

- » Demand-Assigned Multiple-Access (DAMA) and Integrated Waveform (IW) Control
- » Unified Network Management and Planning
- » Fielded Domestically and Internationally



Viasat UHF DAMA/IW Network Management Solution (NMS) allows for simultaneous communications of UHF SATCOM terminals and networks leveraging MIL-STD Time Division Multiple-Access (TDMA) protocols.

The Viasat NMS consists of:

- » Viasat Visual Integrated SATCOM Information, Operation and Networking (VISION) planning and network management software
- » Viasat Integrated Waveform Channel Controller (IWCC)
- » Viasat Network Channel Controller (VNCC)
- » Viasat Network Terminal Controller (VNTC)

The IWCC, VNCC, and VNTC enable multi-user group communications by adding MIL-STD TDMA protocols to traditional 5- and 25-kHz UHF satellite channels.

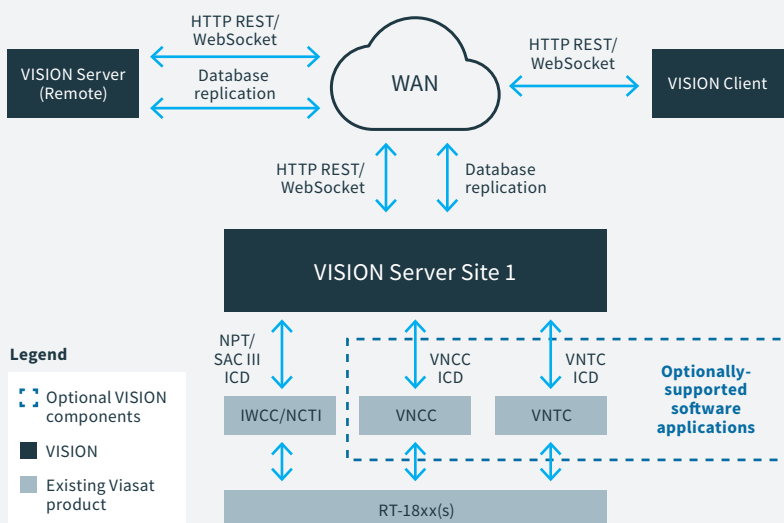
With dedicated communications, there is typically a limit of one user group per channel. However with the addition of the Viasat NMS, TDMA time slots are optimized for multiple data and voice users to operate simultaneously.

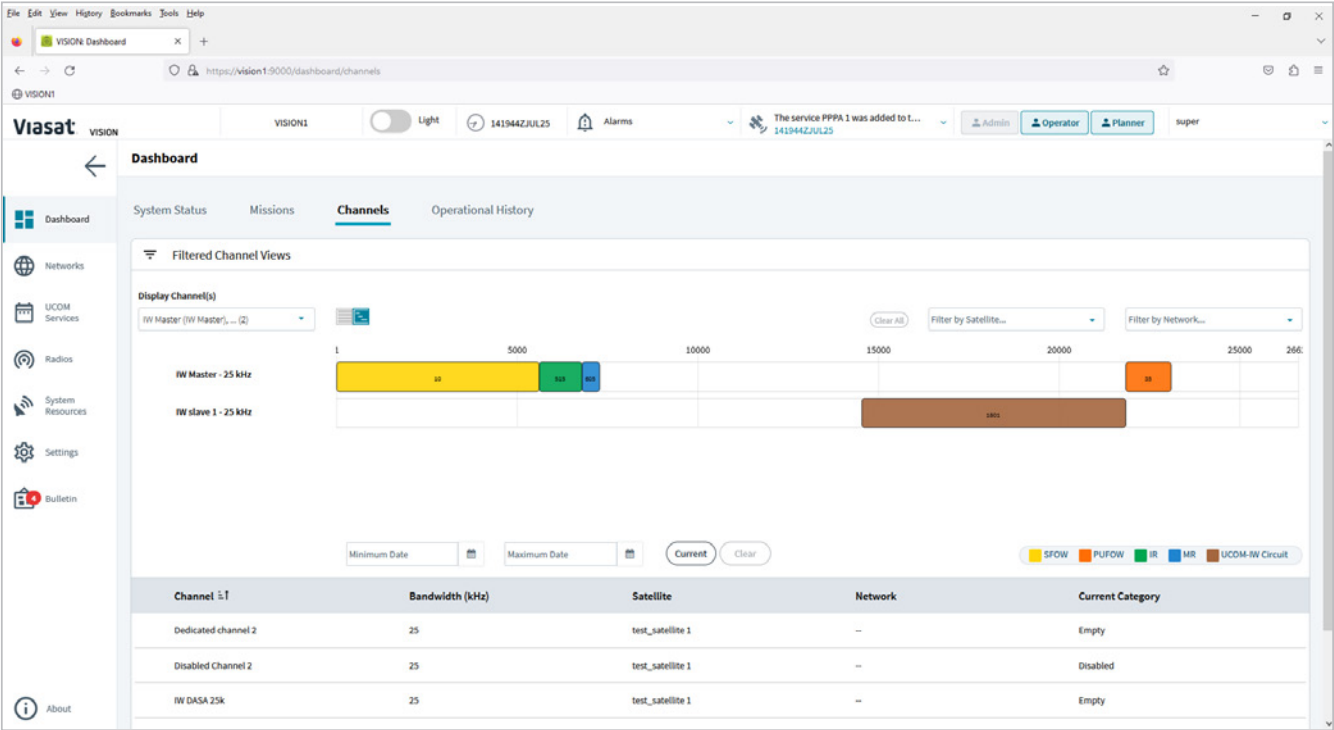
The Viasat NMS also allows the user to plan their network to maximize channel efficiency and remotely control all sites from a single terminal. This allows users to simplify logistics and reduce the manpower needed to manage the network.

NETWORK MANAGEMENT SOLUTION AT-A-GLANCE

- » DAMA/IW control
- » Customized systems based on network and user requirements
- » Increases channel efficiency by supporting more simultaneous users on a single channel
- » Supports a comprehensive planning and management of IW, 25-kHz DAMA networks
- » Database management with replication for geographic redundancy
- » User-defined channel specifications

VISION - STANDALONE SYSTEM EXAMPLE





VISION SOFTWARE OVERVIEW

VISION is an integrated user-friendly interface to simultaneously manage all 25-kHz legacy DAMA and IW networks and services, while also allowing for backwards compatibility.

Core capabilities of the platform include:

- » Planning and operating the network
- » Local or remote monitoring and control
- » Event/alarm management
- » System performance monitoring

VISION also maintains a database with replication for geographic redundancy for both IW and DAMA. The platform's flexibility and scalability with respect to the number of sites, quantity and type of equipment, and hardware configuration allows for increased interoperability.

SPECIFICATIONS

WAVEFORMS

MIL-STD-188-181B/C
MIL-STD-188-183/A
MIL-STD-188-185A

Dedicated and IW
25-kHz DAMA
IW



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