



Compliance Component

DEFINITION

<i>Name</i>	Firewall Selection
<i>Description</i>	Selecting the appropriate firewall for a specific environment requires an understanding of the basic features of the various types of firewalls available. Supported feature sets, rather than firewall type, should drive the firewall selection.
<i>Rationale</i>	Recent advances in network infrastructure engineering and information security have resulted in a combining of the various firewall functions into hybrid products. It is not always a simple matter to decide which specific firewall product is the most suitable for a given application or enterprise infrastructure. Hybridization of firewall platforms makes the pre-purchase product evaluation phase of a firewall project important.
<i>Benefits</i>	<ul style="list-style-type: none"> Selecting the appropriate firewall provides the security functions needed in the most efficient and cost-effective manner

ASSOCIATED ARCHITECTURE LEVELS

<i>List the Domain Name</i>	Security
<i>List the Discipline Name</i>	Technical Controls
<i>List the Technology Area Name</i>	Secure Gateways and Firewalls
<i>List Product Component Name</i>	

COMPLIANCE COMPONENT TYPE

<i>Document the Compliance Component Type</i>	Guideline
<i>Component Sub-type</i>	

COMPLIANCE DETAIL

<i>State the Guideline, Standard or Legislation</i>	<p>Supported features, rather than firewall classification, should drive firewall selection.</p> <ul style="list-style-type: none"> For <u>speed</u>, <u>flexibility</u> and <u>simplicity</u>, select a firewall that includes: <ul style="list-style-type: none"> Packet Filter Firewall, or Stateful Inspection Firewall For <u>high-bandwidth</u> or <u>real-time</u> applications select a firewall that includes: <ul style="list-style-type: none"> Dedicated Proxy Server For greater <u>authentication</u>, select a firewall that includes: <ul style="list-style-type: none"> Application-Proxy Gateway Firewall, or Dedicated Proxy Server For greater <u>logging</u> capability, select a firewall that includes:
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	<ul style="list-style-type: none"> ○ Application-Proxy Gateway Firewall, or ○ Dedicated Proxy Server <ul style="list-style-type: none"> ● To perform specialized <u>filtering</u> (restrict outbound traffic to certain locations, examine all outbound email for viruses, restrict internal users from writing to the DMZ, track outgoing client ports individually, allow only established inbound connections) select a firewall that includes: <ul style="list-style-type: none"> ○ Dedicated Proxy Server, or ○ Stateful Inspection Firewall ● To assist in foiling <u>internally based attacks</u> or malicious behavior, select a firewall that includes: <ul style="list-style-type: none"> ○ Dedicated Proxy Server, or ○ Personal Firewall ● As an endpoint for a Virtual Private Network (VPN), select: <ul style="list-style-type: none"> ○ Personal Firewall <p>NOTE: Many application-proxy gateway firewalls have implemented basic packet filter functionality in order to provide better support for UDP (User Datagram Protocol) based applications. Likewise, many packet filter or stateful inspection packet filter firewalls have also implemented basic application-proxy functionality to offset some of the weaknesses associated with their firewall platform. In most cases, packet filter or stateful inspection packet filter firewalls also implement application proxies to provide improved network traffic logging and user authentication in their firewalls.</p>			
<i>Document Source Reference #</i>				
Standard Organization				
<i>Name</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td data-bbox="477 1224 857 1325">NIST SP 800-41, Guideline for Firewalls and Firewall Policy</td> <td data-bbox="857 1224 1024 1325"><i>Website</i></td> <td data-bbox="1024 1224 1476 1325">www.csrc.nist.gov/publications/nistpubs</td> </tr> </table>	NIST SP 800-41, Guideline for Firewalls and Firewall Policy	<i>Website</i>	www.csrc.nist.gov/publications/nistpubs
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<i>Contact Information</i>				
Government Body				
<i>Name</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td data-bbox="477 1413 857 1514">National Institute of Standards and Technology (NIST)</td> <td data-bbox="857 1413 1024 1514"><i>Website</i></td> <td data-bbox="1024 1413 1476 1514">http://csrc.nist.gov/</td> </tr> </table>	National Institute of Standards and Technology (NIST)	<i>Website</i>	http://csrc.nist.gov/
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<i>Contact Information</i>				
KEYWORDS				
<i>List all Keywords</i>	Hybrid, packet filter, application proxy, stateful inspection, personal firewall, dedicated proxy server			
COMPONENT CLASSIFICATION				
<i>Provide the Classification</i>	<input type="checkbox"/> <i>Emerging</i> <input checked="" type="checkbox"/> <i>Current</i> <input type="checkbox"/> <i>Twilight</i> <input type="checkbox"/> <i>Sunset</i>			
Rationale for Component Classification				
<i>Document the Rationale for Component Classification</i>				

Conditional Use Restrictions			
<i>Document the Conditional Use Restrictions</i>			
Migration Strategy			
<i>Document the Migration Strategy</i>			
Impact Position Statement			
<i>Document the Position Statement on Impact</i>			
CURRENT STATUS			
<i>Provide the Current Status</i>	<input type="checkbox"/> <i>In Development</i>	<input type="checkbox"/> <i>Under Review</i>	<input checked="" type="checkbox"/> <i>Approved</i> <input type="checkbox"/> <i>Rejected</i>
AUDIT TRAIL			
<i>Creation Date</i>	05/27/2004	<i>Date Accepted / Rejected</i>	06/08/2004
<i>Reason for Rejection</i>			
<i>Last Date Reviewed</i>		<i>Last Date Updated</i>	
<i>Reason for Update</i>			