"The LAST thing we want is a bunch of pipes or metal raceway on the walls that we have to inspect EVERY day!"
-DOD Customer

APPLICATION:

Enabling Cost-Effective SIPRNet Deployment to SCIFs, Workcenters, or Individual Users inside of Buildings

The Challenge

SIPRNet deployments are accelerating at a rapid pace across government and military installations worldwide, resulting in an explosion in SCIF construction and SIPRNet access points throughout the facilities. As a result, the traditional PDS approach of installing unencrypted SIPRNet cables inside of EMT or sealed metallic raceway below the ceiling has become extremely cost prohibitive, detracts from building aesthetics, requires an extensive amount of time for installation that is disruptive to personnel and operations within the facilities. Furthermore, once the EMT or raceway systems are installed, they require DAILY visual inspection along the entire PDS system to ensure the security of the network and to maintain the Certification and Accreditation of the network. With current and future growth of SIPRNet and JWICS, IA managers are looking for solutions that **significantly reduce the cost of SIPRNet deployments** and provide for the long-term scalability and flexibility to meet on-going changes in mission and organizational structure.

The Solution

Since 2003, the INTERCEPTOR™ Optical Network Security System has been leveraged by the DOD and the intelligence community as an innovative PDS solution that provides significant cost savings of materials and labor, as well as the ability to quickly secure new or pre-existing cable infrastructure with no disruptive impact to the building or it's tenants. Using INTERCEPTOR™ to monitor the optical cables transmitting the national security information enables the EMT or metallic conduit carrying the network cabling to be installed hidden above the ceiling or below a raised floor and eliminates the daily requirement for Periodic Visual Inspections (PVIs) of the hardened raceway. This results in lower operational costs, increased security, improved building aesthetics, and vastly enhanced scalability of the network. In certain cases the EMT can even be replaced with Interlocking Armored Optical Cables that are protected with INTERCEPTOR™, resulting in even more dramatic savings in material and labor.

INTERCEPTOR™
is fully compliant with NSTISSI 7003 and the corresponding implementation guidelines of the various agencies and services.

PROVEN TECHNOLOGY

INTERCEPTOR™

An Approved Alarmed PDS Solution That Has Been Leveraged In Support Of:

- Air Force INTEL
- Army INSCOM
- CENTCOM
- DHS
- DIA
- DOJ
- DOD Office of the Inspector General
- Naval Surface Warfare Center
- Naval Undersea Warfare Center
- NRO
- SPAWAR
- The Pentagon
- Major Systems Integrators

NetworkIntegrity SYSTEMS
We Bring Security To Light™
301 10th St. NW Suite E101,
Conover, NC 28613 USA
877.NIS.4PDS
www.sipr-osp.com

Cost-Benefit Analysis

INTERCEPTOR Optical Network Security System Versus Simple Hardened PDS
To Secure Optical Cables Carrying Unencrypted National Security Information

Scenario*

Fort "Warfighter" Needs To Extend SIPRNet
Connectivity To Users Dispersed Throughout A Building

Challenge

Protecting The Cables While Balancing Cost, Impact
on the Facility, Time of Installation, and Performance.

	Scenario 1 - Small Building *300 Feet of Raceway / 4500 Sq. Ft. Building / 24 Drops*			Scenario 2 - Medium Building *600 Feet of Raceway / 9000 Sq. Ft. Building / 24 Drops*			Scenario 3 - Large Building *1200 Feet of Raceway / 18,000 Sq. Ft. Building / 24 Drops*		
	EMT Raceway	*Engineered Raceway*	*Interceptor™ with Interlocking Armored Cable*	*EMT Raceway*	*Engineered Raceway*	*Interceptor™ with Interlocking Armored Cable*	*EMT Raceway*	*Engineered Raceway*	*Interceptor™ with Interlocking Armored Cable*
PDS Material and Labor Cost	$17,100	$20,300	$2,500	$34,200	$40,600	$5,000	$68,400	$81,200	$10,000
Cost of Cable and Installation Labor	$8,600	$8,600	$6,500	$17,100	$17,100	$13,100	$34,200	$34,200	$26,200
Cost of INTERCEPTOR™ Equipment and Installation Labor	$0	$0	$14,000	$0	$0	$18,000	$0	$0	$36,000
Total Cost	$25,700	$28,900	$23,000	$51,300	$57,700	$36,100	$102,600	$115,400	$72,200
INTERCEPTOR™ Savings	Up to **10%** Savings in Materials and Labor			Up to **30%** Savings in Materials and Labor			Up to **30%** Savings in Materials and Labor		

INTERCEPTOR Minimizes the Burden on Operational Units by Eliminating DAILY Visual Inspections

Comparison of Possible Solutions

	Traditional Hardened PDS		Alarmed Carrier	
	EMT Raceway	Engineered Raceway	Traditional Alarmed Carrier	INTERCEPTOR™ with Interlocking Armored Cable
Cost				
Material Costs	Moderate	High	High	Moderate
Installation Costs	High	High	High	Low
Periodic Visual Inspections	Required	Required	Not Required	Not Required
Reusable	No	Yes, But With Considerable Labor & Worksite Disruption	Equipment / Yes Raceway / No	Yes
Ease of Making Adds and Changes	Difficult	Difficult - CTTAs require all seams epoxied	Difficult	Simple
Facility Impact				
Time to Install	Long	Long	Long	Quick
Workspace Disruption During Install	High	High	High	Low
Aesthetics	Unsightly Pipe on Walls	Painted Raceway on Walls	Nothing on Walls	Nothing on Walls
Performance				
Protection Profile	Deter Intrusions	Deter Intrusions	Deter and Detect Intrusions	Deter and Detect Intrusions
Reliability of Protection	100% Dependent on Daily Inspections	100% Dependent on Daily Inspections	24/7 Monitoring by Alarm System	24/7 Monitoring by Alarm System
Concealment	None - Spotlights Secure Network Infrastructure	None - Spotlights Secure Network Infrastructure	None - Spotlights Secure Network Infrastructure	Hides Secure Network Infrastructure

The Bottom Line: INTERCEPTOR Keeps Your PDS In The Green