuplicVhfEclairs TmXb Configuration Tools

Home & Data management

Input file: /home/etc-trigger-ui/code/usspytools/app/Nicolas_Dagoneau/ECL_TM_XB-RD-VHF_sb24100203_packetTime_2024-10-02-09-28-47_2024-10-02-09-44-41.bin

Input configuration files:

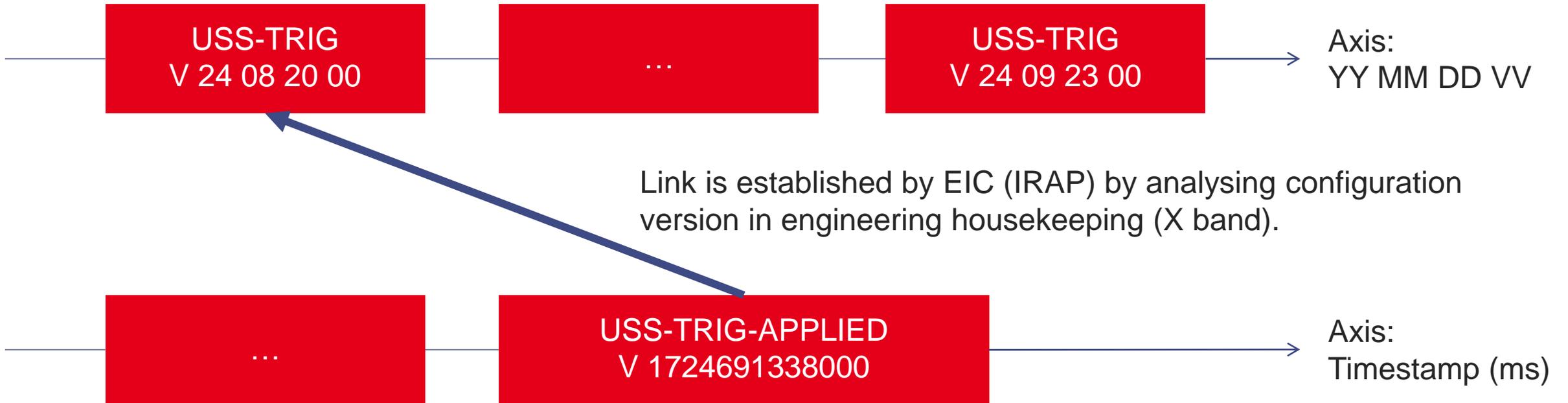
- /home/etc-trigger-ui/code/usspytools/app/Nicolas_Dagoneau/USS_TRIG_V24092300.yml
- /home/etc-trigger-ui/code/usspytools/app/Nicolas_Dagoneau/USS_CATALOG_SRCNAMES_V24082200.yml
- /home/etc-trigger-ui/code/usspytools/app/Nicolas_Dagoneau/USS_CATALOG_V24090500.yml
- /home/etc-trigger-ui/code/usspytools/app/Nicolas_Dagoneau/USS_DAQ_V24092300.yml
- /home/etc-trigger-ui/code/usspytools/app/Nicolas_Dagoneau/USS_PIXMASK_V23120600.yml

Time unit: PktDatelso Status: Idle

Query data

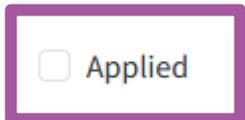
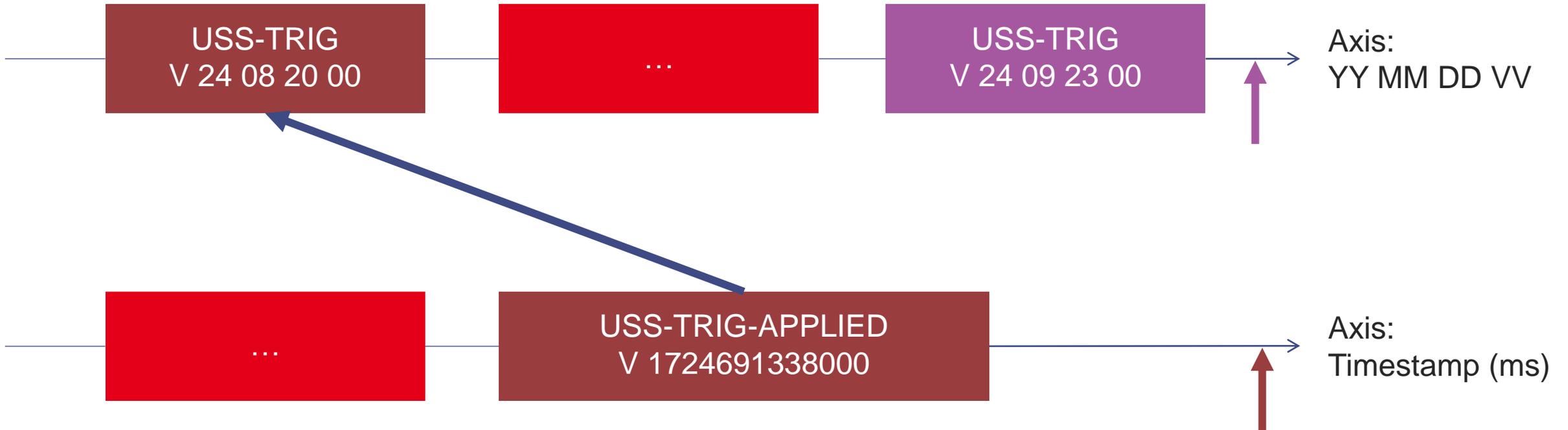
Mode 1: time start/stop packetTime

Configuration

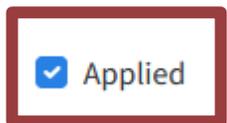


Configuration:

example for today (24 10 07 00, timestamp = 1728259200000)



The configuration has been prepared, possibly sent to the satellite, possibly applied, but not confirmed.



The configuration has been applied at the label timestamp, possibly not applied anymore if a new one was sent. Confirmation come by X band after real application can be seen in VHF.