

Tactical Information Exchange Integration Office (TIE IO)

Systems Integration Support Project (SISP)

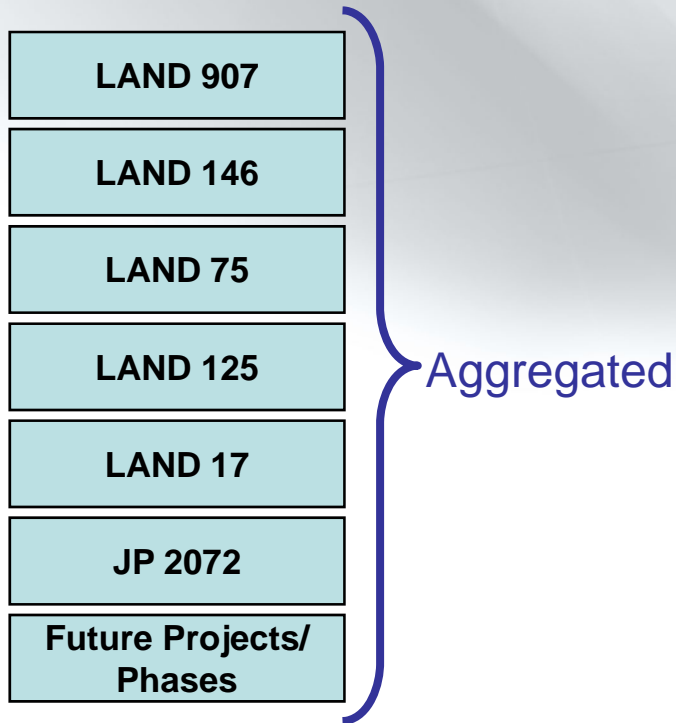
Mark Watson
(Project Manager)

Introduction

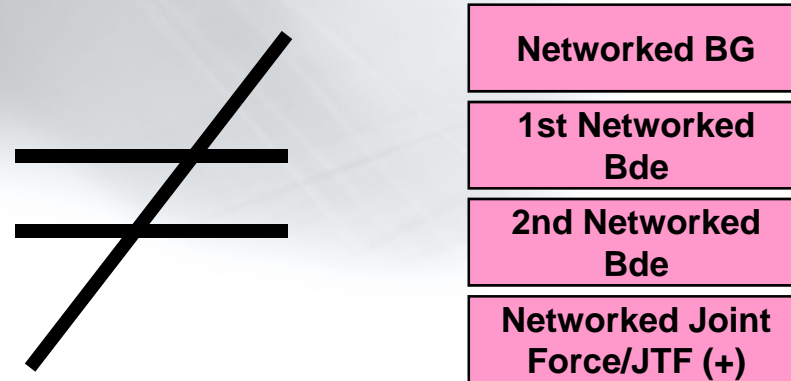


SISP – Enabling the Network

DCP Projects



Land Domain NCW/NACP milestones



Introduction



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DCP Projects



Land Domain NCW/NACP milestones

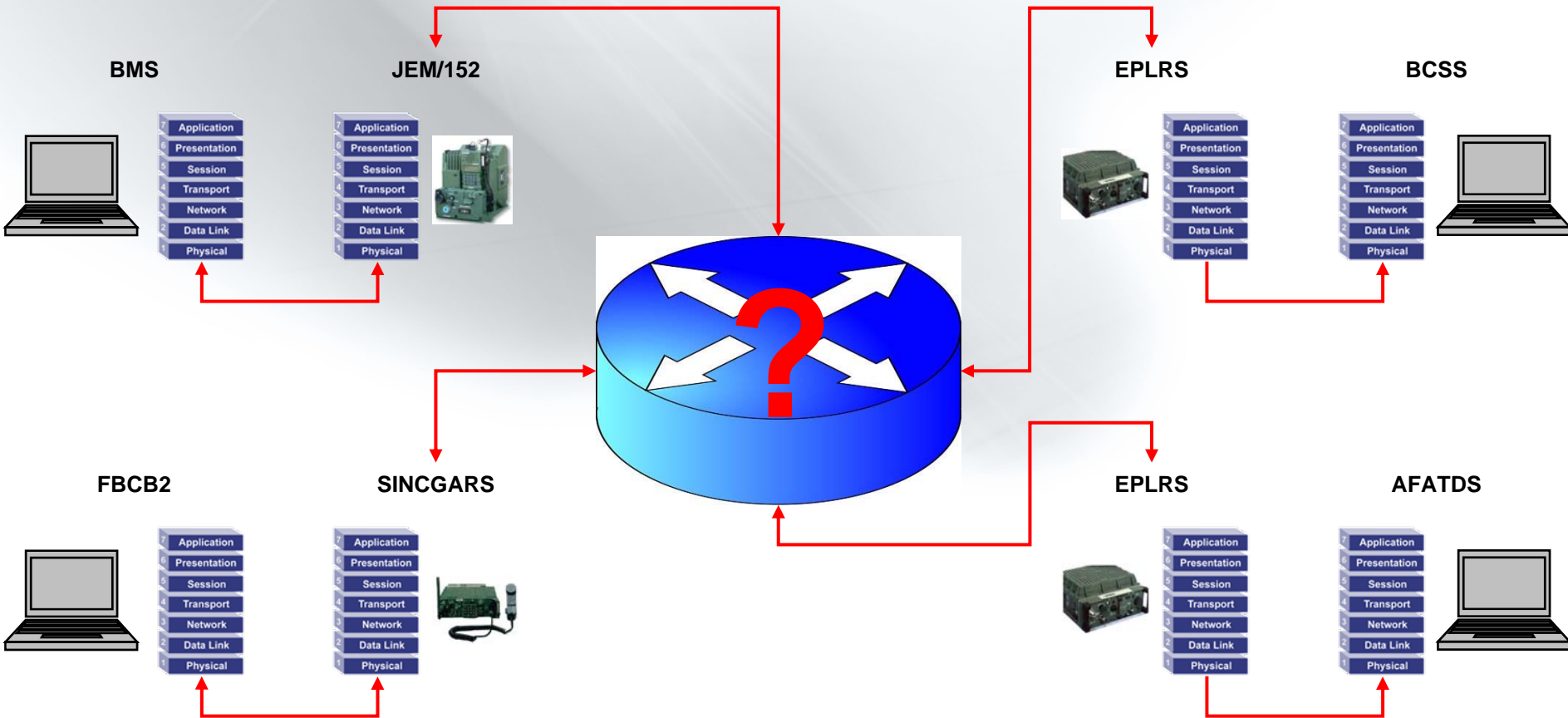


Key Issue is Systems Integration

Introduction



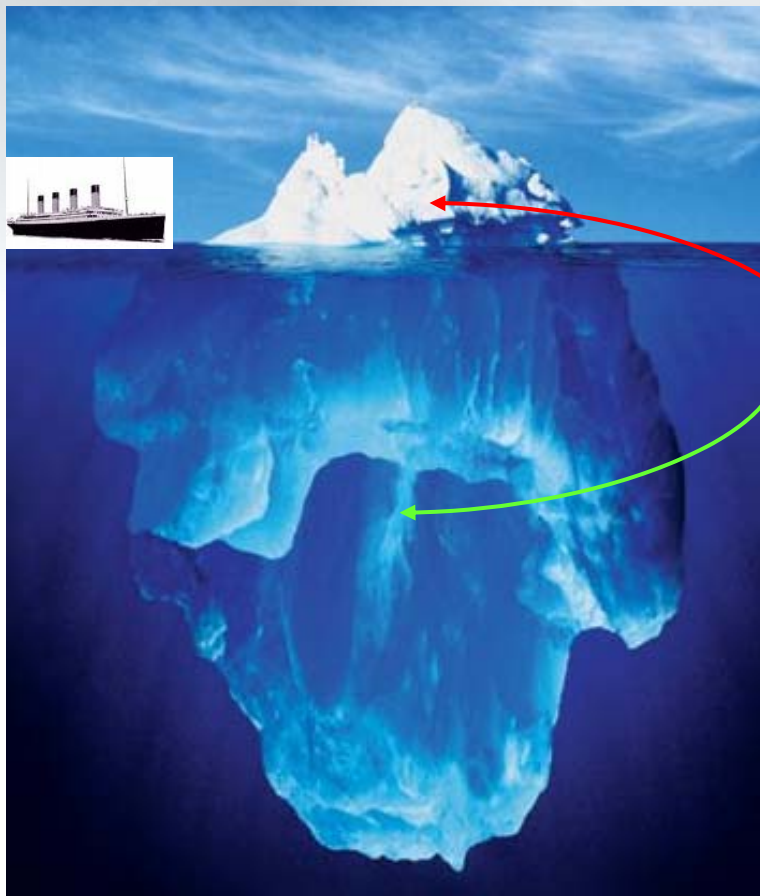
SISP – Enabling the Network



Introduction



SISP – Enabling the Network



Scope



SISP – Enabling the Network

- SISP Outline
 - What is it?
 - What will it do?
 - What won't it do?
 - Where are we (TIE IO) up to?
- Key Challenges
- Summary/Questions

What is SISP?



SISP – Enabling the Network

- TIE IO initiated (**AHQ endorsed**)
Systems Integration effort
- Supporting NCW/NACP milestones
 - Networked Battle Group (2009)
- Provides a **system level Risk Mitigation** outcome
 - Can the network elements of respective milestones be networked?
 - How (optimisation)?

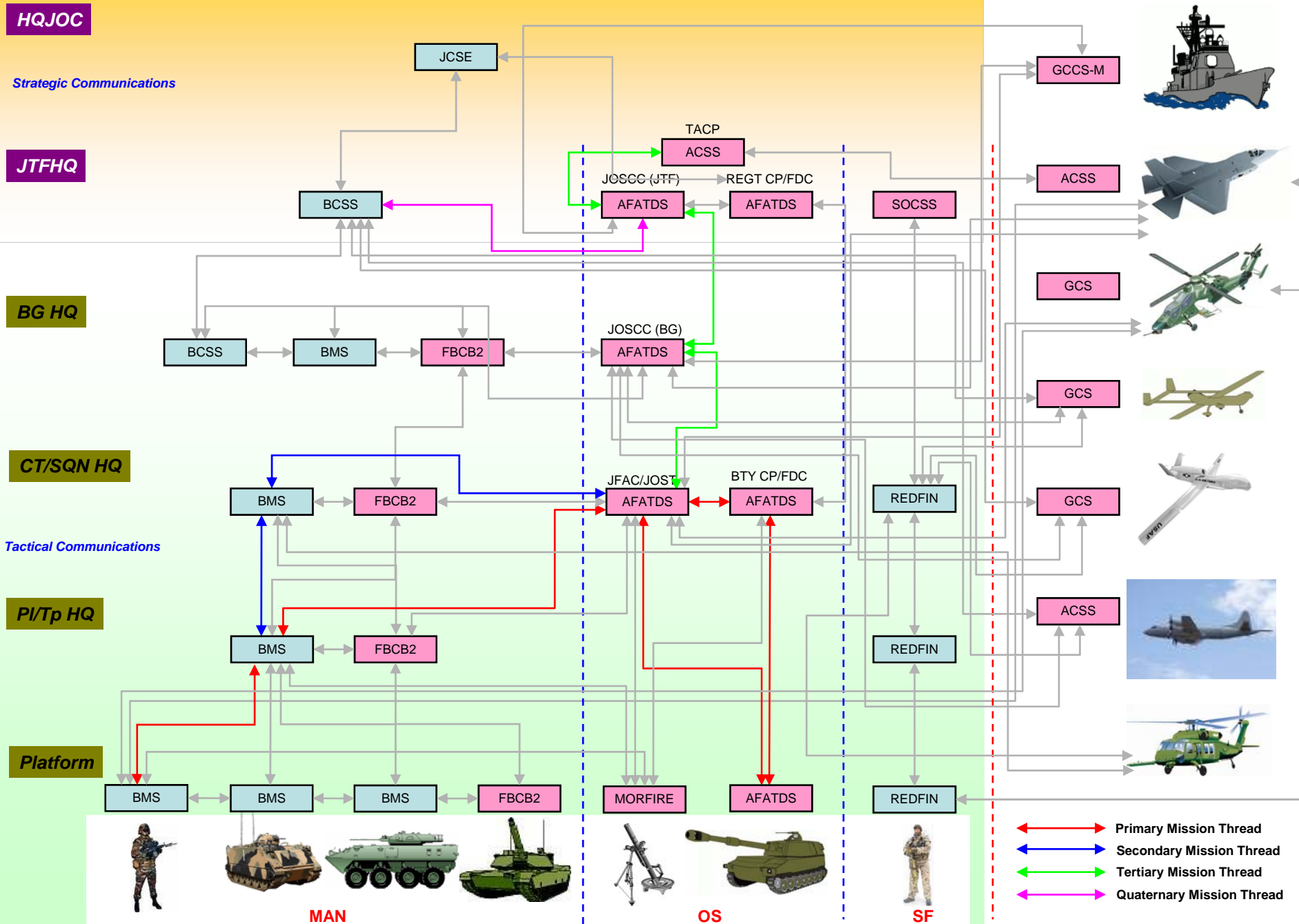
What will SISP do?



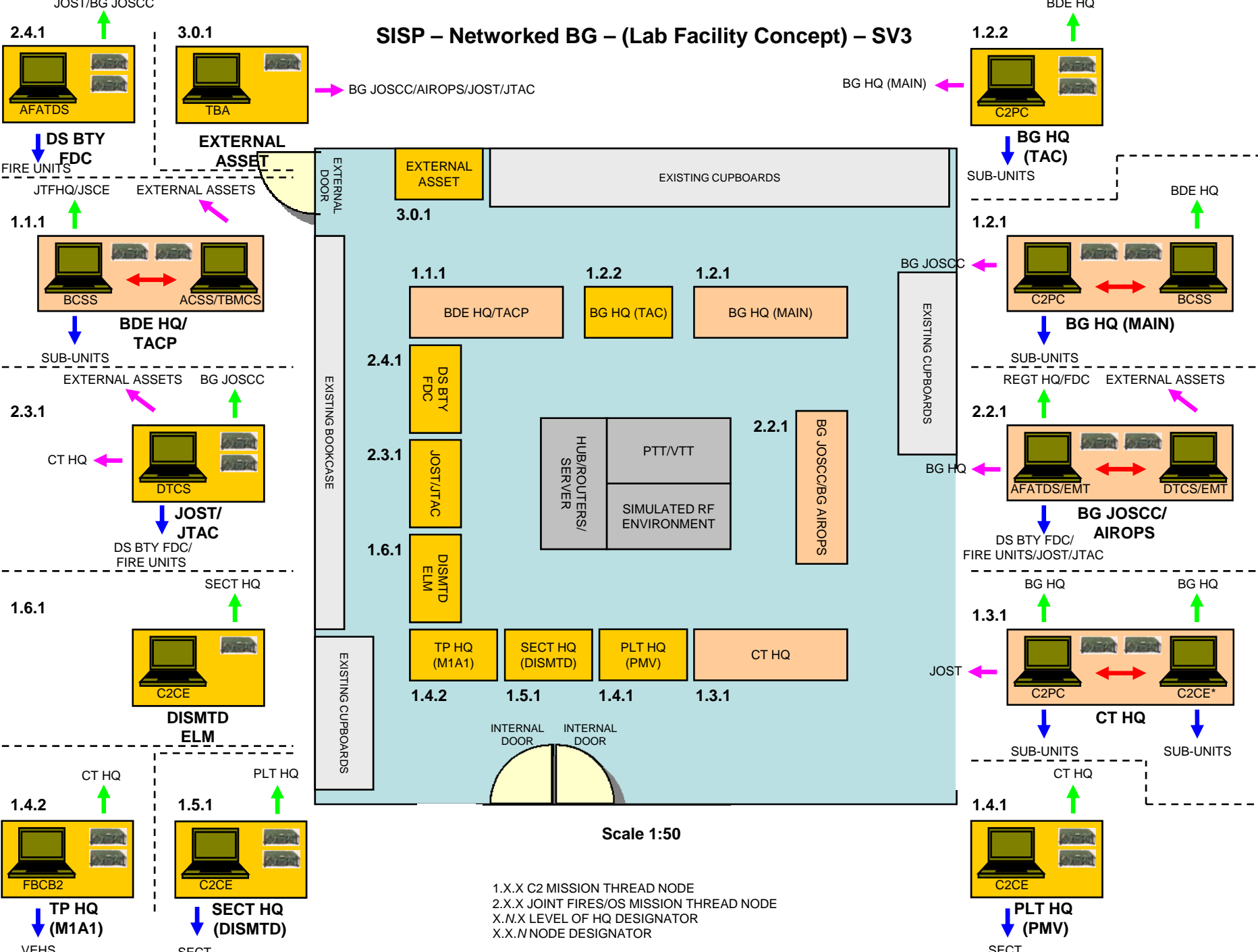
SISP – Enabling the Network

- Overlay a representative operational environment (Mission Threads) on a representative physical environment (Representative Network Battle Group)
- Quantitatively Measure performance of the resultant system to **generate & pass** digital data (relevant MILSTDs)
 - Lab testing
 - Limited Field Testing

JF.1.01 – Fire Mission – Immediate Neutralisation - All Arms Call for Fire - Unauthorised Observer



SISP – Networked BG – (Lab Facility Concept) – SV3



2.4.1
 JOST/BG JOSCC
 AFATDS

3.0.1
 TBA

1.2.2
 BDE HQ
 C2PC

DS BTY FDC
 FIRE UNITS
 JTFHQ/JSCE

BG HQ (TAC)
 SUB-UNITS

1.1.1
 BCSS ↔ ACSS/TBMS

1.2.1
 C2PC ↔ BCSS

BDE HQ/ TACP
 SUB-UNITS
 EXTERNAL ASSETS

BG HQ (MAIN)
 SUB-UNITS
 REGT HQ/FDC

2.3.1
 CT HQ
 DTCS

2.2.1
 AFATDS/EMT ↔ DTCS/EMT

JOST/ JTAC
 DS BTY FDC/
 FIRE UNITS

BG JOSCC/ AIROPS
 DS BTY FDC/
 FIRE UNITS/JOST/JTAC

1.6.1
 SECT HQ
 C2CE

1.3.1
 C2PC ↔ C2CE*

DISMTD ELM

CT HQ
 SUB-UNITS

1.4.2
 CT HQ
 FBCB2

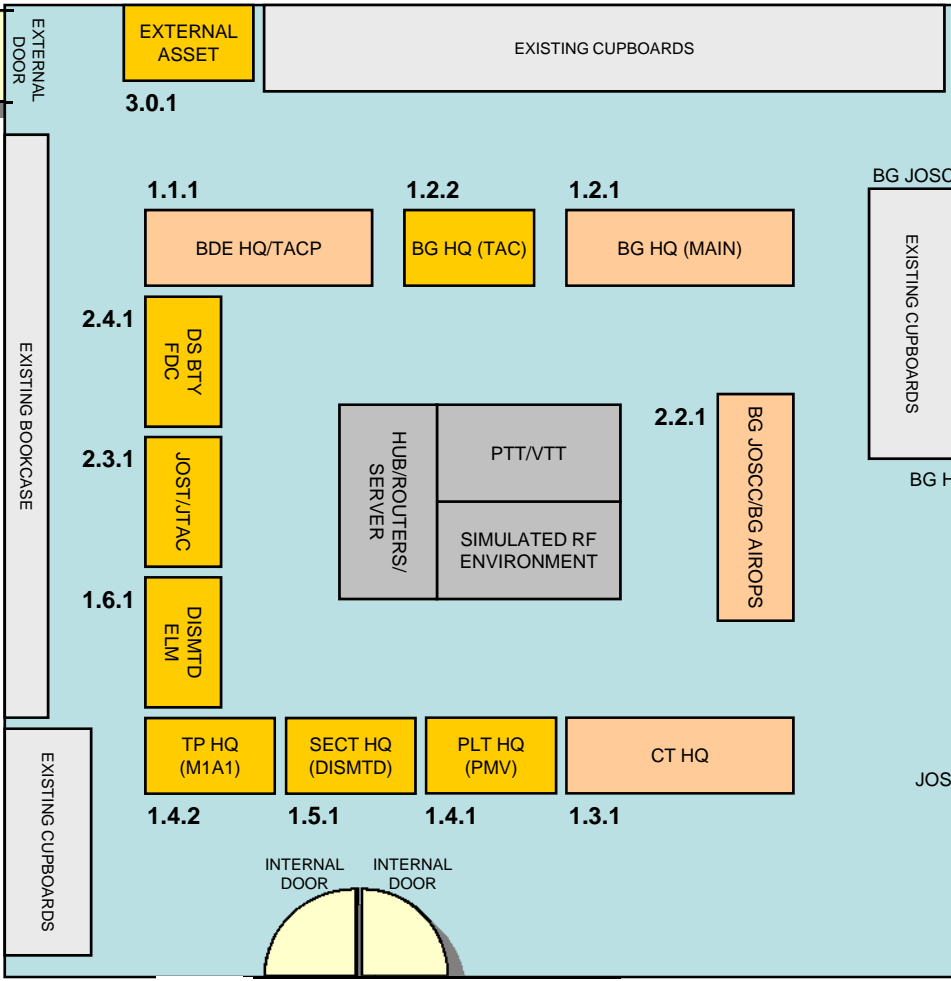
1.5.1
 PLT HQ
 C2CE

1.4.1
 CT HQ
 C2CE

TP HQ (M1A1)
 VEHS

SECT HQ (DISMTD)
 SECT

PLT HQ (PMV)
 SECT



EXTERNAL DOOR

EXISTING CUPBOARDS

EXISTING BOOKCASE

EXISTING CUPBOARDS

BG JOSCC/AIROPS/JOST/JTAC

BG HQ (MAIN)

BDE HQ

BG JOSCC

EXISTING CUPBOARDS

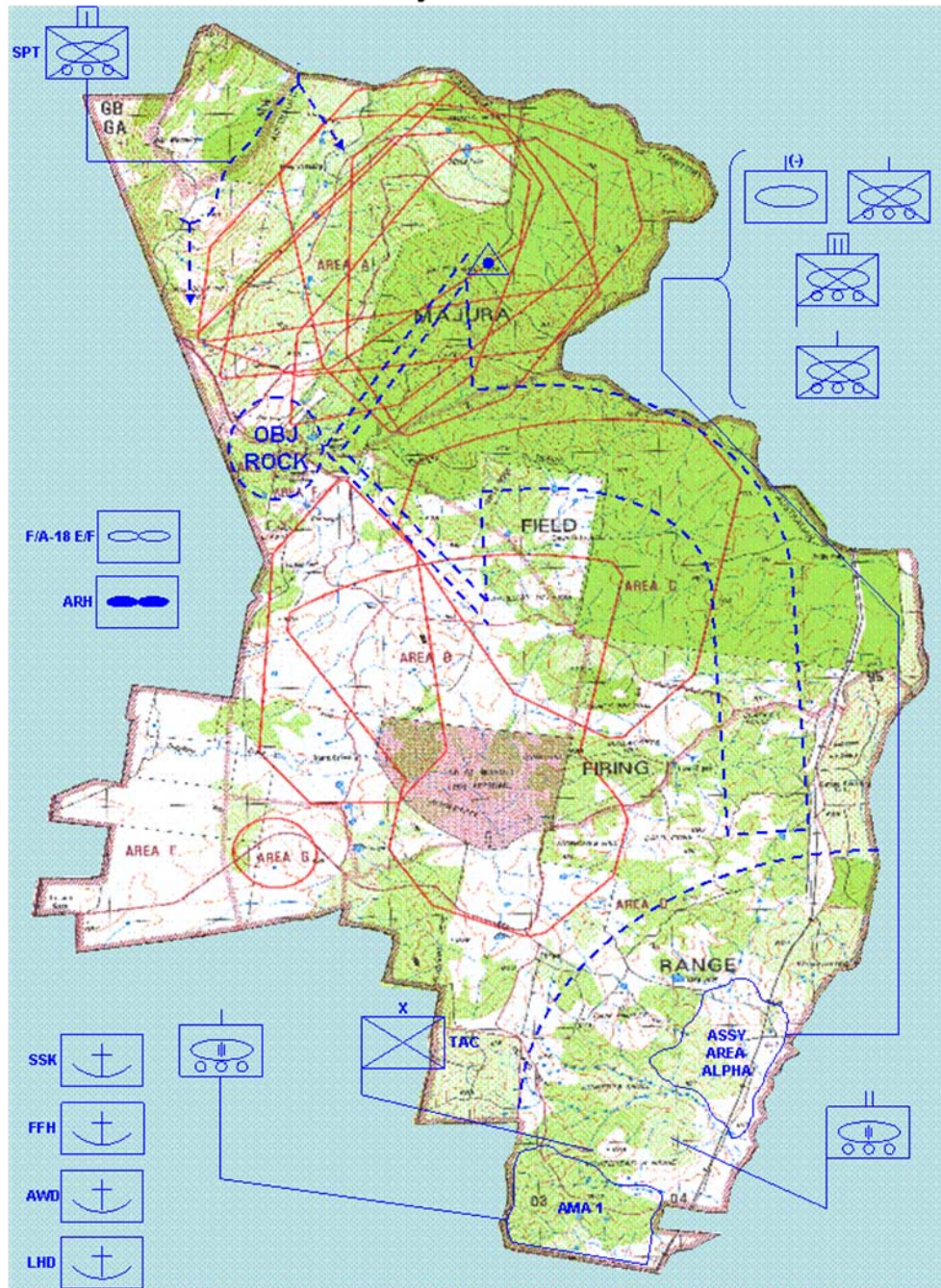
BG HQ

JOST

Scale 1:50

1.X.X C2 MISSION THREAD NODE
 2.X.X JOINT FIRES/OS MISSION THREAD NODE
 X.N.X LEVEL OF HQ DESIGNATOR
 X.X.N NODE DESIGNATOR

Majura Island



What will SISP do?



SISP – Enabling the Network

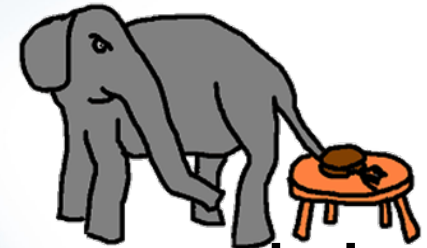
- TIE IO currently holds/can source enough hardware to build a RNBG (exception of AFATDS/ACSS/TBMCS – have a remediation path)
- RF Spectrum Emulator
- As ‘actual’ systems become available, replace ‘representative’ systems in the test-bed
- Establish a capability baseline

What won't SISP do?



SISP – Enabling the Network

- Systems Integration of the Major Systems element of the NCW/NACP milestones
- What won't it do
 - Not focused on solving the remaining FIC elements – someone else's elephant
 - Inform development of the remaining FIC elements (from what we'll learn along the way) but TIE IO isn't positioned to force change



Where are we up to?



SISP – Enabling the Network

- Laboratory floor is configured
- Majority of related procurements are complete
- Strategic partnerships are being put in place (UNSW@ADFA ITEE)
- initial Proof Of Concept (iPOC) activity is currently underway
- On schedule to commence broad scale system tests – first half 09

Key Challenges



SISP – Enabling the Network

- Inherent technical issues
- Aspirational Architecture meets Newtonian Physics contention
- Relative stages of development of constituent DCP Projects (CDLC)
- Wilful obstinacy/optimism/aversion
- Lack of Senior Stakeholder awareness (media plan pivotal to success)

Summary



SISP – Enabling the Network

- Land TIE is the most technically challenging of the physical environments – poorly understood why
- Success (?) from rigidly-managed program level approach
- If Defence doesn't get over the Systems Integration hurdle now – where will it do it (6RAR/IIS)?

Questions?