



Australian Government
Bureau of Meteorology

WIS Monitoring

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Why WIS Monitoring

Purpose

WIS monitoring is aimed at monitor availability of WIS centre functions and services in order to ensure stable operation of each WIS centre and the WIS as a whole

WIS Monitoring & Programme Monitoring

WIS monitoring is designed for monitoring availability of WIS centre functions and services and is not aimed at replacing monitoring of WMO programmes' activities. Each WMO programme is responsible for its own activity monitoring.

What has been done so far?

- WIS Monitoring Workshop (Jan 2014, Geneva)
- WIS Monitoring project (April 2015)
 - JSON message specification (v1.0) for information exchange.
 - WMO Common Dashboard (WCDB) for WIS Monitoring
- Cg-17 Demo (May 2015)
- Upgrade of JSON message specification (v1.1) and WCDB
- CBS-16 Demo (Nov 2016)
- Next ...

Real-time Operations Monitoring

To ensure the smooth functioning of the WIS; each GISC continuously monitors in real-time items covering the GISC's area of responsibility, including:

- Service availability: data distribution system, WIS catalogue and
- catalogue synchronization
- WIS Core Network usage
- Number of WIS catalogue records
- Number of data and/or products stored in 24 hour cache
- Number of data and products received from each Centre

Quarterly Reporting

To analyse mid-to-longer-time performance; each GISC provides a consolidated quarterly report covering the centres and networks in its own area of responsibility.

- Service Performance;
- Operational Infrastructure Performance;
- Operational Anomalies and Incidents;
- Evolutions/Upgrades Carried Out During the Reporting Period;
- Planned Evolutions/Upgrades;
- User Service Statistics

Incident Reporting

- To let users know any operational anomalies or incidents;
- Each WIS centre reports events that have significant detrimental impact on either the provision of the WIS services (e.g. failure to fulfil the service requirements) or the availability of the operational infrastructure.

DCPC/NC Monitoring/Reporting Purpose

- Each DCPC or NC operator shall provide operations monitoring information to the principal GISC, for the purposes of
 - 1) Real-time monitoring of the WIS performance of the WIS in the GISC's area of responsibility;
 - 2) Generation of statistics, and associated information, for inclusion in the quarterly report produced by the GISC.

DCPC/NC Monitoring/Reporting Requirement

- Provision of Operations Monitoring Information to GISCs IN Real-Time
 - Centre Availability
 - Network Application Availability
 - Specific Message Transmission Monitoring
 - Event-driven information
- Provision of Information to GISCs for Quarterly Rreporting

1. Availability of metadata for all products	5. Location (countries) of Users	9. Type of User Queries
2. Number of User Registrations	6. Type of data accessed	10. Mean Time to Closure of User Queries
3. Type of User	7. Amount of NRT and off-line data requests	11. User Satisfaction
4. Number of "Dormant" Users	8. Number of User Queries	



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Reference

- [1] WIS Monitoring (<http://wis.wmo.int/page=WIS-Monitoring>)
- [2] Interim Guide ((<http://wis.wmo.int/page=wis-monitor>)
- [3] Report of the first Monitoring workshop (<http://wis.wmo.int/file=695>)



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Thank you

Any Questions?

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