

WIS2 Node registration



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

Two types of entities (WIS 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

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/en/operational-wis2-nodes>



WIS2 Registration Process

WIS2 Registration steps:

- **Request to host a WIS2 Node** via WIS National Focal Point (NFP) or PR
- **Assign a centre-id:** The centre identifier (centre-id) is an acronym as proposed by the Member and endorsed by the WMO Secretariat (see next slide)
- **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.

Determining a Centre ID of your WIS2 Node

Guidance on assigning a valid centre-id

- centre-id = **TLD** '-' (abbreviated) **centre name**
- **TLD** (top-level domain) defined by data.iana.org/TLD.
- **Centre name** may contain '-' but no special characters
- centre-id is lowercase

On the next slides we propose some examples, some of which are based on official MET website where available

For example:

<https://www.moezala.gov.mm/> → mm-moezala

Example

- Algeria: **dz-meteoalgerie**
- Kazakhstan: **kz-kazhydromet**
- Uruguay: **uy-inumet**
- Saudi Arabia: **sa-ncm**
- St. Kitts and Nevis: **kn-metservice**
- Singapore:
 - **sg-mss**
 - **sg-mss-asmc** (DCPC)
- Poland: **pl-imgw**
- ECMWF: **int-ecmwf**

NCs and DCPCs for countries in this training

Country	GISC	WIS Centre	Centre name	New centre-name (to be confirmed)	proposed centre-id	NFP
Albania	TBD	NC	The Hydro-meteorological Institute	Department of Meteorology (DM) of Institute of Geosciences (IGEO)	al-dm	Pending Nomination
Austria	Offenbach	NC	Central Institute for Meteorology and Geodynamics	-	at-zamg or at-geosphere	Ms Anita PAUL
Azerbaijan	Moscow	NC	National Hydro-meteorological Department	Azerbaijan Hydrometeorological Service	az-meteo	Mr Akbar ASGAROV
Croatia	Offenbach	NC	Meteorological and Hydrological Service	Croatian Meteorological and Hydrological Service	hr-dhmz	Ms Željka Klemar
Croatia	Offenbach	DCPC	Marine Meteorology Centre	-	hr-mmcc	Ms Željka Klemar
Georgia	Moscow	NC	Department of Hydrometeorology	Hydrometeorology of Georgia	ge-hydromet	Ms Tamara GOBEJISHVILI
Mauritius	Casablanca	NC	Mauritius Meteorological Services	-	mu-metservice	Pending Nomination
Montenegro	Offenbach	NC	Hydrometeorological Institute of Montenegro	Hydrometeorological and Seismological Service of Montenegro (IHMS)	me-ihms or me-meteo	Pending Nomination
North Macedonia	Offenbach	NC	Republic Hydrometeorological Institute	Hydrometeorological Service (HMS)	mk-hms	Mr Aleksandar KARANFILOVSKI
Republic of Moldova	Moscow	NC	Serviciul Hidrometeorologic de Stat Moldova	-	md-meteo	Pending Nomination
Romania	Offenbach	NC	National Meteorological Administration	-	ro-meteoromania	Mr Andrei NAGY
Slovenia	Offenbach	NC	Meteorological Office	National Meteorological Service of Slovenia	si-meteo	Pending Nomination
Ukraine	Toulouse (tbc)	NC	Ukrainian Hydrometeorological Centre	-	ua-meteo	Mr Dmytro SKARCHENKO
Türkiye	Offenbach	NC	Turkish State Meteorological Service	-	tr-tsms	Mr Nafiz KOKURCAN
Türkiye	Offenbach	DCPC	Eastern Mediterranean Climate Centre (EMCC–RA VI)	-	tr-mgm-emcc	Mr Nafiz KOKURCAN
Serbia	Offenbach	NC	Republic Hydrometeorological Service of Serbia	-	rs-hidmet or rs-rhmz	Mr Perisa SUNDERIC
Serbia	Offenbach	DCPC	RCC–Belgrade	-	rs-rcc-belgrade (pending proposal)	Mr Perisa SUNDERIC

Verifying your WIS Centre Name

Check Centre Name listed in Manual on WIS, Vol I

- please contact WMO Secretariat for updates.

Note:

A WIS2 node is associated with a WIS Centre:

- WIS Centres are currently listed in the [Manual on WIS, Vol I](#) , *Appendix B: Approved WIS Centres*
- New list to be published in [Manual on WIS, Vol II](#) , *Appendix C: Approved WIS 2.0 Centres* (for approval at INFCOM-4 in 2026)

WIS2 Node Registration is a great opportunity to review your current Centre Name. If it is **not up-to-date**, please contact WMO Secretariat for the update to be reflected in the Appendix C to WIS2 Manual.

Note that 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

Notation	Name	Description	Status
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
bb-barbadosmetservices	bb-barbadosmetservices	Meteorological Services (Barbados)	stable

* To be approved at INFCOM-4 in 2026

WIS 2 Node registration form



[Link to the WIS2 Registration Form](#)

Required inputs for WIS2 Node registration:

- **Submitter contact**

- Should be [NFP on WIS matters](#)
- WMO Secretariat will contact the submitter after receiving form submission to validate identity
- If you need assistance to nominate or update your NFP on WIS matters, contact wis2-support@wmo.int

- **WIS2 Node details**

- **Membrane-name**
- **Centre-id**
- **WIS2 Node broker connection string***

*for wis2box, the broker connection string would be one of the following:

- **mqtt://<wis2box-host-address>:1883** - MQTT over TCP (without SSL)
- **mqtt://<wis2box-host-address>:8883** - MQTT over TCP (with SSL enabled)
- **ws://<wis2box-host-address>/mqtt:80** - MQTT over websockets (without SSL)
- **wss://<wis2box-host-address>/mqtt:443** - MQTT over websockets (with SSL enabled)

Thank you



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