

Our Army at War – Relevant and Ready

Changing the Regiment to Support The Warfighter



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3 December 2003*

Evolving IT War Fight: A Changed Paradigm

Yesterday.....

....Tomorrow

Linear Operations

Contiguous Areas of Operations

LOS is the major nodal transport media and OTH/Space are "Range Extension" means

OTH/Space is the major transport media and LOS provide spokes radiating within an enclave— from a node

A node...is a node...is a node...

All nodes capable of supporting CPs

All nodes are part of a network matrix

All nodes are part of netops

- Area
- Low
- Large P
- Voice P
- LOS Backbone

•Ubiquitous Transport

Operations
Operations

Full Spectrum Army Environment



Every CP connected all the time– OTM/ATQH, same

The Challenge to the Regiment

- ★ **Operate in a Joint environment**
 - Netcentric
 - GIG Access
- ★ **Scalable, Modular Structure**
 - UA/UE Concept
 - AC/RC Balanced
- ★ **Robust Networks**
 - OTM, ATQH, Sanctuary communications capabilities
- ★ **Resourcing Change in Short Term**
 - Competing Army Requirements
 - Incremental Packaging

Outlook for Change

★ Change inevitable – CSA's Direction is Clear

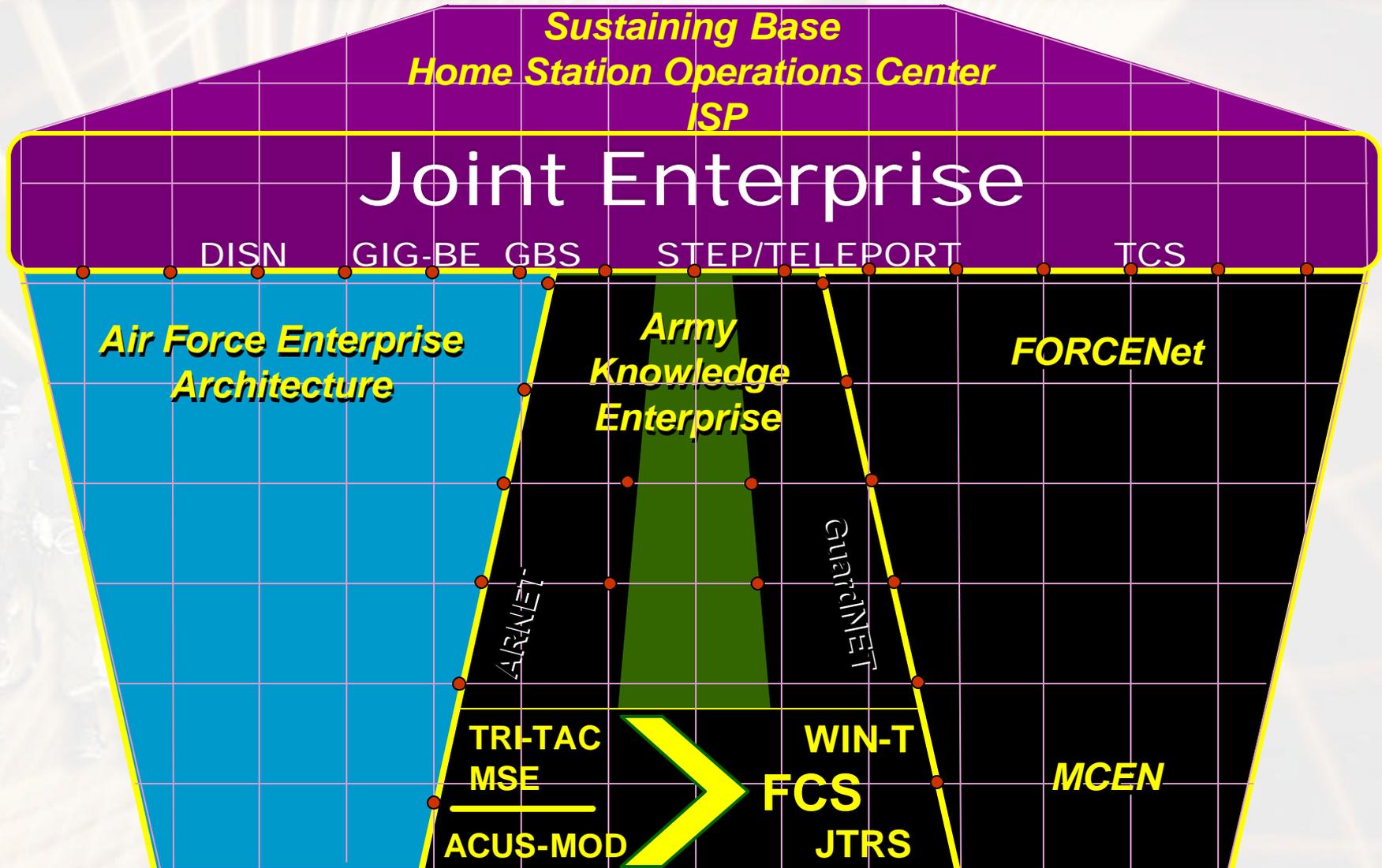
- All units "Relevant and Ready"
- Seamless Network support from soldier to senior leader – anyv

★ We must le

- No "sacr
- Take advantage of opportunity presented
 - Move our capabilities into 21st Century
 - Make our Signal forces essential to Warfighter success
 - Consider available technologies, strategies, techniques (DoD, Services, JCSE, Commercial)

NOW!

Today's Tactical GIG Connectivity



ACUS-MOD Army Common User System Modernization
 DISN Defense Information Switched Network
 JTRS Joint Tactical Radio System

GBS Global Broadcast System
 GIG-BE Global Information Grid Bandwidth Expansion
 MSE Mobile Subscriber Equipment

STEP Strategic Tactical Entrance Point
 TCS Transformational Communication System
 TRI-TAC Tri-Service Tactical (Communications System)

Transforming the Regiment and the Army

Create a Deployable, Scaleable, Modular Signal Force with standardized capability, equipment and training across all Compos.

EAC is well underway

- *ITSB -- Integrated Theater Signal Battalion.*
 - *TIN -- Tactical Installation and Networking Co.*
 - *JCP4 -- Joint C4 Package Signal Support Team.*
 - *NETOPS -- Network Operations Centers at Theater/Army.*
 - *Joint data and satellite capability with multi-functional Bns.*
 - *Requires additional resources.*
- FDUs Approved May 03*

Working ECB ...

- *Joint and improved data and satellite capability for all CPs.*
- *Upgrading "older" technology, inserting Commercial Off The Shelf data and satellite equipment.*
- *E-SENS (Commercial Technology, switches, routers, etc. in S-250 shelters)*
- *Some spaces saved -- but must resource modernizations.*

**3rd ID will be 1st Division
Equipped with Enhanced
Technology Signal
Equipment**

Warfighter Requirements:

Voice
SIPR
NIPR
VTC

Special Circuits (Red Phone, JWICS, etc)

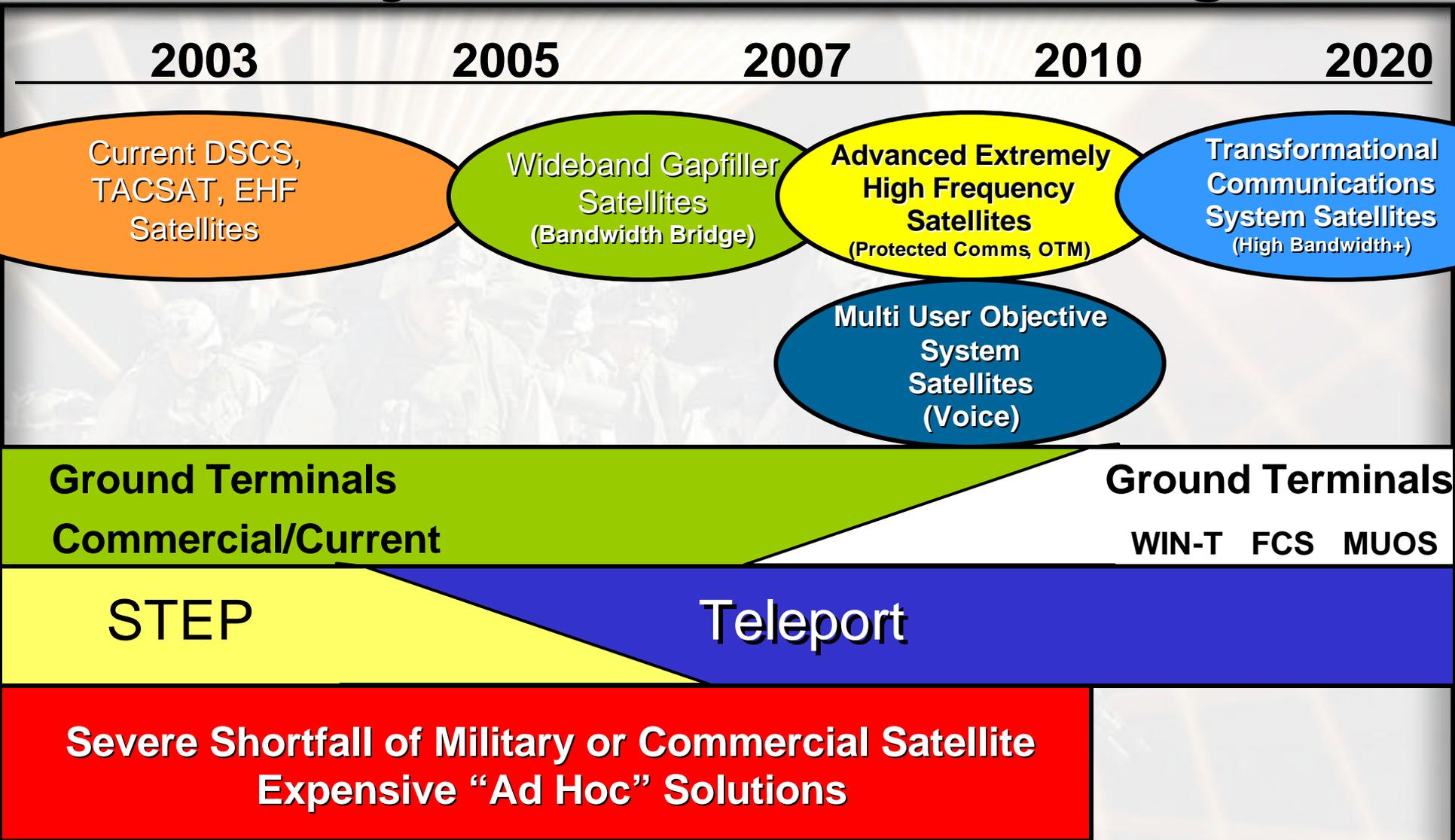
Joint Interoperable



Transforming the Regiment and The Army

- ★ **Short Term – *Bring the Future Force forward***
 - **Focus on 3rd Infantry Division and 101st Air Assault**
 - **Embrace new organization with enhanced Signal Support**
 - **New 3rd ID Signal Organizational Structure**
 - Support Six combat brigades (UA's)
(4 Maneuver, 2 Artillery/Aviation Mix)
 - 33 Battalions (23 CA, 3 CS, 7 CSS)
 - Provide a Signal Company for each UA (6)
 - Provide a Signal Company (-) for DIV Main
 - Not a reshuffle of existing assets
 - **New Equipment**
 - **Enhanced technology networking**
 - OTM
 - ATQH
 - Sanctuary
 - **As we enable 3rd ID/101 AA, seek high payoff opportunities for technology Insertion**
 - **Technology insertion where feasible short term**

Today's SATCOM Challenge



CSA/VCSA Tasking - Provide high capacity communications to mobile ground force Tactical C2 and combat support

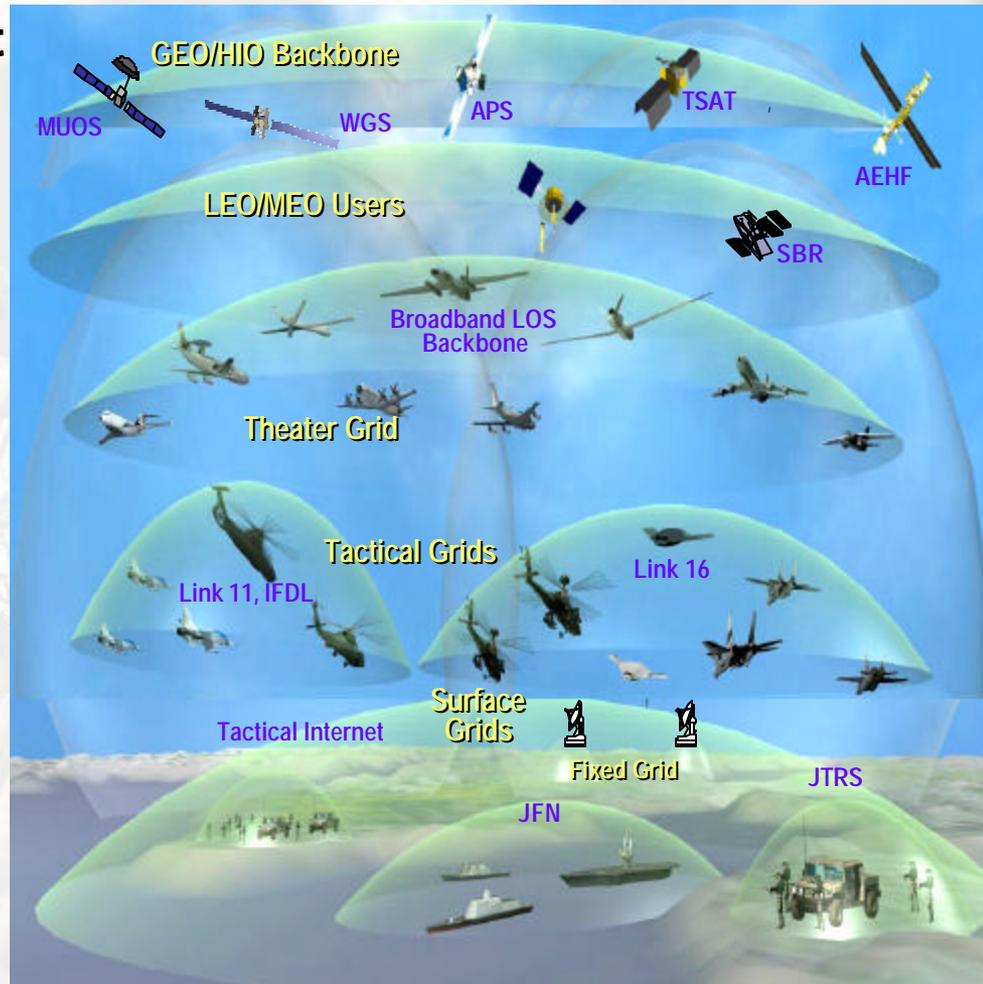
SATCOM Solution Sets

- ★ V CORPS in OIF -- 128Kb
- ★ Task Force – Network’s OTM/ATQH Commercial SATCOM Solution (including “Good Enough” and CSS requirements) -- Up to 432 Kb to BN OTM (Shared per Channel)
- ★ Added Capability Provides needed SATCOM OTM and ATQH bandwidth support down to Bn level. Includes BCOTM (MBCOTM and A2C2S) for the Div Cdr, ADC(M), and Bde Cdr & OTM SA for DTAC, DIVARTY Main, Bde Main/TAC; Bn Main/TAC/CTCP
- ★ Risks:
 - Operational: Low – meets CSS requirements and OTM/ATQH requirements down to Bn level
 - Technical:
 - Phase I - Low – Concept has already been proven
 - Phase II/III - Medium – Development/integration risks
 - Programmatic:
 - Phase I – Low – More difficult to meet initial 18 month fielding timeline
 - Phase II/III - Medium – Convergence/synchronization of parallel SATCOM and BCOTM system efforts

Long Term Satellite Plan

Transformational Communications

- Vision: an internet-like transport architecture between space, air and ground nodes
 - Integrated Space, Air and Ground Networks
 - Global access to deployed / mobile Users
 - Timely delivery of air and space data to Theater and CONUS
 - Critical Element of the Global Information Grid (GIG): RF and laser communications network



Goal: Remove Communications as a constraint to the user

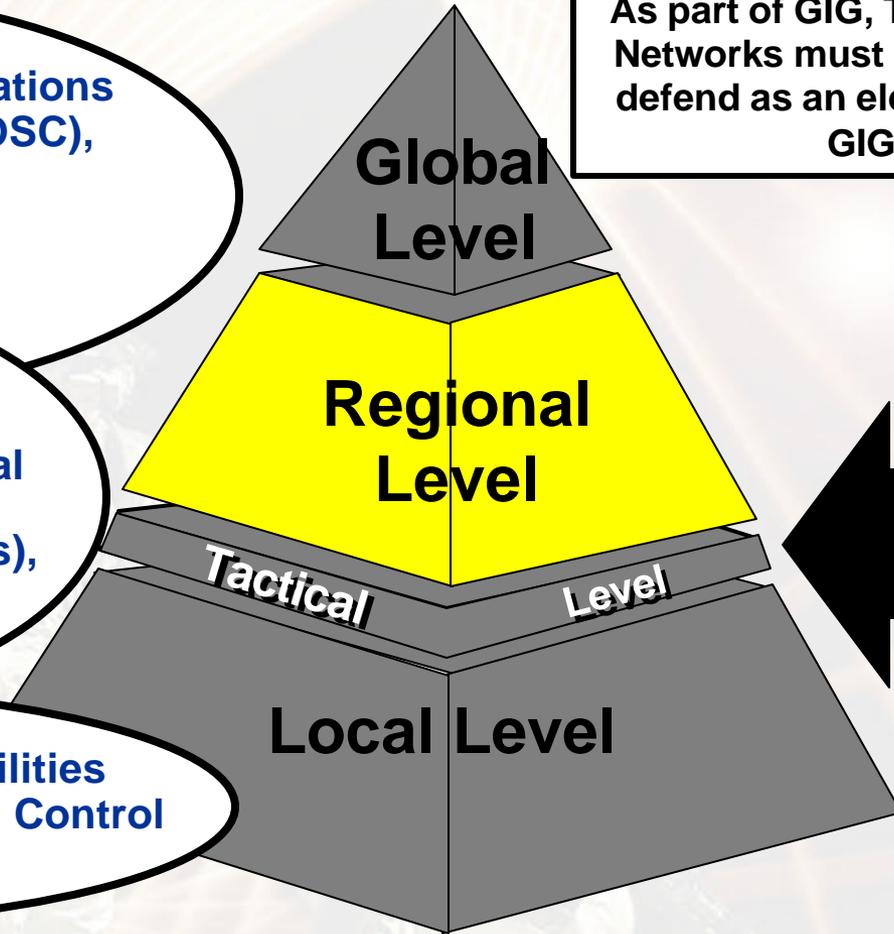
Tactical Networks and Global Netops

DISA Global Network Operations and Security Center (GNOSC),

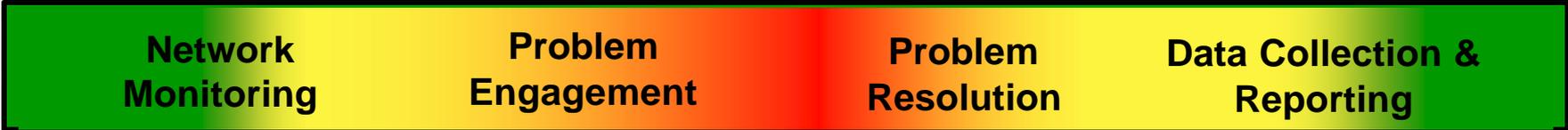


DISA and Service Regional Network Operations and Security Centers (RNOSCs), Theater NOSCS

Components, Agency Facilities Network Management - Local Control Centers



As part of GIG, Tactical Level Networks must manage and defend as an element of the GIG



Signal Transformation

★ Over a Longer Term

- **Completely Restructure and Enhance Signal Regiment**
 - **All Components – Balanced**
 - Active
 - Reserve
 - **Like capabilities in each echelon**
 - Switches, routers, transport, etc.
 - Modular capabilities
 - All equally deployable
 - **Same Training for all soldiers regardless of echelon or component**



Not Just Changing Equipment

★ Warrior Ethos Applies

- **Common Soldiers Skills merging Signal and Warfighter**
 - Embedded Communications will drive changing skills/training paradigm
 - Radio Operator, computer operator
- **SOF skills/training model for Signal Soldiers**
 - Two or more “primary duties”
 - Skilled in several “MOS’s”
 - No single skill “Specialists” – multi-faceted Signaleer

★ Training Same for all Echelons

- **Strategic-EAC-ECB**
- **Technologies/capabilities same throughout Regiment/Theater**
- **Streamlined – Units get soldiers with basic skill sets and then refine**

Summary

- ★ **Our Regiment, Relevant and Ready**
- ★ **We must Change to stay relevant and meet CSA intent**
- ★ **Not waiting for Future Force – must change now**
- ★ **Making 3rd ID and 101st AA successful – short term priority and our measure of Success**
- ★ **Long Term – entire Signal Regiment Transformed**
- ★ **Warrior Ethos**

Questions?

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