

JTLS-2015-12458 Multiple TADIL Link-16 Feeds

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1.0 Summary of Model Change Request

There are two reasons clients have provided for needing the representation of two independent Link-16 feeds. These are:

1. Multiple TADIL JOI feeds are needed to properly simulate the real world Command Control Communication and Computer Information (C4I) system structure. In the example C4I system structure, the Navy C4I system gets all Navy Link-16 data from ships and naval surface search radars, while the Air C4I system gets all Link-16 information from other intelligence sources and radar sites. After that, both Navy and Air C4I systems sends their own Link-16 format data to the national C4I system. Currently, JTLS only represents the single Link-16 feed. This means that during a JTLS exercise, the individual Link-16 feed to separate systems cannot be represented; therefore, the exercise audience cannot make it an exercise audience responsibility to handle the technology of merging the Link-16 feeds for the national systems.
2. Some users hold exercises in which two or more sides are fully functioning staffs and each side needs to have its own independent Link-16 feed to the C4I system that represents the national level Common Operational Picture (COP).

2.0 Design Summary

Currently there are two Air Control Prototype (ACP) structure is used to determine if a side

3.0 Detailed Design

Concept 1 - there cannot be any overlap in the OPTASK Link assigned numbers

Concept 2 - It would be perfectly legal to have overlap because the multiple feeds would not overlap.

Remove Air Protocol from the ACP. New Table Link-16 Feeds:

Name

Network

Feed

Can Create new networks and feeds as the game is going, but you cannot delete them.

Decided only the controller can change the network and feed for a unit using the Set Unit Individual Parameter order.

4.0 Data Changes

5.0 Order Changes

The Set Unit Characteristic will be used to set or change Network and feed

6.0 JODA Changes

Every JODA object that can hold a JU source

7.0 Test Plan

Text *[Describe the basic test objectives and procedures. This Test Plan section may be published as a separate document.]*

7.1 Test 1 Title

Purpose: *[Describe the specific feature, function, or behavior to be tested or measured.]*

Step 1: Text

Step 2: Text

Expected Results: *[Describe the specific model behavior to be observed.]*

7.2 Test 2 Title

Purpose: *[Describe the specific feature, function, or behavior to be tested or measured.]*

Step 1: Text

Step 2: Text

[Describe the specific model behavior to be observed.]

