

OFFENBACH WIS2 TRAINING WORKSHOP · October 2026

WIS2 Node Registration and assessment process

Maike Limper

WMO Secretariat · WIS Section · ESDP Department

Who can operate a WIS2 Node to share data on WIS2 ?

Two types of entities (WIS2 Centres) can operate a WIS2 Node :

- **National Centre (NC) operate WIS2 Node** to publish data related to a specific country or territory, they should be published through a
- **Data Collection or Production Centre (DCPC)** publish data related to a region, program, or other specialized function within WMO

Organization wishing to share data on WIS2 that are not (yet) recognized as WIS Centres may refer to these instructions

Designation process of a DCPC

...or they may contact their NC to share data via their WIS Centre

Global Information System Centres (GISCs) are responsible for the support of NCs and DCPCs in their Area of Responsibility and ensure the smooth operation of the data exchange within the WIS2 network

<https://community.wmo.int/site/knowledge-hub/programmes-and-initiatives/wmo-information-system-wis/wis2-centres-ncs-dcps-and-giscs>

WIS2 Global Registry

WMO Secretariat records WIS2 Nodes in the WIS2 Global Registry

Global Brokers will only redistribute WIS2 Notifications for WIS2 Nodes recorded in the WIS2 Global Registry

National Focal Points on WIS matters use the WIS2 registration form to initiate the process to add a new WIS2 Node to the WIS2 Global Register

- *If you don't have an NFP on WIS matters yet, **please nominate one** !*
- (new) DCPCs should work with WMO Secretariat to determine their authoritative person for registering a WIS2 Node

For an overview of WIS2 Nodes currently registered and assessed to be “operational” see

<https://community.wmo.int/site/knowledge-hub/programmes-and-initiatives/wmo-information-system-wis/operational-wis2-nodes>



WIS2 Registration Process

WIS2 Registration steps:

- **Request to host a WIS2 Node** via WIS National Focal Point (NFP) or PR
- **Define a centre-id***: The centre identifier (centre-id) is an acronym as proposed by the Member and endorsed by the WMO Secretariat, e.g.: *dz-meteoalgerie*, *kz-kazhydromet*, *uy-inumet*, *de-dwd*, *br-inmet*, ...
- **Complete the WIS2 Register**: The WIS NFP shall complete the WIS2 Register operated by the WMO Secretariat (using [this form](#))
- **Provide Global Service details**: The WMO Secretariat provides connection details for the Global Services (e.g. IP addresses) so that the WIS2 Node can be configured to provide the access.
- **WIS2 Node assessment**: The principal GISC conducts the assessment and verifies that the WIS2 Node is compliant with WIS2 requirements.
- **Add new centre to WIS2**: GISC notifies WMO Secretariat and confirms that this WIS2 Node can be added to WIS2
- **Communicate details to the Global Services**: WMO Secretariat provides the WIS2 Node connectivity details to the Global Brokers to subscribe to the WIS2 Node and adds the WIS2 Nodes to the list of [Operational WIS2 Nodes](#)

*Defining a valid centre-id

- centre-id = **TLD** '-' centre-acronym
- **TLD** (top-level domain) defined by data.iana.org/TLD.
- Acronym may contain '-' but no special characters
- Entire centre-id is [lowercase](#)

Action by NC/DCPC

Action by GISC

Action by WMO Secretariat

WIS2 centre-id and Centre Name in WMO Codes Registry

The centre-id and Centre Name will be recorded in the WMO Codes Registry as part of the WIS2 Topic Hierarchy:
https://codes.wmo.int/wis/topic-hierarchy/_centre-id

Register: centre-id

stable

All properties

URI: <http://codes.wmo.int/wis/topic-hierarchy/centre-id>

Download

Acronym proposed by member and endorsed by WMO Secretariat

Contents

Show 20 entries

Filter entries:

Notation	Name	Description	Status
ae-ncm	ae-ncm	National Centre of Meteorology (NCM) (United Arab Emirates)	stable
ag-antiguamet	ag-antiguamet	Antigua and Barbuda Meteorological Services	stable
ai-metservice	ai-metservice	Caribbean Meteorological Organization (Anguilla)	stable
ar-smn	ar-smn	Servicio Meteorológico Nacional (Argentina)	stable
at-geosphere	at-geosphere	GeoSphere Austria	stable
au-imos	au-imos	Australia's Integrated Marine Observing System (IMOS)	stable
bb-barbadosmetservices	bb-barbadosmetservices	Meteorological Services (Barbados)	stable
bd-bmd	bd-bmd	Bangladesh Meteorological Department	experimental
be-rmib	be-rmib	Royal Meteorological Institute of Belgium	stable

“experimental” for new WIS2 Node during WIS2 Node Assessment

The WIS2 Development Infrastructure

During the WIS2 Node Assessment, the new WIS2 Node is connected to the WIS2 Development Infrastructure

GISC will determine if the new WIS2 Node is functioning correctly and provide assistance where required

```
▼ gb.wis2dev.io
  ▼ monitor
    ▼ a
      ▼ wis2
        fr-meteofrance-sensor-centre-global-cach
        mv-mms = {"specversion":"1.0","type":"int.w
        ie-meteireann = {"specversion":"1.0","type"
      ▼ origin
        ▼ a
          ▼ wis2
            ► mv-mms (1 topic, 1 message)
            ► my-metmalaysia (1 topic, 16 messages)
            ► ua-hmc (1 topic, 24 messages)
        ▼ cache
          ▼ a
            ▼ wis2
              ► mv-mms (1 topic, 1 message)
              ► my-metmalaysia (1 topic, 16 messages)
              ► ua-hmc (1 topic, 24 messages)
```

monitor / a / wis2 / ie-meteireann

Value 

<>

≡

QoS: 0

10/01/2026 12:21:22 PM

"href": "https://wis2.met.ie/wis2-data/core/weather/surface-based-observat:

"rel": "canonical",

"type": "application/octet-stream",

"length": 191

}

]

},

"title": "Missing Metadata record for data announced in WIS2 Notification Message

},

"severity": "ERROR"

}

}

Operational WIS2 Nodes in WMO Knowledge Hub

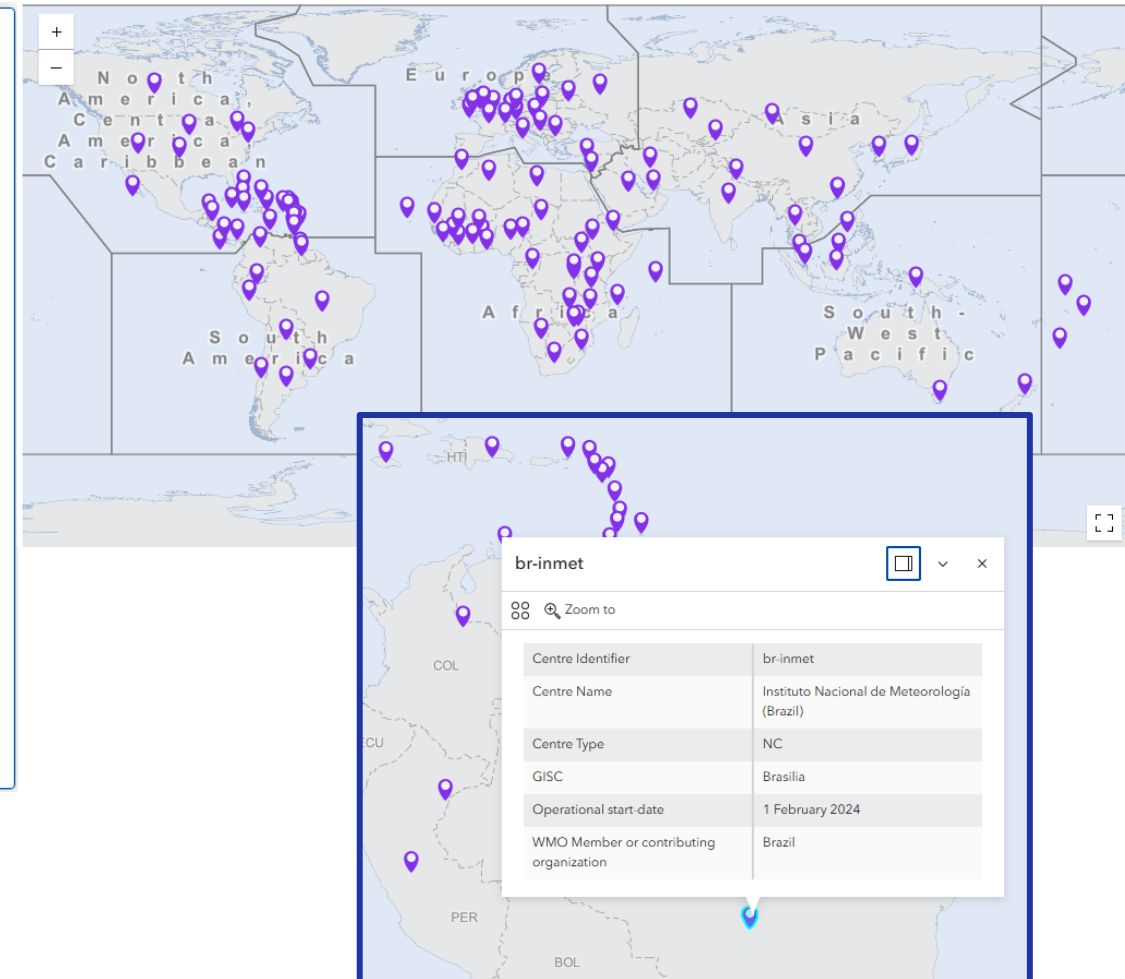
<https://community.wmo.int/site/knowledge-hub/programmes-and-initiatives/wmo-information-system-wis/operational-wis2-nodes>

This page provides an **interactive table and map** for all operational WIS2 Nodes in the WIS2 Global Registry

“Operational” indicates that Global Brokers are subscribed at origin/a/wis2/<centre-id>/# for the local broker-endpoint

Operational WIS2 Nodes					
WIS Centre	WMO Member o...	Centre Identifier	Centre Name	GISC	
NC	Algeria	dz-meteoalgerie	Office National de la Météorologie (Algeria)	Toulouse	
NC	Anguilla	ai-metservice	Caribbean Meteorological Organization (Anguilla)	Washington	
NC	Antigua and Barbuda	ag-antiguamet	Antigua and Barbuda Meteorological Services	Washington	
NC	Argentina	ar-smn	Servicio Meteorológico Nacional (Argentina)	Brasilia	
NC	Australia	au-imos	Australia's Integrated Marine Observing System (IMOS)	Melbourne	
NC	Austria	at-geosphere	GeoSphere Austria	Offenbach	
NC	Bahamas	bs-metservice	Department of Meteorology (Bahamas)	Washington	

Total: 125 | Selection: 0



Follow-up questions ?

More WIS2-related info at WMO Knowledge Hub:

<https://community.wmo.int/site/knowledge-hub/programmes-initiatives/wmo-information-system-wis>

WMO newsletters:

[WIS2 Operational Newsletter](#) -> For any WIS2 updates

[WIS2-in-a-box Newsletter](#) -> For new wis2box-releases

Unsure how to proceed with WIS2 Node Registration?

Contact WMO Secretariat at wis2-Support@wmo.int

Thank you.



WORLD
METEOROLOGICAL
ORGANIZATION

wmo.int