



Highlights

- Maximize network availability by minimizing “time to failover”
 - Enable uninterrupted access to applications by maintaining link state during bypass operations
 - Power high-availability network Intrusion Prevention System deployments
 - Simplify troubleshooting with simple network management protocols (SNMP) trap support and email support
 - Provide range of models that support 1 GbE and 10 GbE networks and up to four network segments
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IBM Security Network Active Bypass

Add maximum availability to maximum network security

Organizations today must constantly strive to maximize network security—to protect critical data and applications, and to comply with industry and regulatory mandates. Simultaneously, they must also strive for 100 percent network uptime to ensure competitive, uninterrupted business operations. Utilizing inline security appliances presents the potential risk of introducing new points of failure into the network.

IBM makes it possible to maximize both network security and availability by complementing the IBM Security Network Intrusion Prevention System with the IBM Security Network Active Bypass. If a Security Network Intrusion Prevention System appliance fails for any reason, the bypass is designed to ensure that the network remains functional and users have unimpeded access to business-critical applications and data. Designed for fast, simple deployment, the Security Network Active Bypass has extensive management capabilities and allows flexibility by supporting four independent interface segments in various combinations.

Providing both active and passive bypass capabilities

The Security Network Active Bypass intelligently incorporates two bypass modes: active and passive. The active bypass capabilities provide maximum flexibility and deliver an uninterrupted communications session, and the passive bypass capabilities deliver traditional static bypass.



Powering high-availability network intrusion prevention system deployments

The Security Network Active Bypass provides the option to deploy Security Network Intrusion Prevention System appliances with high availability. In the event that a primary Intrusion Prevention System device should fail, the Security Network Active Bypass can be configured to fail in a way that allows the network to redirect traffic to an alternate Security Network Intrusion Prevention System appliance.

Enabling plug-and-play installation and simple configuration

A self-generating “heartbeat” makes installation fast and simple; and because the heartbeat is configurable, users can match their requirements for heartbeats and failover by using the Intrusion Prevention System heartbeat or link state change.

Providing intelligent, modular operation

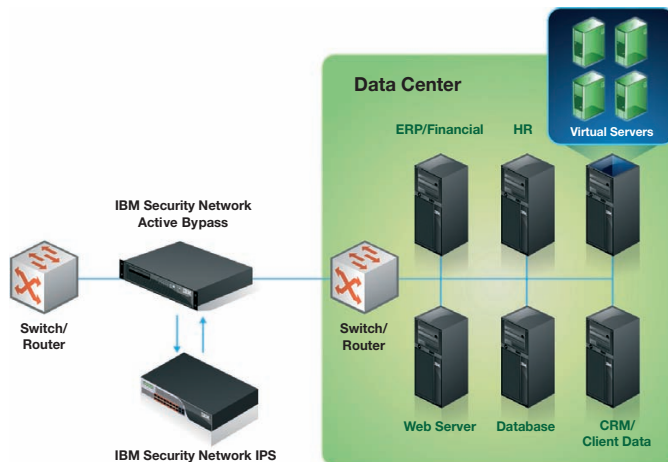
The Security Network Active Bypass supports four independent network segments, each offering full bypass functionality without interrupting existing network sessions. This includes allowing the existing network infrastructure to reroute traffic automatically if an inline network appliance must be taken off the network for maintenance. It also performs failover in case of a software crash or power failure. Segments are segregated, so if one segment goes into bypass, the other segments remain unaffected.

Streamlining monitoring and troubleshooting

The unit’s extensive but easy-to-use management capabilities include support for web graphical user interface (GUI), HTTPs, simple network management protocols (SNMP), email notifications and Command Line Interface (CLI). It also supports Test Access Port (TAP), which enables IT staff to monitor network links.

Delivering reliability and economy

The Security Network Active Bypass includes two redundant power supplies for maximum uptime. Its intelligent and efficient design enables very low power consumption and increases reliability by eliminating the need for a fan.



IBM Security Network Intrusion Prevention System provides protection for the data center and core networks. IBM Security Network Active Bypass helps ensure network availability for critical applications and network segments.

Why IBM?

IBM Security Network Intrusion Prevention System appliances are highly effective solutions in terms of both security and availability. Security Network Active Bypass appliances are designed to simply enhance the existing high availability features found in IBM intrusion prevention appliances to ensure the highest levels of reliability and availability.

In the case of an IBM Security Network Intrusion Prevention System failure for any reason, the Security Network Active Bypass system ensures that the network remains functional. It is an intelligent and effective system that combines flexible configuration, simple management and reliable, low-cost operation.

IBM Security Network Active Bypass at a glance

	IBM Security 1G Network Active Bypass	IBM Security 10G Network Active Bypass
High availability		
Active/Active	Yes (using Active/Active clustering on supported intrusion prevention system [IPS] platforms)	Yes (using Active/Active clustering on supported IPS platforms)
Active/Passive	Yes	Yes
Redundant power supplies	Yes (external)	Yes (internal)
Dimensions		
Form factor	1U	1U
Height (in./mm)	1.7/43	1.7/43
Width (in./mm)	16.75/425	16.75/425
Depth (in./mm)	11.8/300	20/508
Electrical and environmental parameters		
Input range (V, AC)	100 - 240	
Current rating (A)	1.4 maximum	2.2 maximum
Frequency (Hz)	47 - 63	47 - 63
Operating temperature	10°C - 35°C (50°F - 95°F)	
Relative humidity (operating)	20 - 80 percent @ 21°C (69.8°F) maximum dew point	
Non-operating temperature	5°C - 45°C (41°F - 113°F)	
Relative humidity (non-operating)	8 - 80 percent @ 27°C (80.6°F) maximum dew point	
Safety/certification/declaration	UL/CSA/EN/IEC 60950-1	
Electromagnetic compatibility certification/declaration	Class A. FCC, IC, CE Mark (EU DoC), VCCI, KCC, AUS/NZ, GOST	
Environmental certification/declaration	RoHS	

IBM Security 1G Network Bypass models	Supported 1 GbE segments
ABYP-4T-0S-0L	4 copper
ABYP-0T-4S-0L	4 SX fiber
ABYP-0T-0S-4L	4 LX fiber
ABYP-4TS	4 TS fiber
ABYP-4TL	4 TL fiber
ABYP-2T-2S-0L	2 copper + 2 SX fiber
ABYP-2T-0S-2L	2 copper + 2 LX fiber
ABYP-2T-1S-1L	2 copper + 1 SX fiber and 1 LX fiber
ABYP-0T-2S-2L	2 SX fiber + 2 LX fiber
IBM Security 10G Network Bypass models	Supported 10/1 GbE segments
ABYP-10G-2SR-2LR	2 SR fiber + 2 LR fiber
ABYP-10G-4LR	4 LR fiber
ABYP-10G-4SR	4 SR fiber

For more information

To learn more about IBM Security Network Active Bypass, please contact your IBM representative or IBM Business Partner, or visit the following website: ibm.com/tivoli/solutions/threat-mitigation



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