



identifying & optimising
INTEROPERABILITY

a complete
TDL
solution

why
leidos

 **OUR**
tools




HOW WE
WORK

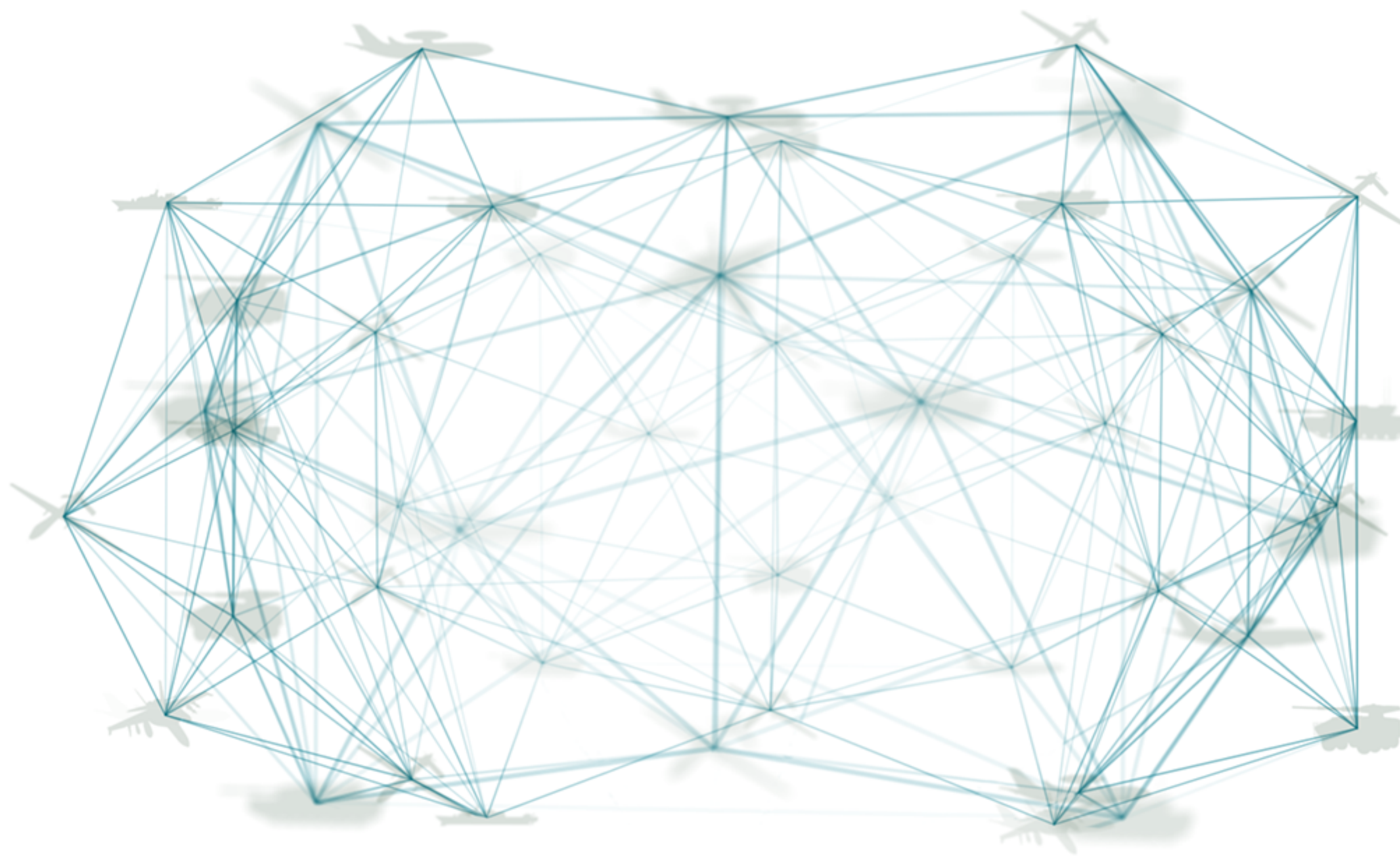


next ➤



Tactical Data Link Expertise

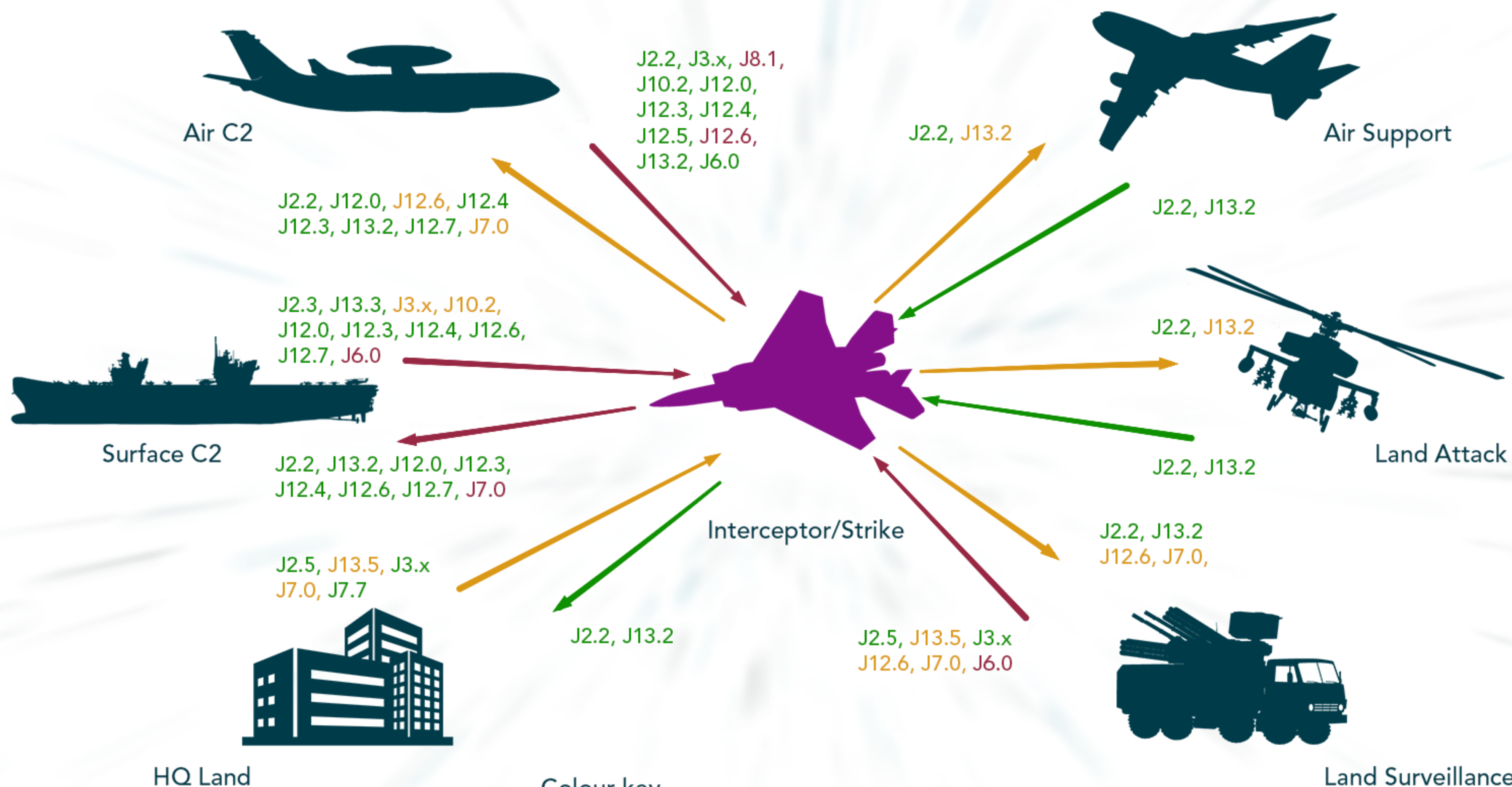
Assuring information advantage for over 30 years



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Colour key

Jy.x – can be Tx/Rx by both platforms

Jy.x – can be Tx/Rx with minor I/O issues

Jy.x – major I/O and/or non-compliance issue



why leidos

EXPERTISE

- 30+ years at the heart of TDL operations
- Dedicated experts across: Consultancy, Development, Testing & Analysis, Training
- Multi-disciplinary team – from military and industry
- Supported over 20 platforms

EXPERIENCE

- Supporting over 50 customers in 15 countries including:
NATO – USDoD – UKMoD – USAF – ADFTA – Bundeswehr – FMV – European Defence Agencies

KNOWLEDGE

- Familiarity with legacy platforms and terminals
- Appreciation of future platforms – manned and unmanned
- Detailed understanding of all relevant NATO/US STANAG/MIL-STDs standards, L16 MIDS ICDs, L22 NILE documentation
- Link 11, VMF, Link 16, JRE, Link 22, SIMPLE



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- ▶ Hardware, software and technology expertise
- ▶ Proprietary suite of world class test & analysis tools
- ▶ The only requirements capture tool mandated by UK MoD and US DoD
- ▶ Mobile testing service

TESTING

HOW WE WORK

TRAINING

- ▶ Specialist TDL and Testing Workshops
- ▶ Live or virtual training
- ▶ Train the trainers services
- ▶ Advice on creating in-country capabilities

CONSULTANCY

- ▶ Independent best-advice approach
- ▶ Platform and domain agnostic
- ▶ Programme oversight or problem-solving
- ▶ Complete familiarity with NATO standards and processes

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next ▶



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GNITEST



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TIGER

A powerful battlespace
Tactical Data Link
simulator

eSMART

Our proprietary
software to implement
iSMART process*

OUR tools

CIVET

Real-time decoding,
monitoring and recording
of TDL messages

PUMA

Portable control,
testing and diagnostics
for TDL terminals

MANDRIL

Automated post mission
TDL message analysis
(Link 11, 16, 22 and VMF)

Upgrades and updates for new and emerging standards
Managed by Leidos, influenced by users

* iSMART is the UK and US mandated process for interoperability requirements capture. It is widely used in NATO and elsewhere.

◀ back



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TIGER

A powerful battle-space Tactical Data Link simulator

- Supports fully simulated or mixed environments
- Simultaneous Multi-TDL support
- Generates representative TDL messages (including errors)
- Models platform kinematics and sensor performance
- Records all data exchanges and compatible with MANDRIL

🌐 Used in the UK, US, Spain, Germany, Italy, Turkey, Switzerland, France (National and Industry)



Can be supplied in hardware



Reduces time, cost, and effort



User group and customer feedback



CIVET

Real-time decoding, monitoring and recording of TDL messages

- Supports real and simulated environments
 - Automatic alerts for non-compliant messages or content for Link 11 and Link 16
 - MIDS BU2/MIDS JTRS compatible
 - Supports Multiple platform types/ interfaces
 - Incorporates IDPF function
 - Records all message flows, compatible with MANDRIL
- 🌐 Used in the UK, US, Spain, Sweden, Switzerland, Turkey, RoK (National and Industry)



Record and playback message data



Real-time decoding of Link 16 and 11 message data



Identify Variations against the message standard



MANDRIL

**Automated post mission TDL message analysis
(Link 11, 16, 22 and VMF)**

- Compatible with all terminals including BU2/JTRS decodes
- Decodes 70+ data formats
- Provides readable decode of all TDL messages in accordance with selectable NATO / US standards
- Supports over 70 different recording formats
- Multi-link and multi-terminal compatible
- Key component of the iSMART process

🌐 Used in the UK, US, Germany, Spain, France, Australia, Turkey, Switzerland, Sweden, Norway, Canada, Finland, RoK, (National and Industry)



Most powerful tool
of its kind



Can decode 70+
data formats



Supports multiple TDLs
and Standards





PUMA

Portable control, testing and diagnostics for TDL terminals

- Concurrent control, monitoring and recording of up to eight terminals
- Used for MIDS Low Volume Terminals
- MIDS BU2/MIDS JTRS compatible
- Completely manufacturer agnostic
- Employs simple traffic light system for terminal status and health
- Records all terminal data flows, compatible with MANDRIL

🌐 Used in Switzerland, Sweden, US, UK, Turkey, Spain, Belgium
(National and Industry)



Control of up to
8 terminals



Engineering terminal
diagnostics



Works with any
MIDS LVT



eSMART

Our proprietary software to implement iSMART process*

- Identifies maximum interoperability between platforms
- Identifies capability gaps
- Manages Information Exchange Requirements
- Through-life TDL platform management
- Documentation creation and management

🌐 Used in 16 MIDS Nations (National and Industry)

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Reduces overall costs
of a programme



Identify maximum
achievable
interoperability



Information Exchange
Requirements
Management (IER)

