

## Global Telecommunication System (GTS) and WMO Information System (WIS)

*software offered to WMO Members for exchange*

Notified to WMO / Updated	WMO Member	Brief description of software available for exchange <a href="#">Website/Contact</a>
02/06/2009	Italy	<p>SWS v1.0: The package enables to operate both automatically and manually a 'standard weather station' (SWS) assembled making use of COTS HW for PC/server, sensors, UPS, GPS clock and TDC as necessary. The package is based on the following 3 main modules controlled by a Supervisor program: INGEST -to gather, process and archive atmospheric variables coming from digital sensors; GUI -to manage and control the whole station and to produce TAC and BUFR messages; and SENDER -to transmit data and messages to remote central and local units. The configuration of the station is set up and modified by means of text tables.</p> <p><a href="ftp://ftp.meteoam.it">ftp://ftp.meteoam.it</a> Contact: <a href="mailto:sws-us@meteoam.it">sws-us@meteoam.it</a> - to obtain the username and password</p>
08/10/2008	Canada	<p>MetPX is a message switching system for use with WMO (<a href="http://www.wmo.int">http://www.wmo.int</a>) Global Telecommunication System circuits based on TCP/IP. The system is already production quality for a limited set of features and is in use at the Canadian Meteorological Centre (CMC) as the core of our national bulletin switching infrastructure.</p> <p>MetPX supports FTP/SFTP/Several Socket protocols for data exchange. It is intended as an 'apache' for traditional WMO data switching. The program combines files and bulletins into a single switching realm. It has a filter/script mechanism, which supports arbitrary processing/conversions. MetPX is interfaced with LDM (also in CBS software registry) for TIGGE and Unidata upload, as well as METDATA (made available by DWD to WMO Members) for IWM monitoring.</p> <p>Coded in Python, developed on and for Linux (similar operating systems should work without issue). Infinitely adaptable by experts only. Limited free support. Open to collaborative development.</p> <p><a href="http://metpx.sourceforge.net/">http://metpx.sourceforge.net/</a> Contact: <a href="mailto:Peter.Silva@ec.gc.ca">Peter.Silva@ec.gc.ca</a></p>
20/08/2008	United Kingdom	<p>A set of kernel routines for encoding and decoding BUFR messages; front-end routines are required to present messages or to decode other code formats. Complete BUFR Tables included. Please note that this is not software to convert between TAC and BUFR.</p> <p><a href="http://www.metoffice.gov.uk">http://www.metoffice.gov.uk</a></p>

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17/04/2008	Czech Republic	<p>DOBSON. O3Dobson is the software for reduction of total ozone observations with the Dobson spectrophotometer. The program is designed to keep correct calibration level of the Dobson spectrophotometer. In case of the changes of ETC constants or wavelengths settings (for example due to the change of measuring place with the different altitude), the software can reset proper values based on standard and mercury lamp tests results. - As part of O3Dobson package there is a software for calculation of coefficients of zenith polynomials "O3Dpoly" and software for recalculation of data files "O3Drec".</p> <p><a href="http://www.o3soft.eu">http://www.o3soft.eu</a></p>
04/01/2008	Hong Kong, China	<p>The software reads and decodes TAF code and generates equivalent plain language in HTML format.</p> <p><a href="http://www.hko.gov.hk/wmo/cbs.htm">http://www.hko.gov.hk/wmo/cbs.htm</a></p>
04/01/2008	Hong Kong, China	<p>The software provides a web browser interface to assist the encoding of SYNOP observations.</p> <p><a href="http://www.hko.gov.hk/wmo/cbs.htm">http://www.hko.gov.hk/wmo/cbs.htm</a></p>
04/01/2008	Hong Kong, China	<p>The software provides a web browser interface to assist the encoding of ground weather radar observations.</p> <p><a href="http://www.hko.gov.hk/wmo/cbs.htm">http://www.hko.gov.hk/wmo/cbs.htm</a></p>
04/01/2008	Hong Kong, China	<p>The software reads and decodes METAR code and generates equivalent plain language in HTML format.</p> <p><a href="http://www.hko.gov.hk/wmo/cbs.htm">http://www.hko.gov.hk/wmo/cbs.htm</a></p>
04/01/2008	Hong Kong, China	<p>The software automatically updates and displays pre-categorized messages such as GTS and AFTN messages.</p> <p><a href="http://www.hko.gov.hk/wmo/cbs.htm">http://www.hko.gov.hk/wmo/cbs.htm</a></p>

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17/11/2006	United States	<p>NetCDF (network Common Data Format) is an interface for scientific data access and a library that provides an implementation of the interface. The netCDF library also defines a machine-independent format for representing scientific data. Together, the interface, library, and format support the creation, access, and sharing of scientific data. NetCDF-4 is a major enhancement that provides many features. NetCDF-Java provides read access to other formats, including GRIB and BUFR, through a Common Data Model Interface.</p> <p><a href="http://www.unidata.ucar.edu/software/netcdf.html">http://www.unidata.ucar.edu/software/netcdf.html</a></p>
17/11/2006	United States	<p>The Unidata Local Data Manager (LDM) is a collection of cooperating programs that select, capture, manage, and distribute arbitrary data products. The system is designed for event-driven data distribution and is currently used in the Unidata Internet Data Distribution (IDD) project. The LDM system includes network client and server programs and their shared protocols. An important characteristic of the LDM is its support for flexible, site-specific configuration.</p> <p><a href="http://www.unidata.ucar.edu/software/ldm">http://www.unidata.ucar.edu/software/ldm</a></p>
06/09/2006	Portugal	<p>TIDB2 and RTIDB EXPLORER. The TIDB2 database interface provides persistence to complex science objects, including GRIB and BUFR objects, using relational database systems like MySQL, PostgreSQL and Oracle. Database tables are organized in a folder structure with automated time management and accessed through a generalized C++ table object.</p> <p><a href="#">Source available under gnu license.</a> <a href="mailto:joao.simo@meteo.pt">Contact: joao.simo@meteo.pt</a></p>