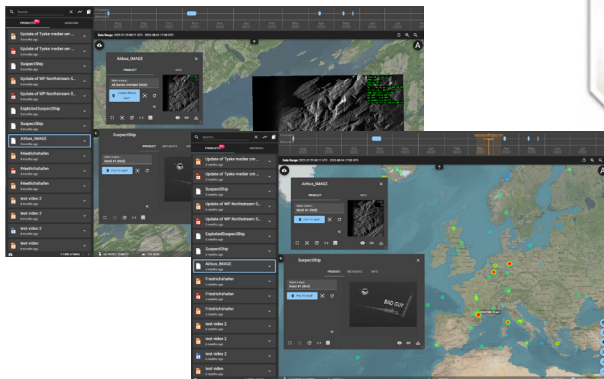


DSAR

Dissemination Storage Archival and Retrieval

DSAR is a collection of services providing capabilities for storing, managing, processing and dissemination of Intelligence, Surveillance and Reconnaissance (ISR) results in form of products and streams. DSAR services can be deployed in configurations ranging from simple computer edge node installations to high availability data-center services.

When required, controlled information flows between security domains are supported, using NATO standard labeling and binding protocols and approved border devices such as data-guards.



KEY FEATURES



- Large persistent storage
- Retention policy support
- Military and Open standards for encoding, interfaces and data formats
- Open and modular design
- Policy based security management
- RBAC and ABAC access control for service and data object access rights
- Attribute Based Flow Control for cross-system dissemination of metadata, products and live data streams.
- Data format agnostic storage and catalog system – Data Lake.
- Enable big-data driven decision support
- Mining and transcoding support built-in
- Ocular ISR Viewer web client
- Enable Machine Learning and Artificial Intelligence
- Infrastructure support for key processes such as JISR, FIRES, Targeting, Planning and Command and Control
- High-availability in data-center configurations

KEY Benefits

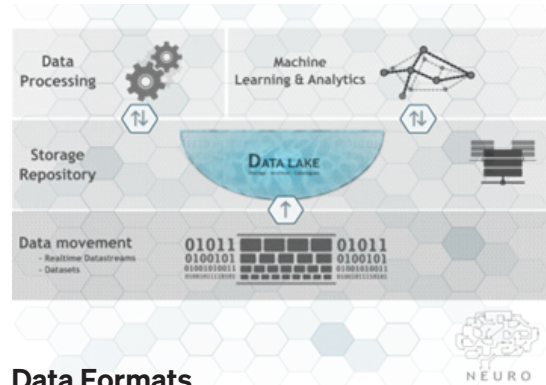
- Excellent foundation for security accreditation
- Ready for Zero-trust environments
- Data Centric Security with policy based flow and access control built-in
- Infrastructure for Machine Learning and AI based processing and decision support
- Free text as well as structured search

Open Architecture and Interoperability

- Microservices based Service-oriented architecture (SOA)
- NATO Coalition Shared Data (CSD) ISR Library and Streaming Services AEDP-17, AEDP-18 ready for Federation Mission Net (FMN) Spiral 4 and 5.
- OGC and custom REST APIs and WMS map server support.
- May utilize enterprise storage solutions

Extendable Metadata Profiles

DSAR support an extendable set of metadata catalogs. Information mitigation and transcoding between metadata representation formats are built-in. Key metadata standards supported are Dublin Core, ogc:Records, ogc:CSW, cat:ebRIM, NATO Coalition Shared Data (CSD/NSIL), and NATO Core Metadata Specification (NCMS).



Data Formats

DSAR is agnostic to data formats used, however some formats need special handling required by standard service specifications. More generally built-in mining, indexing, and transcoding features are provided for a number of formats such as:

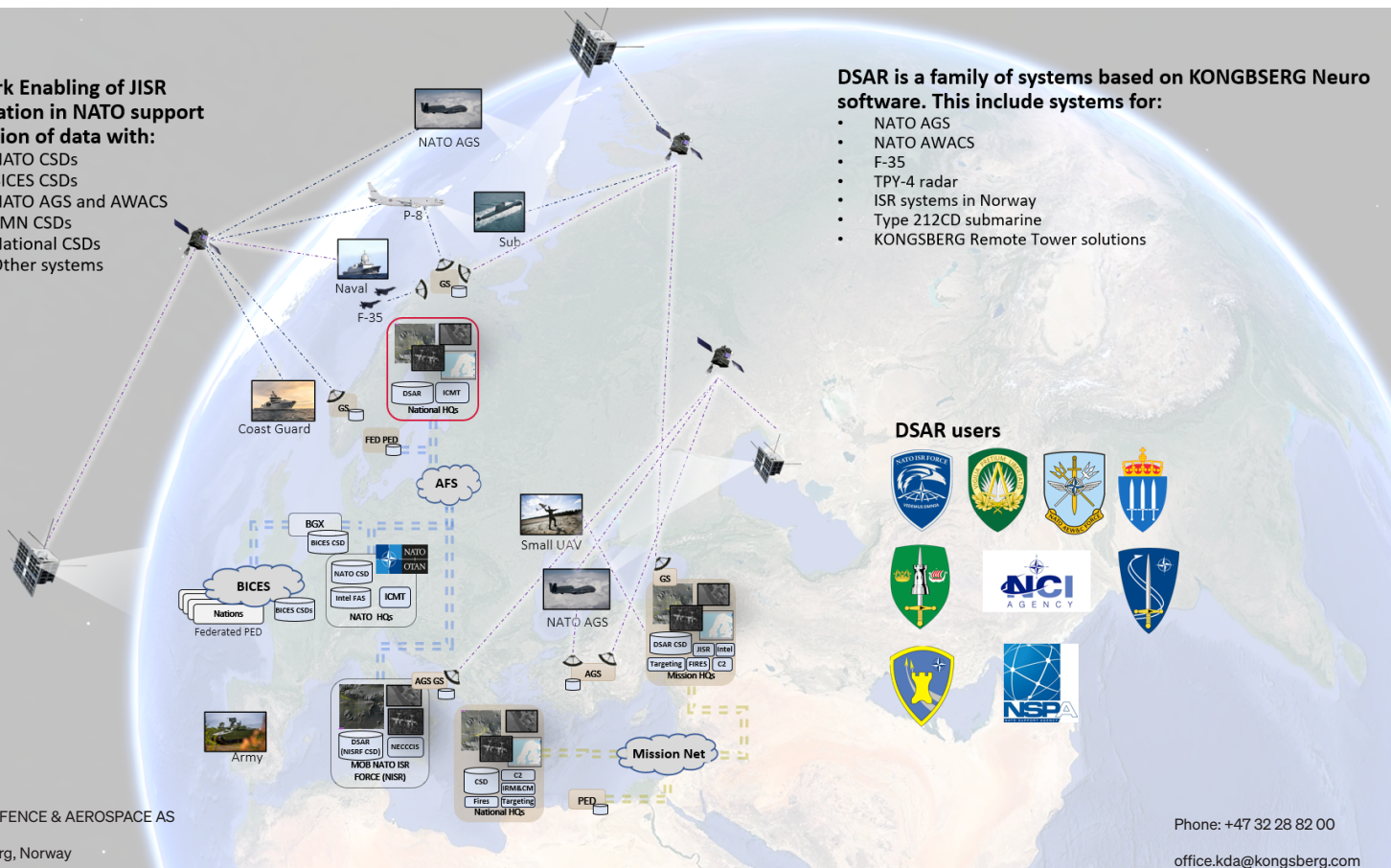
Military: FMV, SAR, ISAR, Photo, EO, IR, GMTI, TDL, ESM, Sonar, ISR-Track, NFFI, AWCIES, JISR Reports, APP-11 messages.

Other: AIS, ADS-B, DDS data, ASTERIX, various video and audio encodings, GeoJSON, GML, KML and WMS.

Any structured or unstructured data may be stored and cataloged. Applications may provide custom mining, indexing and transcoding that integrate with DSAR services.

Network Enabling of JISR Information in NATO support federation of data with:

- NATO CSDs
- BICES CSDs
- NATO AGS and AWACS
- FMN CSDs
- National CSDs
- Other systems



DSAR is a family of systems based on KONGSBERG Neuro software. This include systems for:

- NATO AGS
- NATO AWACS
- F-35
- TPY-4 radar
- ISR systems in Norway
- Type 212CD submarine
- KONGSBERG Remote Tower solutions