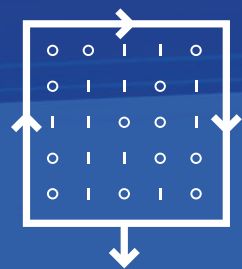# LIS

Safe way to your new information system

ØAURA

We have 30 years of experience in the development and integration of information systems for logistics and NATO codification for armed forces and defence industry in tens of countries on 5 continents.

The Logistic Information System (LIS) is a modern, comprehensive and integrated system providing an effective information support for all logistic activities and all service branches of the armed forces.

GOLD FUTURE FORCES

The Best System Solution of Trade Fair FUTURE FORCES

LIS covers all areas of military logistics

- Materiel Codification
- Asset Management
- Logistic Services
- Organisation Management
- Personnel Management
- Warehouse Management
- Supply Management
- Distribution Management
- Equipment Operation and Maintenance

- Transportation Management
- Consignment Tracking
- Facilities Management
- Acquisition Management
- Surplus Management
- Materiel Resources Management
- Logistic Support for Operations
- Crisis Management Support
- Defence Standardization Management

LIS Strategic Advantages

Materiel codification according to the principles of the NATO Codification system (NCS)

Comprehensive control and monitoring of the Materiel Item Life Cycle

Abiding the "MC 0319/3 – NATO Principles and Policies for Logistics" – Logistics Information Management

Compliance with the requirements "AJP 4.11 – Allied Joint Doctrine for NATO Asset Visibility"

Integrated solution for all supply classes, service branches and levels of the armed forces: strategic, operational and tactical

Optimization of logistic resources in the Joint Operation Area in accordance with "BI-SC – Operations Logistics Chain Management (OLCM) Roadmap"
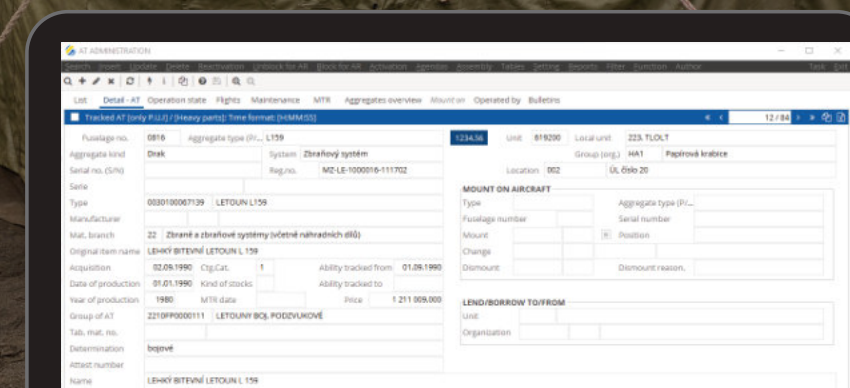
Main capabilities

MATERIEL CODIFICATION

The LIS Asset Management is based on the **NATO Codi-fication System** (NCS) principles. All assets are managed in a unified way: tangible property (materiel, items of supply), intangible property (e.g. licences, software) and phantom items.

ASSETS CONTROL

LIS provides **total and immediate control of all assets**. Detailed records are kept for each particular item in terms of identification, quantity, location, quality, usability, price and specific features (like expiration date, lifespan etc.). For an easy overview and manipulation, the material item can be kept in one of more than 20 states. Each operation with the material item generates Document on Economic Transaction and appropriate accounting records.

OPERATION AND MAINTENANCE

LIS provides capabilities for planning, execution and control of the technical maintenance of combat equipment, aviation equipment, weapons, weapon systems and various technical devices to execute both preventive and corrective maintenance and to inform about the status and **combat capability** of monitored items. LIS provides the technical maintenance and operation plans of various types and details: Equipment Operational Plan, Operative Maintenance Plan, Work Maintenance Plan, Work Orders, etc. The technical maintenance produces data for the **Materiel Item Life Cycle** cost evaluation.

DEPLOYMENT AND TRANSPORTATION

LIS supports deployment and transportation including the transport operated by civilian contract carriers. Each shipment (either domestic or international) can be tracked by the **Consignment Tracking** functionalities based on the STANAG 2494 AST (Edition 2). Detailed information on each shipment is visible in accordance with the **Total Asset Visibility** concept.

LOGISTIC SUPPORT FOR OPERATIONS

LIS provides logistic support for **Task Forces** deployed in operations. With a satellite communication, deployed units can be **located anywhere in the world**. The operation can be of any type (combat, rescue, peace-keeping, etc.) and a Task Force can be of any extent and structure including even non-military subjects. In connection with the **Crisis Management Support**, LIS reinforces the state administration bodies in crisis scenarios (e.g. Help in natural disasters). LIS also enables to utilize all available materiel resources including the allied logistics, civilian suppliers and Host Nation Support. Both **push and pull** supply strategies are supported.

INTEROPERABILITY AND STANDARDS

LIS is **interoperable** with many information systems, both national and international. Interfaces are in compliance with the **industrial and military standards** (ISO, STANAG, WSDL, SOAP, WS-Security, etc.).

LIS supports a state-of-the-art industry technology like mobile terminals with integrated barcode readers, RFID devices, GIS components (map browsers), electronic signature, etc.

LIS in routine operation

1998
started in
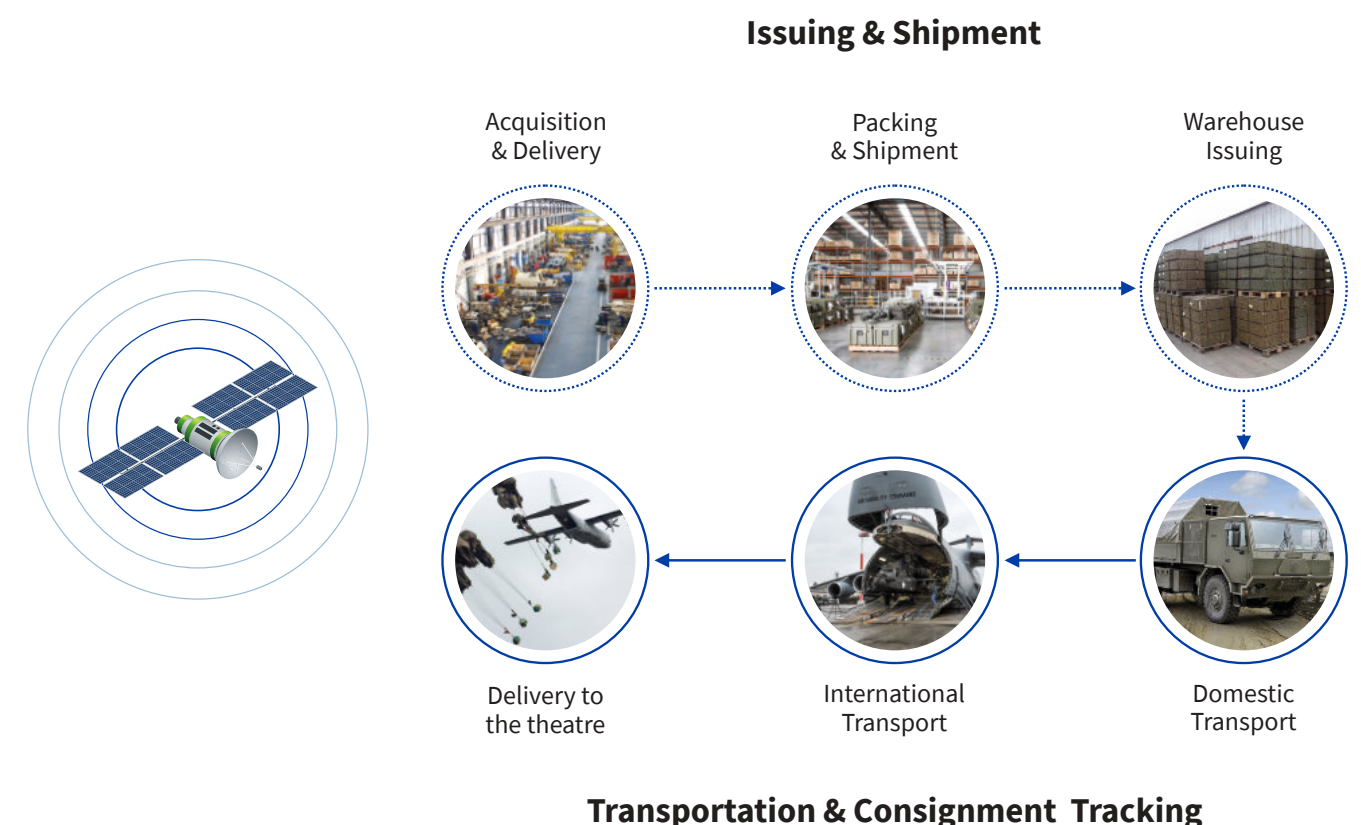routine operation

6,500
users in 2018

370,000
catalogue items

LIS is in a routine operation in the Armed Forces of the Czech Republic (AFCR) and the Ministry of Defence of the Czech Republic since 1998. Its technology is continuously modernized.

LIS is used to plan and monitor operation, maintenance and repairs of 445,000 pieces of combat equipment, aviation equipment, weapons, weapon systems and various technical devices.

LIS is certified by the Czech National Security Authority and is operated in multiple security domains (from Unclassified to Secret).

Operations logistics chain management

Issuing & Shipment

Acquisition & Delivery → Packing & Shipment → Warehouse Issuing

Delivery to the theatre ← International Transport ← Domestic Transport

Transportation & Consignment Tracking

Key principles of the logistic information support

1 MATERIEL CODIFICATION ACCORDING TO THE PRINCIPLES OF THE NATO CODIFICATION SYSTEM (NCS)
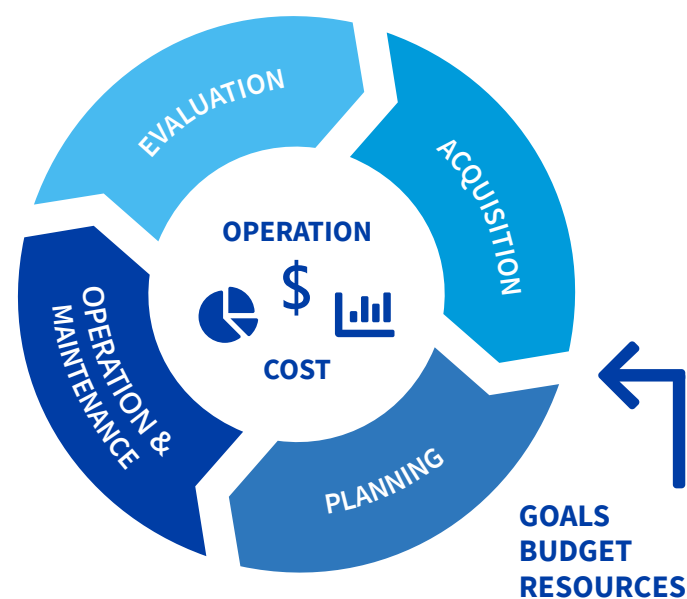
The purpose of the NCS is a materiel item codification according to unified rules allowing an unambiguous identification of the items, an international data exchange, data maintenance and updating in the entire life cycle of the item.

The codification also helps in the acquisition process to communicate with suppliers and manufacturers of the materiel. The appropriate codification is a foundation of the entire logistic system operation.

The NCS is based on NATO standards, particularly STANAG 3150, STANAG 3151, STANAG 4177, STANAG 4199, STANAG 4438 and the NATO Manual on Codification ACodP-1.

2 SUPPORT OF THE MATERIEL ITEM LIFE CYCLE

is ensured by the creation of history records of the usage, operation, maintenance and consumption. The data allow the cost evaluation of the materiel item in the entire life cycle. They are a groundwork for the acquisition and the development projects planning. The materiel item life cycle support concerns both consumable materiel (food, fuels, ammunition etc.) and non-consumable materiel (weapons, equipment etc.).

3 LOGISTICS INFORMATION MANAGEMENT

LIS meets requirements for NATO information systems in accordance with *"MC 0319/3 – NATO Principles and Policies for Logistics"*. The document specifies basic requirements for **Logistics Information Management**. LIS provides up-to-date logistic information on identification, quantity, exact location, possession and quality (status) of materiel, weapons, equipment and other assets.

4 JOINT TOTAL ASSET VISIBILITY

LIS meets NATO **Joint Total Asset Visibility** (JTAV) requirements in accordance with *"AJP 4.11 – Allied Joint Doctrine For NATO Asset Visibility"*. JTAV specifies an ability of the system to consolidate a source data from various information resources in order to ensure the logistic support of the joint forces. LIS meets a JTAV major goal, which is a comprehensive overview on the materiel items' location during the preparation, execution and termination of the operation of the deployed forces.
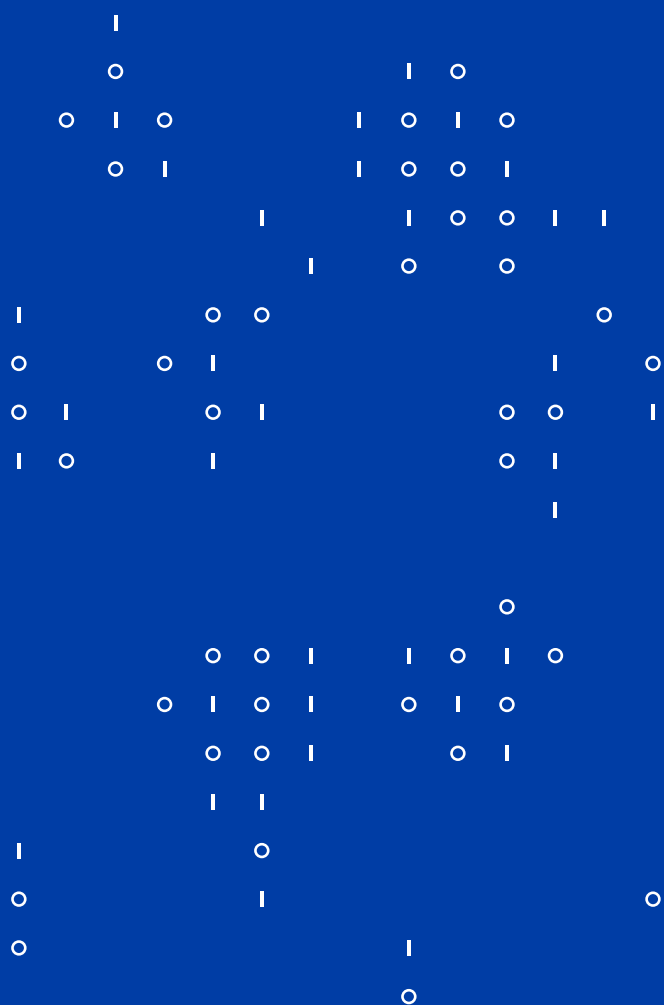
5 WEAPONS AND EQUIPMENT REPAIRS AND MAINTENANCE

In the sphere of the **weapons and equipment repairs and maintenance** LIS provides the information support in accordance with *"MC 0533 – NATO Principles and Policies for the Maintenance Of Equipment"*. LIS enables a continuous monitoring of the assigned operating measure units consumption (kilometres, engine hours, shots etc.) And a consecutive planning of the timely preventive maintenance including the appropriate capabilities, spare parts and other resources.

6 JOINT OPERATION AREA

LIS provides an ability to set priorities, optimize logistic resources and coordinate logistic services in the **Joint Operation Area** in accordance with *"BI-SC – Operations Logistics Chain Management (OLCM) Roadmap"*. The purpose of the information support in all the operation phases is to sustain logistic capabilities. LIS also enables a coordination of logistic activities in **national logistics chains**, which earmark the logistic resources for particular operations. LIS covers the identification, processing and coordination of requirements (for materiel and logistic services), planning and synchronization of the supply activities for the deployed forces.

EVALUATION

ACQUISITION

OPERATION

COST

OPERATION & MAINTENANCE

PLANNING

GOALS
BUDGET
RESOURCES