

## Access Control: First Step in Information Sharing Within Communities of Interest

Today's dynamic operational environments rely on close collaboration among communities of interest – with goals as diverse as peacekeeping, humanitarian response, and commerce. Until recently, security constraints forced each partner to build and maintain their own infrastructure. When partners needed to share information, they typically had to approach someone they knew personally. “In the early days of information sharing, trust was based on personal relationships,” says Howard Schmidt, President and CEO of R&H Security Consulting, LLC, and former Special Adviser for Cyberspace Security. “You worked with someone, gave them a little information with the understanding they would protect it, and then they shared their information with you.”

The establishment of government Information Sharing and Analysis Centers (ISACs) underscored the need for a more institutionalized process for information sharing – one that could survive longer than personal relationships. “Government needs automated systems that ensure that information gets to the right person, at the right time, on any device,” says Schmidt.

### Access Control: The First Step

“Of the four requirements for secure information sharing among agencies – access control, content protection, data protection, and watchdog services – access control is often the first that agencies implement,” says Chris Shenefiel, federal government industry solutions manager for Cisco. Federal agencies have made progress in network access control by implementing Personal Identification Verification (PIV) cards that comply with FIPS 201.

By authorizing users, PIV cards only address one half of the access-control challenge, however. The other half is verifying the security posture of the device used for access. “Communities of interest need a way to ensure that employees can only access the network if they are using a device that is infection free, installed with required software or patches, and otherwise complies with the agency security policy,” says Tim Simon, Cisco Federal security marketing manager.

### The Big Three for Access Control: Identify, Scan, and Remediate

To provide effective access control in a community of interest, the solution needs to:

- *Identify* the user and the user's role. Federal contractors, for example, might be given access to a separate VLAN that does not provide access to servers containing sensitive information.
- *Scan* the user's device – PC, laptop, or personal digital assistant – to determine if it complies with the agency's security policy. Policies can stipulate the presence of required software, absence of unauthorized software, misconfiguration, software defects, and user account issues such as null passwords.
- *Perform automatic remediation* if required, which might include repairing the infection, installing or removing software, or changing settings. “To scale for the needs of communities of interest, it's important that remediation not require any action from either the employee or the agency IT group,” says Simon.

## Cisco Network Access Guardian

In response to the needs of growing numbers of government communities of interest and HSPD-12 requirements, the Cisco U.S. Federal Center of Excellence has developed an all-in-one solution for user authentication, device security posture assessment, and automated remediation. Cisco Network Access Guardian is a tested solution for Common Access Card (CAC) environments that provides additional network security. For more information on Cisco Network Access Guardian, visit <http://www.cisco.com/go/fedsecurity>.



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