



Building the Network

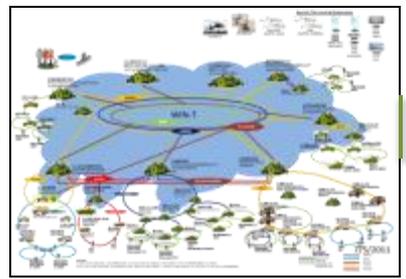
09 January 2013

Leveraging The Agile Process

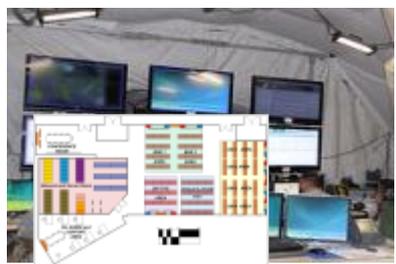


PORs
SUEs

Matériel Alternatives



Baseline Network Design



SoS Lab Developmental Risk Reduction



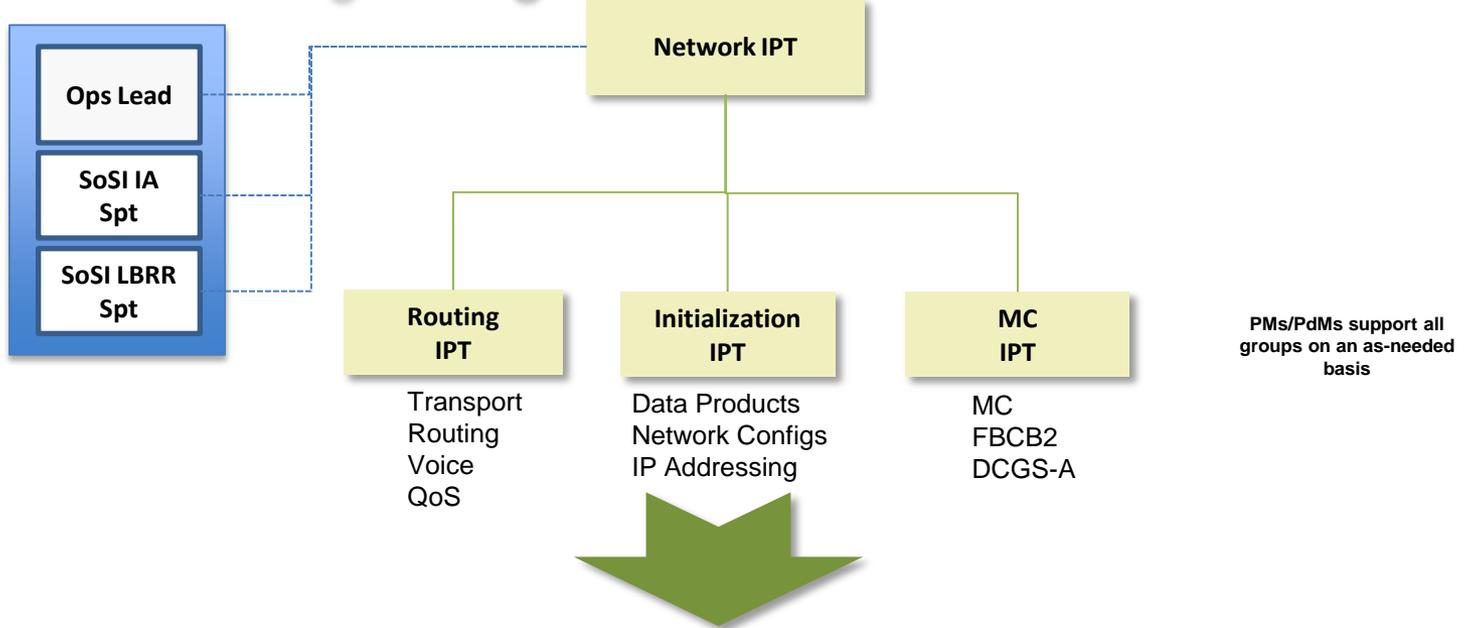
WSMR Operational Validation

Integrating the Network

NIE Network IPT Overview

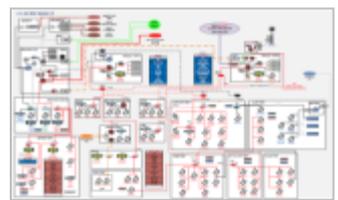
Purpose: The Network IPT is the forum where all SUTs and SUEs

get *integrated* into the NIE network



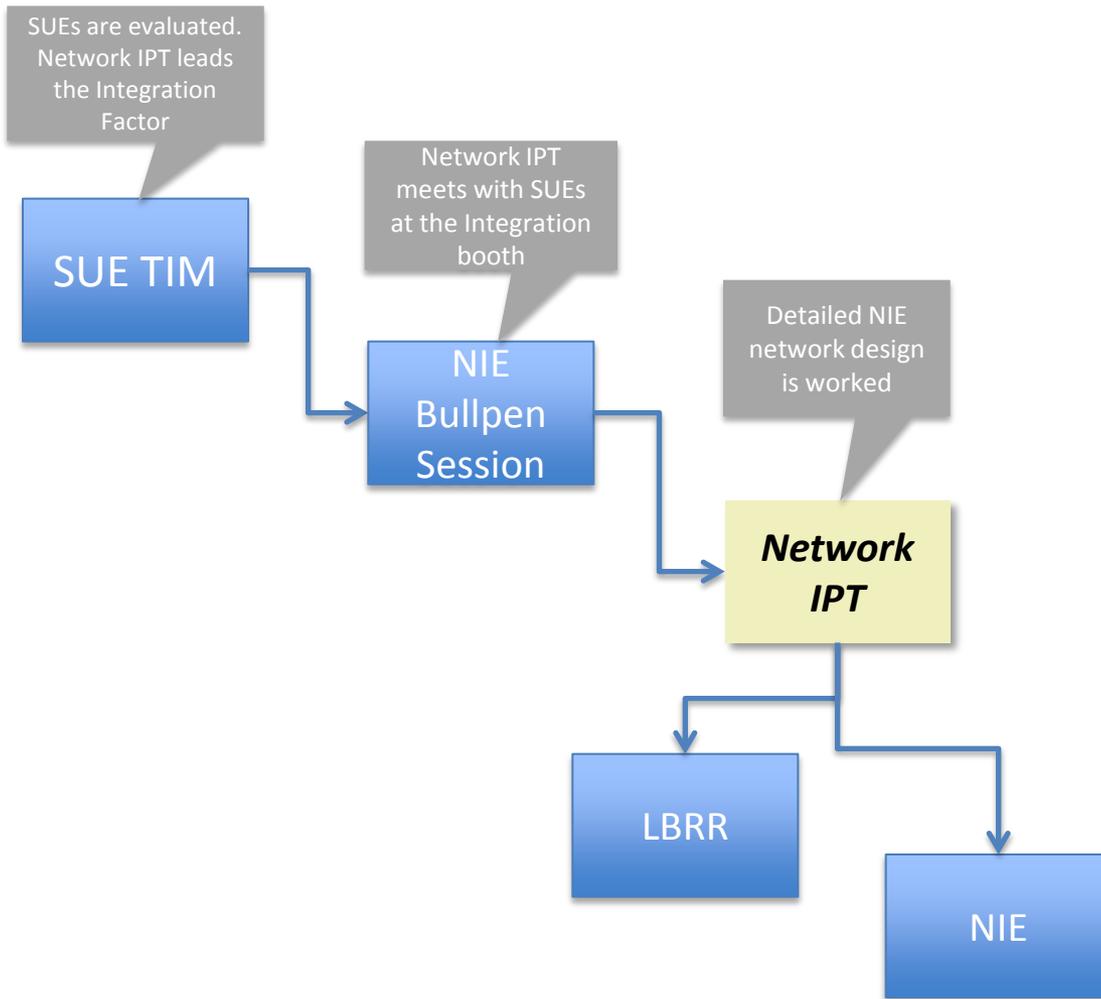
Network IPT Baseline Products

- Network Map (Routing IPT)
- Network-Apps Map (Network/ MC IPT)
- Radio Line Diagram (Routing IPT)
- Routing Description Document (Routing IPT)
- Server Architecture (MC IPT)
- IP addressing assignment (Init IPT)
- Network Configurations (Init IPT)
- Data Products (Init IPT)



Integrating the Network

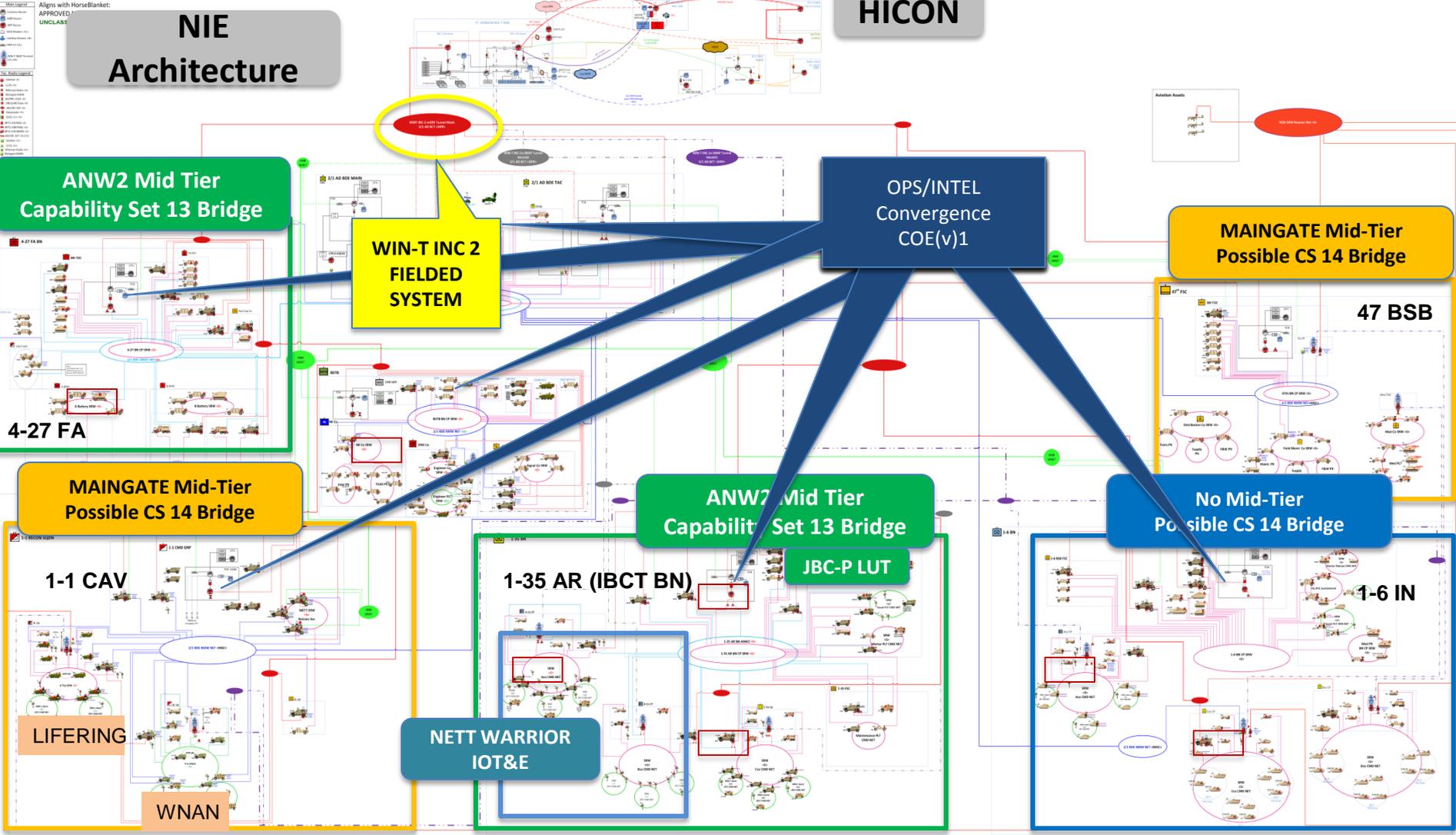
NIE Network IPT Battle Rhythm



- First engagement with SUT/SUEs is at the NIE bullpen sessions held at FTBTX
- Following bullpen session, weekly Network IPT meetings are held to synchronize the sub-IPTs
- Sub-IPTs hold meetings as needed to work specific functional area issues

Architecting an NIE Network Map

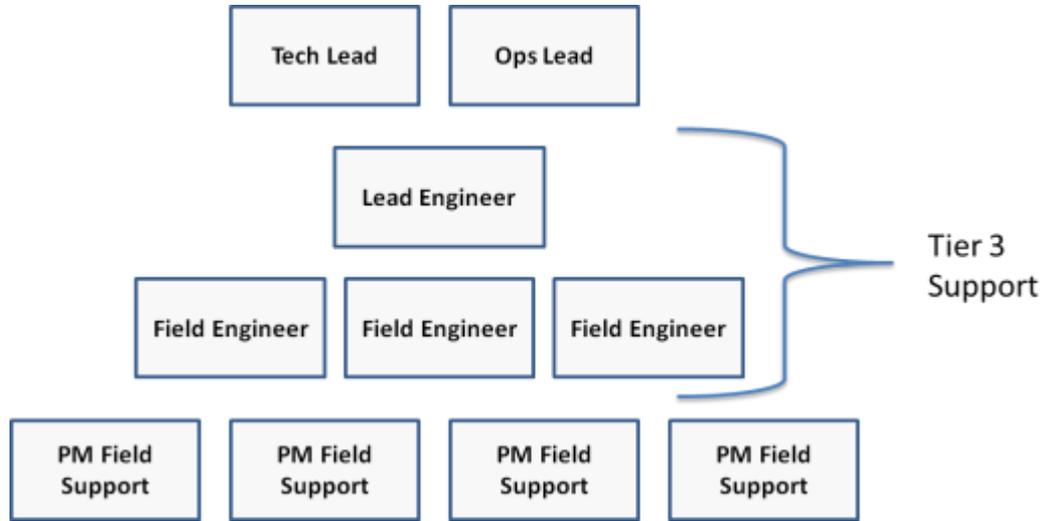
NIE 13.1 - Network Map v1.3 (16 August 2012)



Establishing top level SATCOM and terrestrial radio network connectivity across the formation

Supporting the Network

PEO C3T NIE Field Support



Tech and Ops Leads

- Full time On Site support
- 12 hour shifts

Network IPT Leads

- 1st Shift/On Site
- 2nd Shift/On Call

Tier 3 Support

- 24/7 Ops
 - 2 Lead engineers per day shift
 - 1 Lead engineer per night shift/on call
- 2 day overlap between rotations
- 2 week rotations/10 day off

Take Aways

- Collaborative Design
 - Building the network is a collaborative process that translates NIE operational vision into technical reality
- Managing Complexity
 - Ongoing challenge minimizing warfighter burden using and managing new technology insertions
- NIE Network Objective
 - Objective end state is to create fieldable Capability Set architectures based on NIE decisions

