



TEXAS RE

CIP-005-7 R2 & R3

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Risk Element Areas of Focus: Remote Connectivity

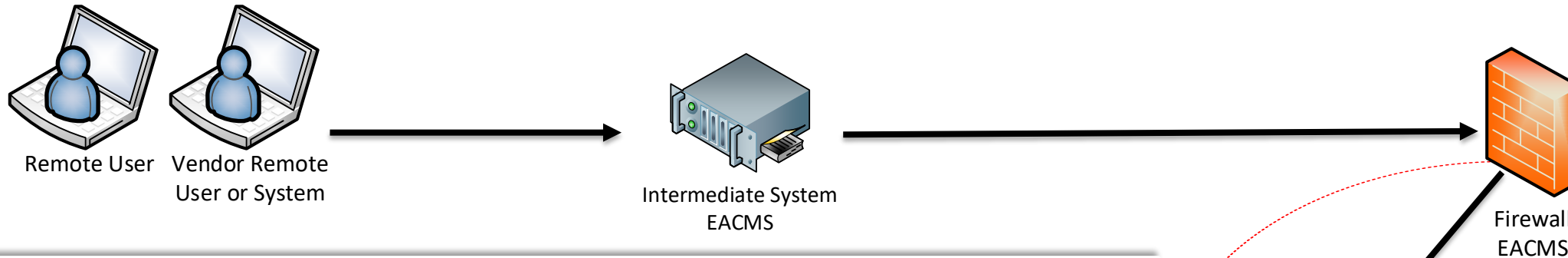
2025 ERO Enterprise Risk Elements

Areas of Focus

Table 2: Remote Connectivity			
Rationale	Standard	Req	Entities for Attention
Remote access to Critical Infrastructure Cyber Assets introducing increased attack surface, as well as possible increased exposure.	CIP-005-7	R2, R3	Balancing Authority Distribution Provider Generator Operator Generator Owner Reliability Coordinator Transmission Operator Transmission Owner



CIP-005-7 R2



Interactive Remote Access (IRA)

- Intermediate System
- Encryption that terminates at the Intermediate System
- Multi-factor authentication

Vendor Remote Access Sessions

- Determine active sessions
- Disable active sessions



Authenticated Vendor-Initiated Remote Connections

- Determine connection
- Terminate connection and control the ability to reconnect

Applicable Systems

- EACMS and PACS associated with High Impact BES Cyber Systems
- EACMS and PACS associated with Medium Impact BES Cyber Systems with External Routable Connectivity (ERC)



Remote Access Controls & Risks

NIST Controls

AC-17 REMOTE ACCESS

Control:

- a. Establish and document usage restrictions, configuration/connection requirements, and implementation guidance for each type of remote access allowed; and
- b. Authorize each type of remote access to the system prior to allowing such connections.

Control Enhancements:

(1) REMOTE ACCESS | MONITORING AND CONTROL

Employ automated mechanisms to monitor and control remote access methods.

Discussion: Monitoring and control of remote access methods allows organizations to detect attacks and help ensure compliance with remote access policies by auditing the connection activities of remote users on a variety of system components, including servers,

Risks



The background of the slide features a blurred image of a Texas state flag on the left and a close-up of a wind turbine's hub and blades on the right. The blades are white with red tips. A dark blue rounded rectangle with a thin light blue border is centered over the image.

Questions?



TEXAS RE

Ensuring electric reliability for Texans