EAC Comms Restructure:

Integrated Theater Signal Battalion (ITSB)

and redesigned Tactical Installation and Networking Company (TIN)

Information Brief

ITSB Design Participants

NETCOM/9th ASC

SIGCEN

CAC

FORSCOM

TSC(A)s: 5th, 311th, 335th

OCAR / USARC

NGB

BDEs: 1st, 7th, 93rd, 11th, 261st, 359th

Facts

- SAG I CoC (BG Hardy) directed C&W solution and ITSB play in TAA-11
  - Current theater signal structure is vulnerable
  - Too many unique designs/ROAs

- The Army is built for MCOs, not contingencies
  - Contingencies are supported by available assets; design will support

- ITSB / TIN Design Concepts
  - Workgroup developed concept – NETCOM, SIGCEN, OCAR, NGB
  - NETCOM submitted USR/Concept Paper to SIGCEN on 15 Nov 02.
  - SIGCEN must forward to FDD **NLT 1 Dec 02** to play in TAA-11.

Assumptions

- Failure to play ITSB in TAA-11 jeopardizes force structure
- Failure to play ITSB results in significant personnel shortfall for BBNs
- Combatant Commanders will buy into the multi-functional ITSB design and concur during FDU field staffing
- Number of BNs driven by equipment constraints & TAA ROA (FASTALS)

ITSB: Breaking the Paradigm

MCO-W
- 11635 x 9
- 11685 x 1
- 11626 x 3
- 11603 x 1
- 11669 x 1
- 11667 x 2
- 11668 x 2
- 11623 x 8
- 11600 x 2
- 11620 x 1

163 Switches
0 BBN
49 SATCOM
62 TROPO

ITSB Doctrine

MCO-W	MCO-E
• ITSB x 11	• ITSB x 9
•11620 x 1	•11620 x 1
110 Switches	90 Switches
99 BBN	81 BBN
110 SATCOM	90 SATCOM
77 TROPO	63 TROPO

MCO-E
- 11635 x 7
- 11685 x 1
- 11626 x 3
- 11603 x 1
- 11669 x 1
- 11667 x 3
- 11668 x 2
- 11623 x 6
- 11600 x 2
- 11620 x 1

131 Switches
0 BBN
49 SATCOM
78 TROPO

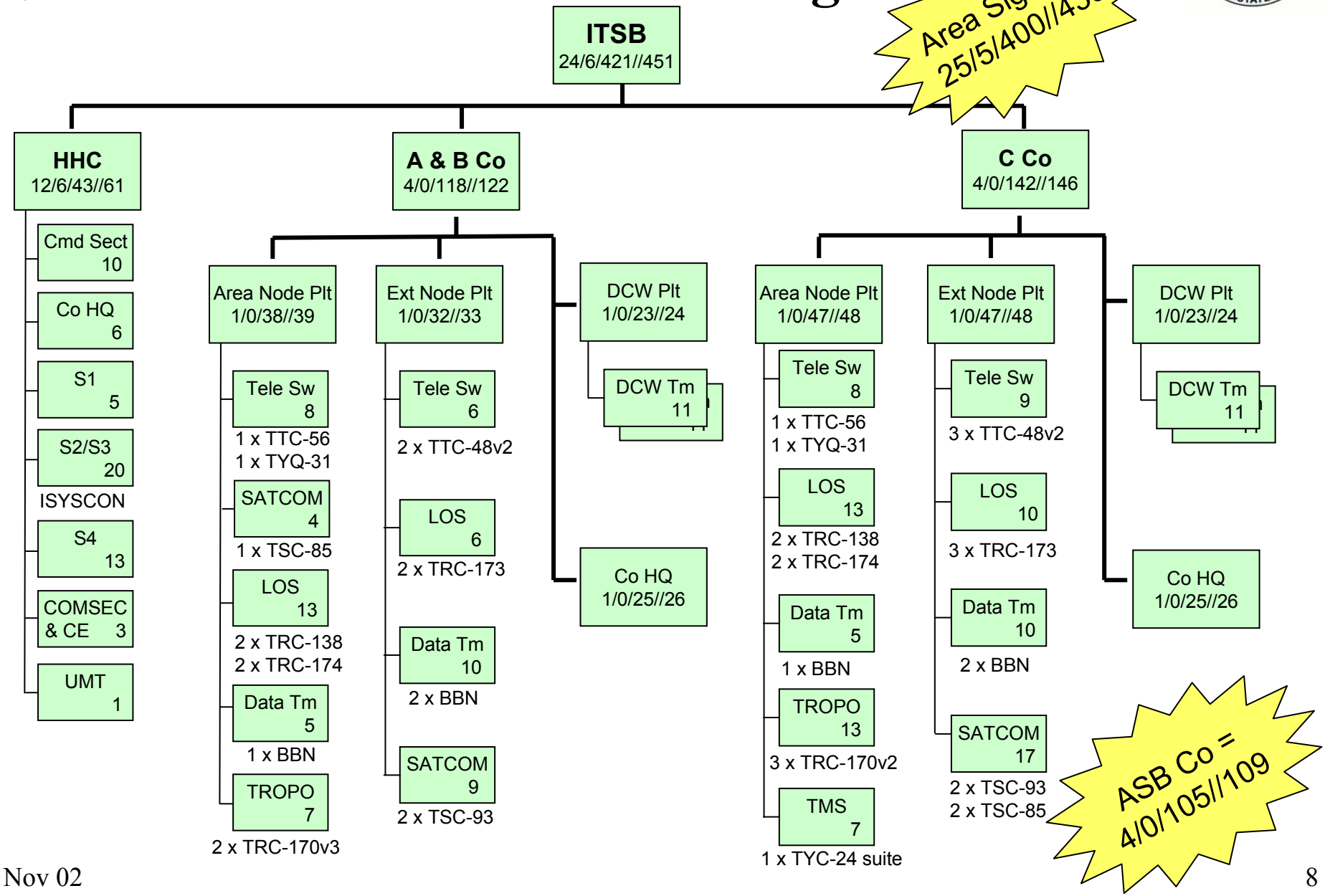
Design Highlights: ITSB

- Current ROAs, OPLANs, TPFDDs, & Doctrine require updating
- Design applicable to all COMPOs
- Provides for a defendable TAA rule of allocation
- Multi-functional to company level (flexible, easily scaleable across the spectrum)
- Incorporates & resources data capability (SSSBBN) and JTF/JFLCC support

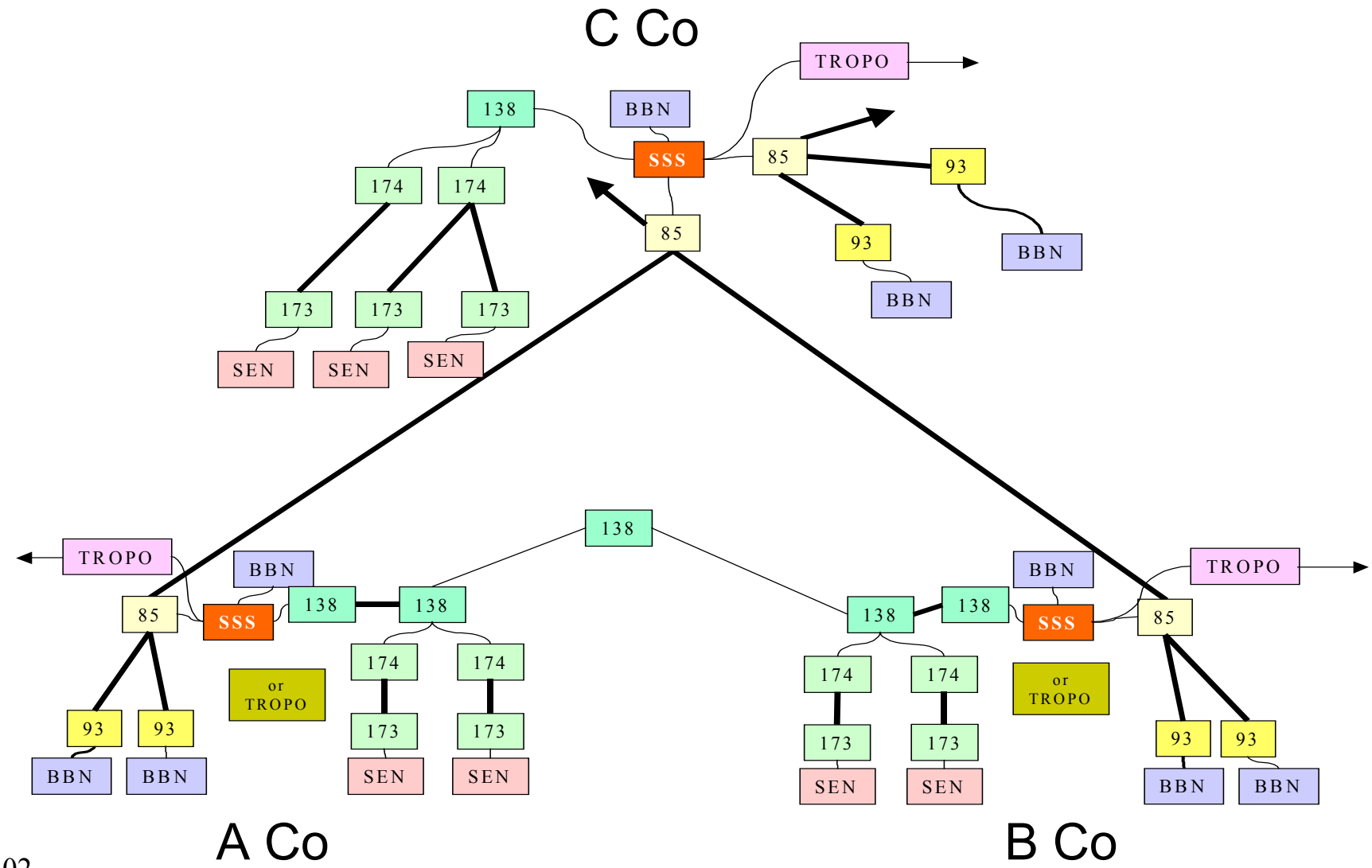
Design Highlights: ITSB (cont)

- Live / train / deploy / lead as a team
- Significantly reduces task organization
- Enhances training opportunities; same structure across EAC
- Facilitates 'unit rotations' to support extended deployments
- Requires inter-theater / intra-theater equipment moves
- System Impacts:
  - ✓ Reduction of SHF LOS
  - ✓ Elimination of NC switches (TTC-47)
  - ✓ Elimination of MSE LOS (TRC-190)
  - ✓ Retention of TROPO

The ITSB Design



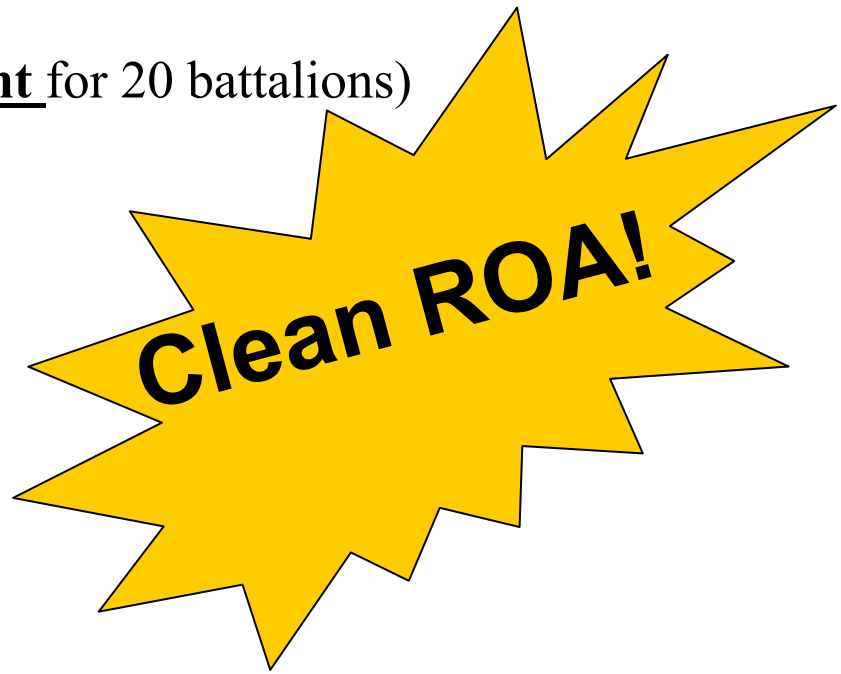
The ITSB Architecture



ITSB Rule Of Allocation

- 1 per JTF HQ
- 1 per ASCC
- 1 per 15 HQs supported

(generates estimated **requirement** for 20 battalions)



Resourcing ITSB's

- P3
- Area Bn
- Cmd Ops Co
- TTSB (V1 & V2)
- Major Sig Spt Co
- Theater Tac Sig Co
- Composite Bn
- Cable & Wire
- Heavy Tropo
- Lt Tropo
- TACSAT

ITSB

TIN, TSMC, COMCAM only functional companies remaining

COMPO 1 = 9 ITSBs

COMPO 2 = 5 ITSBs

COMPO 3 = 4 ITSBs

COMPO 4 = 2 ITSBs

COMPO 2&3 May buy additional battalions

Areas of Concern/Challenges

- Implementation Plan
  - Resourcing
  - Distribution
- Impact on flags
- Impact of two-level maintenance
- RAUs not in design
- TROPO upgrade
- TACSAT for COMPOs 2 & 3
- Funding for BBNs and commercial satellite systems
- Design lash-up with MCO requirements (TAA ROAs)
- Grade match by COMPOs
- Type classification of COTS equipment

TIN Re-Design

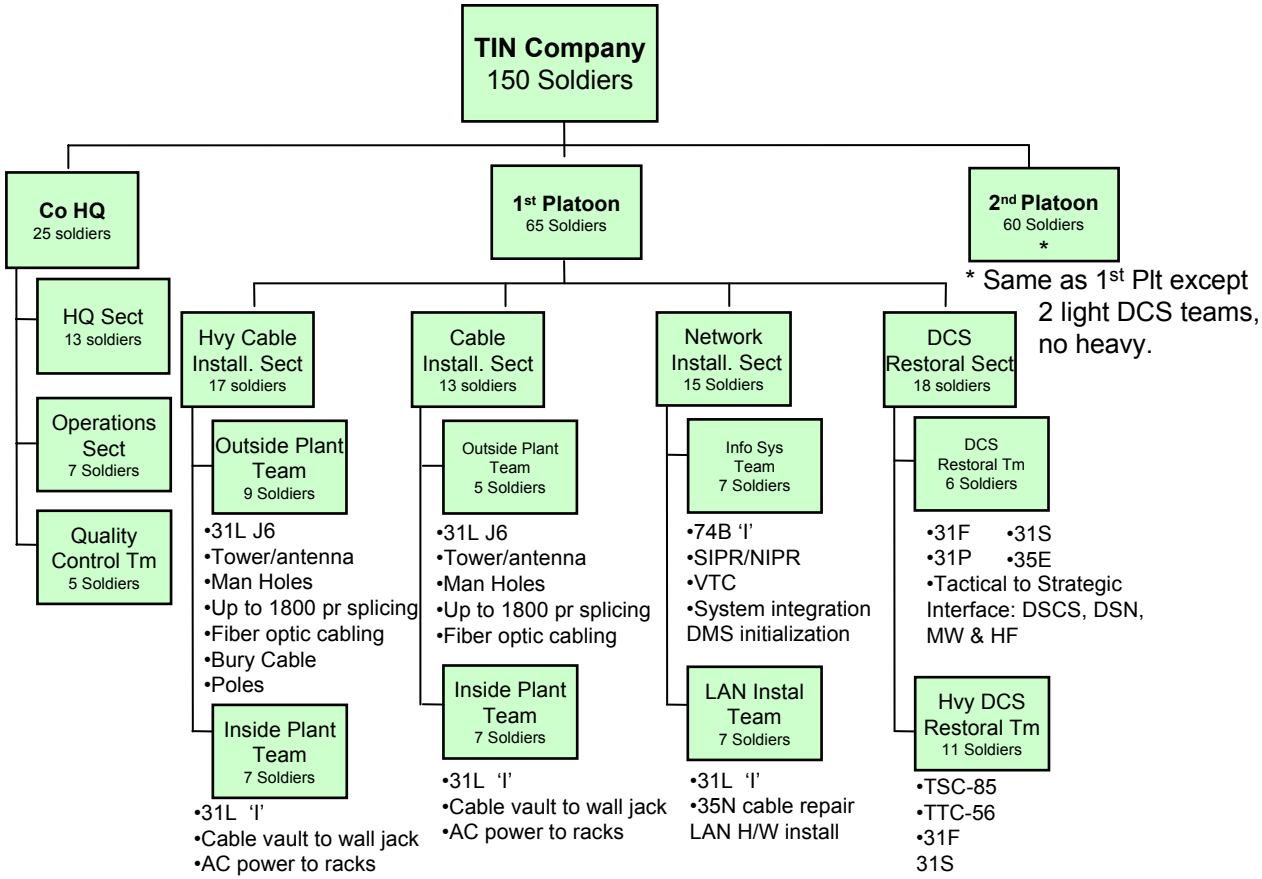
Proposed COA:

- Redesign/Update Tactical Installation & Networking (TIN) Co structure
- Convert the following units to the new TIN Co structure:
  - 69th Sig Co (current C&W Co)
  - 518th Sig Co (current TIN Co)
- Resource data teams for EAC tactical structure (ITSB)

Analysis of COA:

- Updates TIN mission & structure – meets current and expected missions
- 69th and 518th can both respond to world-wide installation missions
- Resources existing, but unmanned, data packages
- Replaces fragmented multi-compo structure with a coherent one
- Eliminates split-basing of 518th Sig Co
- Supported by TAA-09 which identified 2 TIN Co requirements

NETCOM / 9th Army Signal Command



Capabilities added/enhanced in new TIN:

- Inside/Outside Plant – 31L 'J2' and 'Installer' qualified
- Heavy cable equipment
- DCS restoral w/SATCOM and Switch
- Quality Control Team

Capabilities deleted in new TIN design:

- Mail Delivery Clerk: 4 x 71L F5
- ATC Equip Repairer from Tower Team: 8 x 35D
- VI Equip Opr/Mnt from VTC section: 12 x 25R

J2 = new ASI combining F2 "antenna installation" and F6 "cable splicing". I = "Installer" SQI: BIC certified.

Way-Ahead: Documentation Strategy

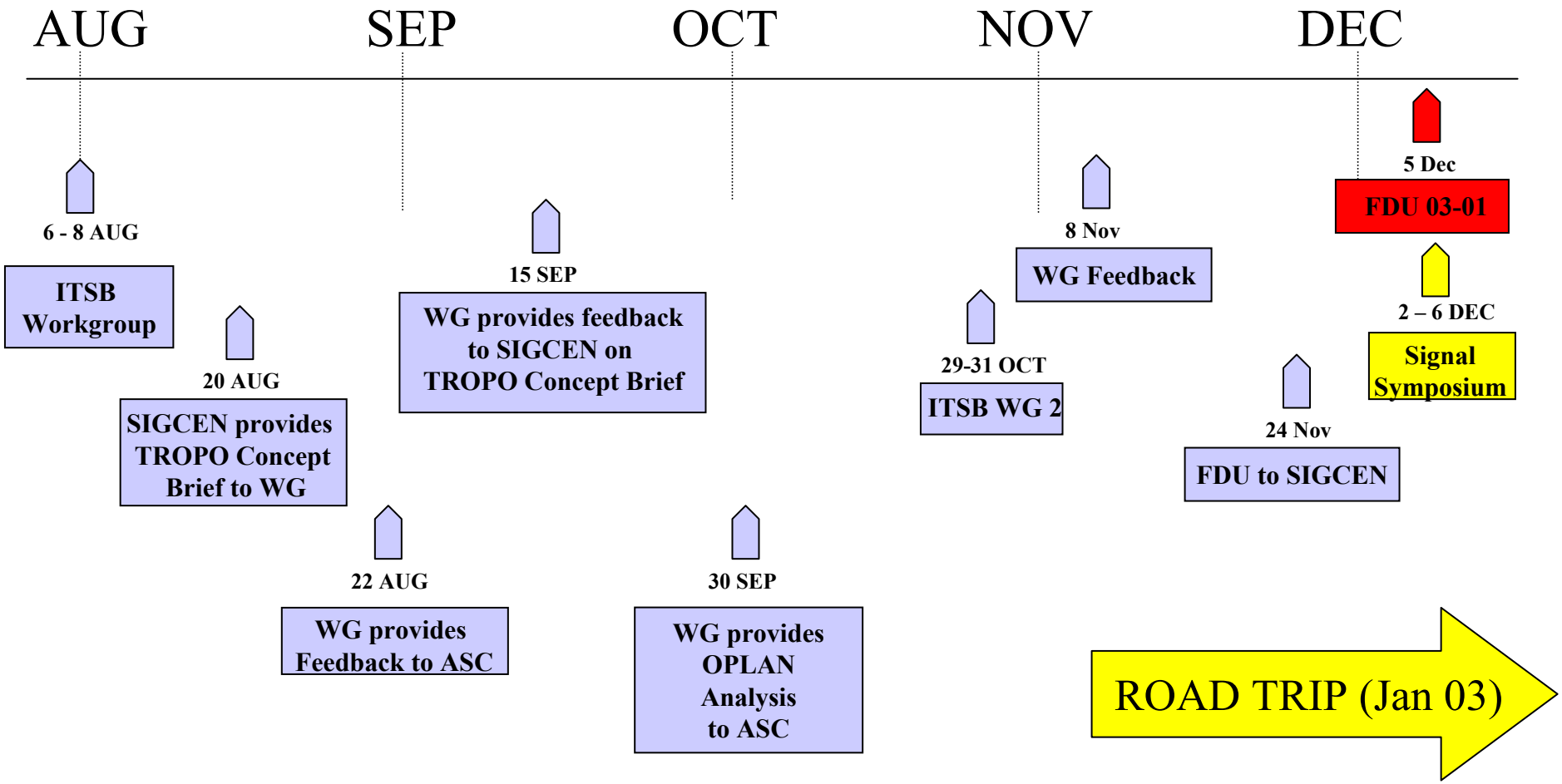
- ITSB & TIN designs submitted in same FDU window (03-01)
- Both designs play in TAA-11
- Products
  - ✓ URS developed, reviewed by Workgroup, sent to SIGCEN
  - ✓ AURS at SIGCEN for development and OCOS validation
  - ✓ SIGCEN submits FDU to CAC (FDD) by 1 Dec
- Concurrent actions
  - ✓ Development of major system & personnel x-walk by COMPO
  - ✓ Development of FDU brief

Way-Ahead: Staffing Strategy

- Signal Symposium (2-6 DEC 02)
- COMPO 2 & 3 endorsement
- Theater endorsement (ASCC & Unified Command)
- DA Buy-in

- Develop common marketing plan & package
- Road trip (pre-FDU field staffing)

Way-Ahead: Timeline



Summary

- MSCs, NGB, OCAR concur with design
  - Main Concern - TACSAT & BBN fielding/cascading
- Requires detailed Implementation Plan
  - Resourcing / distribution / cost / readiness
- Addresses TAA risk
- Concepts must be at FDD NLT 5 Dec 02
  - Concept at SIGCEN
- Need command-level battlefield prep
- TIN & ITSB linked