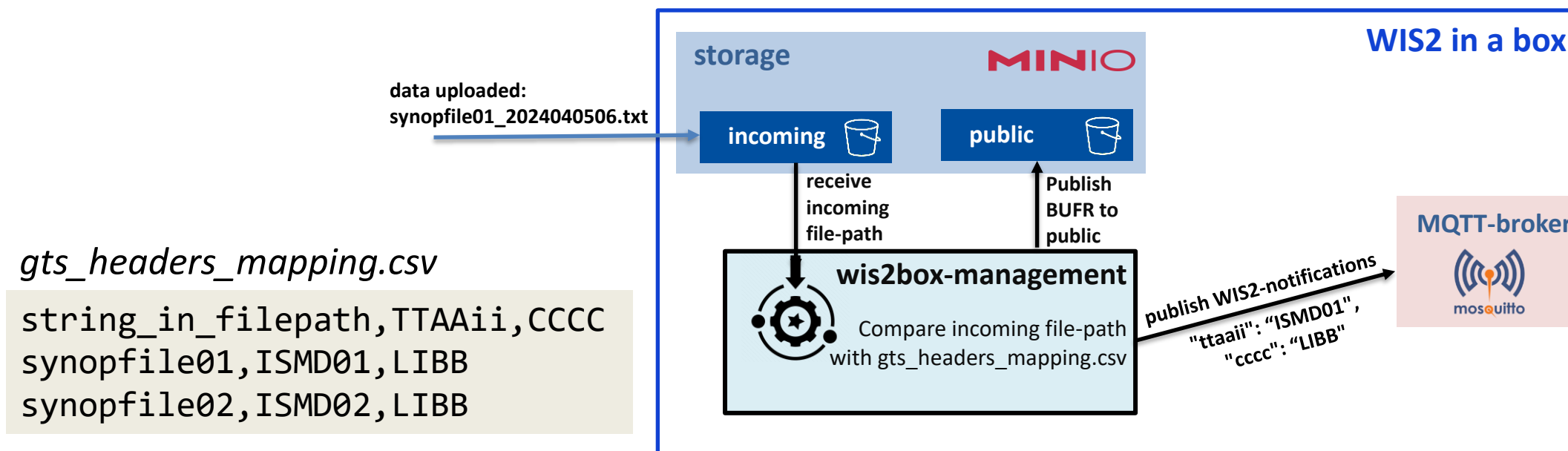


# Adding GTS headers to WIS2 notifications using wis2box

# Adding GTS properties using 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:**

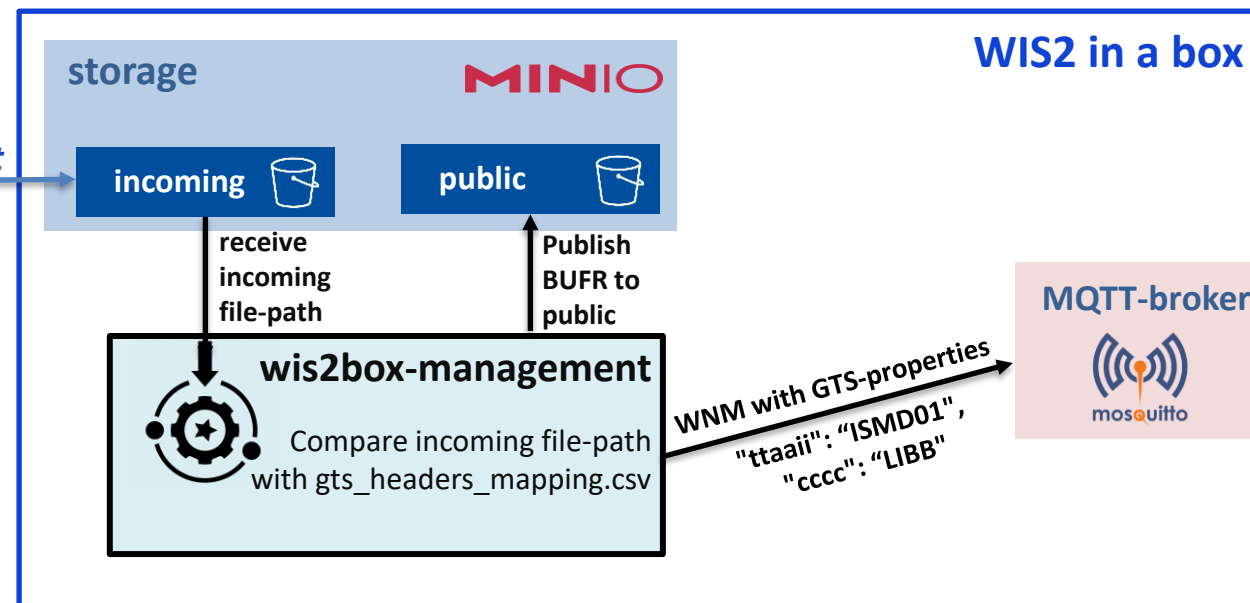
- **gts\_headers\_mapping.csv** file is not present in **WIS2BOX\_HOST\_DATADIR** environment variable
- **gts\_headers\_mapping.csv** file is present but the incoming filepath did not contain any of 'string\_in\_filepath' specified

# Adding GTS headers using wis2box

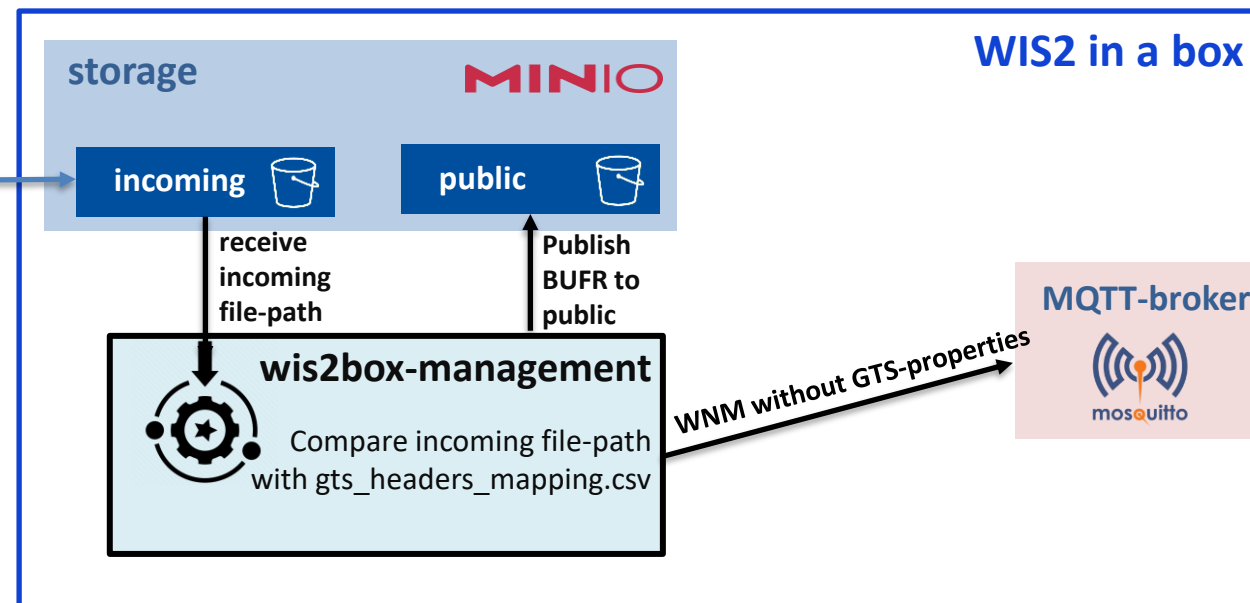
*gts\_headers\_mapping.csv*

```
string_in_filepath,TTAAii,CCCC  
synopfile01,ISMD01,LIBB  
synopfile02,ISMD02,LIBB
```

Data-file uploaded:  
*synopfile01\_2024040506.txt*



Data-file uploaded:  
*newdata\_2024040506.txt*



# Updating gts\_headers\_mapping.csv

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

# Review GTS-properties in MQTT explorer

Inspect MQTT payload to verify GTS-properties are added:

origin / a / wis2 / int-wmo-maaike / data / core / weather / surface-based-observations / synop

Value 



QoS: 0

09/16/2025 10:48:53 PM

```
"data_id": "int-wmo-maaike:hourly-synop/WIGOS_0-20000-0-64400_20240717T120000",
"datetime": "2024-07-17T12:00:00Z",
"pubtime": "2025-09-16T14:48:53Z",
"integrity": {
  "method": "sha512",
  "value": "hNzQY7Ph6SqpfYi51rXA/tn+kJbNoJTwoxKcdN7s86p3uwn+YsoRb8Qrjtbr85IBNVY7FwFEw1NMjBtFoEByWg=="
},
"metadata id": "urn:wmo:md:int-wmo-maaike:hourly-synop",
"gts": {
  "ttaaii": "SMR001",
  "cccc": "YRBK"
},
```

# Reviewing GTS-properties in wis2box-api

Messages published by wis2box can be viewed using the wis2box-api, where you can verify GTS-properties were set

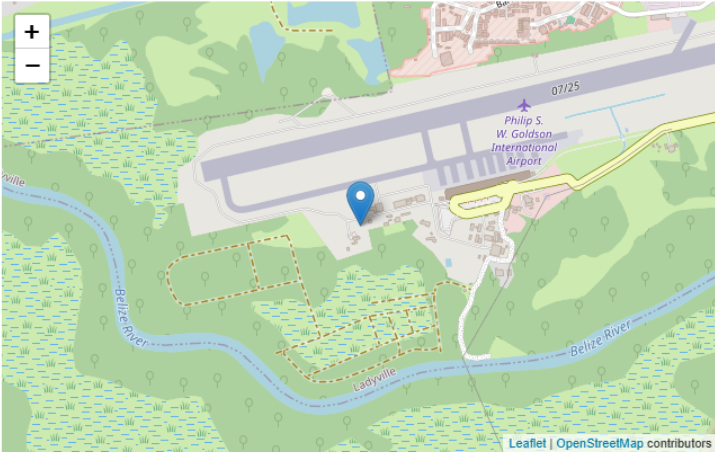
Example-query to get latest messages for a specific wigos\_station\_identifier (Belize)

[https://wis.nms.gov.bz/oapi/collections/messages/items?sortby=-datetime&wigos\\_station\\_identifier=0-20000-0-78583](https://wis.nms.gov.bz/oapi/collections/messages/items?sortby=-datetime&wigos_station_identifier=0-20000-0-78583)

click on message-id to see message-content :

id

[b63ea387-eb59-4f9f-86ba-5cecb8138486](#)



pygeoapi

Contact

Home / Collections / Data notifications / Items / b63ea387-eb59-4f9f-86b...

json jsonld

**b63ea387-eb59-4f9f-86ba-5cecb8138486**

| Property                 | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id                       | b63ea387-eb59-4f9f-86ba-5cecb8138486                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| data_id                  | bz-nms:belize-hourly-synop/WIGOS_0-20000-0-78583_20250307T100000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| datetime                 | 2025-03-07T10:00:00Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| pubtime                  | 2025-03-07T10:05:04Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| integrity                | method: sha512<br>value: A7mysFErRGO2+BUeUjv6Q7O0p1Q66dHVAgddrncVxwf7jWpVWWcLI34ZvkJAezN+IE8Fg9B3a5Oyj                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| metadata_id              | urn:wmo:md:bz-nms:belize-hourly-synop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| gts                      | ttaaII: ISNE01<br>cccc: MZBZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| content                  | encoding: base64<br>value:<br>QlVGUGABgAQAABYA/////wAAAAJuHgAH6QMHCgAAAAALAAABgMGWx2AAAVMABOIAAANzg1ODMAA<br>size: 384                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| wigos_station_identifier | 0-20000-0-78583                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Links                    | <ul style="list-style-type: none"><li><a href="#">WIGOS_0-20000-0-78583 ...</a> (application/bufr)</li><li><a href="#">0-20000-0-78583</a> (text/html)</li><li><a href="#">The landing page of this server as JSON</a> (application/json)</li><li><a href="#">The landing page of this server as HTML</a> (text/html)</li><li><a href="#">This document as JSON</a> (application/geo+json)</li><li><a href="#">This document as RDF (JSON-LD)</a> (application/ld+json)</li><li><a href="#">This document as HTML</a> (text/html)</li><li><a href="#">Data notifications</a> (application/json)</li></ul> |

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SCIENCE for ACTION

# Summary

During the transition phase: ensure that your WIS2 Node publishes WIS2 Notifications with additional GTS-properties, enabling the WIS2-to-GTS gateway to re-publish the data on GTS

When publishing new data on WIS2, no GTS-properties need to be provided

In wis2box you can use *gts\_headers\_mapping.csv* to map GTS properties to incoming filenames to add the additional GTS-properties to your WIS2 Notification Messages



# Thank you

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