



**Expert Team on WIS Centres (ET-WISC)
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Agenda Item 3.1**

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Status report of WIS centres (Italy)

Purpose of the document and summary

The following document summarizes the status of WIS activities at National Air Force Meteorological and Climatological Centre (CNMCA, Rome, Italy), now playing the role of DCPC-RTH for WMO RA VI, as extension of the RTH role for GTS, with specific geographical responsibility. The implementation of the core system of the WIS infrastructure, started in 2012, has been completed, and the DCPC-RTH successfully passed the audit in May 2013, being consequently included in the list of the full operational DCPCs.

DCPC ICT design

The WIS infrastructure operational at DCPC Rome is based on the following components:

- SW environment:
 - Discover Weather (v1.3.1, IBL-DWD) for portal, user role management, metadata catalogue, data distribution, etc.
 - Moving Weather (v1.6.5, IBL) (Data Store and Delivery module only) for integration with CNMCA message switching system
- HW system:
 - HA cluster (2 HP ProLiant DL380e G8 servers)
- SW evolution and support:
 - maintenance contract signed with IBL (3years, 365/7/24)

The WIS hardware and network architecture is represented in figure 1.

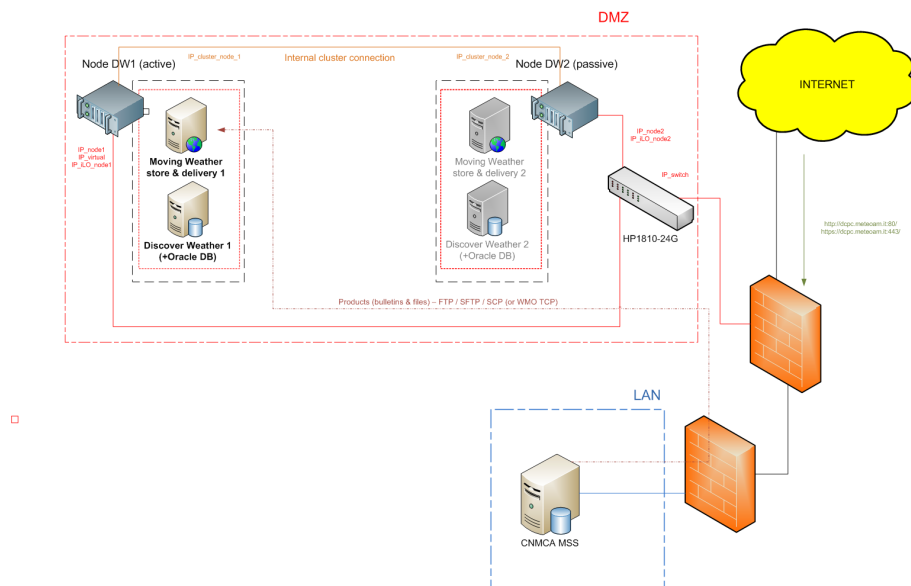


figure 1

DCPC area of responsibility

The topology of DCPC connections, both with GISCs and Ncs is schematically depicted in figure 2 (note: other existing GTS/RMDCN connections are not reported in the figure).

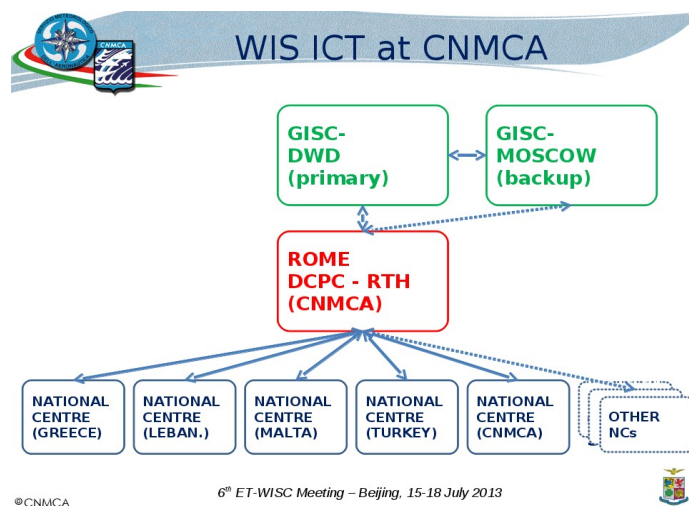


figure 2

Current status of WIS

Audit result

in the beginning of May 2013, Rome DCPC-RTH has been successfully audited by WMO WISC-TT-CAC team.

Based on WISC-TT-CAC audit final report, WMO Secretariat asked CBS to approve the inclusion of Rome DCPC-RTH in the list of the operational DCPCs of the Manual on WIS.

Current activities

- WIS DCPC catalogue and portal minor updates;
- addition of new classes of data (not GTS);
- improvement of integration with message switching system;
- staff and users training
- realization of the second DCPC (#98 as from WISC candidate list)

Second Rome DCPC as Regional Specialized Centre

The concept document for the “Establishment of a regional centre specialized for marine meteorology and oceanography over Mediterranean Sea (REC-MMO-Med) playing the role of WIS-DCPC” (figure 3) is being finalized by the Italian Met. Service in order to be submitted to the WMO Secretariat (presumably by the end of 2013).

From the operational point of view, the implementation of the new system is planned during 2014, to allow the audit procedure to take place in the beginning of 2015.

In the kick-off meeting (Rome, 10 July 2013) some specific constraints for the data providers of the DCPC-REC-MMO-Med have been remarked by the Italian WIS Focal Point, namely:

- ICT system design (to ensure both distributed and centralized functionalities);
- full compliance with ISO standards for MD management: (ISO 19115 and WMO Core Metadata Profile, ISO 19139 Geographic information Metadata XML schema, ISO 23950 for catalogue interoperability, etc.);
- synchronization based on OAI-PMH for MD, REST API for data access and retrieval, etc.;
- data volumes and telecommunications issues.

References

1. DCPC Rome URL - <http://dcpc.meteoam.it>
