Force XXI Battle Command Brigade And Below (FBCB2)

23-25January 2001

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TSM Force XXI (FBCB2)

FBCB2 and the Digitized Battlefield

Integrated FBCB2 S/W

BDE

BN

CO

PLT

MCS/P FBC
ASAS FBC
AFATDS

R
INC
EPLRS

BdeTOC

BDE NET

Bn TOC

ASIP SINCGARS — Handset

INC

EPLRS

M1A2SEP

Integrated FBCB2 S/W

GPS

BN NET (EPLRS)

Bn CDR

ASIP SINCGARS — Handset

INC

EPLRS

APPLIQUE

GPS

CO CDR

XO

PLT SGT

PLT NET (SINCGARS) Voice and Data

Plt Ldr

WG

WG

APPLIQUE

INC

ASIP SINCGARS

GPS
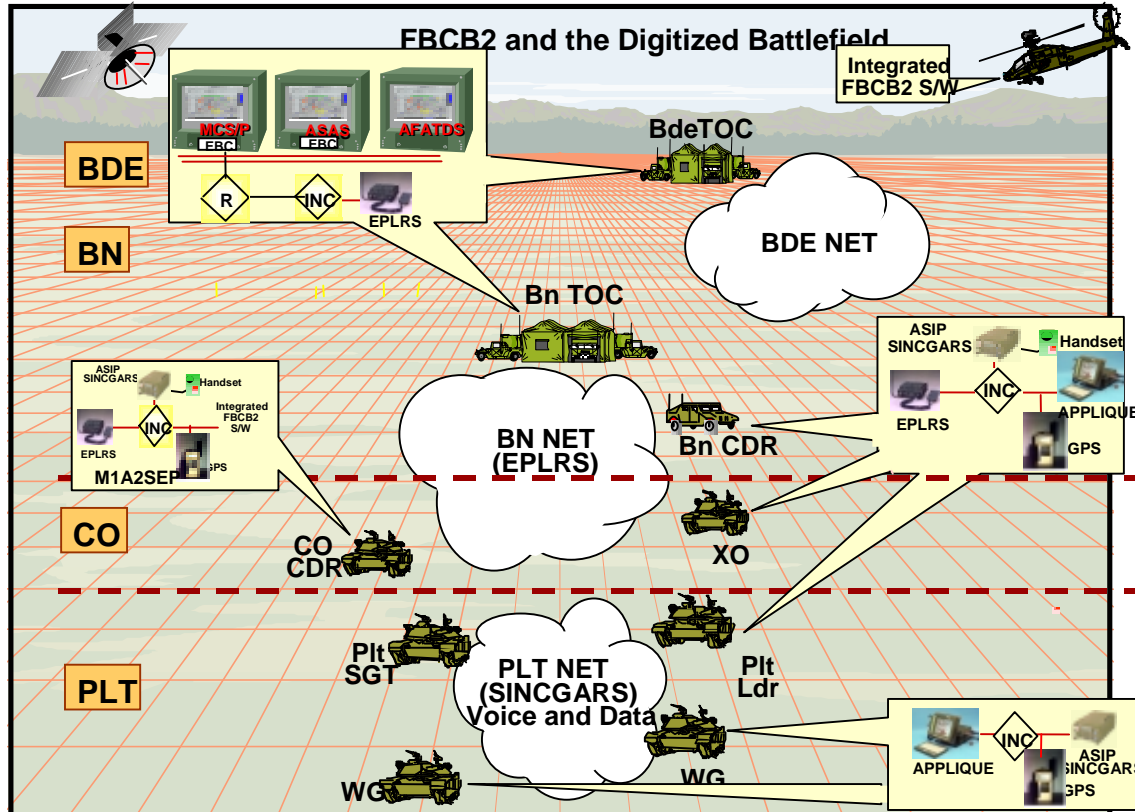
Provides the Power of the Network to Share Situational Awareness (SA) and Command and Control (C2) Information Toward the Efficient Use of Resources within the Enemy's Decision Cycle
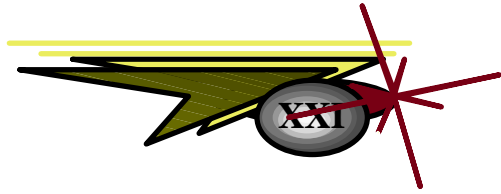
Agenda

- **System Characteristics**

- **Schedules and Plans**

- **Current Training Tools**

  - **NET Foundation Products**

 - **Embedded Capabilities**

- **Future Training**

- **Summary**
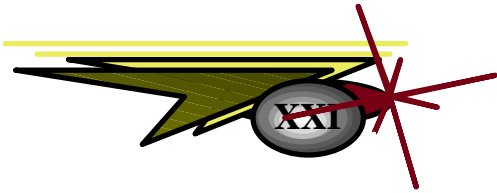
System Characteristics

FORCE XXI BATTLE COMMAND BRIGADE AND BELOW (FBCB2)

- **Digital Command and Control System for the Army at Brigade and Below**

- **Consists of Applique hardware and software integrated into the various platforms at Brigade and Below, as well as appropriate Division and Corps slices necessary to support Brigade operations**

- **Dependent upon a communications infrastructure called the Tactical Internet (TI), made up of existing EPLRS and SINCGARS radios to pass Situational Awareness (SA) data and Command and Control (C2) messages**
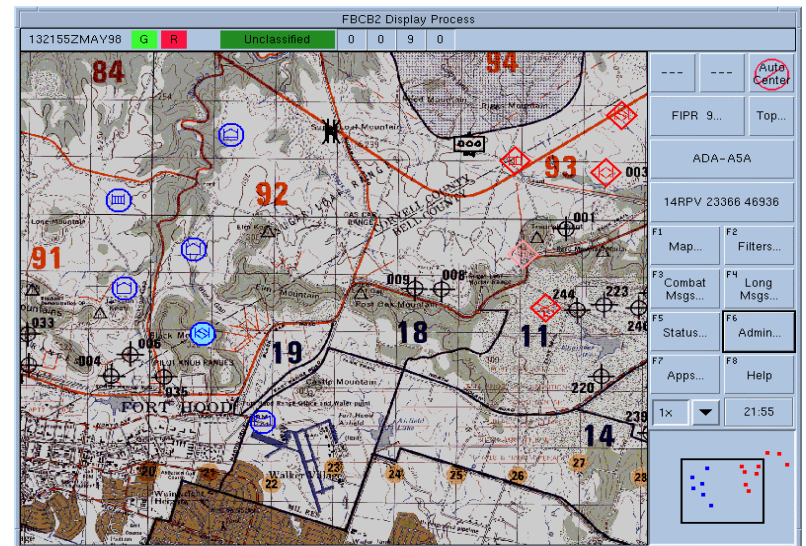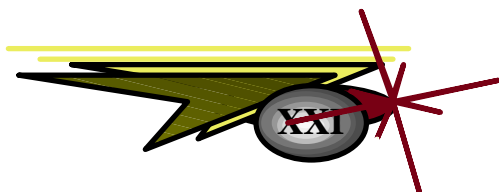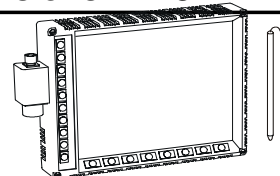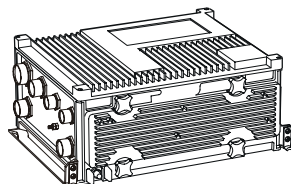
FBCB2
Computer Set, Digital
AN/UYK – 128 (V)

Weight: 26.1 lbs   Dimensions: 12.5W X 10.2H X 19.7D

PROCESSOR UNIT (PU)

Computer, Digital

DISPLAY UNIT (DU)
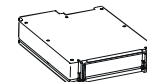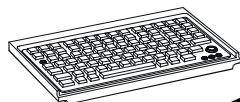**Display Unit**

10" DISPLAY
used on the AN/UYK-128(V)1
or
12: DISPLAY
used on the AN/UYK-128(V)2

KEYBORD UNIT (KU)
Keyboard, Data Entry
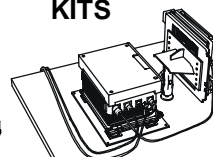
REMOVABLE HARD DISK DRIVE CARTRIDGE (RHDDC)
Disk Drive Unit

VARIOUS INSTALLATION KITS

TECHNICAL DOCUMENTATION

TB 11-7010-326-10 (Pocket Guide)
TM 11-7010-326-10 (User Manual)
TM 11-7010-326-20&P (Unit)
TM 11-7010-326-30 (DS)
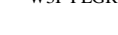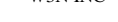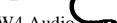TB 11-7010-326-30 (Warranty)
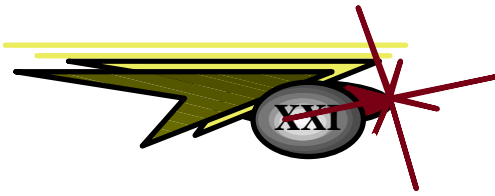
W1 Power

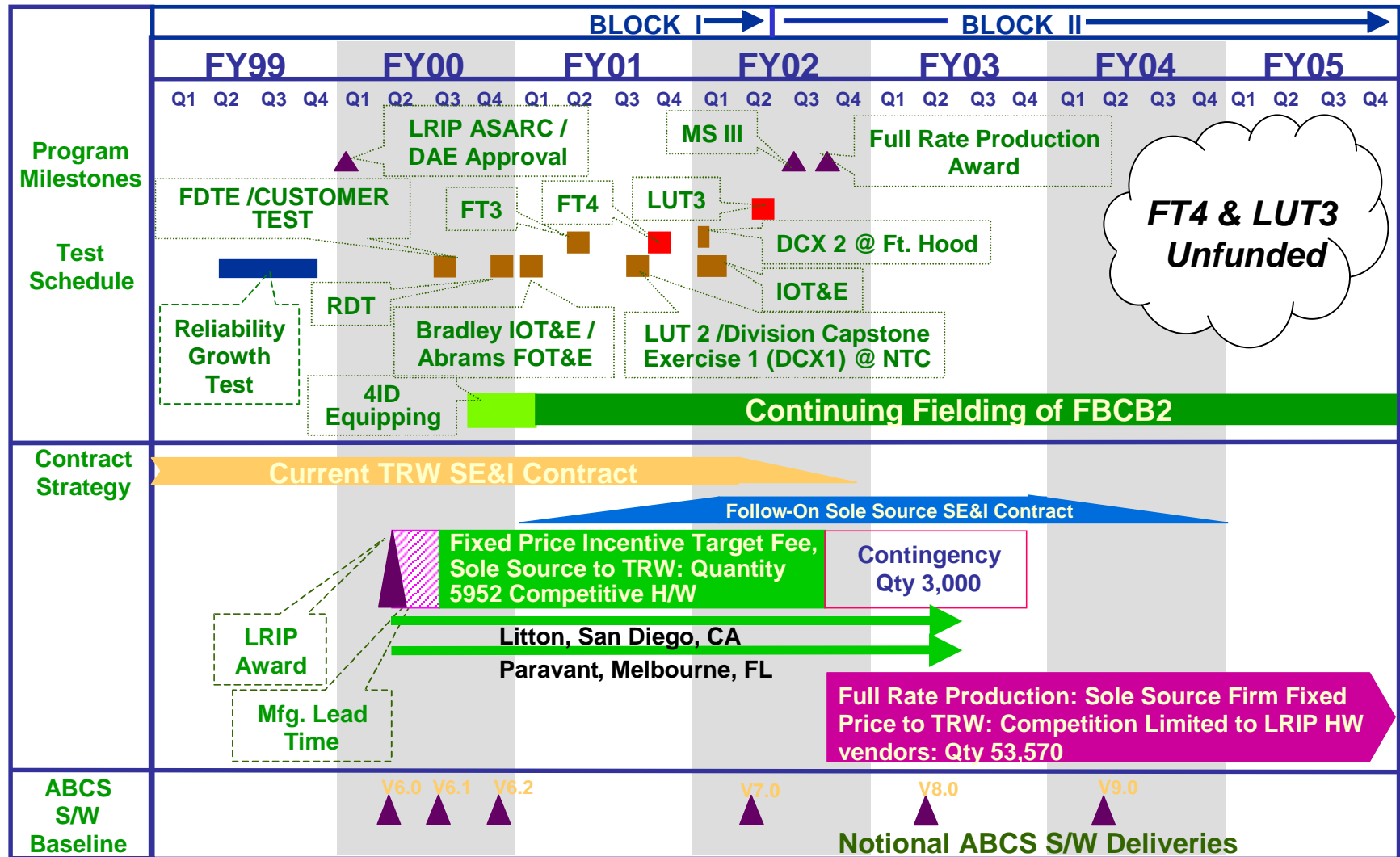W3P PLGR

W2 Display

W3N INC

W4 Audio   SIAD

TB 11-7010-326-20

BATTERY, RECHARGEABLE

BB-388/U

Program Schedule

	FY99	FY00	FY01	FY02	FY03	FY04	FY05

BLOCK I → BLOCK II →

Program Milestones

LRIP ASARC / DAE Approval

MS III

Full Rate Production Award

Test Schedule

FDTE /CUSTOMER TEST

FT3 · FT4 · LUT3

DCX 2 @ Ft. Hood

FT4 & LUT3 Unfunded

RDT

Reliability Growth Test

Bradley IOT&E / Abrams FOT&E

IOT&E

LUT 2 /Division Capstone Exercise 1 (DCX1) @ NTC

4ID Equipping

Continuing Fielding of FBCB2

Contract Strategy

Current TRW SE&I Contract

Follow-On Sole Source SE&I Contract

Fixed Price Incentive Target Fee, Sole Source to TRW: Quantity 5952 Competitive H/W

Contingency Qty 3,000

LRIP Award

Litton, San Diego, CA
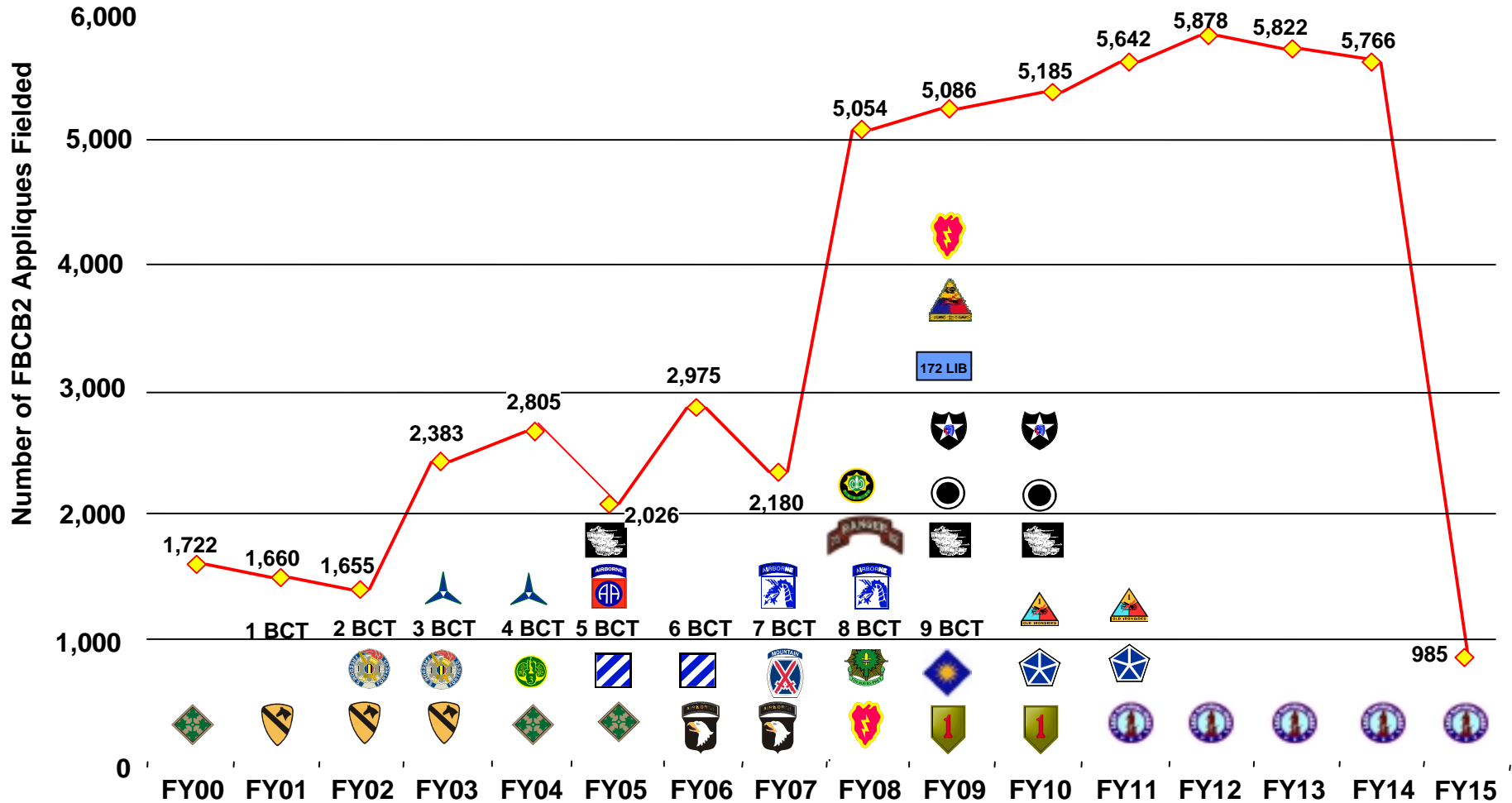
Paravant, Melbourne, FL

Mfg. Lead Time

Full Rate Production: Sole Source Firm Fixed Price to TRW: Competition Limited to LRIP HW vendors: Qty 53,570

ABCS S/W Baseline

V6.0 · V6.1 · V6.2 · V7.0 · V8.0 · V9.0

Notional ABCS S/W Deliveries

Production & Fielding Plan

Current Training Tools
NET Foundation Products

Potential for _every_ TRADOC location
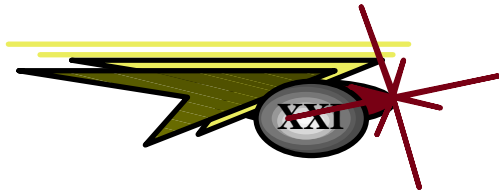
General Purpose Users

- Course requires the infrastructure of the CTSF

- 35 hours of instruction time

- Supports combination of "green and white boxes" hands on

- Conducted by select unit Instructors and Key Personnel

- FBCB2 provided Subject Matter Experts to supplement IKP

- Integrated with SINCGARS/EPLRS for Systems Approach

- Scenario based roles embedded in Practical Exercises (PE's)
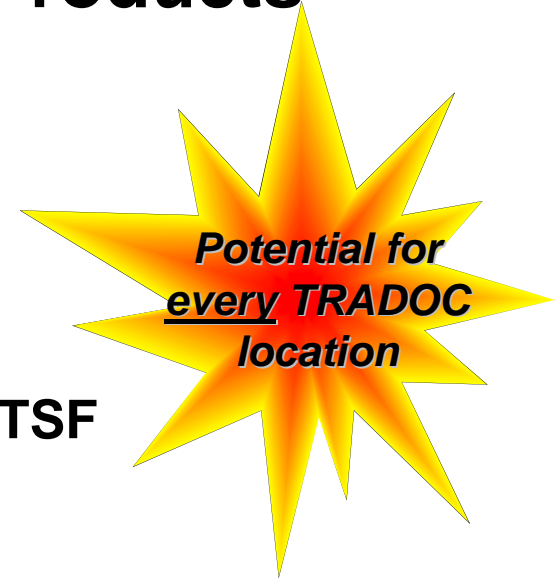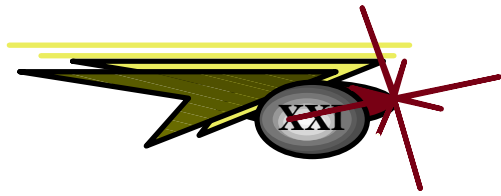
Current Training Tools
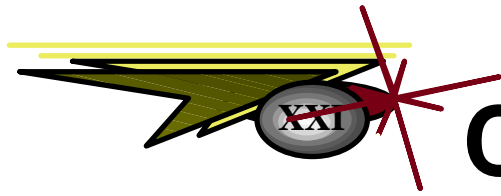## NET Foundation Products
(Continued)

Leaders Course

- Course requires the infrastructure of the CTSF

- 24 hours of instruction time

- Focuses FBCB2 operations with emphasis on the role of the lower TI as a force enabler

- Supports combination of "green & white boxes" for hands on

- Conducted by FBCB2 Prime Contractor

Possible Tradoc Applications
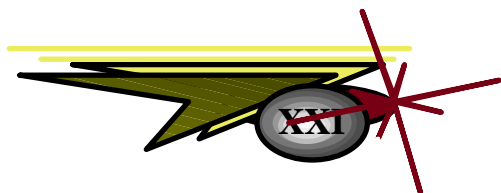
Current Training Tools
NET Foundation Products
(Continued)

Unit Maintainers

- Course requires the infrastructure of the CTSF

- 35 hours of instruction time

- Supported with "green boxes"

- Focuses on a platform environment

- Conducted by FBCB2 Prime Contractor

- FBCB2 provided Subject Matter Experts to supplement IKP

- Integrated with SINCGARS/EPLRS for Systems Approach

Proponent
SIGNAL SCHOOL
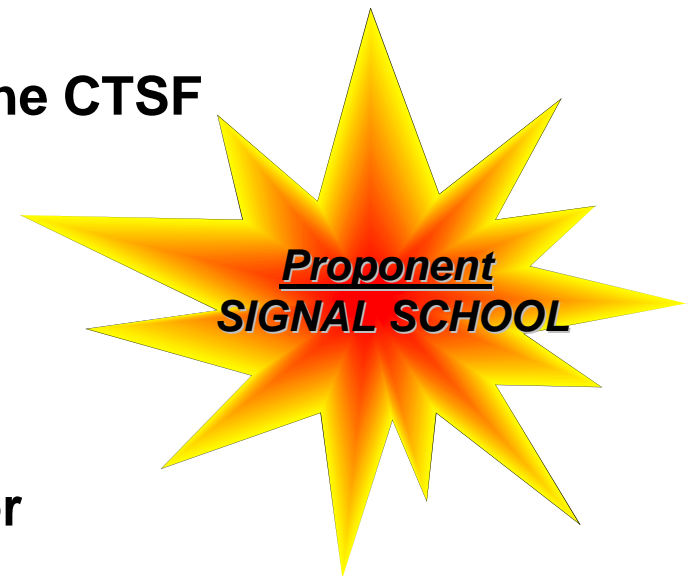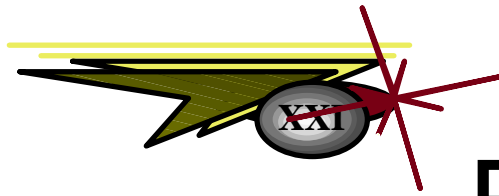
Current Training Tools
NET Foundation Products
(Continued)
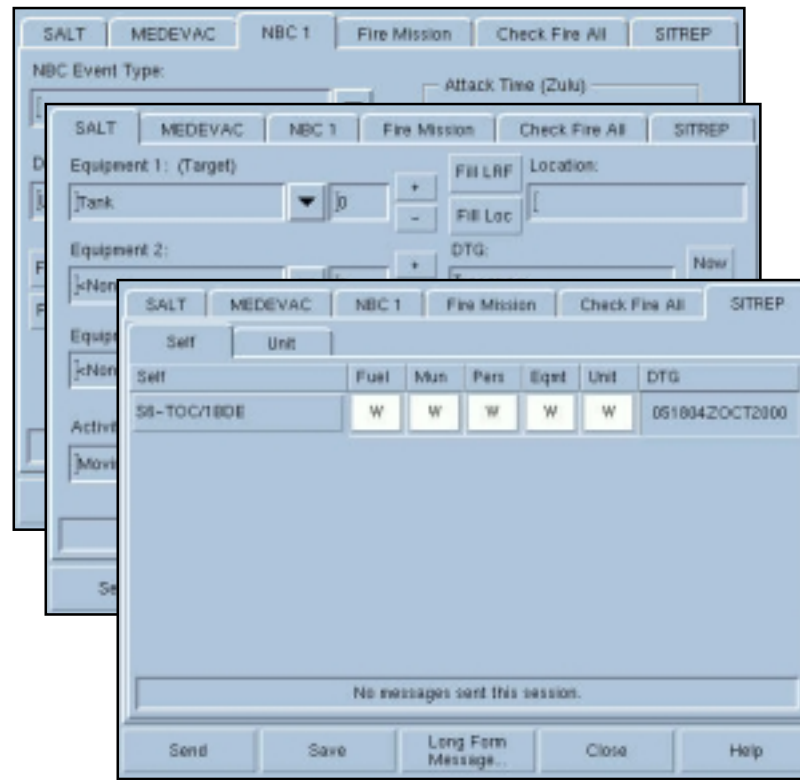
Direct Support Maintainers

- **Trains the limited organic tasks for the DISCOM**
    - **Duplication of drives**
    - **Charging of BB-388/U Batteries**

- **Conducted by FBCB2 Prime Contractor**

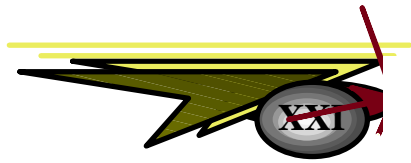*Proponent*
ORDNANCE CENTER
& SCHOOL

Embedded Capabilities

- **Context Sensitive "Help" Menus**
- **Embedded Tutorials**

Future Training Investment Objectives

- Low overhead - No CTSF or live lower TI

- Simulation/Stimulation with reality

- Modest investment to build

- Low production and refreshment costs

- Incorporated into new Systems Engineering & Integration Contract (new capabilities)

Can Material Developer objectives and resulting solutions have utility for TRADOC?
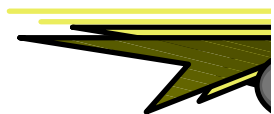
Potential FBCB2 Training Investments

FBCB2 Internet Information Portal

- Program Description
- Resources
- Training Status
- Downloadable Documentation
- Links to School Houses and Affiliations

Web-Based Delta Training

- Cost-effective alternative to scheduling classrooms and soldiers
- Screen captures and Screen CAMS
- Use of simulation to train more complex skills
- ADL compliant for delivery over the Army's DD2-N Training Sub-system Architecture
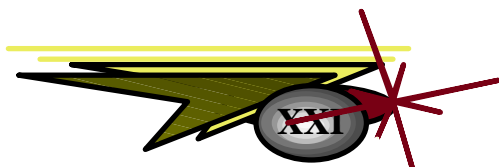
Sustainment Training for GPU

- Integration of existing communications CBT(EPLRS) with FBCB2, addressing range of tasks
- High fidelity emulation of H/W and S/W
- Built in scenario generator for PE's
- Linkage to ETM
- Web-based, CD-ROM
- ADL compliant for delivery over DD2-N Training Sub-system Architecture.

Scenario Generator

- Scenario driven missions based upon proponent driven scenarios
- Role oriented, for specialization across proponents
- Feedback and on-line AAR driven
- ADL compliant over DD2-N architecture

Institutional FBCB2 Training

- **Force sustainment training starting in FY02**

- **Training Base Infrastructure required (Surrogate Equipped Classrooms at Schools and Centers**

- **FBCB2 Equipped platforms for Leader tactical training at Schools and Center**

- **Familiarization Operator Training**

- **Leader Development Training BNCOC, ANCOC, Basic Course**

- **CPTS Course teach Battle Staff FBCB2 and ABCS Leaders skills**

Schools and Centers will Require Equipped Classrooms and Platforms