

MESSIR-COMM[®]

GTS Message Switching

Data Collection / Data Distribution

WIS Component



COROBOR
systems — The Heart of Your MET

23 years of field experience in more than 130 countries

YOUR NEEDS

Your Meteorological Centre needs to:

- Collect Data, from all over your country (ex : observations)
- Ingest Data from various sources (remote sensing, legacy systems)
- Collect Data from Web sites
- Distribute data and products to internal and external users in your country (Aviation, Army, Regional Centres, Professionals)
- Perform GTS Meteorological Message Switching, in coordination with other countries
- Migrate to the new WIS environment specified by WMO

WHAT IS MESSIR-COMM?

MESSIR-COMM is a system (hardware + software) initially developed as a GTS Meteorological Message Switching System. MESSIR-COMM can also fulfil the specific requirements of your Meteorological Centre in regard of Data collection, ingestion, and distribution. MESSIR-COMM can interface to legacy meteorological systems, provided that such systems conform to WMO standards and can export in well-documented formats.

MESSIR-COMM can also be used as a "brick" of the complete MESSIR-WIS solution allowing your Meteorological Centre to migrate to WIS in full compliance with WMO specifications.

MESSIR-COMM can be coupled/combined with the MESSIR-XBASE Real-Time Central Database.

GREAT EASE OF USE

MESSIR-COMM graphical user interface is really user-friendly:

- Clear supervision displays
- Powerful circuits and messages monitoring and statistics
- All data for the last 90 days immediately on screen
- Easy menu-driven set-up and administration
- On-line help



Circuit	Queues				Reception		Transmission					
	1	2	3	4	Status	Last date	CSN	Traffic	Status	Last date	CSN	Host
Offenbach					Green	30 09:26:37	173		Green	30 09:26:21	792	
Offenbach GRIB					Green	30 09:25:31	619		Green	30 09:24:47	782	
Heisingfors					Green	30 09:23:31	075		Green	30 09:26:37	093	
Oppenheim					Green	30 09:26:35	215		Green	30 09:26:30	922	
Oslo					Green	30 09:26:31	547		Green	30 09:26:30	262	
Riga					Green	30 09:20:10	541		Green	30 09:26:36	821	
Riga GRIB					Green	30 09:25:31	616		Green	30 09:26:30	456	
Riga ftp					Green	09:21:43	764		Green	30 09:25:31	344	
Riga GRIB ftp					Green	09:23:43	755		Green	30 09:26:37	217	
Vilnius					Green	09:26:29	317		Green	30 09:26:11	306	
Moskva					Green	07:56:19	717		Green	30 04:45:26	228	
Moskva GRIB T4					Green	09:23:07	220		Green	30 09:26:37	127	
Prodc Rx					Green	09:18:30	-		Green	30 09:26:37	-	
Prodc Tx					Green	09:24:47	-		Green	30 09:26:36	-	
FTP SIR					Green	08:53:17	-		Green	30 09:26:37	-	
Radar imaga					Green	09:26:12	-		Green	30 09:26:37	-	
Stochholmradio					Green	09:26:12	-		Green	30 09:26:36	-	
TOR Lv					Green	08:53:17	-		Green	30 09:26:37	-	
METEOCC (Baleta)					Green	09:26:12	-		Green	30 09:26:37	-	
METEOCC (Enikopin)					Green	09:26:12	-		Green	30 09:26:36	-	
Wideroe					Green	09:26:12	-		Green	30 09:26:36	-	
WSI					Green	09:26:12	-		Green	30 09:26:36	-	
AFTN address (AD)					Green	11:32:33	430	Div pri 4	Off	25 11:40:08	017	
AFTN WMO (ADSL)					Green	25 11:23:47	033	Div pri 4	Off	25 11:38:24	489	
Backup AFTN Adr					Green	30 09:26:36	673		Off	30 09:25:43	332	

CONNECTION TO ALL TYPES OF SUBSCRIBERS

- WIS, TCP-IP socket, FTP, SFTP, Ethernet, LAN/WAN, Frame Relay, VPN, RMDCN
- E-mail, X.400, file switching, automatic Internet retrieval, FTP server function, Web Portal
- AFTN-AMHS, PSTN, ISDN, leased lines, fax machines, legacy lines as low-speed telegraphic, public telex,
- Radar and satellite images systems (METEOSAT, MTSAT – Himawari, GOES, ...)
- SADIS, WIFS, EUMETCast, DWDSAT, GEONETCast...
- AWS, AWOS, observation and detection systems

REAL-TIME CENTRAL DATABASE

- Collection and Quality Control of national observation data
- Stores national and international Data and Products used daily for forecasting
- Automatic routine daily production of charts, tables and documents tailored to end-user needs
- Automatic dispatch to end-users
- Also available as **MESSIR-XBASE** separate system dedicated to Meteorological Database functions

Rx time	Rx CSN	Length	Heading	Text beginning
16 09:47:25	107		ISXN50 LFST 160942 RRF	BUFR
16 09:47:20	102		SAR042 LROM 160930 CCA	METAR COR LRTC 160930Z 34006K...
16 09:47:20	122		SPBX56 EDRM 160948	MOBOB9 /023 31U FR681677 16094
16 09:47:20	82		SPCN43 CWAO 160945	SPECI CYRJ 160945Z AUTO 20005K...
16 09:47:20	181		FTM31 DNDP 160930	TAF DNDP 160930Z 16121718 2700...
16 09:47:19	78		SAGG31 UGTB 160930	METAR UGSB 160930Z 11014G16K...
16 09:47:08	269		SAAL31 DAAA 160930	METAR DAAG 160930Z 25002KT C...
16 09:47:08	105		SPCN43 CWAO 160944	SPECI CYQR 160944Z 13009KT 15M...
16 09:47:08	513		FTTJ31 NFTN 160900	TAF NCRG 160942Z 161212 VR503...
16 09:47:07	94		FCOL51 ETGT 160900 AAA	TAF AMD ENTJ 160943Z 16101618...
16 09:47:07	205		ISXN50 LFML 160942 RRR	BUFR
16 09:46:37	475		FTSAB5 EGRR 160939 RRB	TAF SOCA 161000Z 16121712 0701...
16 09:46:33	99		ISXN60 LFQZ 160939	BUFR
16 09:46:25	90		FOG331 UGTB 160900	TAF UGSB 160900Z 16091618 1001...

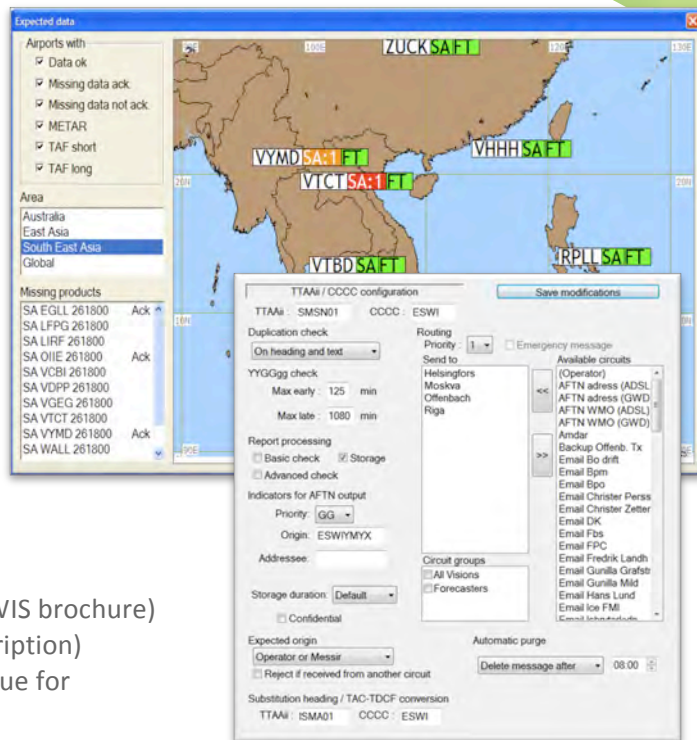
COMPLIANCE WITH WMO / ICAO STANDARDS, WIS, TDCF – BUFR and AvXML

MESSIR-COMM is compliant with the WMO Manual 386 on the GTS and the WMO Manual 306 (Manual on Codes), WMO Manual on Global Data Processing System 485, WMO Manual 1060 on WIS, WIS Tech Specs, as well as with latest ICAO Annex 3 Amendments



SWITCH AND STORE ALL TYPES OF DATA AND PRODUCTS

- Traditional alphanumeric codes (TAC) including SYNOP, TEMP, METAR, TAF...
- Table-driven code forms (TDCF)
- Files in WMO format - Satellite and radar images
- Binary products such as GRIB, BUFR, PNG, T4-DFAX
- Export data into various formats: text, image, XML...
- WMO monitoring



WIS COMPLIANT

MESSIR-COMM is a component of WIS centres: GISC, DCPC, NC

- Integration with MESSIR-WIS solution (refer to MESSIR-WIS brochure)
- Data dissemination: PUSH (ad-hoc request), PULL (subscription)
- Metadata management including DAR Metadata Catalogue for easy data search and retrieval
- SOA (Service Oriented Architecture) providing REST Web Services

AvXML COMPLIANT

MESSIR-COMM can handle OPMET data as XML according to ICAO and WMO regulations

- METAR/TAF/SPECI and SIGMET conversion to AvXML
- Compatibility with AHLs (Abbreviated Heading Line) used for exchanging XML OPMET messages



RELIABILITY AND PERFORMANCE

- MESSIR-COMM has an exclusive software-driven hot stand-by architecture with automatic change-over
- Proven switching power of more than 500 messages per second
- More than 2000 circuits can be connected

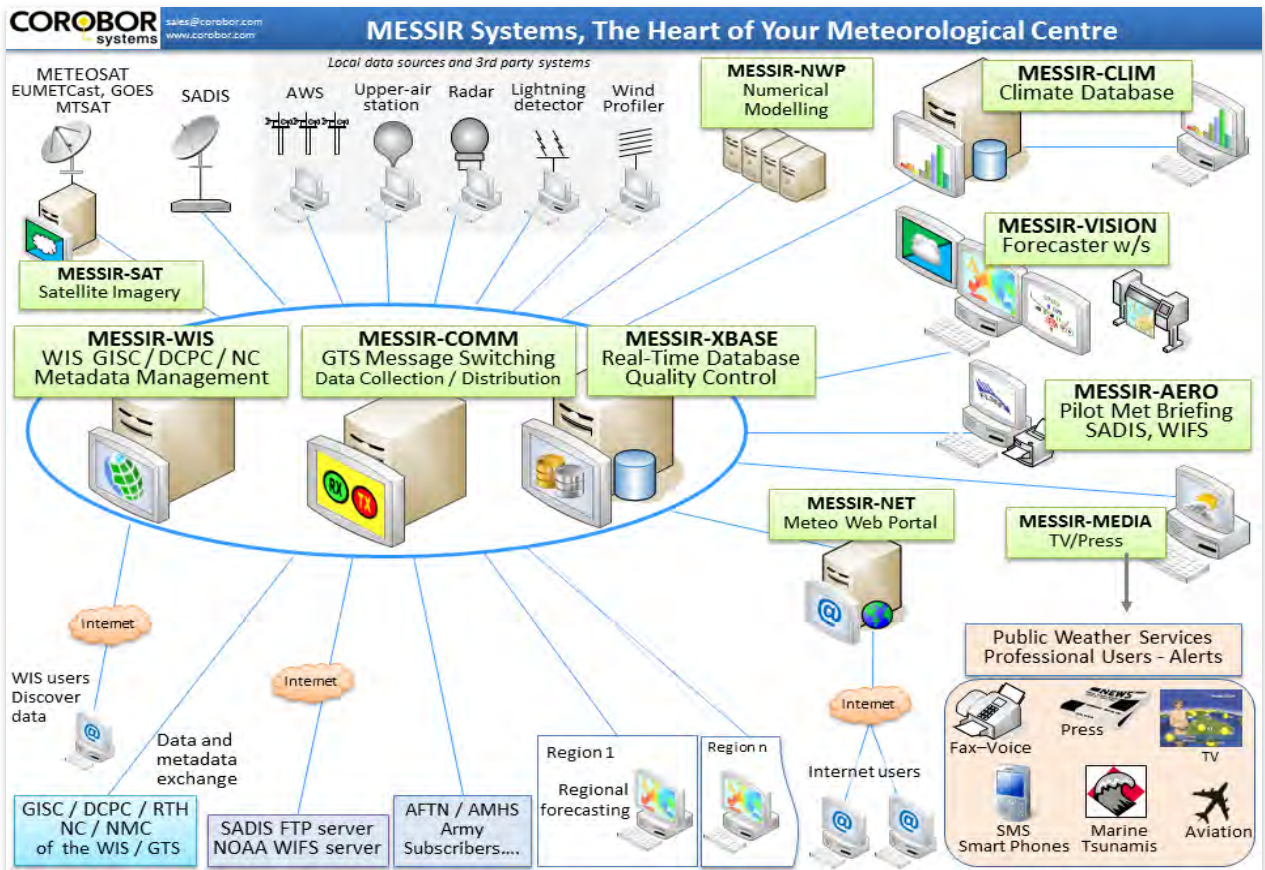
FAILOVER CLUSTER ARCHITECTURE



MESSIR-COMM STRONG POINTS

- Site experience shows that MESSIR-COMM remains operational for years, round the clock.
- Hot stand-by architecture with automatic immediate change-over and no down-time
- The ease of use of MESSIR-COMM has been acknowledged by all its numerous happy users. This is owed to the great attention paid by COROBOR to users' needs. Administrators / Operators become familiar with MESSIR-COMM after only one hour of practice.
- MESSIR-COMM is AvXML compliant and can generate and switch XML OPMET data
- MESSIR-COMM handles both TDCF (Table Driven Code Forms) and TAC (Traditional Alphanumeric Codes) codes and offers a complete set of conversion utilities
- MESSIR-COMM comes in standard with numerous connection capabilities and options. But each Met centre has its ways of working, legacy systems and special requests: the powerful COROBOR software development team is at your service for customization and specific developments.

TYPICAL IMPLEMENTATION



COROBOR, the only company with a track record of GTS and WIS systems installed in 57 NMSs, including RTHs, GISCs / DCPCs



The quality management of COROBOR Systems is ISO 9001 certified for the supply of information systems and software for meteorology and aeronautics.

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