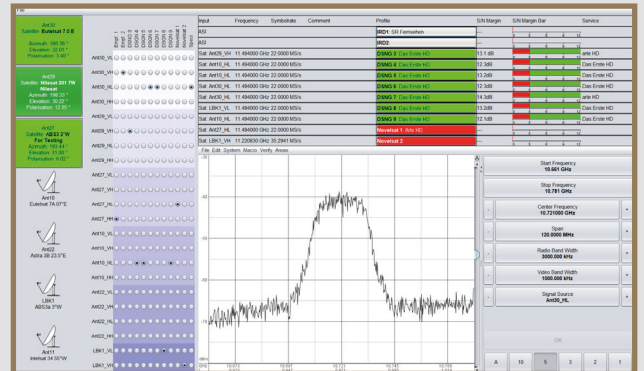


HMCS – Hiltron Monitoring and Control System

Universal Solution for Applications

HMCS is a *modular* and *scalable Monitoring & Control system*. It is *designed* to control all *relevant Satellite equipment* in a *Master Control Room*, as well as the *complete uplink* of an *SNG application*. The application is *focused* on a *user-friendly handling of different equipment* for operators and offers a *SNMP interface* to a *high-level system*.



Example for Receive Station

FEATURES

- All relevant information at one glance.
- Management of different Encoder, Modulator and HPAs.
- Interfaces to higher-level systems (SNMP, XML).
- Management of Tx and Rx chains including redundancy switching.
- Uniform management of different equipment same type (e.g. receivers with different versions).
- Selection and storage of different Satellite parameters (satellite position, beacon frequency, transponder/slots etc.) database supported.
- Database supported profiles for satellite reception (IRD settings).
- Database supported profiles for satellite transmission (Modulator, Encoder, HPA settings).
- Plausibility check and control (in case of wrong parameter settings).
- Selection of different sources via matrix.
- Management of motorized and fixed antennas.
- Logging of all processes, alarms, events.
- Logging of parameter and status data and graphical presentation.
- Customization.
- Platform-independent client / server system.

SELECTED REFERENCES

- Earth Stations: WDR Up-Link, Danish Radio, NENT Sport – Sweden, TV2 – Norway, Nilesat – Egypt
- Subsystems: SES Antenna systems, SR, Deutsche Welle
- SNGs: NDR, SWR, SR, BR, RBB

The Hiltron HMCS software is completely hardware independent. The design is based on the longstanding practical experience and exchange with different customers.

It uses a modern graphical user interface with sophisticated alarm message handling and provides for example a highly intuitive and efficient way for a professional satellite line-up procedure.

It provides a quick manageable platform for equipment with the selection of stored profiles, transponders and slots from a database. It supports the operation of market leader HD encoder/modulator/receiver hardware together with Hiltron own products (HCS, HMAM, HACU, HSACU ...). The system allows a uniform operation of different devices from different manufacturers. The flexible design and its functions can be tailored easily to the customer requirement.

HMCS - Hiltron Monitoring and Control System

Universal Solution for Applications

System Platform

Based on Java, running under all popular operating systems such as Microsoft Windows, Apple, Linux Java Runtime included

Drivers (Summary)

Antenna Control Unit:	Hiltron HACU, HSACU, sat-nms ACU, Vertex ACU7200
Modulator:	Newtec NTC22xx, AZ110, M6100, Mediakind (Ericsson) Voyager II, AteME CM5000, Teamcast Vyper
Encoder:	Mediakind (Ericsson) Voyager II, AteME CM5000, CM4202
IRD:	Mediakind (Ericsson) RX8200, RX1290, TT1260, AteME DR8400, DR5000
Demodulator:	Novelsat NS2000
HPA:	CPI, Paradise, SpacePath, I2V
Up- / Downconverter:	Work, Peak, Miteq
Accessories:	ETL Victor & Hurricane L-Band Matrix Stingray Fiber Systems Hiltron all controllers and ACU's/ DCU's Narda NRA Spectrum Analyzer Agilent & R&S Spectrum Analyzer

Alarm Handling

Alarm messaging: By color coding of equipment icons.
Logging, Alarm Listing

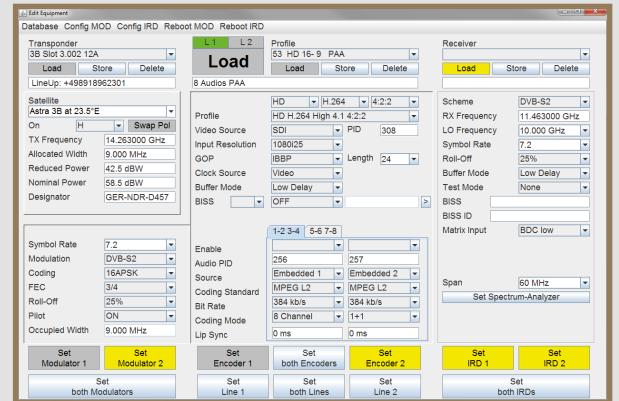
Graphical User Interface (GUI)

Equipment: Color coded icons with display of the most important parameters.

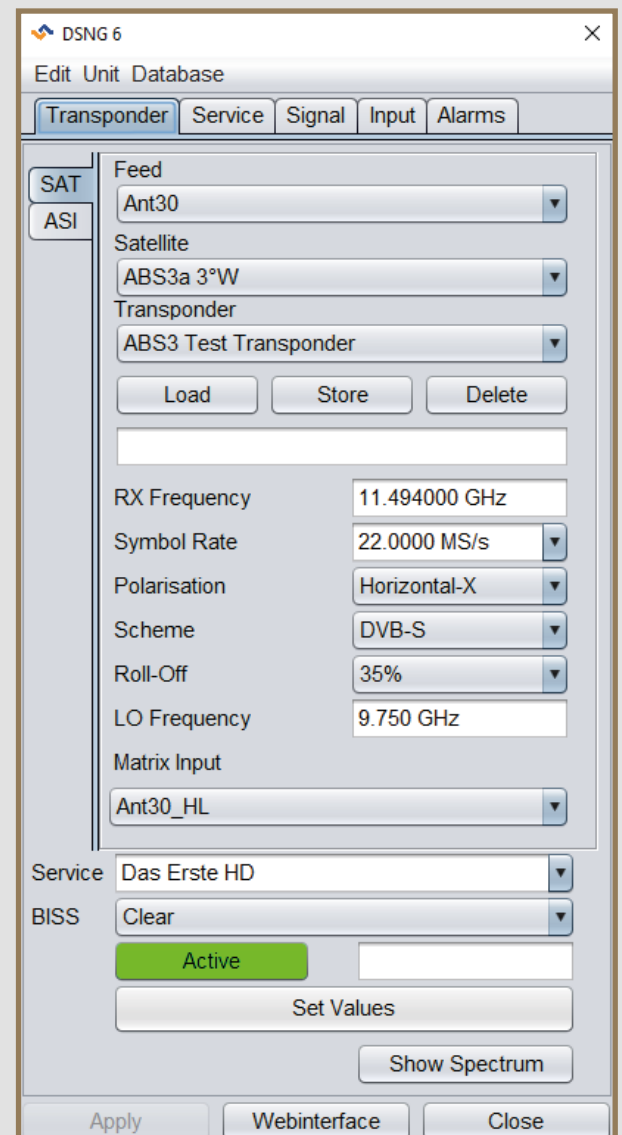
Parameter setting: Lower level sub-menus.

Line-up: Separate intuitive line-up assistant.

Additional features: Spectrum analyzer display with a number of special macros



Example for Transmit Assistant



Example for Receive Selection