

NIST and NIAP: Working Together

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- **Update on Collaboration**
- **Benefits/Value**
- **Automation**
- **Pilot**

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Collaboration Goals:

- Partnership is Re-invigorated
- Eliminate duplicative testing
 - *NIAP recognizes CST lab test activities conducted as part of a CAVP/CMVP validation to meet NIAP assurance activities (NIAP Policy #5 and FAQ)*
 - *NIST recognizes CCTL test activities conducted as part of a NIAP evaluation to meet CAVP/CMVP requirements*
- CMVP points to NIAP Protection Profiles for necessary assurances outside the scope of the module
- Alignment between NIAP PPs and CMVP DTRs/IGs

Benefits and Value

- Collaboration on Cryptographic Requirements
- Collaboratively developed Protection Profiles
 - Standards-based
 - Define baseline security functionality and test activities for COTS IT products
 - Mandated for National Security Systems (NSS)
- NIST recognition and use of ISO/IEC 19790
 - FIPS 140-3 maps to ISO/IEC 19790 *Security Requirements for Cryptographic Modules*
 - SP800-140 maps to ISO/IEC 24759 *Test Requirements for Cryptographic Modules*
- US Standards necessary to support the ISO
 - FIPS 140-3 wrapper document pointing to ISO 19790
 - FIPS 140-3 appendices A-F pointing to the ISO annexes and SP800-140
 - SP800-140 wrapper document pointing to ISO 24759
 - FIPS 140-3 is under review with the Department of Commerce general counsel

Automation

- **CMVP Automation** - aka Resolve
 - Internal system in use by CMVP now and is in O&M.
 - Shortens the duration of module test report processing at NIST
- **Next Phase** - externally focused
 - Still working on adding new infrastructure that will support automated certificate publication to the *NEW* csrc.nist.gov
 - Automate testing of algorithms and modules

Automation

- **Automated Cryptographic Validation Testing (ACVT)**
- **Algorithms**
 - ACVT Pilot is complete
 - Transition to operations is in progress
 - Hybrid program until all algorithm testing uses ACVT
 - Future transition to only automated testing using the NIST ACVT service (first-party and third-party testing)
- **Modules**
 - Proof of concept is in progress
 - Pilot is planned for early next year

Automation

- **Protection Profile Automation**
 - SWApp PP
 - Automation tools
- Secure, online document, data upload
- Process Efficiencies
 - Assurance Maintenance
 - ECR tool - improvements underway
- Technical Rapid Response Team tool

Pilot

National Cybersecurity Center of Excellence (NCCoE) Project

Demonstrate how a system built with validated products results in measurable assurance

- Build a prototype system using validated products
 - CAVP + CMVP + NIAP PPs with 800-53 mappings
- Automate assessment of conformance with SP800-53 controls that are specified in a System Security Plan

For More Information

NIAP website: www.niap-ccevs.org
email: niap@niap-ccevs.org
phone: 410.854.4458

CCRA: www.commoncriteriaportal.org

CSD website: csrc.nist.gov

CAVP email: cavpask@nist.gov

CMVP email: cmvp@nist.gov

Questions/Suggestions