

# Knowledge

smart thinking from Data Integration



DATA INTEGRATION

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## The growing power of the network!

Today's networks are capable of doing so much more than simply shifting packets.

➤ Search the web for virtualisation and you'll probably find much discussion on the benefits of virtualising storage and servers. Look a little more closely and you'll find reference to virtualised network security – a new approach being pioneered by Extreme Networks that uses the power of the network to more closely integrate and virtualise security resources, consequently improving performance and reducing the number of security appliances required to effectively secure a network.

This new approach is based on two key technologies. A powerful packet-monitoring engine called Clearflow that is built into Extreme core switches as part of its XOS modular operating system and XML-based application programming interfaces (API). Taken together, these technologies enable Extreme Networks switches to assist in the security monitoring process and talk directly to security appliances that provide functions such as intrusion detection or prevention, data encryption, network access control and day-zero threat prevention.

You can split the role of a security appliance into four steps; monitoring traffic, detecting any anomalous traffic, analysing that traffic to understand the threat and then taking action to mitigate it. Clearflow is able to perform the first two steps. Thanks to the XML APIs, it is then able to send anomalous traffic to a security appliance, which analyses the traffic and communicates any preventative action, such as

port blocking, back to the network. Essentially, the network infrastructure is intelligent enough to call upon security resources when they're required without having to pass every piece of traffic directly through a security appliance.

This virtualised approach to security resources can deliver a number of key benefits. Purchase and support costs relating to security can be reduced as multiple appliances no longer need to be inline to secure a network. Two appliances, one to provide redundancy, can now effectively cover a whole network. Performance is also improved because traffic is monitored at core network speeds – anything up to 100 Gbps – rather than being restricted to the throughput capacity of the security appliance, perhaps 10 Gbps but usually much less. The final benefit is more subtle but still important – virtualised security improves availability. With an intrusion detection system between points A and B, there is a risk that it could be overwhelmed or compromised. Virtualised security allows you to do more load balancing and helps avoid the problem of a compromised box.


The unique capability of the LAN to work with virtualised security resources stems from both its pervasiveness and its insight and control capabilities. Why have another device looking at the traffic and introducing delay and jitter when the network has already seen the traffic and is intelligent enough to make a decision about whether it needs further investigation? Simplicity is best so why not enjoy that advantage?

For a no obligation assessment of the security of your LAN please email [info@dataintegration.com](mailto:info@dataintegration.com) to arrange an appointment.

For more information about any of the articles in this newsletter email [info@dataintegration.com](mailto:info@dataintegration.com) or phone **020 8875 6566**.

## Building identity-driven networks

Infoblox appliances simplify, secure and scale DNS, DHCP, IPAM and RADIUS.

 DNS and DHCP are completely fundamental to almost every corporate network. Without these network identity services everything stops. Organisations are striving to achieve higher network availability to support IP telephony and increasingly vital data applications whilst simultaneously trying to reduce costs. DNS and DHCP services represent a high risk to network availability. Infoblox addresses these issues with a simple, robust solution for delivering either DNS or DHCP or both.

Infoblox has integrated DNS/DHCP, RADIUS, NTP and TFTP into a single appliance. This follows the widespread adoption of appliances in other areas such as firewalls, and brings similar benefits:

- Reduction in administrative time for installation, maintenance and day-to-day adds and changes. Infoblox provides integrated IP address management and easy integration with Microsoft Active Directory.
- Higher levels of security by delivering integrated network identity services on a factory-hardened platform.
- Robust high availability, delivering these services in a non-stop fashion to provide a disaster recovery and business continuity solution.

Infoblox 




Infoblox takes Editor's Choice award in DNS/DHCP appliance test!

Infoblox are holding a round-table event with the DNS and Bind 'guru' Cricket Liu on 14th November 2006 – register now at [www.dataintegration.com](http://www.dataintegration.com)

## You can't control people – so control what's on your network

Agentless NAC and day-zero threat protection delivers complete endpoint control.

 Mirage Networks behavioural analysis solutions represent a new approach to internal network security that is powerful yet easy to add to new or existing networks. With network perimeters heavily protected by firewalls, intrusion prevention, anti-virus and more, the weakest link is the internal network. Increasing mobility, the use of laptops and requirements for contractors and others to connect 'foreign' machines to the LAN all contribute to the risk of attacks. Often the internal network provides little resistance, allowing malware to propagate freely and rapidly. Mirage technology continuously monitors activity on the network using a sophisticated but easy-to-manage behavioural analysis approach. It can detect malicious or non-compliant behaviour and instantly isolates the


source of the problem, automatically placing the rogue device into quarantine and stopping malware in its tracks. Mirage combines this capability with a simple, agentless approach to network access control to assess all machines for policy compliance before they join the network. The combination of pre-admission and post-admission controls makes Mirage a true 'full-cycle' network-protection system.

To find out more, go to [www.dataintegration.com/products/mirage](http://www.dataintegration.com/products/mirage)

The logo for Mirage Networks. It features the word "mirage" in a lowercase, sans-serif font, with a stylized globe icon behind the letter 'a'. Below this, the word "networks" is written in a smaller, lowercase, sans-serif font.

# Protecting customer and employee identities

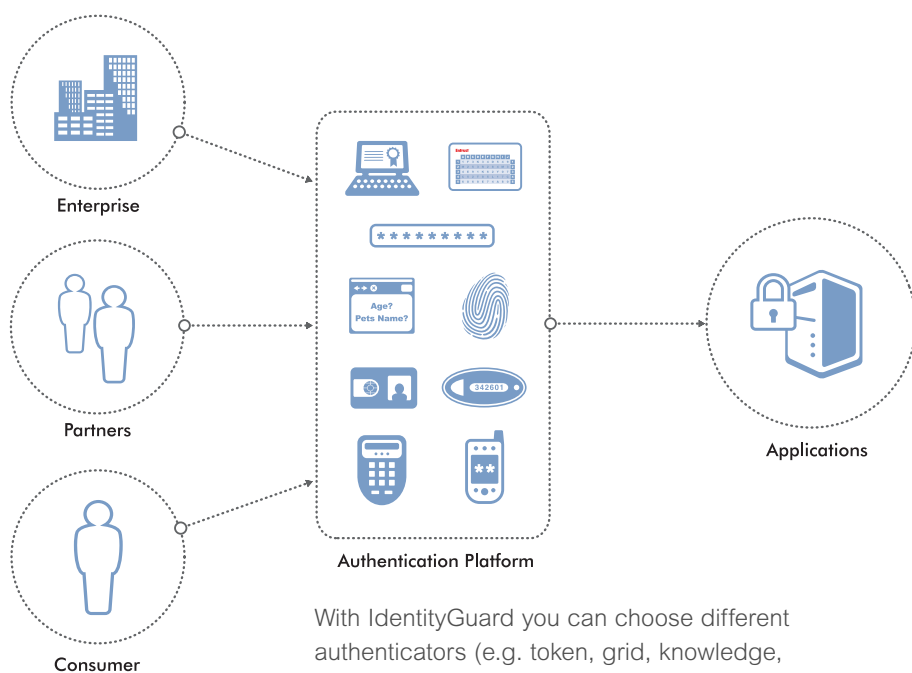
A scalable way to increase security and reduce ID theft.

 Data Integration has teamed up with Entrust, renowned in the world of PKI encryption, secure messaging and strong authentication, to offer a new product called IdentityGuard. Entrust IdentityGuard is an open, multi-factor authentication platform that enables you to layer security across your diverse users, transactions and applications according to the perceived risk of the transaction. It is a common-sense approach that enables you to cost-effectively implement a layered authentication policy according to user group, transaction type or application/data access requirements. The strong authentication platform integrates with your existing environment and minimises



the impact of security on your users including employees, customers and partners. It gives you the flexibility to secure a wide range of consumer and enterprise applications from employee access to extranet access through to securing customer identities and protecting their online transactions – all on a single platform and at a price point that enables scalability.


Find out more, download our webcast at [www.dataintegration.com/entrust](http://www.dataintegration.com/entrust)



With IdentityGuard you can choose different authenticators (e.g. token, grid, knowledge, mobile phone) appropriate to the transaction type.

# NEW! Juniper Networks security portal



 The new J-Security Center portal enables all Juniper customers to see the latest security threats communicated from Juniper and its dedicated security research team. The Honeynet statistics, gleaned from honeypots worldwide that are maintained directly by Juniper's research team, have recently been updated to reflect the most exploited vulnerabilities, attacked ports and severe security events for the past week. Check out the new portal here: [www.juniper.net/security](http://www.juniper.net/security)

## Special offers from Juniper

### SSL VPN 'Cluster' Upgrade Offer

- If you already own a stand-alone SA2000, SA4000 or SA6000 SSL VPN you can upgrade these units to resilient clusters at a specially discounted rate.
- Buy additional hardware unit(s) at the normal price and get the corresponding 'cluster user licence' at 50% discount.
- Increase the 'user' licence on the primary and cluster units at the same time and receive a 50% discount.
- Cluster 'user' licence to match the existing 'user' licence on the primary unit.

### Juniper Firewall Loyalty Discount

- If you already own a Juniper firewall, you can buy a new SSG 520 or 550 from Data Integration with an extra 10% loyalty discount.


Both offers end 31st December 2006.  
Terms and conditions apply.

If you would like further information about either of these offers or are interested in receiving a quote, please email [info@dataintegration.com](mailto:info@dataintegration.com) now!



## Data Integration promoted to Extreme Networks Advanced Solutions Partner status

We now hold the highest level of accreditation with Extreme Networks.

 This means that we have met strict criteria in terms of technical and sales training, experience of installing and supporting Extreme Networks equipment as well as demonstrating consistent business performance with Extreme Networks. Our Advanced Solutions Partner status means that you can be assured of the best pre- and post-sales support when you buy Extreme Networks products from Data Integration.



*"We appreciate the value that Data Integration brings to Extreme Networks, particularly in terms of security expertise and their ability to integrate our products with a range of complementary technologies to offer complete solutions."*

Stephen Jamieson, Director of Channels for UK and Ireland, Extreme Networks

Find out more at [www.dataintegration.com](http://www.dataintegration.com)

