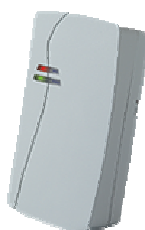




Visonic

VDNS Management Platform

Whitepaper

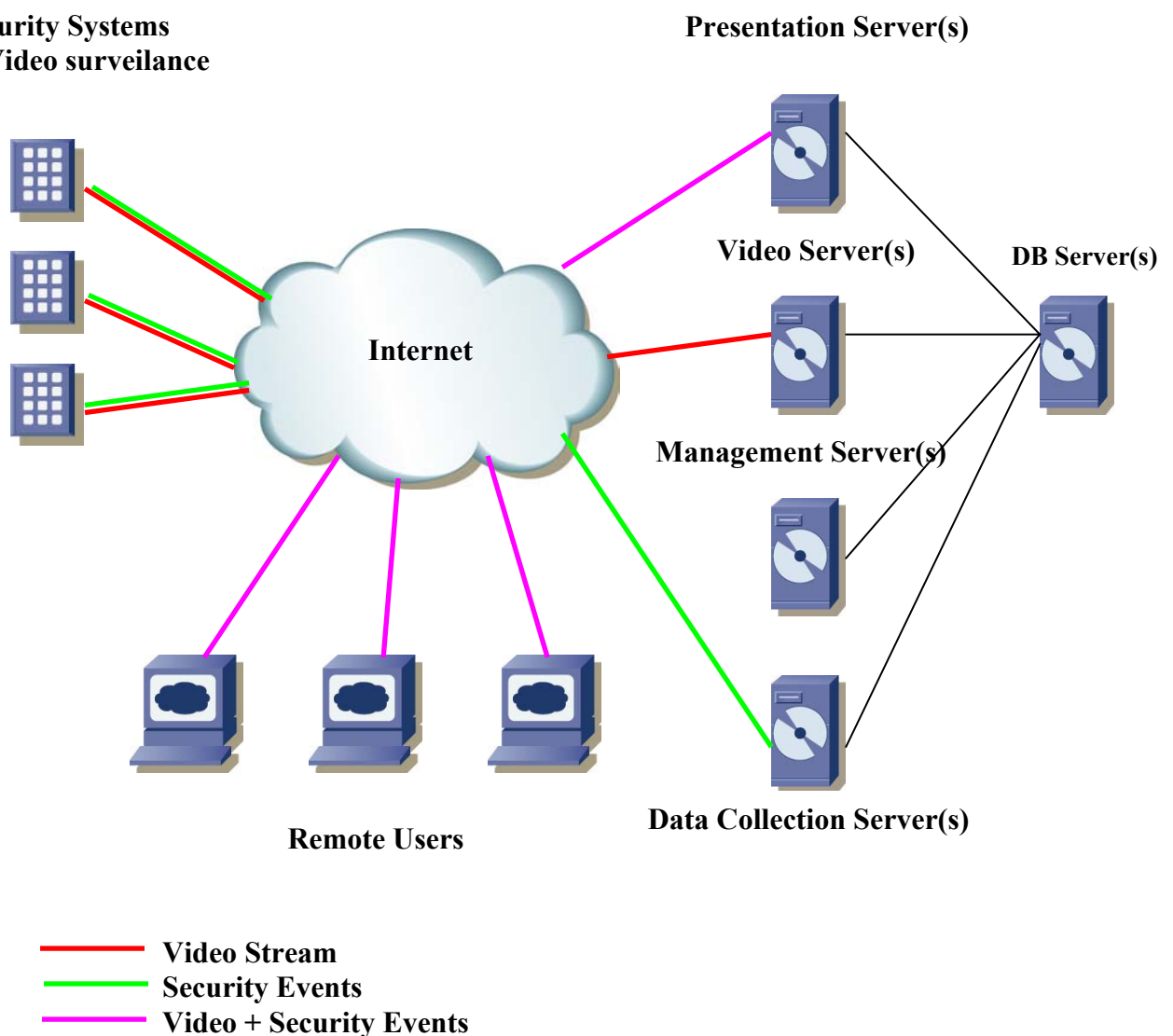


Complex Platforms

The traditional service platform concept consists of several servers hosting the different service software components. These components, in case of a web-enabled service, may be the web presentation server and several application servers each with its own database server or all with a shared database server.

In the case of a web enabled security service, such a platform will look like this:

Security Systems w/Video surveillance



On the residential side, each home is equipped with a broadband enabled security system that is capable of transferring both security events and video surveillance information to the platform side.

On the remote side, several users (web enabled PCs) are connected to the platform in order to retrieve security information and control options over their system.

The platform consists of the following components:

- **Data Collection Server(s):** One or more servers (depending on the load capabilities and clustering options) to collect security event information from the residential side.
- **Video Server(s):** One or more servers to handle ongoing or on-demand video streams from the residential side.
- **Presentation Server(s):** One or more servers to handle remote requests for security, video and control.
- **Management Server(s):** One or more servers to offer the operator full control over the provided service: denial of service, billing, reporting, supervision, security event data retrieval, presentation server updates.
- **DB Server(s):** One or more servers to archive the information and requests.

Considering the general architecture that requires five (5) servers as a basis with potential backup servers to offer full clustering and load balancing, such architecture is definitely a complex and expensive platform.

Efficient Platforms

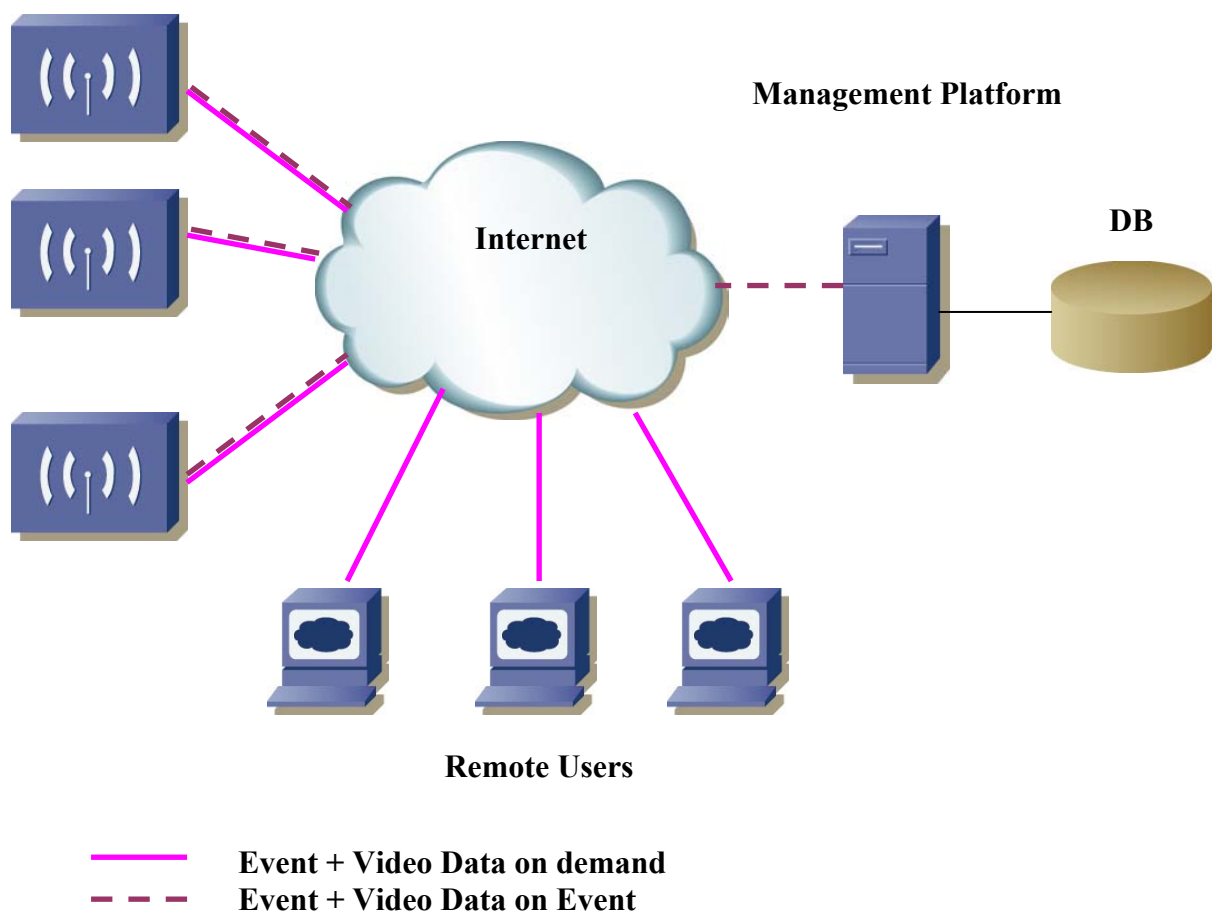
Complex platforms are widespread, mainly because of the type of services they offer: services that rely on a thin client or no client at all at the residential side. Security systems belong to the thin client family. Standard security systems are mainly capable of sending the security related information over dial-up PSTN lines. Advanced security systems also offer a PSTN based interface to provide control. In both cases, in order to create a service out of the offered solution, a complex platform is needed; one that can handle the non-friendly connectivity options of the security systems resulting in a user-friendly service.

In a fast evolving world where technology oriented manufacturers take advantage of the variety of possibilities offered by these technologies, highly integrative web enabled security solutions with advanced control options for both service providers and home users are offered. By elaborating the technology capabilities, these new advanced services are built in client-server architecture that results in more efficient platform solutions.

The basis of the efficient platform solution relies on the fact that all site-specific data manipulation and control actions are handled by the advanced security solution at the residential side. As a result, the platform itself handles event oriented data transmissions and site management only.

In the case of a web enabled security service, such a platform will look like this:

Intergrated Security Solutions



Since on-demand, remote connections are being exclusively handled by the advanced security solutions at the residential site, the heavy bandwidth and load of data transmissions to the platform is avoided. The platform now receives only bursts of data transmissions on selected events which can be stored for logging purposes and forwarded to different recipients, whether commercial (security central stations, police, health centers) or private (email, MMS, SMS).

While offering client-server architecture, efficient platforms do not lose their efficiency as management solutions. All clients are tightly attached to the management platform from which the client can be disabled (service denial), software updated and supervised in order to provide the service provider with a fully managed solution.

By reducing the server side complexity whilst elaborating advanced technologies on the residential side, efficient solutions are therefore much more cost effective, thus requiring only minimal investment on the platform side in terms of equipment, hosting, servicing and maintenance. This result in a quicker ROI and greater profits in terms of the services offered.

Introducing the VDNS Management Platform for PowerLink

The VDNS (Visonic DNS) is a highly efficient platform that enables service providers with a fully managed PowerLink solution. By continuing the Visonic tradition for offering the latest technologies on the market, the VDNS elaborates the usage of open standard technologies and open source operating systems. Built using PHP as the core technology for offering a web based clientless management console that is potentially accessible from any Internet enabled PC and running over the open source yet highly stable RedHat Linux operating system, the VDNS not only offers high stability but also high serviceability and usability features.

Core Features

- Clustering Option
- DB Backup and Restore interface
- MySQL DB Based
- Remote server S/W upgrade
- Strong PHP based application
- Stable Operating System
- Apache web server
- XML based data transmissions with sites
- Smart Email, SMS and MMS dispatcher
- Dynamic DNS solution

Application Features

- Web Based Intuitive management Console:

PowerLink VDNS Administration 1.1.0

Lists Add New Tools Setup Maintenance

PLink List Upgrade List Group List View Log Marketing

Filter Options: Serial Number is: And Serial Number is: And Serial Number is: Go Clear

Serial Number	PowerLink ID	Group ID	IP Address	SW Release	HW Release	Variant	Upgrade ID	Upgrade Status	Usr Msg Credits	Grp Msg Credits	OnLine Status	Srv Status	Event History	Remove
1231231231	Alex	0	217.132.91.93	2.2.0	123	5470	11220	success	2798	0	✓	deny	new	✖
3333333333	dev1	0	85.250.255.11	2.2.0.2	123	5470-1	2202	success	3582	0	✓	deny	new	✖
4444444444	dev2	0	85.250.202.94	2.2.0.3	123	5470-1		success	0	0	✗	deny	show	✖

Delete Selected Apply Changes Page 1

- Service denial
 - On-Line supervision
 - Event history (10 last events including video surveillance information)
 - Alarmed systems listed on top
 - Hardware release management
 - Software release management
 - Software variant management
 - Ability to divide systems to groups for easy management
 - Site current IP information
 - Customized PowerLink ID for easy connection via DDNS
- Remote Site F/W Upgrade:

PowerLink VDNS Administration 1.1.0

Lists Add New Tools Setup Maintenance

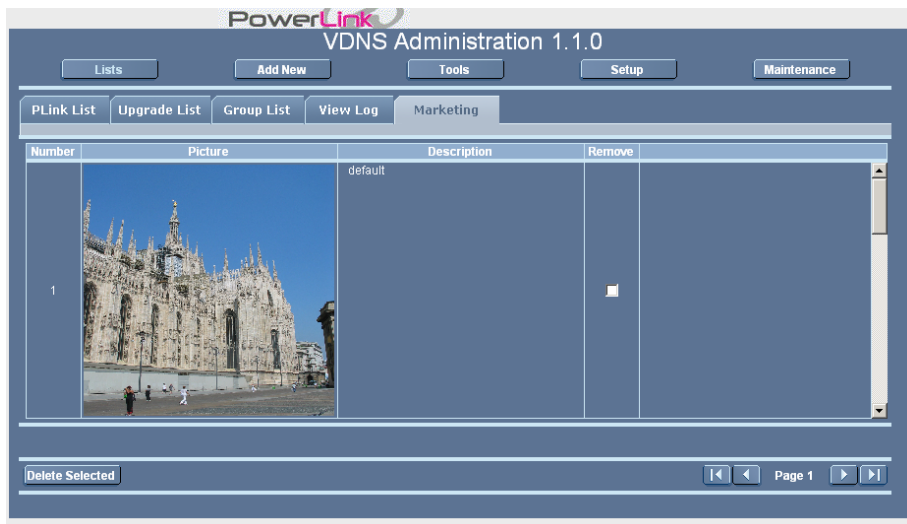
Start Upgrade

Upgrade Id: 11220 Group Number: No Groups where founded. Select

Serial Number	Id_Num	Select
3333333333	dev1	<input checked="" type="checkbox"/>
4444444444	dev2	<input checked="" type="checkbox"/>
1231231231	Alex	<input checked="" type="checkbox"/>

Start Clear

- Upgrade packages management interface
- Upgrade process indication per site
- Auto recover on update failure
- Marketing Advertisement management:



- Add new advertisement
- Remove advertisements
- System Log
- Optional Self-Billing interface (Verisign)

The Sky is The Limit

Whilst experiencing the dusk of complex platform based solutions, it is time for an efficient platform based solutions to rise up. PowerLink by Visonic is a first of a kind advanced, integrated and fully managed security solution based on an efficient platform. It enables you – the service provider, to offer an advanced service while maintaining full manageability options and benefiting from a low cost, well designed scalable platform with upgradeability opportunities on both the server and the client side.

PowerLink: Another Visonic Success Story

Since 1972, Visonic has been setting the industry standard with innovative security solutions. Visonic is recognized in the industry as a supplier of dependable, reliable, and durable products that get the job done.

Visonic is committed to providing ground-breaking security solutions that improve overall quality of life, by developing innovative products that support and maximize the latest developments in advanced communications, mobility, telemedicine and home automation. This commitment has led to the creation of advanced patented technologies and installation of reliable high performance systems in millions of sites worldwide that continuously challenge the market.

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