C4I System

NATO Interoperability
Information Security Management
Document Management
COMMAND AND CONTROL SYSTEM
FOR JOINT AND TACTICAL LAND
FORCES ECHELONS

Information System For Decision
Support At Joint Operations Command

› information management related to:
  › enemy and own troops
  › personnel and logistics
  › maps and geographic data
  › weather situation
  › radio visibility

› support for plans, orders and reports elaboration

› data security

› field analysis tools

› NATO standards and NATO countries interoperability

› formatted Messaging System

› switch on different communications environment

TECHNICAL FEATURES
› database Model cu JC3IEDM MIP block 3 compliant
› COP - Common Operation Picture
› data replication based on MIP DEM - Data Exchange
› mechanism based on MIP Block 2 specification
› plans and orders according to NATO 5 Point Plan and STANAG2014
› formatted messages according to AdatP-3
› database update, integration with Microsoft Outlook and alert messages
› data security based on PKI solution - shellSAFE
› workflow and document management - Confluence Application
› NATO standards & NATO countries

Implementation:
NFFI capability for BFT (Blue Force Tracking) based on STANAG 5527

STANDARDS
Information System for Decision Support at Brigade SIAAB

- Information management related to:
  -敌我双方部队
  -人员和物资
  -地图和地理数据
  -天气情况
  -无线电能见度

- 支持计划、命令和报告的编制

- 用于战场分析的工具

- 兼容C2系统的互操作性

- NFFI实施的BFT信息

- MIP DEM数据交换机制

- ADATP3消息用于MIP数据库更新

- 格式化消息

- 数据安全

- 根据Microsoft Outlook和警报消息集成

- NFFI能力用于基于STANAG 5527的BFT（蓝军跟踪）

- 决策支持应用：人员和物资短缺报告，活动时间估计

- 数据安全基于PKI解决方案shellSAFE

- 系统为指挥所设计，用于避难所

- 系统设计模块化，并扩展到所有级别

- 技术特性

  - 数据模型与JC3IEM MIP block 3兼容
  - COP-共同操作图
  - 基于MIP DEM的数据复制机制
  - 根据NATO 5的计划和命令
  - 点计划和STANAG2014
  - 格式化消息根据AdatP-3，数据库更新
  - 与Microsoft Outlook和警报消息的集成
  - NFFI能力用于基于STANAG 5527的BFT（蓝军跟踪）
  - 决策支持应用：人员和物资短缺报告，活动时间估计
  - 数据安全基于PKI解决方案shellSAFE
  - 系统为指挥所设计，用于避难所
  - 系统设计模块化，并扩展到所有级别
Participation at Interoperability Tests during International Exercises

› Combined Endeavor 2003 Germany
› Joint Warrior Interoperability Demonstration 2004 Norway
› Combined Endeavor 2004 Germany
› Combined Endeavor 2005 Germany
› Coalition Warrior Interoperability Demonstration (CWID) 2006
› Coalition Warrior Interoperability Demonstration (CWID) 2007 Norway

Implemented standards

› MIP Block 2 · Data Replication Mechanism
› ADATP-3 Message Exchange mechanism
› STANAG 4406 for communications among units and systems
› NATO 5-Point Plan and STANAG 2014 for plans and orders
› STANAG 2525 with graphical symbols
› VMAP Level 2 for digital maps PKCS 10, X509 V3, PKCS7, PKCS11, PKCS12

ROMANIAN INTEGRATED SOLUTION

MODULAR SOLUTION EXPANDABLE TO ALL ECHELONS

› support from Romanian integrator for:
  › maintenance
  › localization
  › end-users training
  › operational tests
  › support on national exercises
  › support on international exercises and tests for interoperability

› powerful software solution for Command and Control and Formatted Messaging System
› technical support for upgrades to framework new versions
› technical support to maintain the system interoperability according to MIP progresss