



# Meta

MISSION DATA

## Spectral

## Task

### Military Message Creator/Convertor

Message Text Format (MTF) signals are an essential part of the coordination, planning and management of operational activities. With continually changing MTF structures, complex field formats and encoding, manually generated signals are prone to inaccuracies making them unusable by automated systems. Ensuring that these MTF signals are correctly generated and validated is key to ensuring mission success through the correct exchange of information between organisations.

**Spectral Task** delivers a complete solution for creating, reviewing and validating any MTF signal. Providing an intuitive, operator friendly graphical user interface. **Spectral Task** highlights and removes the errors from MTF signals generated locally or imported from external organisations.

By providing full validation of signal structure, segment/set/field rules and field formatting/values in addition to providing comprehensive field decoding and formatting support, Spectral Task ensures any MTF signal can be quickly and accurately created and reviewed.



#### ▲ OPTASK LINK SIGNAL

▷ SIGNAL HEADER

▷ MULTI-LINK COORDINATION DETAILS

▲ LINK 16 DETAILS

**LNKXVI** : LINK 16 SEGMENT HEADING

**JNETWORK** : JOINT NETWORK INITIALISATION DATA

**NATJNL** : NATIONAL JTIDS NETWORK LIBRARY IDENTIFICATION

**CPD** : CRYPTO PERIOD DESIGNATOR

**JCRYPDAT** : LINK 16 CRYPTOGRAPHIC DATA

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NETWORK	UNIT	CALLSIGN	STN	TN Block	SURV OFF	SURV SEQ	SURV EVENT	DUTY
USP0010A-8 CH03	4BER5	VACUUM	00043	01360-01487	9	4	-	MIDS RELAY UNIT (MRLYU) INITIAL ENTRY MIDS UNIT (EELU)
USP0010A-8 CH03	418ECS	NOISE	00041	01440-01487	9	7	-	MIDS RELAY UNIT (MRLYU) INITIAL ENTRY MIDS UNIT (EELU)
USP0010A-8 CH03	609EACS	BPFL	00008	02000-02277	9	1	-	TRACK DATA COORDINATOR STANDBY (TDCSBI) REGIONAL TRACK DATA COORDINATOR (RTDC) JOINT INTERFACE CONTROL OFFICER STANDBY (JICCSBI) REGIONAL INTERFACE CONTROL OFFICER STANDBY (RICCSBI) CHANGE DATA ORDER AUTHORITY (CDOA) INITIAL ENTRY MIDS UNIT (EELU) LINK 16 SECONDARY NAVIGATION CONTROLLER (SECNC) LINK 16 POSITION REFERENCE (L16PR)
USP0010A-8 CH03	MACS-4	VICE SIGNAL	00004	03120-03417	9	2	-	REGIONAL TRACK DATA COORDINATOR STANDBY (RTDCSBI) REGIONAL INTERFACE CONTROL OFFICER STANDBY (RICCSBI) CHANGE DATA ORDER AUTHORITY (CDOA)

### Operator Focused MTF Signal Visualisation

- Easy to read MTF signal structure display and summary
- Field values displayed in man-readable format to remove the need to memorise the signal Standard
- Signal formatted text automatically generated and displayed for instant review
- Signal summary views displaying key fields in man-readable format

Signal Editor | Signal Text | Signal Info | Settings

JUDATA/SHIP/NIMITZ/CS-STONEWALL/JU-00001/16/00277-00300 /BLOCK:00201-00500/-/SHIP-3/12/NORM/1000/PRI/Y/-/-

**SET NAME** JUDATA (JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS) UNIT DATA)

**SET DESCRIPTION** PROVIDES DATA ABOUT THE LINK 16 DATA LINK SYSTEM UNITS. THIS IS THE LEAD SET OF A SEGMENT

**SET STATUS** SET INVALID

**SIGNAL TEXT** JUDATA/UNIT:CAOC/CS-MONITOR/JU-00060/16/-/-/-//

Field Name	Field Value
<b>Group:1-1</b>	
UNIT DESIGNATOR *	UNIT CAOC
CALL SIGN OR LINE NUMBER	CALL SIGN MONITOR
PRIMARY JU OR UNIT LINE NUMBER *	PRIMARY JTIDS UNIT (JU) ADDRESS 00060
LINK DATA TYPE *	LINK 16 DATA

Set Remarks

CAOC SAA server. Non-RF Link 16 unit. JREAP only.

NETWORK PARTICIPANT - MANDATORY FIELD HAS NOT BEEN INCLUDED  
FIELD 6 IN SET ^ (JUDATA) IS REQUIRED IF FIELD 4 IN SET ^ (JUDATA) EQUALS "16" OR "16 UMS". OTHERWISE IT IS PROH

UNIT DESIGNATOR \*

CALL SIGN OR LINE NUMBER

PRIMARY JU OR UNIT LINE NUMBER \*

LINK DATA TYPE \*

LINK 16 TRACK NUMBER BLOCK

UNIT CAOC

SHIP NAME

BASE NAME

PLACE NAME

UNIT

AIRCRAFT BY TYPE, MODEL OR CODE

Signal Editor | Signal Text | Signal Info | Settings

OPER/VINEGAR BBQ//

REF/A/-/-/DMY:22112005/-//

REF/B/-/-/DMY:03122008/-//

GENTEXT/CONDUCT OF TDL OPERATIONS/Theater Multi-TDL Network (

POCLINK/JICO/HENRY/LCDR/UNIT:CAOC/TEL:213-467-2222//

PERIOD/010000Z0CT2011/UFN//

GEO DATUM/WGE//

DLRPGRID/DLRP/A1/3200.000N-10500.000W//

DLRPGRID/DLRP/B1/2800.000N-10100.000W//

DLRPGRID/GRIDORG/-/3200.000N-10500.000W//

IVCCN/ADCCN/P/SATVOICE/FRQDES:1A001/BUICK//

SATVOICE/06/04/01/22/05/05/05/05//

## Complete MTF Signal Validation

- Automatic signal validation during editing
- Colour coded validation results and validation error details enables easy identification and resolution of errors
- Full signal/segment/set/field validation checks ensures that any generated signal is validated against the Standard

## Signal Creation/Editing

- Intuitive signal editing window removing the need to remember field decodes and signal structure
- Full support for option field types enables all signal field variants to be defined
- Automatic creation of mandatory MTF signal sets reduces time to create the signal
- Ability to set default field values for rapid signal creation
- Search function to quickly find operator selected fields within the MTF signal

## MTF Signal Import

- Automated validity checks on signal import to highlight any errors
- Automated example field entries against errors
- Import from one MTF signal format and conversion into another format

## MTF Signal Export

- Fully validated export of MTF signal text

## Embedded Operator Help Function

- Display of set and field examples and purpose
- Display of field formats and valid ranges
- Indication of mandatory and optional fields



For more information on Spectral Task, contact us at:

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