

Tactical data link processors: Link 22 implementation

Is your
command
and control
system ready
for the roll
out of Link
22?

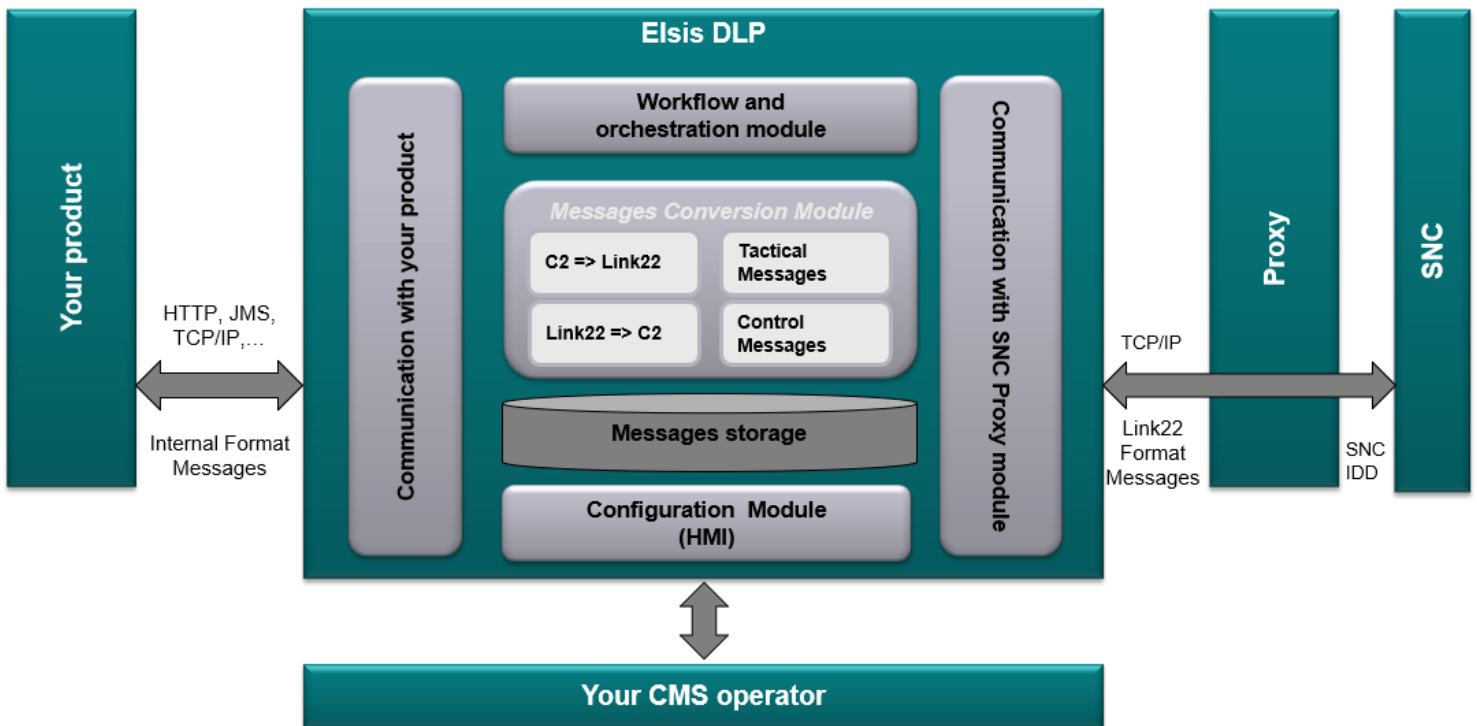
RISE IN THE DATA AND INFORMATION VOLUME

Like never before, today military planning, decision-making and command and control requires high and growing volumes of data. To improve situational awareness and support more and more complex military operations, national security organizations have to improve ability to rapidly exchange and quickly use huge amounts of information. Moreover, this information is often collected from geographically dispersed devices.

To support complex data exchange for military actions, tactical data links were designed according to specific standards. The newest and most advanced tactical data link networks are Link 16 and Link 22.

Both second generation data links were created to solve the limitations of the first generation data links. For example, Link 22 was designed to replace Link 11. Among other changes, it enables Beyond Line of Sight communication capabilities. It has been designed to work in more connected settings, thus is complementary to Link 16 and enhances C4ISR capabilities.

While the original requirements have been laid out in the late 1980s, Link 22 is only starting to be rolled out in the US in 2018. Other NATO member nations are expected to follow soon after.



LINK 22 ROLL OUT BRINGS SOME CHANGES TO EXISTING TECHNOLOGIES

Link 11 is expected to remain in use until approx 2023 and even after that same tactical radios can remain in use as Link 22 can employ the same ones. However, Link 22 will require a new Data Link Processor (DLP) to generate and receive Link 22 messages, and System Network Controller (SNC). While the latter one exists in a single implementation, used by NILE Project Management Office, there are a few implementations of Link 22 DLP.

Elsis PRO Link 22 DLP is the most lightweight customized implementation. It is a software based formatter/deformatter plug-in with or without tactical user interface, dedicated for C2/C3/C4 and other variations of command and control systems.

ABOUT ELSIS PRO

- Elsis was established in 1991 and has over the past 26 years grown to be a leading player in the Baltic region within information technology and communications (ICT) and intelligent engineering systems.
- We create innovative decision support software and custom-made integrative solutions combining our experience with newest technologies and non-standard thinking.