Secure

**AS IS**

- Significant Attack Surface
- Ineffective and Costly Networks
- Disparate & Uncoordinated Analysis

**TO BE**

- Reduced Attack Surface
- Increased Net Resiliency/Capacity
- Reduced Cost & Improved Cyberspace Detection & Diagnosis
- Tailored Operational Views

United in Service to Our Nation
Joint Regional Security Stacks
NIPR JRSS 1.0/1.5 Operational Effects

• Provides network defenders real-time capability to:
  – Joint C2 and visibility of network and regional security resources at strategic/operational levels
  – View DoD installation network status and track cyber events
  – Monitor millions of internal DoD WWW transactions daily
  – Block known hostile traffic
  – Record all network transactions for later forensics (v1.5)
  – Prioritize traffic flows by community of interest

CAPABILITIES
SSL Inspection, agency-level intrusion protection system (IPS), agency level firewall, agency/base intrusion detection system, base IPS, application firewall, full packet capture (v1.5), and ability to support multiple virtual Service/Agency policies and TTPs

Sunsets AF Gateways/Army TLAs
• JRSS 2.0 adds the following effects:
  – Additional defense in depth capabilities at strategic, operational and tactical (i.e., B/P/C/S) levels
  – Greater fidelity of cyber vulnerability screening/filtering
  – Data/Applications defense in depth
  – Advanced & fine-grain inspection of DoDIN traffic
  – WAN traffic optimization for data/application support

**ADDITIONAL CAPABILITIES**
Base-level web content filtering/enhanced application firewall/IPS, detonation chamber (inspect atchs), break & inspect encrypted capability (SSL/PKI), base-level in-line virus scanning, WAN acceleration, and enhanced logging/analysis capabilities

Sunsets DON/DHA Gateways
S-JRSS Operational Effects:
- Provides network defenders real-time capability on SIPRNet:
  - Joint C2 and visibility regional security resources at strategic/operational levels
  - View DoD installation network status and track cyber events
  - Block known hostile traffic

S-JRSS Capabilities:
- Agency-level intrusion protection system (IPS)
- Agency level firewall
- Ability to support multiple virtual Service/Agency policies and TTPs

S-JRSS Architecture Plan:
- Existing crypto at installation sites, and existing GRE-capable routers
- Uses GRE Tunnels (i.e., BPCS to BPCS and S-JRSS)
- Deploy S-JRSS in non-Internal High Availability (HA) Configuration
- S-JRSS provides Agency-Level Security and enclave Security Protection through inheritance
- The SIPR procurement included 6 full JMS's (2 CONUS, 1 EUR, 1 SWA, 2 PAC)

Sunsets AF SIPR Gateways; Adds Army regional layer
JRSS Global Overview

- **UNCLASSIFIED**

**NIPR JRSS**  
- **CONUS**: 11 NIPR JRSS Locations  
- **SIPR JRSS**: 2 NIPR JRSS Locations

**PLANNED**  
- **CONUS**: 11 S-JRSS Locations  
- **EUROPE**: 4 S-JRSS Locations

**PROCURED**  
- **CONUS**: 11 S-JRSS Locations  
- **EUROPE**: 3 S-JRSS Locations

**INSTALLED**  
- **CONUS**: Equipment racked and cabled  
- **EUROPE**: Baseline, STIGed, ready for traffic

**ACTIVATED**  
- **CONUS**: Passing operational traffic  
- **EUROPE**: 8 NIPR JRSS Locations

**MIGRATED**  
- **CONUS**: 8 S-JRSS Locations

- **40Gbps or 20Gbps NIPR JRSS**
- **10Gbps SIPR JRSS**

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**Timeline**

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<tr>
<th>FY14</th>
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<tr>
<td><strong>OPS TESTING</strong></td>
<td>San Antonio Ops Decision (Sep 14)</td>
<td><strong>JRSS INSTALLS / NET UPGRADES</strong></td>
<td>JRSS v 1.0: CONUS/EUROPE/ SWA Focus (50% Global Reqt)</td>
<td>JRSS 1.5: USAF/USA Stand Down Legacy Capabilities 80% Global Reqt (50% in Europe, Africa, Pacific)</td>
<td><strong>1.0</strong></td>
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<td><strong>Expanding Cyber C2 Capabilities</strong></td>
<td><strong>JRSS INSTALLS / NET UPGRADES</strong></td>
<td><strong>JRSS INSTALLS / NET UPGRADES</strong></td>
<td><strong>USN collapses B1s</strong></td>
<td><strong>JRSS 2.0 / Tech Refresh</strong></td>
<td><strong>1.5 &amp; SIPR Milestone</strong></td>
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<td><strong>JFHQ DODIN Activated</strong></td>
<td><strong>CYBER MISSION/PROTECTION FORCES</strong></td>
<td><strong>SIPR Migrations (Army &amp; AF)</strong></td>
<td><strong>JRSS Version 2.0 (USN/USMC/DHA Enhancements)</strong></td>
<td><strong>USN/USMC/DHA Migration 100% Global Reqt</strong></td>
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<td><strong>DOD Installations Connected</strong></td>
<td><strong>100 Sites</strong></td>
<td><strong>300 Sites</strong></td>
<td><strong>400+ Sites</strong></td>
<td><strong>500+</strong></td>
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<td><strong>1000+ Loosely Controlled Entry Points</strong></td>
<td><strong>Reduced Attack Surface</strong></td>
<td><strong>Improved C2 and SA</strong></td>
<td><strong>Added Resiliency/Capacity</strong></td>
<td><strong>Increased Sharing of Threat Data</strong></td>
<td><strong>Increased Sharing of Threat Data</strong></td>
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Your Roles

Combatant Commands / Services / Agencies

• Secure / Operate / Defend
  – Perform Computer Network Defense Service Provider & Defensive Cyber Operations Missions with support of JRSS (NIPR & SIPR)
  – Train on and leverage new JRSS capabilities for CC/S/A operational effects

• Migrations
  – Ready CC/S/A networks for migration to the new capability
  – Provide CC/S/A migration priorities
  – Actively participate in migration process

• Future Requirements
  – Provide feedback to DISA on capabilities for posturing future requirements
  – Support funding requirements in the POM

Industry

• Development - Multi-tenant product lines / smaller, more efficient platforms
• Partnerships – O&M and Innovation
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Contact/POC Information

Information
www.disa.mil/Initiatives/JRSS

Program External DEPS Link
https://east1.deps.mil/disacopmaecop_mae/JRSS/JRSS%20Documents/Forms/AllItems.aspx

EMAIL
gary.l.cornn.mil@mail.mil
jason.l.abernathy3.civ@mail.mil

PHONE
301-225-5698, 301-225-8716
United in Service to Our Nation