JTNC Overview

NAVWAR HQCA-2024-A-091 **Distribution Statement A.** Approved for public release: distribution is unlimited.

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Agenda

- JTNC Mission & Organizational Alignment
- JTNC Core Functions
- JTNC Initiatives & Viewpoints
- JTNC Technical Analysis
- JTNC Summary

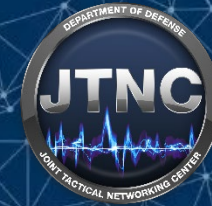# JTNC Mission and Organizational Alignment

Chartered Mission

"Support and advocate on behalf of the Joint Warfighter, facilitating software defined radio (SDR) and waveform (WF) acquisition/solutions, while mitigating interoperability risks and resolving issues. Provide technical analyses and capability characterizations on tactical communications products, assessing performance against established requirements. Serve as the Joint knowledge broker for SDRs and WFs. Enable the DoD's rapid identification, procurement, fielding, and sustainment of modular, innovative tactical communications products that ensure secure, interoperable, and resilient Command, Control, Communications, Computer, Intelligence, Surveillance, and Reconnaissance (C4ISR) capabilities."

Chartered Vision

"Secure, interoperable, and resilient tactical communications capabilities aligned to modular open architectures in support of Service, Joint, and Coalition forces."

JTNC Organization

LEADERSHIP TEAM

Mr. Bill Brickner
Director

Mr. Mat Guerrieri
Deputy Director

Mr. Jamal "JR" Rogers
*Directorate Lead,
Technical Analysis &
Engineering Services
Directorate (TA & ESD)*

Mr. Fritz McNair
*Directorate Lead,
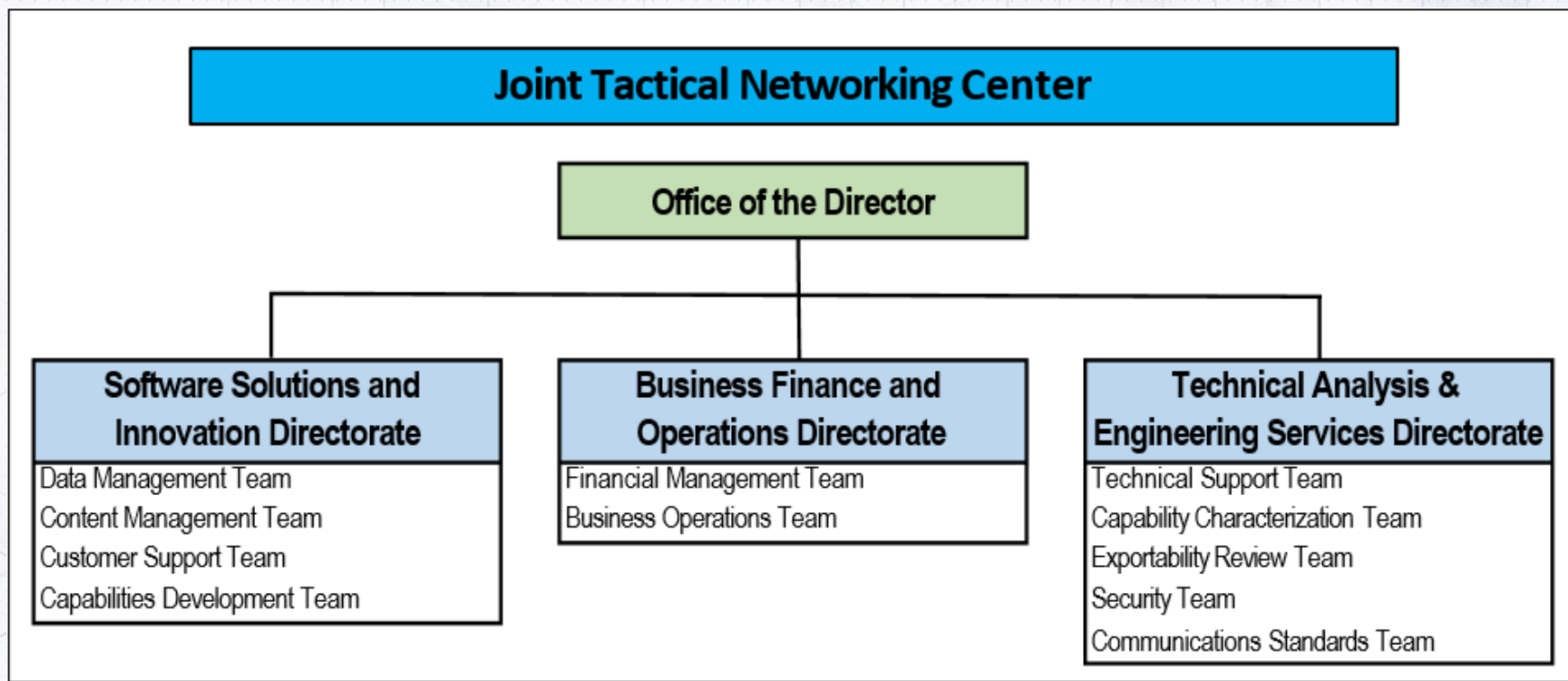Software Solutions
& Innovation
Directorate (SSID)*

Mr. Chazm Johnson
*Directorate Lead,
Business Finance &
Operations*

JTNC Organization Structure

Joint Tactical Networking Center

Office of the Director

Software Solutions and Innovation Directorate
- Data Management Team
- Content Management Team
- Customer Support Team
- Capabilities Development Team

Business Finance and Operations Directorate
- Financial Management Team
- Business Operations Team

Technical Analysis & Engineering Services Directorate
- Technical Support Team
- Capability Characterization Team
- Exportability Review Team
- Security Team
- Communications Standards Team

JTNC is made up of approximately 70 people in many different locations across the United States.

JTNC Core Functions*

- **Information Repository, Software Defined Radio (SDR) and Waveform Knowledge Management**
  - Maintain a cyber-hardened DoD Information Repository (IR) providing controlled access for proprietary and non-proprietary waveforms
  - Maintain government configuration control of assigned IR products and data documents
  - Maintain the Joint Communications Marketplace (JCM)

- **Technical Analysis**
  - Perform waveform analyses, Waveform Assessment for System Milestone Review (WASMR) events, exportability analyses, conformance evaluations, and capability characterizations on tactical communications products

- **Open Systems Architecture Standards**
  - Align and promulgate OSA approaches for relevant DoD standards for communications technologies and waveforms
  - Provide expertise, configuration management, and interface development for non-proprietary OSA standards and interfaces

- **Technical Advisor (Lead Service Initiative and Command, Control, and Communications Leadership Board (C3LB))**
  - Provide subject matter expertise on tactical communications and networking issues, DoD and industry waveforms, and wireless communications software development as requested or identified
  - Assist Lead Services in the identification of potential tactical networking innovative enterprise technology solutions and/or improved processes to both satisfy existing or emerging capability gaps and enhance future operational opportunities
  - Support both the Services and Principal Staff Assistant (DoD CIO) in oversight of Lead Service activities

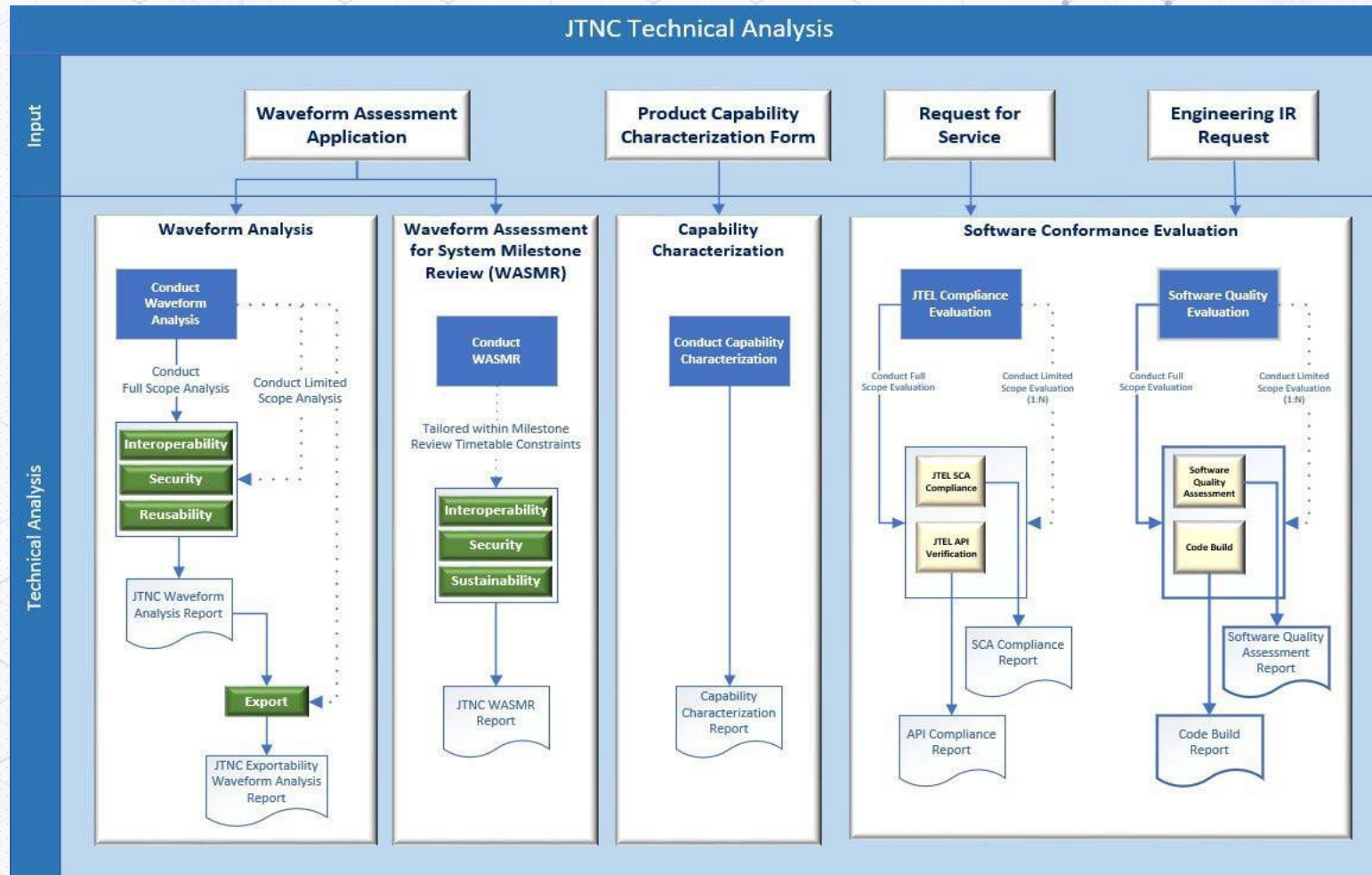*** As per 20 Mar 2024 JTNC Charter (updated every 3-5 years)**

Data Management Initiatives

- **Joint Communications Marketplace rapidly <u>expanding</u> throughout the DoD**
  - Seen as critical enabler for Program Executive Officers/Program Managers (PEO/PMs) to aid ongoing acquisition activities
  - Information bridge to Industry
  - JCM migrating to be the "Center" of the JTNC Data Universe
  - JTNC Standards Library hosted on the JCM
- **Major Contributor for DoD Data Rights review and application**
  - Anticipate major success and associated usage for the DrScan Tool

JTNC is on track for being recognized as the Joint Knowledge Broker for SDRs/Waveforms and associated Technologies
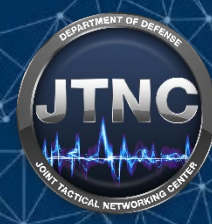
DoD Waveforms Maturity Progression via Waveform Analysis Efforts

JTNC Summary

- **JTNC is a strategic asset that serves as a key enabler for all Services**
  - Waveform Technical Advisor for the DoD

- **JTNC continues to shift and pivot to support OSD and Services**
  - Establishing DoD Joint Knowledge Broker capabilities
  - JTNC Standards activity supporting critical efforts such as JTEN architecture development. Potential for increased DoD Governance role

- **JTNC Demand Signal continues to grow**
  - HF Interoperability and Architecture Sub-Working Group (HF I&A SWG) facilitating capability enhancements
  - Resiliency Sub-Working Group (RSWG) transforming DoD's waveform culture (Resilient WF acquisition)
  - NSA/JTNC collaboration elevating Service priorities, with the goal of expediting certification timelines
  - The DoD Waveform landscape continues to evolve
    - o Increased use of proprietary and highly classified solutions