SSM

Savunma Sanayii Müsteşarlığı

INTERNATIONAL DATA LINK SYMPOSIUM 2007

TURKISH NATIONAL UPDATE

Umur ÇAĞLAYAN

AGENDA

- AVAILABLE TURKISH ARMED FORCES (TAF) TACTICAL DATA LINK CAPABILITIES
- LINK-16 MODERNIZATION PROGRAM
- FUTURE TDL CAPABILITIES PLANNED
- TURKISH APPROACH TO INTEROPERABILITY ISSUES

Link 1 Capabilities

TURKISH ARMED FORCES TACTICAL DATA LINK CAPABILITIES: AVAILABLE CAPABILITIES

- **LINK-1 CAPABILITIES**

  - ✓ Ship Shore Ship Buffer
  - ✓ NATO Control Reporting Center / Control Reporting Point
  - ✓ National Control Reporting Center / Control Reporting Point
  - ✓ **SKYWATCHER Air Defence Early Warning and Command Control**
  - ✓ **Turkish Mobile Radar Complex (TMRC)**
  - ✓ Combined Air Operations Center (CAOC)

Link 11/11B Capabilities

TURKISH ARMED FORCES TACTICAL DATA LINK CAPABILITIES: AVAILABLE CAPABILITIES

- **LINK-11 CAPABILITIES**
  - ✓ National Control Reporting Center / Control Reporting Point
  - ✓ **Frigates**
  - ✓ Corvettes
  - ✓ Assault Boats
  - ✓ **Sea Hawk Helicopter**
  - ✓ **Maritime Patrol Aircraft**
  - ✓ Ship Shore Ship Buffer
  - ✓ **Turkish Mobile Radar Complex (TMRC)**

IJMS Capabilities

TURKISH ARMED FORCES TACTICAL DATA LINK CAPABILITIES: AVAILABLE CAPABILITIES

- **Turkish Armed Forces is using IJMS**

  ✓ to exchange tactical data between NAEGIS (NATO Air Borne Early Warning Ground Integration System) and AWACS - Peace Eagle

- **IJMS CAPABILITIES**

  ✓ NAEGIS (NATO Air Borne Early Warning Ground Integration System)

  ✓ AWACS - Peace Eagle

Link-16 Modernization Program

LINK 16 MODERNIZATION PROGRAM

- **Link-16 Modernization Program Scope:**

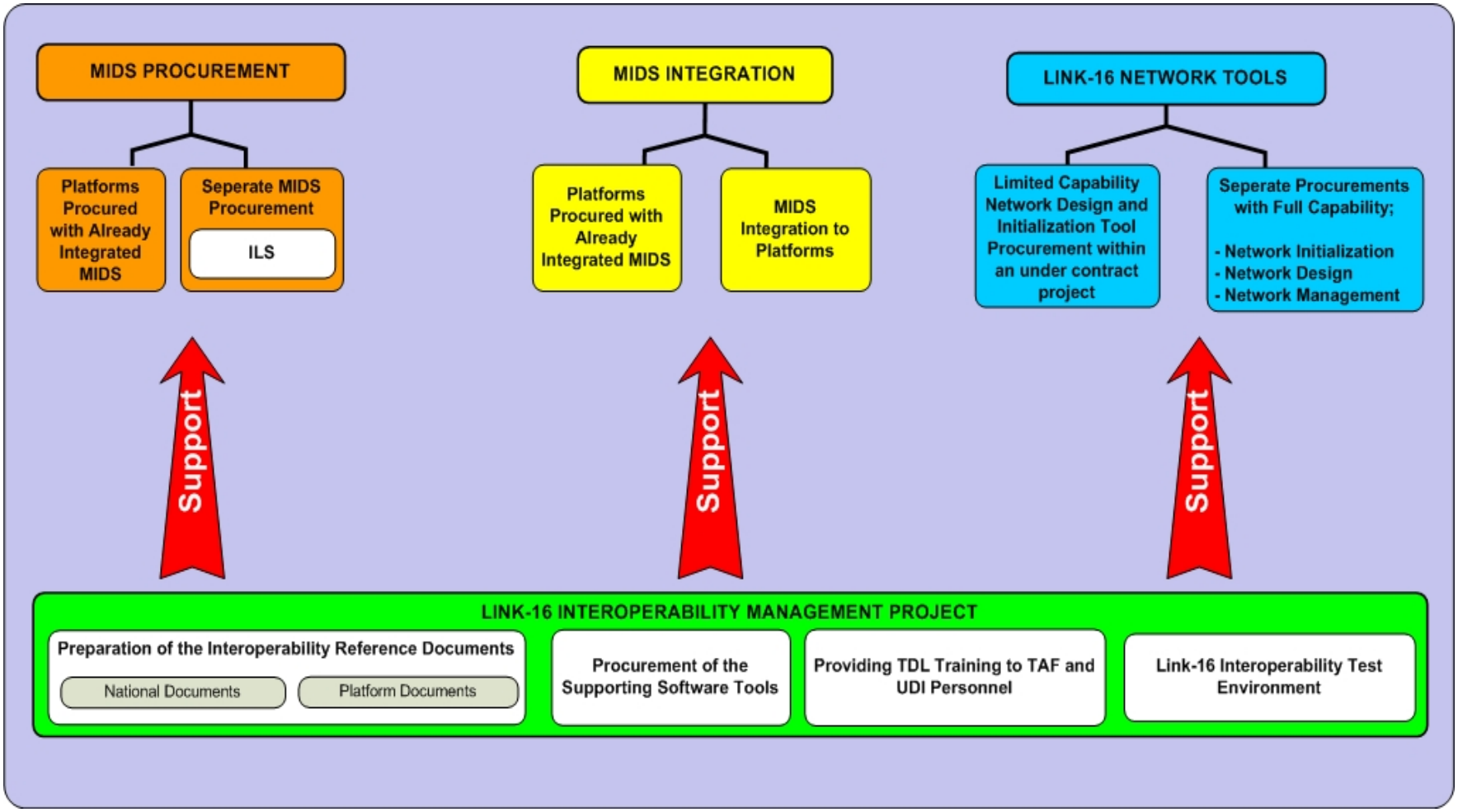
  ✓ Modernization of the current platforms with Link-16 Terminals and necessary enhancements

  ✓ Integrating the built-in Link 16 capable platforms

  ✓ The Establishment of Network Planning, Design, Initialization and Network Management Facility

  ✓ Link-16 Interoperability Management

LINK 16 MODERNIZATION PROGRAM



LINK 16 MODERNIZATION PROGRAM

- **PLANNED LINK-16 CAPABILITIES**
  - ✓ **SKYWATCHER Air Defence Early Warning and Command Control**
  - ✓ **Perry-Class Frigate**
  - ✓ **TF-2000 Frigates**
  - ✓ Landing Platform Dock
  - ✓ Maritime Patrol Aircrafts
  - ✓ Combined Air Operations Center (CAOC)
  - ✓ NATO Control Reporting Center / Control Reporting Point
  - ✓ National Control Reporting Center / Control Reporting Point

LINK 16 MODERNIZATION PROGRAM

- ✓ **KC-135**
- ✓ **C-130**
- ✓ F-16
- ✓ AWACS (Peace Eagle)
- ✓ A-400M
- ✓ **COUGAR**
- ✓ **F-4 E2020**
- ✓ JSF

A MODERNIZATION APPROACH:
PERRY CLASS FRIGATE MODERNIZATION

- IN THE SCOPE OF PERRY CLASS FRIGATE LINK-16 MODERNIZATION PROGRAM:
  - A LINK 16/11 MULTILINK TACTICAL DATA LINK PROCESSING (MTDLP) SYSTEM
  - TACTICAL DATA LINK CONSOLE

  IS DESIGNED AND DEVELOPED BY **MILSOFT**

- THE INTEGRATION OF DATA LINK PROCESSOR IS VIA SOFTWARE INTERFACE UNIT WHICH IS DESIGNED AND DEVELOPED BY **HAVELSAN A.Ş.**

A MODERNIZATION APPROACH:
PERRY CLASS FRIGATE MODERNIZATION

- MINIMIZE RISK THROUGH
  - INCREMENTAL DEVELOPMENT IN TWO BUILTS
  - STANAG 5516/MILSTD 6016-C TRANSACTION DIFFERENCE ANALYSIS
  - NEW SHIPBORNE MIDS TERMINALS INTEGRATED BY 2010

LINK 16 MODERNIZATION PROGRAM

- TURKISH LINK 16 PROGRAM GOALS:
  - TO GAIN THE LINK 16 CAPABILITY LOCALLY AS MUCH AS POSSIBLE
  - TO PROVIDE THE MOST AVAILABLE INTEROPERABILITY LEVEL OF LINK-16 CAPABLE PLATFORMS,
  - TO SUPPORT AND MAINTAIN MIDS TERMINALS

Future Capabilities Planned

FUTURE CAPABILITIES PLANNED: LINK 22

- **LINK-22 CAPABILITY (planned)**
  - ✓ National Control Reporting Center / Control Reporting Point
  - ✓ **Frigates**
  - ✓ **MİLGEM**
  - ✓ **Assault Boats**
  - ✓ **Sea Hawk Helicopter**
  - ✓ **Landing Platform Dock**
  - ✓ **Tank Landing Ship**
  - ✓ Maritime Patrol Aircraft
  - ✓ Ship Shore Ship Buffer
  - ✓ **Turkish Mobile Radar Complex (TMRC)**

FUTURE CAPABILITIES PLANNED: VMF - JRE

- **VMF Capability (planned)**

  - ✓ Tank Command&Control Information System
  - ✓ General Utility Helicopters
  - ✓ ATAK Helicopters
  - ✓ Army multi-band tactical radios with integrated VMF capability

FUTURE CAPABILITIES PLANNED: VMF - JRE

- **JRE Capability (planned)**

  - ✓ **SKYWATCHER Air Defence Early Warning and Command Control Command Sites,**
  - ✓ NATO Control Reporting Center / Control Reporting Point
  - ✓ National Control Reporting Center / Control Reporting Point
  - ✓ Combined Air Operations Center (CAOC)
  - ✓ AWACS-Peace Eagle
  - ✓ **Frigates**
  - ✓ **Landing Platform Dock**

TURKISH APPROACH TO INTEROPERABILITY ISSUES

TURKISH APPROACH TO INTEROPERABILITY ISSUES

- **SSM Approach Includes;**
  - ✓ Utilizing the lessons learned and worst experiences emerged from different nations TDL programs in the past.
  - ✓ Considering and handling Link-16 and other TDL's from a Network Centric Warfare aspect.
  - ✓ Applying a proven and reliable systems engineering methodology for TDL interoperability and formation of the nationalized outcomes supporting the national diversities.
  - ✓ Establishing Interoperability Cells with the required capabilities.
  - ✓ Establishing a supporting training infrastructure.

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--- THANK YOU ---