**Defense Information Systems Agency
Joint Interoperability Test Command**

Interoperability Process Guide (IPG)

Chris Watson
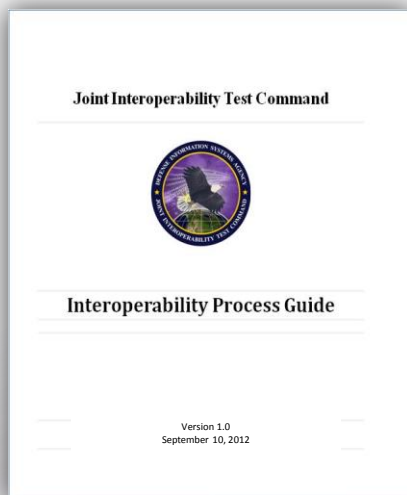
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01 OCT 2014

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Interoperability Process Guide Overview

Joint Interoperability Test Command

Interoperability Process Guide
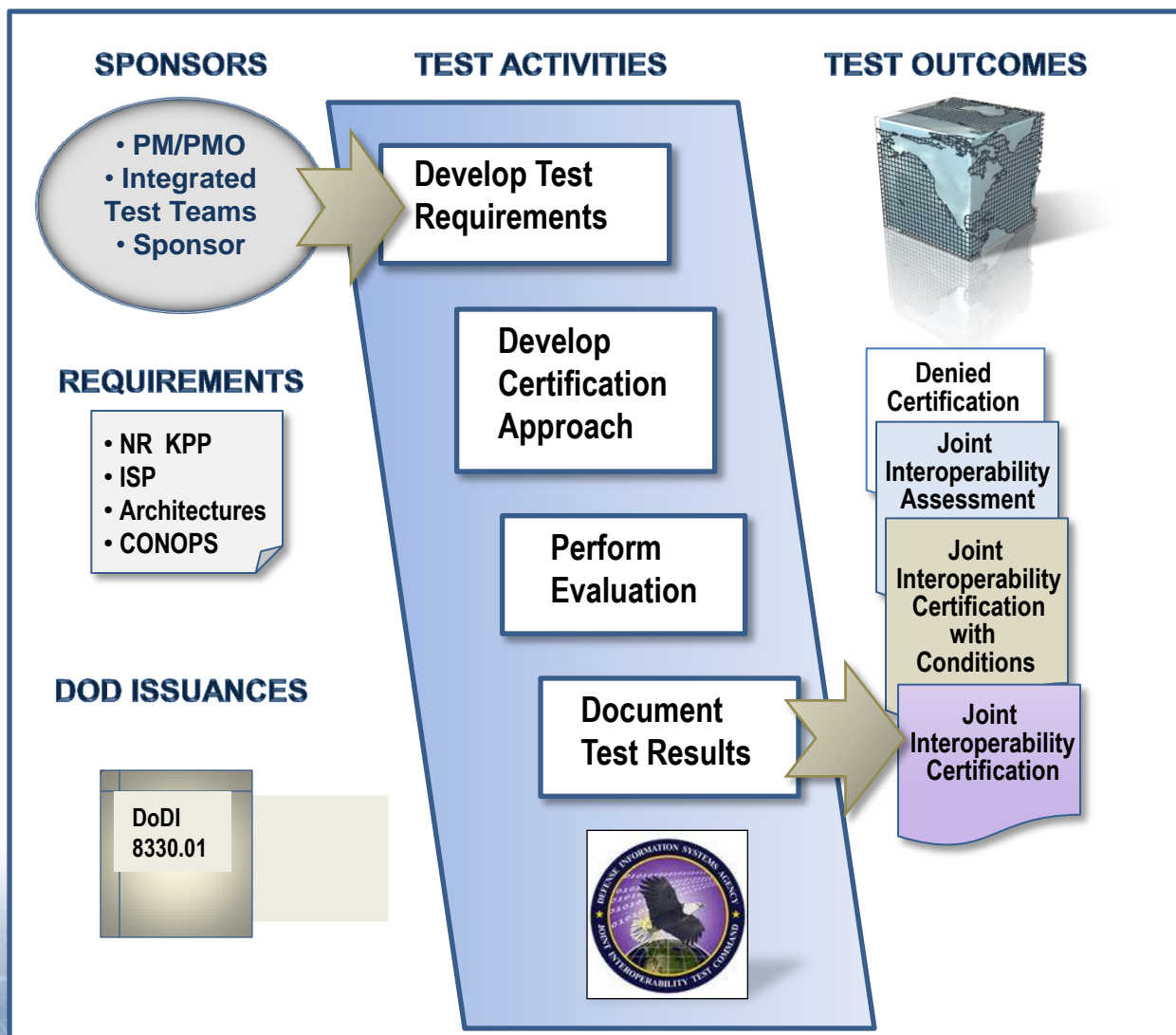
Version 1.0
September 10, 2012

- ✓ Overview of Joint IOP Certification Policy

- ✓ JITC Joint IOP Test Certification Procedures

- ✓ Information Required for Joint IOP Certification

- ✓ Interoperability Certification Products

- ✓ Procedures for Waiver Requests, Interim Certificate To Operate (ICTO), and Operating At Risk List (OARL)

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IPG Background

- **Per DoDI 8330.01, JITC develops/maintains the IPG in coordination with DoD CIO's office**

- **IPG Version 1.0 was signed on 10 September 2012 by JITC, DISA TEO, and DoD CIO**

- **The intended audience is the Program Manager and other interoperability stakeholders**

- **IPG is a living/breathing document that can be readily updated (easier than a DoD issuance)**

- **IPG is posted on the ISG Resource Site: http://jitc.fhu.disa.mil/cgi/isgsite/pubs.aspx**

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Example: Joint IOP Process Overview

SPONSORS

- PM/PMO
- Integrated Test Teams
- Sponsor

REQUIREMENTS

- NR KPP
- ISP
- Architectures
- CONOPS

DOD ISSUANCES

DoDI 8330.01

TEST ACTIVITIES

Develop Test Requirements

Develop Certification Approach

Perform Evaluation

Document Test Results

TEST OUTCOMES

Denied Certification

Joint Interoperability Assessment

Joint Interoperability Certification with Conditions

Joint Interoperability Certification

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IPG v1.0, Change 1

- **IPG Version 1.0, Change 1, signed April 2014**

- **New section describes interoperability requirements changes**

  - Tools and process for requirements review

  - Establishes minimum DoDAF architecture information needed for joint IOP certification

- **Revised guidance for recertification**

  - Periodic

  - Situational

- **Updates ICTO, Waiver, and OARL procedures**

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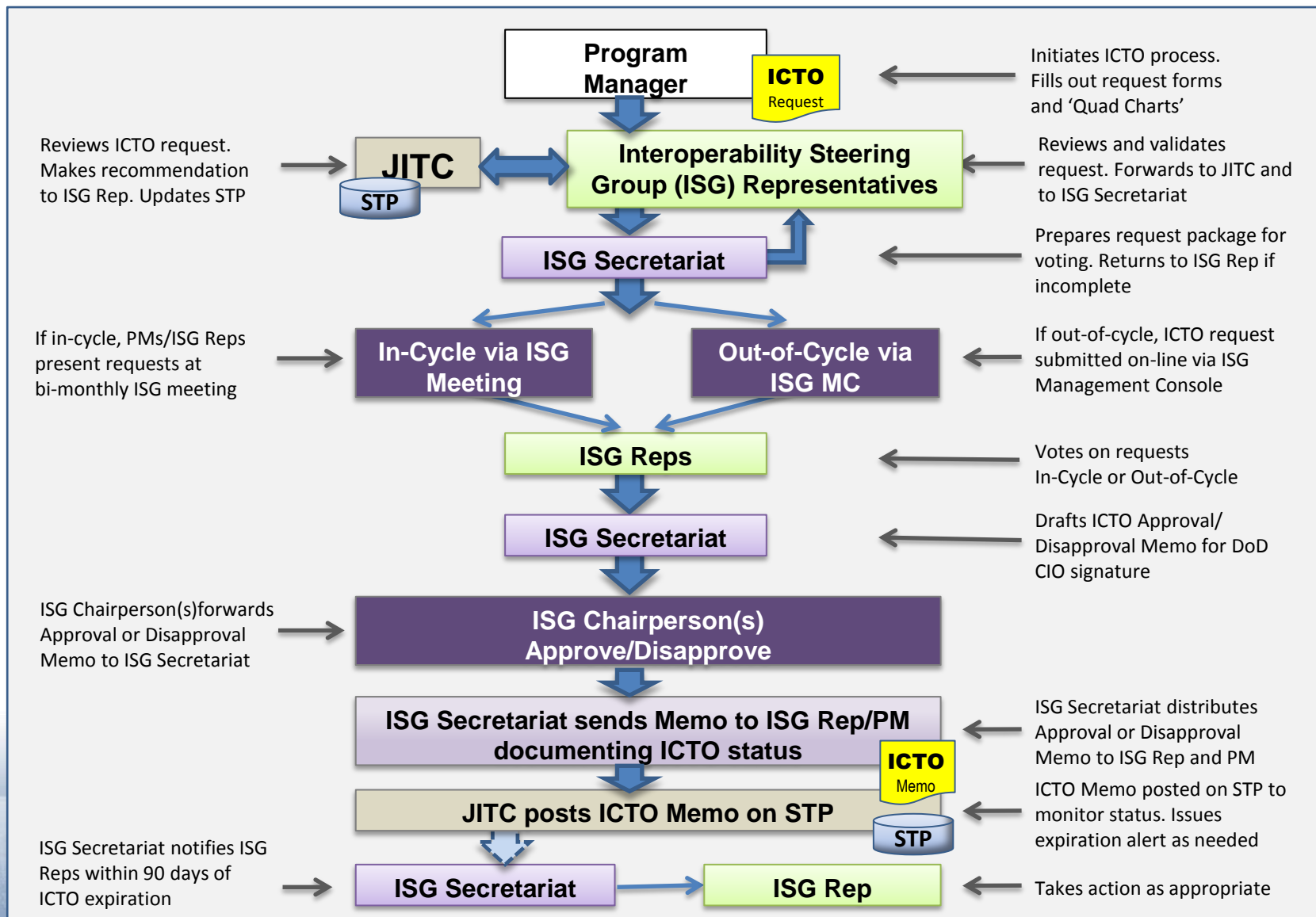# Architecture Req's for IOP Certification (NR KPP +)

Viewpoint	Description
REQUIRED Architecture Viewpoints for Joint Interoperability Certification	
AV-1	Overview of architecture scope and context, describes the concepts contained in the
AV-2	Integrated Dictionary – defines all terms and metadata used in the architecture.
OV-1	High Level Operational Concept Graphic – describes operational concept.
OV-2	Operational nodes, needlines, and activities - information exchanges between
OV-3	Information exchanges and associated measures and metrics.
OV-5b	Operational Activity Model - NR KPP Missions/Tasks - activity level depiction.
OV-6c	Event-Trace Description - lifelines (nodes) and events.
SV-1	Systems Interface Description - defines system functions and information flow among
SV-2	Systems Resource Flow Description - communications links, networks, and systems.
SV-5a	Maps system functions (activities) to operational activities.
SV-6	System data exchanges & associated measures and metrics.
SV-7	Complete set of system performance parameters (measures).
CONDITIONAL Architecture Viewpoints for Joint Interoperability Certification	
DIV-2	Logical Data Model - architecture data definitions.
DIV-3	Physical Data Model - describes how DIV-2 is implemented.
StdV-1	Standards Profile - list of implemented technical standards, rules, and guidelines.
SV-5b	Maps systems to operational activities.
SvcV-1	Services Context Description – identifies services and their interconnections.
SvcV-2	Specifies resource flows exchanged between services, and may list protocol stacks.
SvcV-4	Depicts allocation of service functions and data flows between service functions
SvcV-5	Maps services (activities) to operational activities.
SvcV-6	Maps service data exchanges with associated measures and metrics.
SvcV-7	Complete set of performance parameters (measures) of the services.

12 Required Views

10 Conditional Views

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ICTO Process

Program Manager

ICTO Request

Initiates ICTO process. Fills out request forms and 'Quad Charts'

Reviews ICTO request. Makes recommendation to ISG Rep. Updates STP

JITC

STP

Interoperability Steering Group (ISG) Representatives

Reviews and validates request. Forwards to JITC and to ISG Secretariat

ISG Secretariat

Prepares request package for voting. Returns to ISG Rep if incomplete

If in-cycle, PMs/ISG Reps present requests at bi-monthly ISG meeting

In-Cycle via ISG Meeting

Out-of-Cycle via ISG MC

If out-of-cycle, ICTO request submitted on-line via ISG Management Console

ISG Reps

Votes on requests In-Cycle or Out-of-Cycle

ISG Secretariat

Drafts ICTO Approval/ Disapproval Memo for DoD CIO signature

ISG Chairperson(s)forwards Approval or Disapproval Memo to ISG Secretariat

ISG Chairperson(s) Approve/Disapprove

ISG Secretariat sends Memo to ISG Rep/PM documenting ICTO status

ISG Secretariat distributes Approval or Disapproval Memo to ISG Rep and PM

ICTO Memo

JITC posts ICTO Memo on STP

STP

ICTO Memo posted on STP to monitor status. Issues expiration alert as needed

ISG Secretariat notifies ISG Reps within 90 days of ICTO expiration

ISG Secretariat

ISG Rep

Takes action as appropriate

Waivers to Policy

- **The DoD CIO, in coordination with USD(AT&L) and JCS, consider waivers to policy under a variety of circumstances:**

  - Validated as an urgent need

  - Introduction of new or emerging technology pilot program

  - Cost outweighs the benefit to the DoD

- **JITC provides recommendation on waiver request to DoD CIO**

  - Assess risk to the network and DoD operations

- **Final decision made by DoD CIO**

- **If approved, interoperability requirements specified in request are waived**

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Operating At Risk List (OARL)

- **New process, similar to (former) Interoperability Watch List**

  - Systems with significant interoperability deficiencies, not actively progressing toward certification, etc., placed on OARL to ensure attention is given to achieving interoperability objectives

  - 10 criteria which may each result in placement on OARL

  - ISG members may nominate systems to OARL

- **DoD CIO makes OARL determination**

- **OARL Quarterly memos sent to operational stakeholders**

- **Programs removed from OARL if an ICTO, Waiver, or Joint IOP Certification is issued, or no longer in operational use**

- **OARL available at:**

  - **https://nit-jitc.nit.disa.mil/cgi/isg/**

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IPG V 2.0 Changes

- **ISG looks to use IPG as vehicle to distribute timely policy/procedure updates and revisions**

- **Next: Publish IPG V 2.0 to align with DoDI 8330.01 and ISG Guidance**

    − Will include updates to:
        ➢ Recertification Process
        ➢ Waiver Process
        ➢ OARL Process
        ➢ DoDAF Architecture Information for Systems, Services, and Enterprise Services
        ➢ Define Comment Criticality for Req's Review
        ➢ Clarify 8330 Network Connection Req's

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