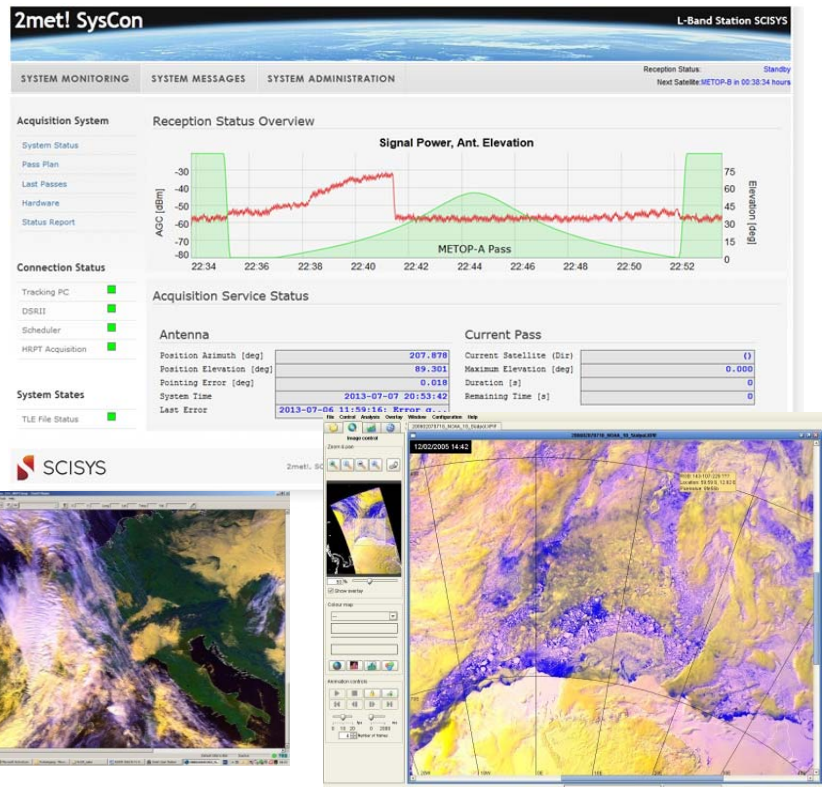


2met!® HRPT User Station NOAA/METOP/Feng-Yun - HRPT

Release 2.4



FUNCTIONS

- Support of NOAA-HRPT, SeaWiFS HRPT, Feng-Yun C-HRPT and METOP A-HRPT
- Fully automated reception and processing
- TLE based Pass Prediction with satellite conflict resolution
- Measurement of Doppler Effect for enhanced navigation accuracy
- Acquisition of all raw data and Provision of quality information for the reception
- Production of **L0 mission files** for NOAA/Feng-Yun (HMF) and METOP (EPS)
- Sophisticated Landmark and Level 1-2 processing
- Dispatch of products via LAN/WAN

ADVANTAGES

- Tracking Antennas from 1.8m - 3.0m in El/Az design
- **2met!® DSR II** receiver interface via Fast Ethernet
- **2met!®** Application Software family with highest reliability and User friendly GUIs
- **2met!® PROCESSING** supports other satellite data like MSG HRIT, LRIT etc.
- Support of XPIF, HDF5, NOAA Level 1b, GeoTIFF, HMF and other file formats
- Support of AAPP and other data processing packages
- Easy integration to existing hardware components
- Runs on Linux, Windows 7, Windows Server 2008

System

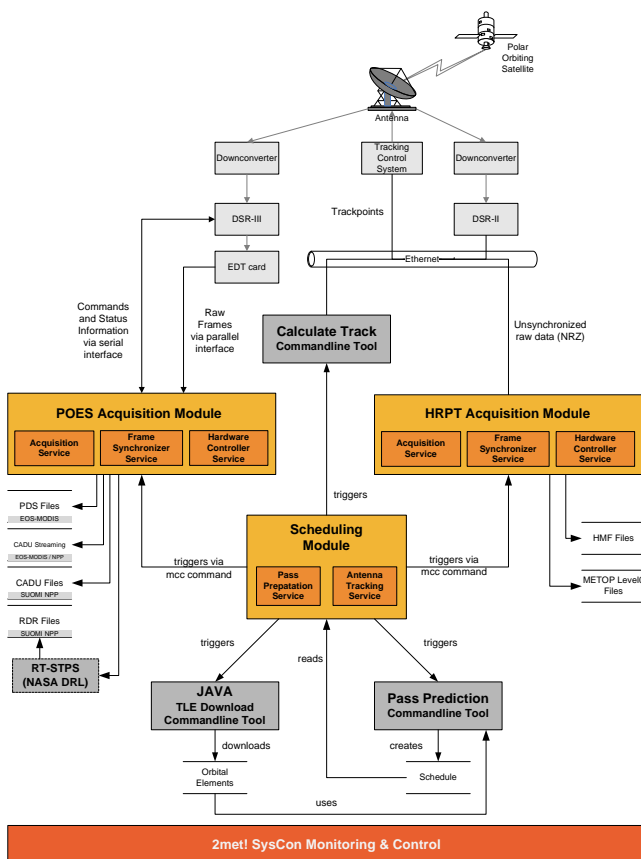
The 2met!® HRPT User Station has been designed to provide state of the art technology capable of receiving data from all spectral channels of NOAA, Feng-Yun, SeaWiFS and METOP satellites.

The Digital Satellite Receiver 2met!® DSR II supports all necessary satellite mission formats with lowest technical losses for best reception. The receiver provides the data stream on fast Ethernet (TCP/IP).

Support & Services

Since more than twenty years, the major design issue of SCISYS User Stations is always the view towards the total life cycle of a User Station. Consequently, SCISYS Service does not only include the supply and installation of turnkey systems.

SCISYS performs upgrade of existing systems and provides outstanding maintenance services covering remote diagnostics and on-site activities – on preventive and on ad-hoc basis. One of our main goals is to provide highest *availability* and *reliability* reducing the operational effort. This approach has been proven by a considerable number of pleased customers all over the world.



Combined X-/L-Band Acquisition Station Setup

Technical Characteristics

Antenna	2met!® Tracking Antenna
Type	1.8 - 3.0m
RF Frequency	1685 - 1710MHz
Down-converter	Quorum Type
Receiver	2met!® DSR II
Modulation	BPSK, QPSK
Frame type	HRPT, C-HRPT, A-HRPT
Data Rate	664Kbps - 3.5Mbps
Server	Standard Workstation or Server
Operating System:	Linux, Windows 7, Windows Server 2008

2met!® Application Software:

HRPT Acquisition with frame synchronisation, Reed-Solomon decoding and decryption (METOP), tracking, pass prediction with flexible priority control.

Dispatch via FTP or local file share copy to an unlimited number of destinations, alternative destinations for each transfer possible

Processing: including Navigation, Calibration into 8bpp, 16bpp for thermal and visible channels. Navigation enhancement by Doppler Correction and Landmark Correction. It includes also all relevant functions for MSG and HRPT data.

Output Formats: PIF, XPIF, McIDAS, NOAA Level 1b, HMF, JPEG, TIF, HDF5, BMP, GeoTIFF

Display Software: Mapping of 16bpp Images onto 24bpp graphics hardware. It allows fast display of large images. The image size is limited only by disk capacity. Histograms, Graphical Colour Map Editor, Sample Function, Fast Zoom and Pan

Ordering Information

2met!® HRPT User Station

This version provides all functions to receive data from all relevant HRPT missions.

Contacts

If you have any questions, please contact our Marketing and Sales Department at 2met@scisys.de

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