



## CENTRALIZE AUTHENTICATION TO SUPPORT A ZERO-TRUST MODEL

Centralized authentication is a key for managing modern authentication. This capability, by itself, doesn't mean you have a zero-trust model. It does, however, provide the necessary visibility to know what is connected to, and happening across, the network. And it's one of the reasons this type of security control is required in programs like Continuous Diagnostics and Mitigation (CDM) and Trusted Internet Connections (TIC) 3.0.

"The result of centralizing authentication is to make the user experience easier, to have the ability to see where authentication is occurring and to enact policy engines where they will be the most effective," explains Patton.

In some ways, centralizing authentication becomes even more important than looking for flexibility in types of authenticators, she says, because "moving away from fragmented authentication policies will result in greater speed to react to risks and threats as they emerge."

Once centralized authentication is in place, organizations can enact other key [principles of zero trust](#), including policies that govern user and device trust and adaptive access.

## DIGITAL IDENTITY AND DYNAMIC AUTHENTICATION POLICIES

The ability to authenticate digital identity at time of request, and to continue to evaluate the security posture of the requestor, is a core tenet of zero trust. Centralizing that capability "ultimately gets organizations to a point where we've got strong policies that have been set up for unique groups of users, for applications and for the organization as a whole," says Patton.

To look at digital identity more holistically, Patton says that a central platform can capture that security data and start to gain insight to what the network looks like — including where the perimeter is and what devices are actually on the network. That process of discovery around digital identity will help agencies figure out what types of policies they need to enact and enforce.

Ideally, agencies want to get to a place where it doesn't necessarily matter what credential an employee was issued, or whether or not the employee is using a managed device. With strong MFA and identity assurance, the organization can centralize a policy engine in such a way as to determine whether or not access should be granted.

Referring back to the problem around shared administrative accounts, Patton explains that along with establishing identity assurance, this is where a strong multi-factor authenticator — that is unique to each individual — will start to build some semblance of trust back into the security model.

"If agencies are still using accounts with just a

password and no multi-factor enacted, they are missing critical controls to authenticate that the user is who they say they are. Only after establishing strong multi-factor authentication with some identity assurance across all its accounts can CISOs look at digital identity more holistically," she explains.

## TYING IT ALL TOGETHER

Security risks for distributed work environments are top of mind, and while the problem may seem overwhelming, Patton explains that there are out-of-the-box tools that allow agencies to establish stronger authentication and dynamic policy controls.

She pointed to an incident this past January, when Apple made a rare announcement that [security vulnerabilities in iOS 14](#) may have been actively exploited. Though details about the vulnerabilities were scarce, organizations who have built out a dynamic authentication system were able to act quickly.



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"When the iOS 14 vulnerability was announced, Duo's parent company, Cisco, implemented a policy change for access authentication. In a matter of minutes, Cisco rolled out the policy to all of its protected applications accessed by more than 400,000 endpoints making it a requirement for devices to install the iOS 14.4 update before they were able to connect to the network," explains Patton.

It didn't matter if the user had a managed device, and Cisco didn't need to push out an update across the system. They simply required users to act on their own — or not — to make an update if they wanted to access the company's resources with their devices.

*Learn more about modernizing authentication controls to allow your agency to react quickly to the next security threat.*

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