

## The Vision

The explosion of Internet usage, applications, protocols, and communication devices has made the traditional tasks of networking increasingly difficult. Ranging from network security, through traffic management, content control and monitoring, the network infrastructure is struggling to keep pace with the demands of implementing emerging services with complex policies at increasing speeds over an increasingly varied traffic profile. The business impact of this struggle is far reaching. Security is compromised. Capacity is strained. Usage is abused. Services are limited. Capital and operational expenses increase.

At the heart of the solutions to these issues is a new technology: Deep Packet Inspection (DPI). DPI promises to give its network owners the tools needed to develop new services, secure and regain control over their network.

There are many challenges in deploying DPI-based applications and services. DPI is a "high-throughput high-compute" discipline, combining complex processing at very high networking speeds, and inherently requiring almost unlimited flexibility. Initial attempts to provide DPI-based solutions have focused narrowly on point-solutions. The time has come for a broader solution, one that recognizes DPI as a fundamental networking technology and delivers a comprehensive approach that both overcomes the technical challenges presented by DPI-based applications and addresses the core customer requirements.

Bivio has delivered this solution.

## Bivio Overview

Founded in 2000, Bivio Networks is dedicated to providing leading networking systems for deep packet inspection (DPI) networking applications and services. Its products address a wide range of customer solutions, including network security, monitoring and surveillance, traffic management, content-based processing, value-added services, and many other DPI-based networking applications. Bivio's global customer base includes worldwide government agencies, service providers and leading DPI-based application developers. Bivio is privately-held and is headquartered in the San Francisco Bay Area with office locations worldwide.

## Products

### Bivio Application Platform

The Bivio 7000 is Bivio's third generation of its award-winning networking device built specifically for DPI applications. Fully programmable in a standard Linux environment, it combines high-speed networking design elements with powerful compute capabilities to offer an unmatched combination of performance and flexibility. Built-in multi-application support enables co-location of multiple DPI-based applications, while its unique scaling properties ensure that wire-speed performance is maintained regardless of policy, network traffic profile, or complexity of application. The Bivio 7000 enables customers to rapidly deploy both passive and inline wire-speed DPI-based applications and services at speeds of 10 Gbps and beyond.

### Application Services Gateway (ASG)

Bivio's ASG is the first DPI-based multi-application service platform and represents the next generation Service Provider subscriber gateway device. It enables Service Providers and other customers to leverage DPI capabilities to implement and deploy DPI-based applications and services. Unlike traditional service platforms that rely on multiple disparate devices and applications, the ASG provides an integrated software suite of applications and services, bound together by a powerful DPI classification engine. The result is an unparalleled ability to deploy powerful DPI-based multi-application services including traffic management, content-based filtering, processing and billing, managed security, VoIP monitoring, Service Protection, and others.

## Bivio At A Glance

### Year Founded

- 2000

### Location

- Pleasanton, CA

### Investors

- Cross Technology Venture Partners
- Goldman Sachs
- InterWest Partners
- ITOCHU Corporation
- ITOCHU Techno-Solutions Corporation (CTC)
- Silver Creek Ventures
- Storm Ventures
- Venrock Associates



**Bivio 7000**



**Bivio ASG**

## Target Markets

### Law Enforcement/Government/Military Agencies

Bivio's products are widely deployed throughout global law enforcement, government and military organizations. With its unmatched combination of performance and flexibility, the Bivio 7000 is the ideal platform for the deployment of a wide range of mission critical DPI-based applications, including cyber-defense systems, surveillance, interception, monitoring, flow analysis, multi-probe tools, and others.

### Service Providers

Bivio's ASG enables service providers to rapidly deploy advanced new subscriber services for increased ARPU, reduced operational expenses, and increased customer loyalty. In addition, the Bivio Application Platform provides a carrier-class platform for the deployment of custom DPI-based services and solutions.

### Vertical Solutions

As DPI is quickly emerging as a core network technology of next generation networking, increasing numbers of customers are demanding custom solutions requiring DPI-based functionality. These customers, covering a wide range of disciplines, including financial services, healthcare, e-commerce and internet infrastructure providers, all rely on the combination of flexibility, performance, and extensive DPI expertise that Bivio provides to create and deploy custom DPI-based applications in their networks.

## Partners

### System Integrators/Value-added Resellers

Bivio is committed to strong partnerships with Systems Integrators (SIs) and Value-added Resellers (VARs). Whether creating custom applications or integrating existing security DPI-based applications, including open-source applications, Bivio and its products offer SIs and VARs a huge range of opportunity to create and deploy DPI-based applications and services for their customers. Bivio's Application Library provides partners with a seamless installation, deployment and maintenance of 3rd party applications – including leading open-source applications – on the Bivio Application Platform.

### Network Equipment Vendors/ISVs

Network Equipment Vendors and ISVs can take advantage of the programmability and performance of the Bivio DPI Application Platform to create market-leading wire-speed deep packet processing applications and services. A standard Linux programming environment, combined with powerful networking capabilities shorten development times, reduce R&D costs, and ensure market-leading performance in a performance-sensitive market.

## About Bivio Networks

Bivio Networks is dedicated to providing leading networking systems for deep packet inspection (DPI) networking applications and services. The company's products support a wide range of customer solutions, including network security, monitoring and surveillance, traffic management, content-based processing, value-added Web 2.0 applications and services, and many other DPI-based networking applications. Bivio's global customer base includes worldwide government agencies, service providers, leading DPI-based application developers, and systems integrators. Bivio is privately-held and is headquartered in the San Francisco Bay Area with office locations worldwide. More information is available at [www.bivio.net](http://www.bivio.net).

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