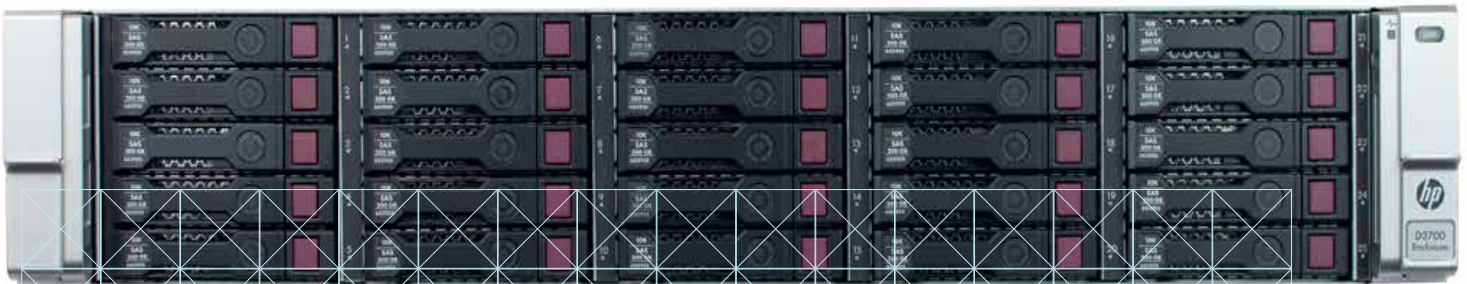


MEOS™ NAS



KONGSBERG



Network Attached Storage

MEOS™ NAS is a data storage accessible from the network. It provides scalable data storage and automatic data storage management, FTP based data input and output, and data distribution via the Space Link Extension (SLE) protocol. This product can also be used as an online rate buffer.

MEOS™ NAS is fully compatible with MEOS™ Capture and MEOS™ Polar. Data can also be provided from other systems supporting (S)FTP.

When arriving at MEOS™ NAS, the data files will be stored in catalogs corresponding to file names. Catalogs are created automatically as needed. Data files are by default under automatic storage management.

The NAS storage is maintained automatically by the MEOS™ NAS:

- Files older than a configurable age will be deleted (hard links removed) per FIFO scheme
- The oldest files will be deleted when storage capacity limit is reached

Stored data files can be retrieved by external clients using SLE (Offline RCF/RAF) per mission and time, or interactively using the embedded GUI (Graphical User Interface). Data files can also be retrieved via FTP.

Re-distribution of particular ISP files can be done by manual selection of ISP files in the MEOS™ NAS GUI.

MEOS™ NAS supports monitoring and control through a well-defined, socket based API, as well as through the embedded GUI. MEOS™ NAS will also generate reports upon data arrival and extraction.

To ensure maximum reliability, MEOS™ NAS uses disks with RAID technology for data redundancy and dual power supplies. Cooling fan status and temperatures are monitored.

This product is typically used in ground systems requiring high availability and high reliability.

MEOS™ NAS is MEOS™ Connect Ready for seamless integration under KSPT's overall monitoring and control systems.

FEATURES

- Diskbased and no consumables
- Scalable data storage
- VM or dedicated HW
- Ideal for station cache
- Input:
 - FTP/SFTP/FTPS
 - IPIN
 - SLE in
- Off-line retrieval:
 - SLE UIB
 - download from web browser
 - FTP/SFTP/FTPS
- (Near-)Real-time forwarding capabilities:
 - SLE PIB RA
 - SLE PIB RCF
 - TCP
 - MDIS
 - UDT



TECHNICAL SPECIFICATIONS

MEOS™ NAS PERFORMANCE DATA

MEOS™ NAS interfaces:

- **IP in**
The MEOS™ NAS receives the real-time data through the 'IP in' interfaces, as ISPs and / or VCDUs. The data received is stored to file in the Online storage.
- **IP Out**
The data from an 'IP in' interface is forwarded to the 'IP out' interface and distributed
- **(S)FTP(S) in**
CADU / VCDU / ISP data files are received via FTP / SFTP / FTPS and stored in the online storage
- **(S)FTP(S) out**
CADU / VCDU / ISP data files are sent via FTP / SFTP / FTPS

MEOS™ NAS Hardware*

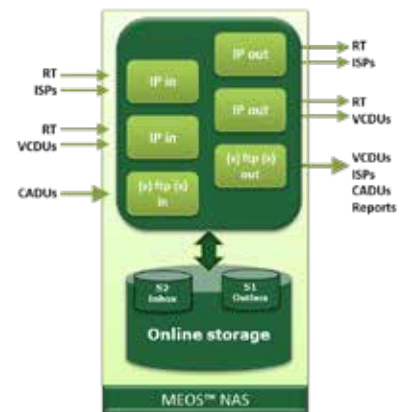
- The MEOS™ NAS consists of the following hardware:
 - HPE server
 - Disk Array Configurable 15-500 TB in one unit.
- The MEOS™ NAS is configured with RAID6.
- The storage capacity of the MEOS™ NAS can be increased if needed, by adding additional disk storage units.
- The online storage is a rolling archive, oldest files will be rolled out according to a configurable disk usage limit.

* Available also as VM

Space Link Extention (SLE)

SLE support includes:

- RAF (Return All Frames)
- RCF (Return Channel Frames)
- UIB (User Initiated Bind):
 - Data pull from an external system
- PIB (Provider Initiated Bind):
 - Data push to an external system



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