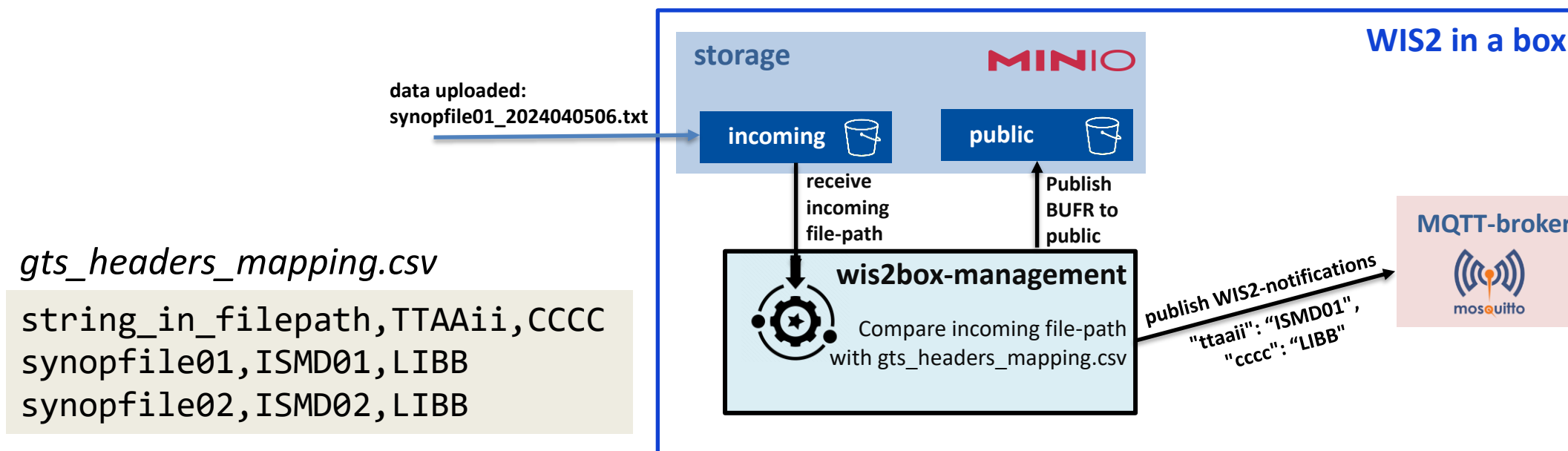


Adding GTS headers to WIS2 notifications using wis2box

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:

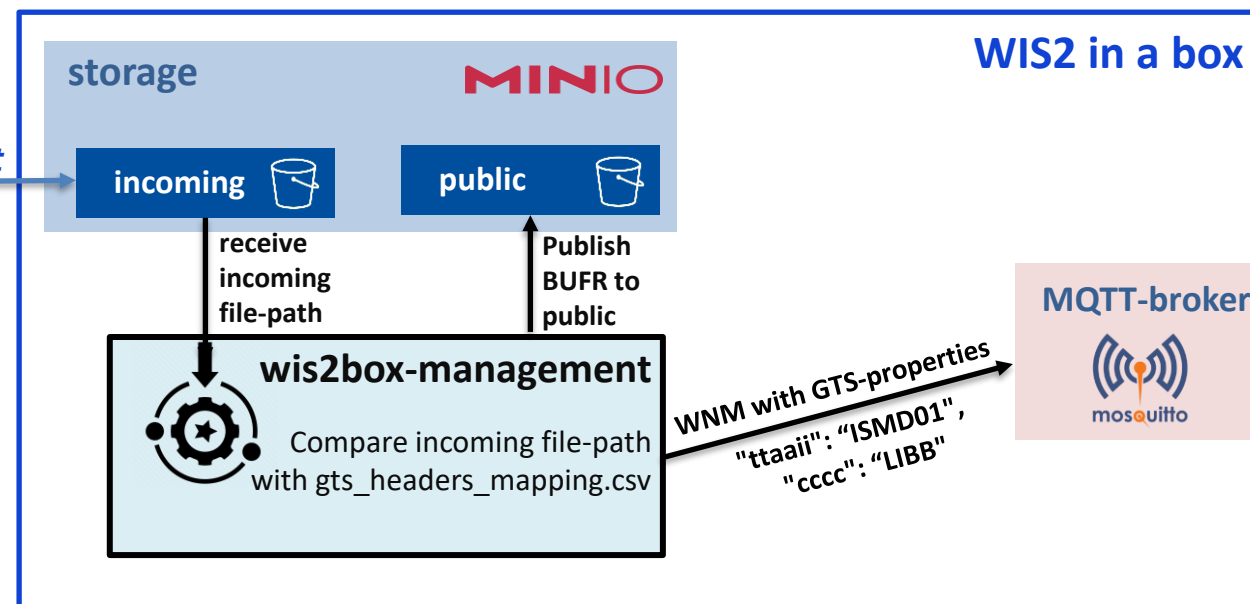
- **gts_headers_mapping.csv** file is not present in **WIS2BOX_HOST_DATADIR** environment variable
- **gts_headers_mapping.csv** file is present but the incoming filepath did not contain any of 'string_in_filepath' specified

Adding GTS headers using wis2box

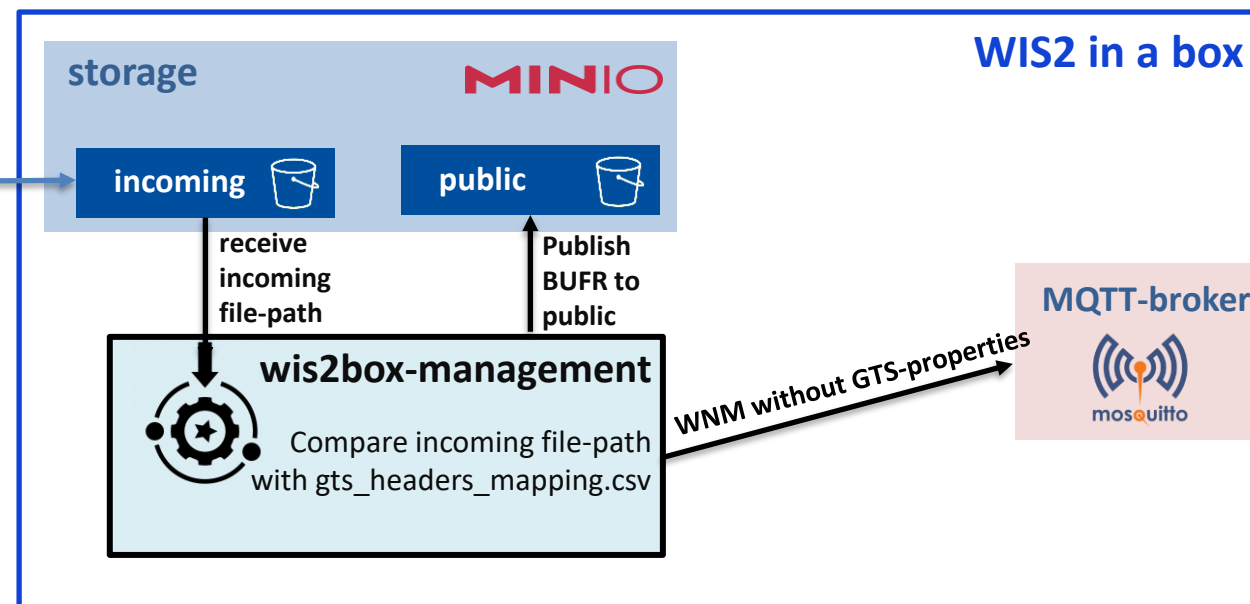
gts_headers_mapping.csv

```
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

09/17/2025 1:12:00 PM

```
"pubtime": "2025-09-17T05:11:59Z",
"integrity": {
  "method": "sha512",
  "value": "TDbtpC9nisUhoyvi1oxPnemMtTTTphqi2MTTeoMx1kRtWyzN4I33pPa0cmynhgybaQPISypOkEWYrrgEpL7A=="
},
"metadata_id": "urn:wmo:md:int-wmo-maaike:hourly-synop",
"fts": {
  "ttaai": "ISM001",
  "cccc": "YRBK"
},
"content": {
  "encoding": "base64"
```

WMO Support

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

click on message-id to see message-content :

id

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

pygeoapi

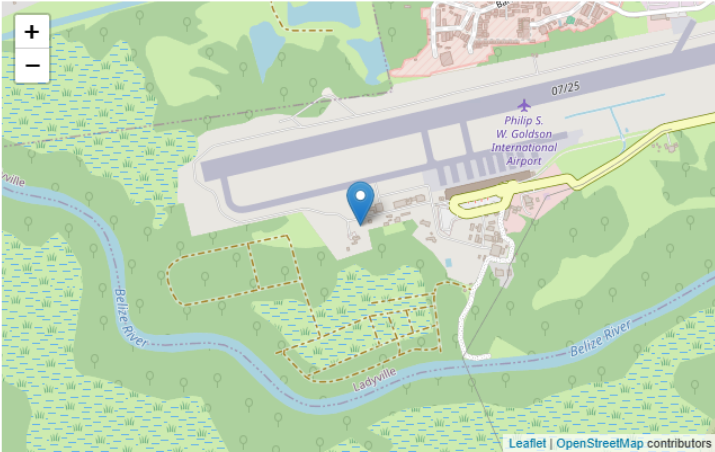
Contact

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

json jsonld

+

-



Leaflet | OpenStreetMap contributors

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 value: A7mysFErRGO2+BUeUjv6Q7O0p1Q66dHVAgddrncVxwf7jWpVWWcLI34ZvkJAezN+IE8Fg9B3a5Oyj
metadata_id	urn:wmo:md:bz-nms:belize-hourly-synop
gts	ttaaII: ISNE01 cccc: MZBZ
content	encoding: base64 value: QlVGUGABgAQAABYA/////wAAAAJuHgAH6QMHCgAAAAALAAABgMGWx2AAAVMABOIAAANzg1ODMAA size: 384
wigos_station_identifier	0-20000-0-78583
Links	WIGOS_0-20000-0-78583 ... (application/bufr) 0-20000-0-78583 (text/html) The landing page of this server as JSON (application/json) The landing page of this server as HTML (text/html) This document as JSON (application/geo+json) This document as RDF (JSON-LD) (application/ld+json) This document as HTML (text/html) Data notifications (application/json)



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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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