



Login

Nickname

 Password

Don't have an account yet? You can [create one](#). As a registered user you have some advantages like theme manager, comments configuration and post comments with your name.

Main Menu

- [Home](#)
- [All Topics](#)
- [Calendar of Events](#)
- [Content](#)
- [Feedback](#)
- [Forums](#)
- [Mobile Edition](#)
- [Search](#)
- [Stories Archive](#)
- [Submit News](#)
- [Surveys](#)
- [Tell-a-Friend](#)
- [Web Directory](#)
- [Your Account](#)

Calendar of Events

June 2004

S	M	T	W	T	F	S
		<u>1</u>	2	3	4	5
6	7	<u>8</u>	9	10	11	12
13	14	<u>15</u>	16	17	18	19
20	21	22	23	24	<u>25</u>	26
27	28	29	30			

[Submit Event](#)

Global Velocity Inc.

Global Velocity, Inc. is commercializing technology developed at the Applied Research Lab at Washington University in St. Louis that facilitates high-speed, real-time content-matching and tracking of data flow at the edge of information networks. The technology uses reconfigurable hardware that currently operates at speeds of up to OC-48 (2.4 Gigabits per second). Relying on proven technology, the company's hardware is remotely and quickly reprogrammable, allowing for rapid refinement of search criteria to create solutions to today's complex network security issues.



The technology creates an "Intelligent Gateway" at selected points either on the edge or within a single node or multi-node network, facilitating the real-time, event-driven validation and categorizing of information by scanning data deep inside the traffic flow, - not just in layers 1, 2 and 3 - as it passes through the device. A high throughput is possible because the content matching operations are performed in hardware, rather than software, allowing multiple actions to occur simultaneously, not sequentially. This high rate is especially important for large networks, where data volume is high and latency is unacceptable.

Utilizing proven Field Programmable Gate Array (FPGA) technology installed within the innovative Field-programmable Port Extender (FPX) platform allows the Intelligent Gateway to be quickly and easily reprogrammed to refine search and identification parameters, on the fly. By stacking and configuring additional FPX cards (up to 8 in the 3U unit), the amount of search capacity of the system is increased. Additionally, the technology offered by Global Velocity allows for the initiation of a range of actions when targeted content is recognized.

The Global Velocity Data Enabling Device (DED) can be set either to trace and log events or actively block the transmission of data with specifically-targeted content. At the same time, it is capable of generating customized reports or alerts for use by administrators. For example, an organization may wish to have outgoing data packets scanned for confidential or classified information and then halt unauthorized transmissions of the information. For network intelligence gathering, the device can be programmed to identify, audit, and correlate data in a multi-node network.

The Graphical User Interface (GUI) allows search criteria to be easily refined by a host organization using Global Velocity's Content Matching Server (CMS), a tool that facilitates the rapid and easy reprogramming of the DED over a private network or the Internet. For administrators, the flexibility is extensive, for users the operation is transparent and for managers the value is dramatic.

When the DED recognizes targeted data, it temporarily buffers the transmission, and immediately communicates with a Regional Transaction Processor (RTP), a customizable database, to consult a rules and policy table to determine what action should be taken. In the case of confidential data, the system may determine that the information is allowed to be transmitted by the sender and to the selected recipient, in which case the

Ads by Google

FPGA Design
 New titles just added. Download & Explore the FPGA Library today!
www.mentor.com/fpga

FPGA - Altera Processors
 Put a 50 Cent Processor In Your Altera Cyclone FPGA
www.altera.com

Quality PLCs
 Use our selector tool and get a free guide. Select with confidence.
www.allen-bradley.com

Save on PLCs
 Incredible Savings - Fast Shipping Superior Customer Service & Support
www.AutomationDirect.co

Related Links

- [More about Features](#)
- [News by editor](#)

Most read story about Features:

[Online Fraud is Alive and Well at eBay](#)

Article Rating

transmission will proceed. Alternatively, the rules table may call for further authorization from the sender before the transmission can proceed. In that case, the RTP will prompt the sender to obtain the necessary approval. The system also may be programmed to simply block the transmission of specific data in all instances.

The RTP is designed to serve a number of individual DEDs, maintaining centralized rules tables for each network connection and directing the actions of specific gateway devices.

The patent pending system can be deployed actively or passively in a network. In the active mode, the Global Velocity system provides organizations with unmatched data security for their entire networks, assuring that confidential, classified or otherwise protected information is not sent to unapproved recipients. While at the same time, the system also protects against the inadvertent receipt of unwelcome data such as inappropriate or illegal content, damaging malware, computer viruses or Internet worms. The remote reprogramming capability means the system can be quickly upgraded, with no down-time, to widen or narrow search criteria to meet changing needs.

In passive mode, the system can issue alerts in real-time as traffic moves in and out of the network. Logging tables can be stored for network forensics and liability protection documentation.

Global Velocity's commercial product applications, including data security, virus protection and compliance enforcement, meet some of the most pressing needs being faced today by corporations, colleges and universities, health care providers and governmental agencies. To fully and completely address the requirements of today's complex network needs, deep packet inspection of data flows in and out of enterprises is required. The Global Velocity system allows network administrators to protect their organizations against liability, security flaws, and network operational risks. Other unique applications of the Intelligent Gateway include ecommerce simplification and the achievement of new levels of documentation and management of financial transactions at localized or agency levels.

To learn more, please contact: Matthew Kulig For technical white papers: <http://www.arl.wustl.edu/arl/projects/fpx/reconfig.htm>

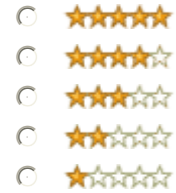
What do you think?

Share your comments about this article below.

Threshold Thread Oldest First

Average Score: **0**
Votes: **0**

Please take a second and vote for this article:



Options

The comments are owned by the poster. We aren't responsible for their content.



All logos and trademarks in this site are property of their respective owner. Comments are property of their posters.

Web Design and Development by [Serafini Studios](#)

Web site engine's code is Copyright © 2002 by PHP-Nuke. All Rights Reserved.

PHP-Nuke is Free Software released under the GNU/GPL license.

Page Generation: 0.309 Seconds