

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.

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

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 (1)

Member	Affiliated GISC	WIS Centre Type	Centre-name	Proposed/actual centre-id	WIS NFP
Hong Kong, China	GISC Beijing	NC	Hong Kong Observatory	hk-hko	Dr PAN, Chi-kin
Hong Kong, China	GISC Beijing	DCPC	World Weather Information Service (WWIS)	hk-wwis / hk-hko-wwis	Dr PAN, Chi-kin
Hong Kong, China	GISC Beijing	DCPC (TBC)	<i>To Be Confirmed</i>	hk-hko-swic	
Macao, China	GISC Beijing	NC	Meteorological and Geophysical Bureau	mo-smg	Mr TANG, Iu Man Andy
Nepal	GISC Beijing	NC	Department of Hydrology and Meteorology	np-dhm	Mr Mean K. ARYAL
Pakistan	GISC Beijing	NC	Pakistan Meteorological Department	pk-pmd	Dr Zaheer Ahmad BABAR
Mongolia	GISC Beijing	NC	National Agency for Meteorology, Hydrology and Environment Monitoring*	mn-namem	Pending nomination
Vietnam	GISC Tokyo	NC	Hydrometeorological Service**	vn-nchmf	Mr Ngo, Van Manh
Thailand	GISC Tokyo	NC	Thai Meteorological Department	th-tmd	Dr Wanchalearm PETSUWAN
Myanmar	GISC Tokyo	NC	Department of Meteorology and Hydrology	mm-moezala	Ms Pa Pa SWE
Cambodia	GISC Tokyo	NC	Department of Meteorology	kh-cambodiameteo	Pending nomination
Lao PDR	GISC Tokyo	NC	Department of Meteorology and Hydrology	la-dmh la-dmhlao	Mr Bounteum SYSOUPHANTHAVONG

Centre-id in Green: already registered WIS2 node

* To be changed to: Mongolia National Agency for Meteorology and Environmental Monitoring (NAMEM), Mongolia ?

** To be changed to: National Center for Hydro-Meteorological Forecasting (NCHMF), Vietnam ?

NCs and DCPCs for countries in this training (2)

Member	Affiliated GISC	WIS Centre Type	Centre-name	Proposed/actual centre-id	WIS NFP
Sri Lanka	GISC New Delhi	NC	Department of Meteorology	lk-meteo	Mr Kelum PRIYADHARSENA
Maldives	GISC New Delhi	NC	Department of Meteorology*	mv-mms	Mr Ali SHAREEF
India	GISC New Delhi	NC	India Meteorological Department	in-imd	Dr Sankar NATH
Bangladesh	GISC New Delhi	NC	Bangladesh Meteorological Department	bd-bmd	Mr Abdul MATIN
South Korea	GISC Seoul	NC	Korea Meteorological Administration	kr-kma	Mr EOM, Hyunmin
South Korea	GISC Seoul	DCPC	Global Producing Centre/ Lead Centre for LRF Multi-Model Ensemble (GPC/LRFMME)–Seoul	kr-kma-gpc	Mr EOM, Hyunmin
South Korea	GISC Seoul	DCPC	NMSC (National Meteorological Satellite Centre)	kr-kma-nmsc	Mr EOM, Hyunmin
South Korea	GISC Seoul	DCPC	WAMIS (World Agrometeorological Information Service)	kr-kma-wamis	Mr EOM, Hyunmin

Centre-id in Green: operational WIS2 node

* To be changed to Maldives Meteorological Services ?

** To be changed to National Center for Hydrology and Meteorology, Bhutan ?

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 is

mqtt://<wis2box-host-address>:1883

or

mqttps://<wis2box-host-address>:8883 (with SSL enabled)

Thank you



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