RAVEN 4000 Series
Intrusion Detection System

RAVEN IDS (Intrusion Detection System) is a new network security device developed by Hirschmann IT for compliance requirement and cyber security trend. The powerful historical baseline analysis system helps users understand the historical changes of network risks in depth and correctly evaluate the benefits of each security reinforcement. RAVEN IDS can work with other RAVEN security products, Hirschmann EAGLE products and Tripwire security software suits to reduce the security risks in the process of IT/OT convergence.

Many customers have begun to regard network security compliance as an important goal of network construction. In addition, the customization of network applications has become more common, and the risks introduced by traditional firewall and inline network detection system become difficult to ignore. In this circumstance, IDS endows administrators with another option to deal with security risks.

Bypass Deployment and High Availability (HA)
RAVEN IDS has less interference on network comparing to IPS or other inline network security solution, which benefits from bypass deployment mode. On the other hand, RAVEN IDS prevents the risk exposure during chassis failure with HA function.

Flexible Detection
Not only support regular updates on pre-defined signature and event, but also support customized signature and multiple identification chain, which provide more possibilities for threat detection.

Integrated Protection
RAVEN IDS can be integrated into Belden cyber security solution, which can co-work with RAVEN Next Generation Firewall, EAGLE firewall and Tripwire security suits.

Be certain.
Belden.

Key Feature:

Integration Protection

RAVEN IDS is designed as part of the total security solution of Belden. Synchronizing with RAVEN EYE, RAVEN IDS shares the same security updates with RAVEN Next Generation Firewall (NGFW), which helps implement end-to-end security strategy and also helps network administrators assess their security strategy with the same benchmark. Together with Hirschmann EAGLE firewall and RAVEN NGFW, RAVEN IDS also provide raw network security information to Tripwire security software suits. All togther these mentioned products can offer efficient, comprehensive and intelligent total security solutions to customers and reduce the security risks in the process of IT/OT convergence.

Bypass Inspection and High Availability (HA)

Generally, L7 or deep-inspection device will increase latency and jitter in network when they are connected into the network. However, RAVEN IDS uses bypass deployment to avoid any negative impact on network performance. On the other hand, in order to avoid the risk exposure during device failure, RAVEN IDS support HA, which provide additional reliability in security solution.

Comprehensive Inspection

RAVEN IDS supports flexible deployment mode, which can be deployed as standalone mode or distributed mode. In distributed mode, multiple RAVEN IDS can be managed via centralized node to implement centralized configuration and data collection. The new two-level fitting engine design can match the signature and behavior profile at the same time, which helps to realize a more extensive and more accurate identification. RAVEN IDS can form a security community with RAVEN Next Generation Firewall (NGFW), which helps RAVEN NGFW to deliver a more efficient security protection with the strong computing power of RAVEN IDS.

RAVEN EYE

RAVEN EYE is an intelligent analysis center which contains compressed behavior signature and profile information database. It can get latest cyber security events from over 70 traffic flow sampling centers around the world. By combining these collected data with RAVEN EYE security analysis, tracking and modeling database, any new network attack and security events around the world will be updated onto RAVEN EYE database within 6 hours. Through regular updates to the information base, RAVEN NGFW and RAVEN IDS can identify the latest network attacks and implicit risks.

Effective Presentation

RAVEN IDS assesses traffic in multiple dimensions, which effectively avoid delivering repetitive and false positive error messages by utilizing each traffic's unique flow fingerprint. As for risks that have already been identified, RAVEN IDS will provide warning messages including many valued information, such as risk detail, handling suggestions and so forth, according to network profile, historical alarm messages and network environment. RAVEN IDS provides an alarm display means by which the alarm combines with the physical geographical topology to offer a more intuitive threat information.

Multi-functional Report

RAVEN IDS provides analysis report based on time, address, event and other multiple parameters. Combined with historical analysis data, it can clearly show the trend of security risk and help to evaluate the result of network security construction. It also provides analysis report components that can be deployed independently, and has nearly 100 built-in report templates. It can also combine report types according to user's requirements.

Hardware Feature:

Type	RAVEN 4300	RAVEN 4500
Hardware Specifications		
Port type & quantity	5 x FE/GE TX	
USB ports	2	
Console ports	1 × RJ45 Console port	
Out of Band management port	1 × GE TX	
Extended media module slot	1	
Extended media module type	RAVEN 4300M-XX	RAVEN 4500M-XX
Extended media module port type	8GE/8SFP/4GE4SFP	8GE/8SFP/4GE4SFP
Mechanical Construction		
Dimension (W × D × H)	435mm × 360mm × 44mm	435mm × 360mm × 88mm
Weight	8.1kg	9.6kg
Mounting	Rack mount, 1U	Rack mount, 2U
Power Requirement		
Operating voltage	1 × fixed single PSU, 100-240VAC, 50-60Hz, 2A	2 × fixed redundant PSU, 100-240VAC, 50-60Hz, 2A
Ambient Condition		
Operating temperature	0°C ...40°C	
Storage/transport temperature	-20°C ...70°C	
Relative humidity (non-condensing)	5%...85%	
Storage/transport humidity(non-condensing)	5%...95%	
Certification		
Compliance	RoHS ((EU) 2015/863) and RoHS (GB/T26572-2011) compliant	
Certifications	CE/FCC/China Network Access Certificate	

Order Information:

Product No.	Product Code	Description
IDS		
942999713	RAVEN 4500	5 x GE TX ports, 1 × RJ45 console port, 1 × extended slot
942999714	RAVEN 4300	5 x GE TX ports, 1 × RJ45 console port, 1 × extended slot
IDS Bundle		
942999761	RAVEN 4500-1YR Bundle	RAVEN 4500 bundle, 1 × RAVEN4500 Device + 1 year premium support & warranty + 1 year subscription
942999762	RAVEN 4300-1YR Bundle	RAVEN 4300 bundle, 1 × RAVEN4300 Device + 1 year premium support & warranty + 1 year subscription
Extended Media Module for IDS		
942999715	RAVEN 4500M-8T	8 × GE TX ports media module for RAVEN 4500
942999716	RAVEN 4500M-8F	8 × GE SFP ports media module for RAVEN 4500
942999717	RAVEN 4500M-4T4F	4 × GE TX ports and 4 × GE SFP ports media module for RAVEN 4500
942999718	RAVEN 4300M-8T	8 × GE TX ports media module for RAVEN 4300
942999719	RAVEN 4300M-8F	8 × GE SFP ports media module for RAVEN 4300
942999720	RAVEN 4300M-4T4F	4 × GE TX ports and 4 × GE SFP ports media module for RAVEN 4300
RAVEN 4000 Premium Support & Warranty[1]		
942999745	RAVEN 4500-Support-1YR	Premium support & warranty 1 year, RAVEN 4500
942999746	RAVEN 4500-Support-3YR	Premium support & warranty 3 year, RAVEN 4500
942999747	RAVEN 4500-Support-5YR	Premium support & warranty 5 year, RAVEN 4500
942999748	RAVEN 4300-Support-1YR	Premium support & warranty 1 year, RAVEN 4300
942999749	RAVEN 4300-Support-3YR	Premium support & warranty 3 year, RAVEN 4300
942999750	RAVEN 4300-Support-5YR	Premium support & warranty 5 year, RAVEN 4300
RAVEN 4000 Signature Database Subscription[2]		
942999751	RAVEN 4500-Subscription-1YR	IDS signature database subscription 1 year, RAVEN 4500
942999752	RAVEN 4500-Subscription-3YR	IDS signature database subscription 3 year, RAVEN 4500
942999753	RAVEN 4500-Subscription-5YR	IDS signature database subscription 5 year, RAVEN 4500
942999754	RAVEN 4300-Subscription-1YR	IDS signature database subscription 1 year, RAVEN 4300
942999755	RAVEN 4300-Subscription-3YR	IDS signature database subscription 3 year, RAVEN 4300
942999756	RAVEN 4300-Subscription-5YR	IDS signature database subscription 5 year, RAVEN 4300

1: premium support does not contain on-site support
2: subscription contains signature database updates