

OFFENBACH TRAINING WORKSHOP · October 2026

Adding GTS headers properties to WIS2 Notifications

Maaïke Limper

WMO Secretariat · WIS Section · ESDP Department

GTS-to-WIS2 transition: responsibilities

Regional Telecommunication Hubs (RTHs):

- **Keep MSS operational** and handle bulletin transmission for associated NMCs until all WIS Centres in their area have migrated.
- **MSS shutdown by RTH once region is fully on WIS2** to be coordinated with WMO Secretariat

WIS Centres:

- **Set-up and operate WIS2 Nodes to share data and metadata**
- May stop MSS and GTS transmissions once all data is published on WIS2 and **GTS properties are included in WIS2 Notification Messages** (per gateway requirements)
- **New data has to be published via WIS2** (no new GTS headers will be issued by WMO)

Using the WIS2-to-GTS gateway

WIS2-to-GTS gateway enables data-publishers to discontinue their current data-feed to GTS during the transition period

- This gateway relies on additional GTS-properties added to the WIS2 Notification Message
- Before switching off data-feed to GTS you must inform WMO Secretariat, to ensure whitelists on the gateways are updated
- When publishing new data on WIS2, no GTS-properties need to be provided, new data will not be published on GTS

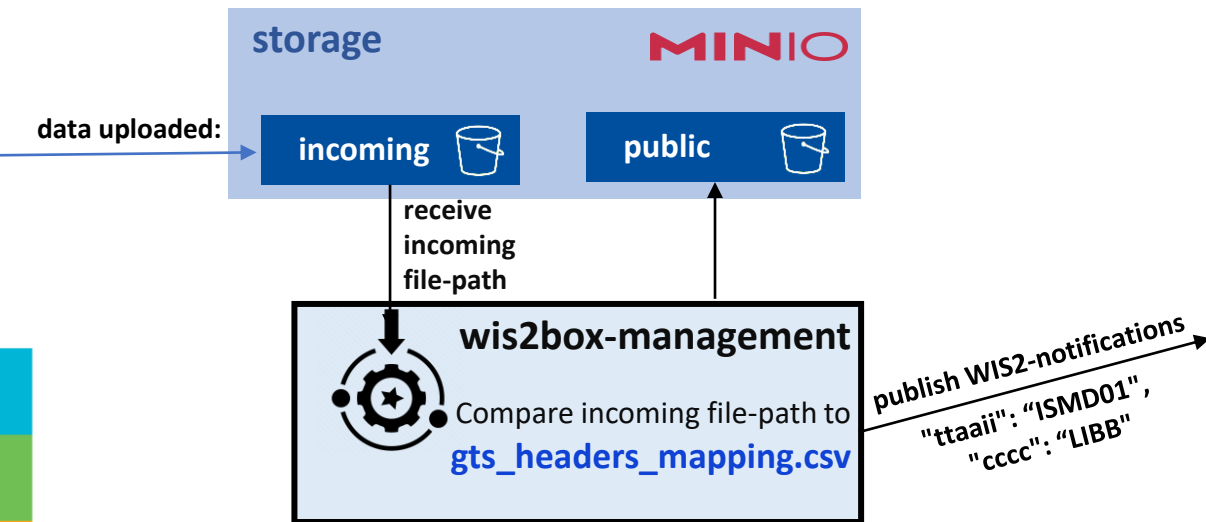
wis2box can add additional GTS-properties to WIS2 Notification Messages using mapping-file or manual input



Adding GTS properties using wis2box

As of wis2box-1.3.0, data publishers have two options to (optionally) add GTS properties to their notifications:

1. For files uploaded into MinIO, prepare mapping-file “gts_headers_mappings.csv” with required properties



2. For data input using FM-12 SYNOP form in wis2box-webapp, select “Add GTS headers” and provide manually input

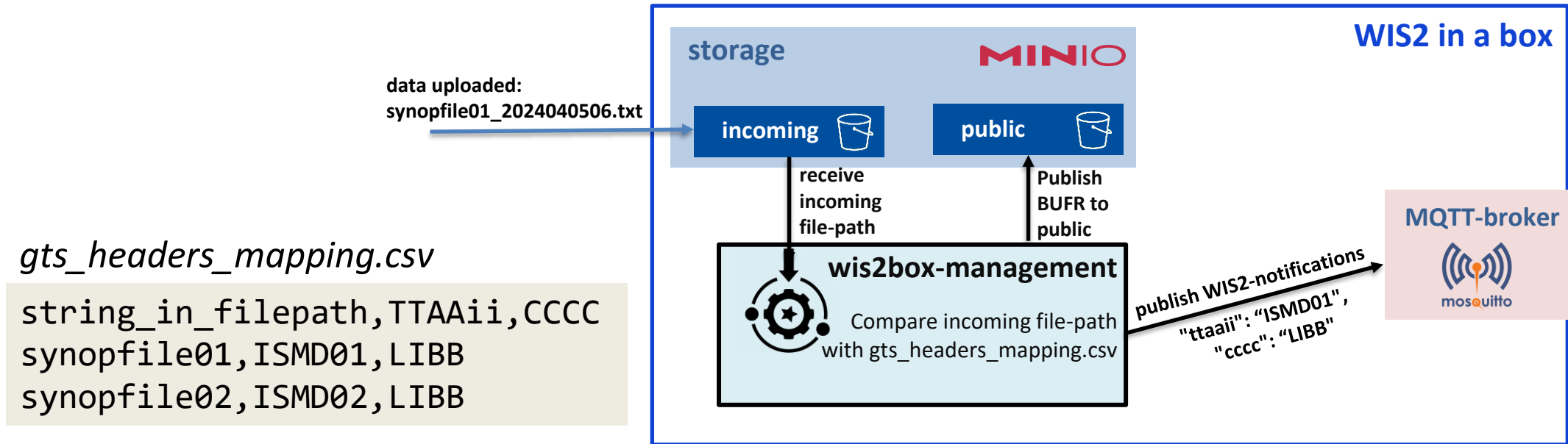
The screenshot shows the FM-12 SYNOP form in the wis2box-webapp. The form includes the following fields and options:

- FM 12** section with a text input containing: AAXX 03094 64400 42460 71004 10285 20245 30113 40133 8493/ 333 59005 83813 81930 87363 94966 95836=
- Raw FM 12 bulletin** section with a **Dataset Identifier** dropdown menu showing 'urn:wmo:md:maaike-test:wis2box-training' and the description 'Maaike's test dataset for for wis2box-training'.
- A text input for **wis2box auth token for 'processes/wis2box'** with a masked value '.....' and a copy icon.
- SUBMIT** button with a cloud upload icon.
- Two checkboxes: **Publish on WIS2** (checked) and **Add GTS headers** (checked).
- Two text inputs for GTS properties: **TTAAii** (containing 'SICG20') and **CCCC** (containing 'FCBB').

Add GTS properties for automated processing in wis2box

wis2box can use a CSV file to map GTS properties to incoming filenames

The CSV file should be named ***gts_headers_mapping.csv*** and placed in the directory defined by the `WIS2BOX_HOST_DATADIR` environment variable



wis2box will **NOT** add GTS headers to the WIS2 Notification Message if:

- `gts_headers_mapping.csv` file is not present in `WIS2BOX_HOST_DATADIR` environment variable
- `gts_headers_mapping.csv` file is present but the incoming filepath did not contain any of 'string_in_filepath' specified

Add GTS properties for automated processing in wis2box

After updating `gts_headers_mapping.csv`, the wis2box-management container must be re-started for the changes to take effect:

```
docker restart wis2box-management
```

If no mapping-file is found at start-up, wis2box-management container will emit a **WARNING**:

WARNING: To add GTS headers, please create `gts_headers_mapping.csv` in `WIS2BOX_HOST_DATADIR`

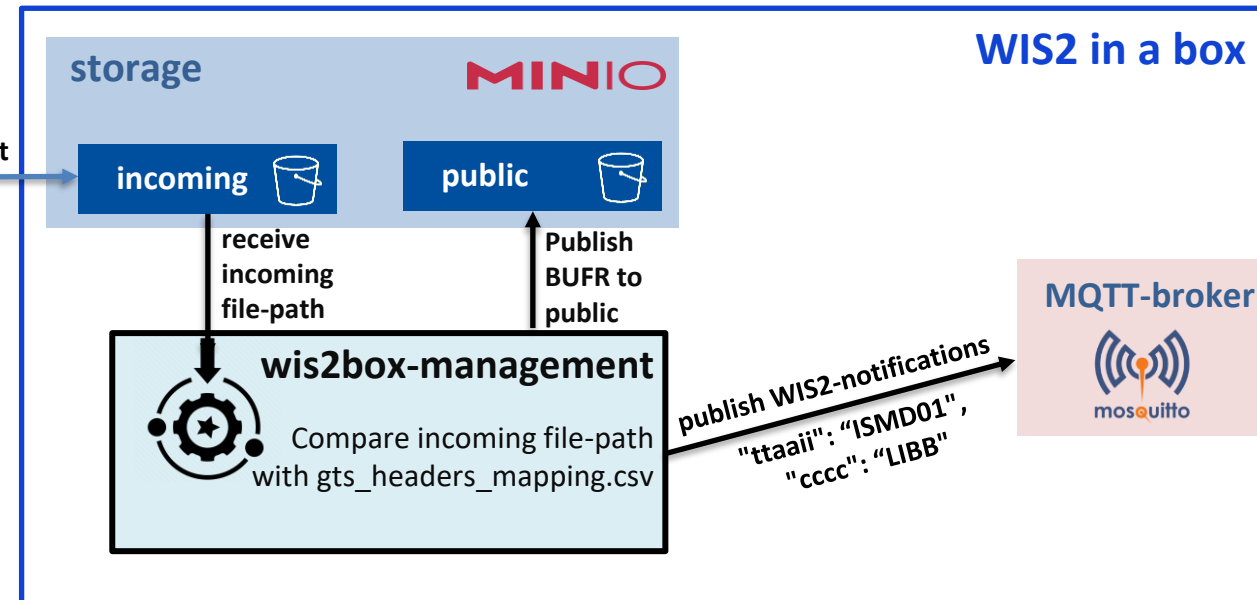
If the uploaded filename does not contain any of the “string_in_filepath”, data publication proceeds as usual, with no GTS-properties being added to the resulting notification



gts_headers_mapping.csv

string_in_filepath	TTAAii	CCCC
synopfile01	ISMD01	LIBB
synopfile02	ISMD02	LIBB

data uploaded:
synopfile01_2024040506.txt



DEMO

Demonstrate publishing a WIS2 Notification with GTS properties

<https://training.wis2box.wis.wmo.int/practical-sessions/adding-gts-headers-to-wis2-notifications/>

Thank you.



WORLD
METEOROLOGICAL
ORGANIZATION

wmo.int