"Net Ready Key Performance Parameter"

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C4/Cyber Directorate

Requirements Division

AGENDA

- Where JCIDS fits.

- BLUF

- NR KPP

- Architectures

J8 JCIDS AREA - IAW CJCSI 3170
"JCIDS"– Validate Requirements
J6 CJCSI6212.01F/NR KPP AREA

DOD CIO ISP

User Requirements & Concept of Operations
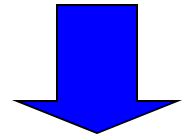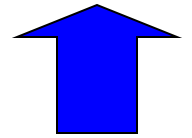
System Requirements & Architecture

System Demonstration & Validation

System Integration & Test

Component Design

Component Integration & Test

Procure, Fabricate, & Assemble Parts

J8 and Sponsor Areas

PM, CIO, AT&L, DOTE Areas

Systems Engineering Domain

Component Engineering Domain

Services, COCOMs, Mission Partners

Clarify representation of capability in JCIDS and; interoperability and supportability in DOD CIO ISP documents using a mission oriented NR KPP

Ensure joint analytical rigor in interoperability assessment/

T&E strategy / master plan / test plan

Provide joint mission environment for I&S assessment and testing

JCIDS Documents (ICD, CDD, CPD) DOD ISP Documents

Interoperability Testing

Test and Evaluation Strategy

Test and Evaluation Master Plan

DT, OT, IT Test Plan

Joint Assessment Feedback to JCIDS (FCB/JCB/JROC) and DOD CIO and IT/DT/OT Certification

BLUF

PM Success

Interoperability

Cost

Schedule

Joint Performance

4

NR KPP

- NR KPP
  - One of 6 mandatory KPPs (Force Protection, Survivability, Sustainment, Net Ready, Training, Energy)
  - One of 3 mandatory certifications (Intel, NR KPP, Wpns Safety Endorsement).
- JCIDS Manual
  - Overarching guidance and precedence
  - Includes NR KPP Appendix
  - Points to the NR KPP Manual
- CJCIS 6212
  - Provides front end guidance for NR KPP Certification
  - Points to detailed process contained in NR KPP Manual

JCIDS and NR KPP

- NR KPP
    - one of six mandatory KPPs (Force Protection, Survivability, Sustainment, Net Ready, Training, Energy)

    - One of three mandatory certifications (NR KPP, Intel, Wpns Safety)

JCIDS Manual NR KPP

APPENDIX F TO ENCLOSURE B

GUIDE FOR THE NET-READY KPP

1. <u>NR-KPP Certification.</u> All JCIDS documents are reviewed for compliance with the NR-KPP and spectrum requirements, when applicable. NR KPP assessments are conducted throughout the IS life cycle to identify and resolve potential interoperability and/or emerging net-centricity challenges and mitigate the risk of delivering non-interoperable capability solutions to the warfighter. The NR KPP certification process is described in references qq and ss.

2. <u>NR-KPP Overview.</u> All IS will follow the NR-KPP development process. Net-ready attributes determine specific measurable and testable criteria for interoperability, and operationally effective end-to-end information exchanges. The NR-KPP identifies operational, net-centric requirements in terms of threshold and objective values for measures of effectiveness (MOEs) and measures of performance (MOPs). The NR-KPP covers all communication, computing, and electromagnetic spectrum requirements involving information elements among producer, sender, receiver, and consumer. Information elements include the information, product, and service exchanges. These

CJCSI 6212 Net Ready Key Performance Parameter

- Provides front end guidance for NR KPP Certification

CHAIRMAN OF THE JOINT CHIEFS OF STAFF INSTRUCTION

J-8
DISTRIBUTION: A, B, C, S

CJCSI 6212.01F
21 March 2012

NET READY KEY PERFORMANCE PARAMETER (NR KPP)

Reference: See Enclosure F.

1. Purpose. This instruction:

NR KPP Manual

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https://intellipedia.intelink.gov/wiki/Net_Ready_Key_Performance_Parameter_(NR_KPP)_Manual

Net Ready Key Performanc...

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(U) Net Ready Key Performance Parameter (NR KPP) Manual

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NR KPP TUTORIAL

NR KPP TUTORIAL - NR KPP DEVELOPMENT TUTORIAL

(U) This one may be organizationally outdated, but conent likely still accurate.....and po

NR KPP Orientation - NR KPP Orientation

Purpose

This manual sets forth guidelines and procedures for the development, analysis, and staffin
"Net Ready Key Performance Parameter." This Manual replaces the the "how to procedures

Applicability

In accordance with references a and b (DODI 5000.02), these procedures apply to the Jo
and joint and combined activities. They also apply to other agencies preparing and submitti

Procedures

This Manual provides guidance on procedures to develop the Net Ready Key Performance
KPP, architecture data, and compliance with spectrum requirements for all CDDs and CPD
It provides the procedures to develop and certify the NR KPP contained in Information Supp
data, and spectrum compliance. This includes Department of Defense (DOD) Business Sy

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Enclosure A - Overview of the Joint Staff NR KPP Certification Requirements

Enclosure B - Net Ready Key Performance Parameter Development Process

Enclosure C - NR KPP Architecture Development Process

Enclosure D - NR KPP Supportability Requirements Procedures

Enclosure E - Removed

Enclosure F - NR KPP Architecture Data Assessment Template
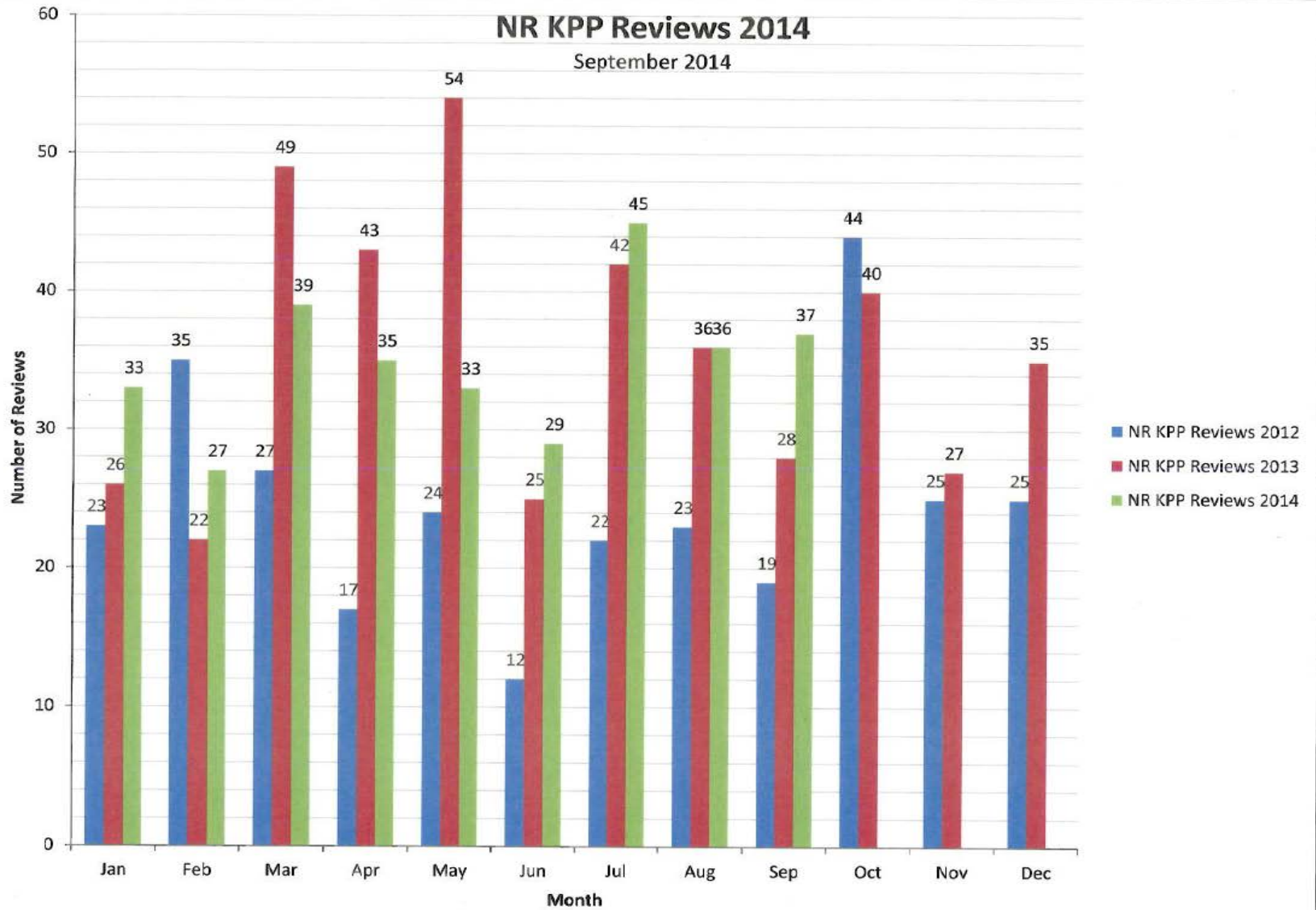
Enclosure G - NR-KPP Required DODAF Architecture Data

Enclosure H - Interface Control Agreement Template

Enclosure J - Joint Mission Threads

Glossary - Glossary

NR KPP Reviews 2014

September 2014

Three Attributes of the NR-KPP Description

NR-KPP Description	Attribute	Metrics	Used For	Data Sources
Support net-centric military operations	Military Operations (e.g. mission areas or mission threads)	Effectiveness Measures used to determine success of the military operation	NR-KPP Effectiveness Measures	JMETLs and NMETLs
		Conditions under which the military operations must be executed		
	Operational tasks required by the military operations	Operational Performance Measures used to determine activity performance	NR-KPP Performance Measures	JMETLs and NMETLs
		Conditions under which the activity must be performed		
Enter and be managed in the network	Which networks do the net-centric military operations require	Operational Performance Measures for entering the network	NR-KPP Performance Measures	N/A
		Operational Performance Measures for being managed in the network		
Exchange Information	Information produced and consumed by each military operation and operational task	Operational Performance measures to ensure exchanges are: Continuous Survivable Interoperable Secure Operationally Effective	NR-KPP Performance Measures	DoDAF OV-3 Operational Information Exchange Matrix

NR KPP Example

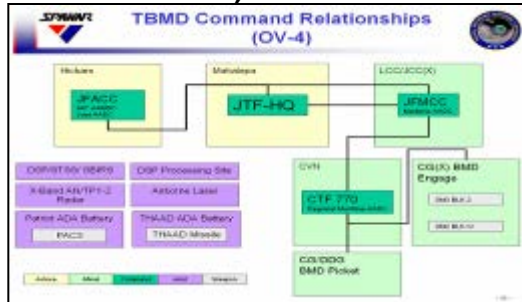| NR KPP Attribute	Key Performance Parameter	Threshold	Objective
Support to military operations	Mission: Tracking and locating (Finding, Fixing, Finishing) High-Value Target (HVT) Measure: Timely, actionable dissemination of acquisition data for HVT Conditions: Targeting quality data to the neutralizing/tracking entity	10 minutes Area denial of HVT activities	Near-real-time HVT tracked, neutralized
	Mission Activities: Find HVT Measure: Location accuracy Conditions: Individual differentiation	100 meter circle Identify armed/not armed	25 meter circle Identify individual
Enter and be managed in the network	Network: SIPRNET Measure: Time to connect to an operational network from power up Conditions: Network connectivity	2 minutes 99.8	1 minute 99.9
	Network: NIPRNET Measure: Time to connect to an operational network from power up Conditions: Network connectivity	2 minutes 99.8	1 minute 99.9
Exchange information	Information Element: Target Data Measure: Dissemination of HVT biographic and physical data Measure: Receipt of HVT data Measure: Latency of data Measure: Strength of encryption Conditions: Tactical/Geopolitical	10 seconds Line of Sight (LOS) 5 seconds NSA certified type 1 Permissive environment	5 seconds Beyond LOS 2 seconds NSA certified type 1 Non-permissive environment

Supporting Architecture NR KPP

Document/ Architecture	AV-1	AV-2	CV-1	CV-2	CV-3	CV-4	CV-5	CV-6	DIV-1	DIV-2 (OV-7)	DIV-3 (SV-11)	OV-1	OV-2	OV-3	OV-4	OV-5a	OV-5b	OV-6a	OV-6c	PV-2	SV-1 or SvcV-1	SV-2 or SvcV-2	SV-4 or SvcV-4	SV-5a or SvcV-5	SV-6 or SvcV-6	SV-7 or SVcV-7[6]	SvcV-10a	SvcV-10b	SvcV-10c	StdV-1 (TV-1)	StdV-2 (TV-2)
DCR	1		R	R	R	R						R														R					
CONOPS	1		R	R	R	R		R				R	R		R	R										R					
ICD	1	X	R	R	R	R		R				X	X		X	X	O									R					
CDD	1	X	X	X	X	X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X	X				X^2	X^2
CPD	1	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				X^2	X^2
IC[3,4]	X	X	X	X			X		X	X		X	X	X		X	X	X	X		X	X	X	X	X		X	X	X	X	X

Legend	X – Required O – Optional R- Recommended, PM needs to check with their Component for any additional architectural/regulatory requirements for CDDs, CPDs. (e.g., HQDA requires the SV-10c, USMC requires the SV-3, IC requires the SvcV-10a and SvcV-8)
Note 1	The AV-1 must be registered, must be "public" and "released" at the lowest classification level possible in DARS for compliance.
Note 2	The technical portion of the StdV-1 and StdV-2 are built using GTG-F DISR standards profiling resources and, within six months of submitting JCIDS documentation, must be current and published for compliance. Use of non-mandated DISR standards in the StdV-1 must be approved by the PM or other duly designated Component cognizant official and documented by a waiver notification provided to the DoD CIO."
Note 3	Intelligence Community (IC) requirements IAW the IC Enterprise Architecture Program Architecture Guide and development phase which clarifies the IC Policy Guidance 801.1 Acquisition.
Note 4	Service Views (SvcV) only
Note 5	1. The Sponsor* and the Program are jointly responsible for the AV-1, AV-2, CV-1, CV-2, CV-3, CV-4, CV-5, CV6, SV-6 or SvcV-7. 2. The Sponsor* is responsible for the development of the architecture data for the OV-1, OV-2, OV-4, OV-5a, OV6c, DIV-2, and the SV-6 or SvcV-6. 3. The Program is responsible for the development of the architecture data for the DIV-1, DIV-3, OV-3, OV-5b, OV-6a, PV-2, SV-1 or SvcV-1, SV-2 or SvcV-2, SV-4 or SvcV-4, SV-5a or SvcV-5, SvcV-10a, SvcV-10b, SvcV-10c, StdV-1, and StdV-2. * Operational user (or representative).
Note 6	The NR-KPP Measures data is captured in the SV-7 or the SvcV-7.

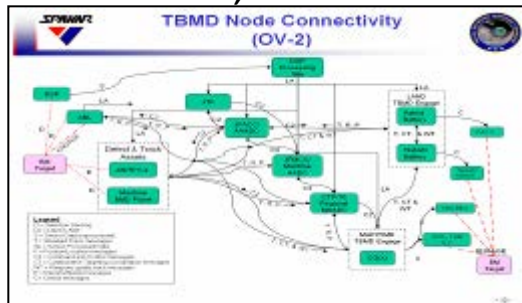# Architectures To Document Mission Threads
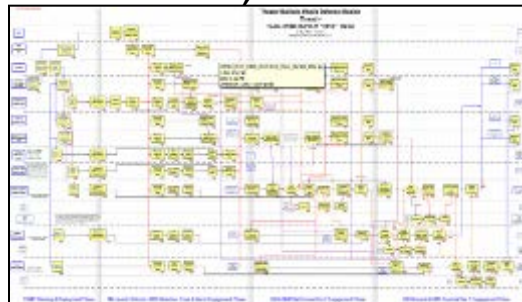# DoDAF Operational Views (OV)

OV-1, OV-4

Who are the players

OV-2, OV-3

What information do they exchange (Operational IERs)

OV-6c, OV-5

What they do with the information

Bin the information each player needs into 3 categories based on how they use the data:

- View the data
- Publish the data
- Process the data

Categories determine the services, applications, and hardware required at each player

Architectures to Describe Mission Threads
DoDAF System Views (SV)

SV-4, SV-5

BMD SV-5

The SV-5 Maps The Mission's Activities to Systems and Functions

What system functions support the mission thread

SV-1, SV-2

BMD Internodal SV-2

The SV-2 Shows The Systems' Physical Connections
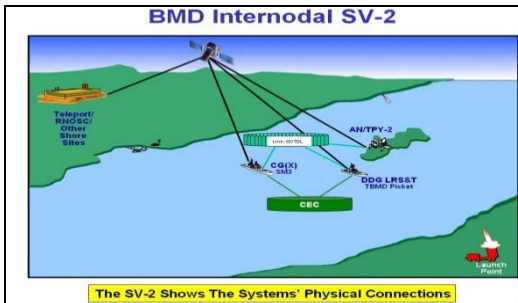
How are the systems connected

SV-6, SV-7

BMD SV-6

The SV-6 Details The System IERs Needed For The Mission

How well do the systems perform

Document the available systems and characterize them in terms of:

- Relation to mission
- Connections
- Performance

Information can be used to inform systems engineering activities, build a system spec, or to document the capabilities of an existing system