

Paradigm Shifts

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Vice President of Sales
Glimmerglass Networks

Glimmerglass Networks Overview

- A global provider of optical cyber solutions
 - Intelligence Agencies
 - Defense System Integrators
 - Telecommunications Service Providers
- Customer base in North America, Europe and Asia, expanding into the Middle East
- Broad portfolio of 28 core patents
- Headquarters in Silicon Valley, California





Selected Premier Customers

Intelligence, Defense and Cyber Security



Various Government **Agencies**



Signal

Technology, Inc.



Raytheon







U.S. Navy



U.S. Air **Force**



NORTHROP GRUMMAN

U.S. Army









U.S. **Department** of State

Defense Analysis

Telecom Service Providers









Advanced Technology Research

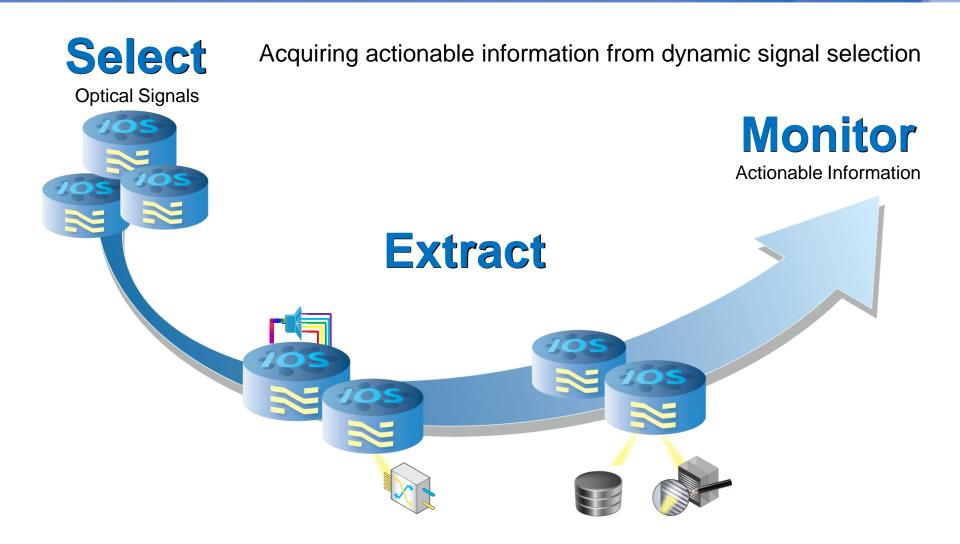




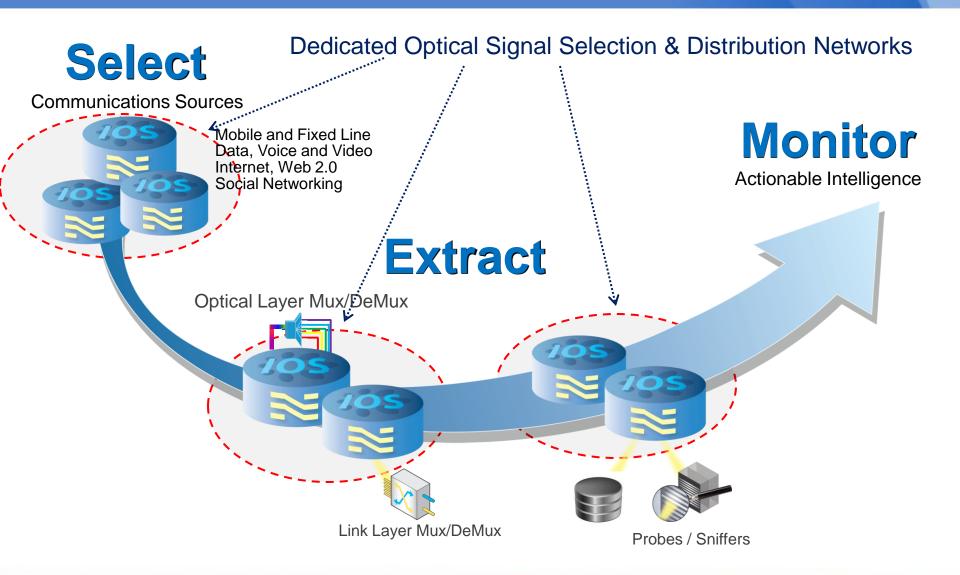




Glimmerglass CyberSweepTM



End-to-End Cyber Security Solution



Select Optical Signals to Access Communications

Select

Communication Sources



Submarine Cable Landing Station



Point of Presence (POP) / Central Office











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Mobile and Fixed Line

Data, Voice and Video

Internet, Web 2.0



















Probes / Sniffers

Extract the Content

Select

Optical Signal to Data

Communication Sources

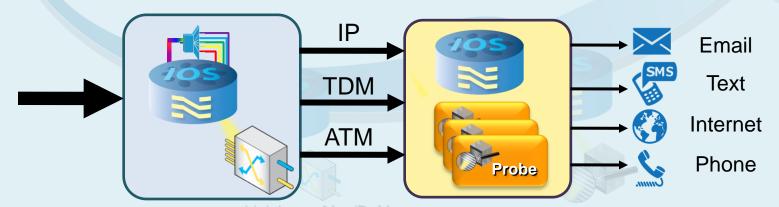
Extract



Signal Processing

Optical Layer Mux/DeMux

Application/Protocol Processing



Monitor Targets and Communications



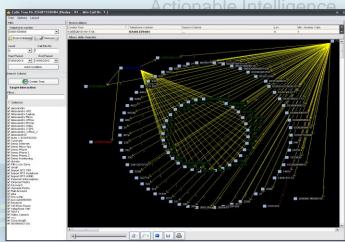
Monitor Targets and Communications

Select

Communication Sources



Monitor



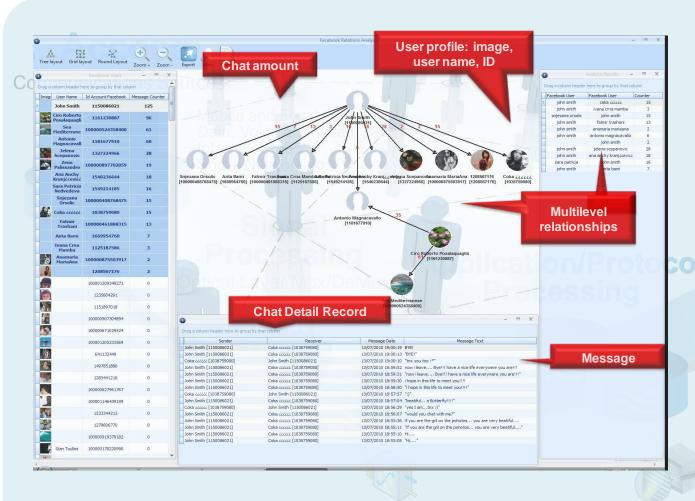






Monitoring (cont.)

facebook



Monitor

Actionable Information

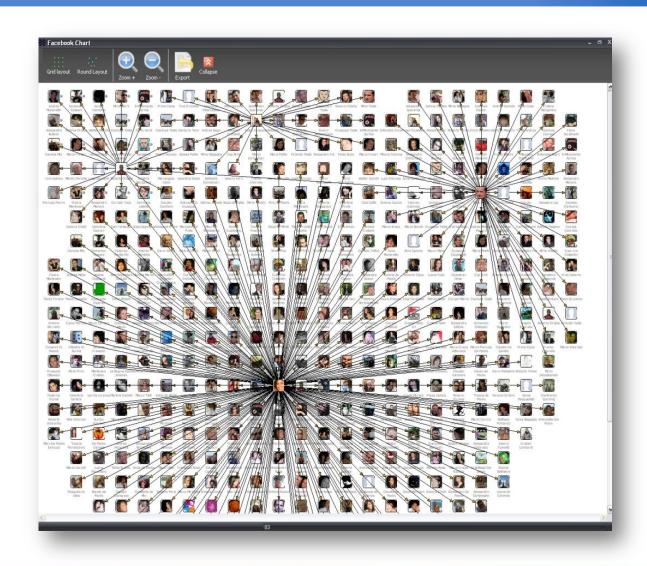
Link Layer Mux/DeMux

Probes / Sniffers



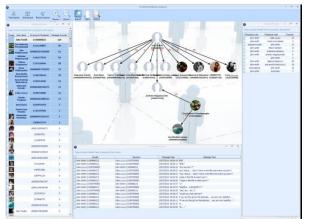
Actionable Information

facebook

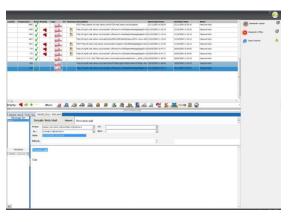


Monitor Internet, Webmail, VoIP, Internet, Mobile

Facebook



Webmail



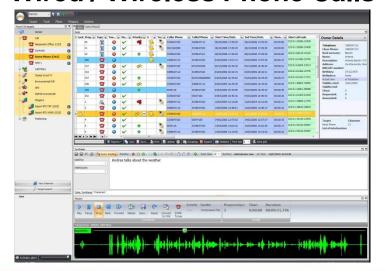
Chat



Internet Sessions: NetMeeting



Wired / Wireless Phone Calls



Optical Signal Management Solutions

Intelligent Optical Subsystems

Purely Optical Photonic

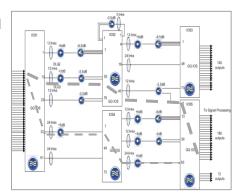
Purely Optical, Photonic



Switching Splitting Multicasting **Amplification**

CyberSweepTM Path Manager

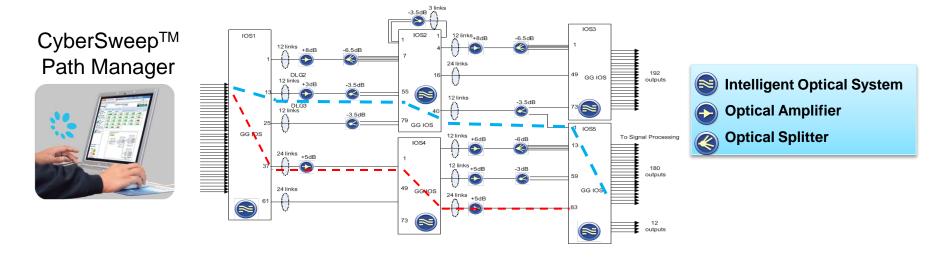








Intelligent Optical Signal Path Management



- Rapidly and remotely create and reconfigure optical signal paths
- Monitor status of optical signal paths in real time
- Track and audit optical path and user activities
- Simplify management of optical signal networks

Reduces complexity, Saves Time, Improves Productivity & Accuracy



Intelligent Optical System (IOS)



Fully Non-Blocking Switching Fabric, Any to Any

Transparent: Bit Rate, Format and Protocol Independence

Compact: 16x16 up to 192x192 fibers in 4 RU (7" of rack space)

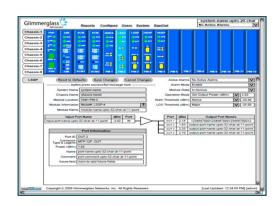
Green Technology: Low Power and Heat < 85 Watts

> 30 Years Mean Time Between Failure (MTBF)

Intelligent Peripheral System (IPS)

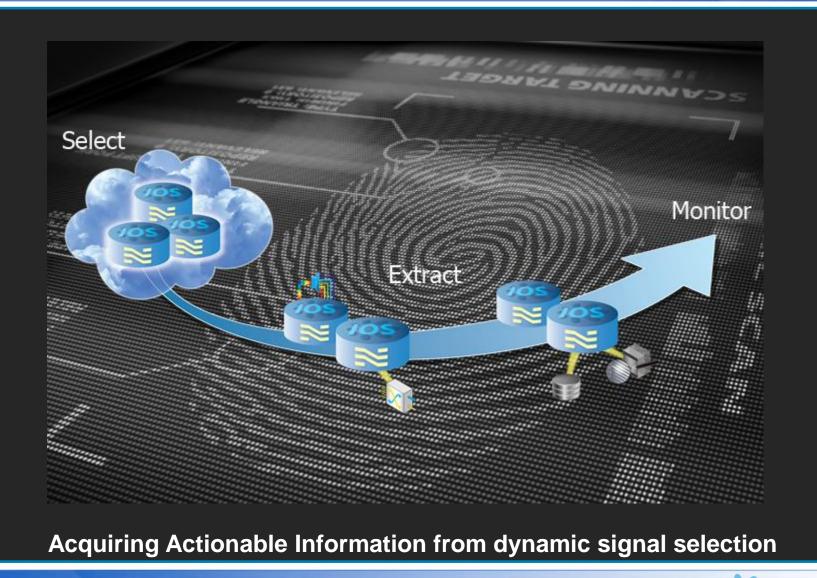
Flexible Applications Platform





- High Density Splitters: splits from 1:2 up to 1:16
- Amplification
- Lossless Splitting
- Dense Wavelength Division Multiplexing and Demultiplexing
- Optical Performance Monitoring

Glimmerglass CyberSweepTM



Thank You

Visit us at www.glimmerglass.com