



matrix ip

tomorrow's,



technology,



today.



About Us

Matrix IP are specialists in IP networking and communications infrastructure solutions and services designed to maximise business performance and deliver tangible benefits to our customers.

Matrix IP have a wealth of experience and expertise spanning some 20 years working in a variety of industry sectors with both private and public sector companies. By combining these qualities with practical business knowledge,

coupled with our reputation for exceptional service and customer focus, Matrix IP delivers resilient, scalable and secure solutions for our customers.

Our offices, based in Nottingham and Whyteleafe, are situated in close proximity to the UK's major road network, making Matrix IP ideally placed to deliver our range of services nationwide.



Our approach

Matrix IP work intimately with our customers to establish a sound working relationship and a solid understanding of your business, current issues and priorities.

Matrix IP maintain a stringent approach to developing intelligent IP network solutions. From new-build projects through to alterations and relocations, our best-practice response ensures we get it right, delivering on time and on budget.

Whether you require a small installation to complement your existing infrastructure or an extensive project, we endeavour to advise and promote the most cost effective solution that is right for your business.



Service and support

Matrix IP are committed to providing the highest standard of service and support.

Our highly trained personnel ensure quality and reliability of network design, installation practice and training.



Our experience in the industry and background knowledge allows you to rely on us to answer your technical issues quickly and efficiently. Our team of skilled IT and network specialists are available to resolve any networking issues. However, Matrix IP believe prevention is better than cure and we proactively develop your solutions and the network environment they inhabit to neutralise problems before they arise.

To keep you at the leading edge of technology so you don't miss a trick, we ensure that you are regularly updated with technical information and keep you informed of any additional services that may benefit your business.

Constant investment in our people and technology ensures we are advising our customers on technology innovation that could positively impact their business.

Cabling Systems to suit your every need

Fibre Optic Cabling Systems

Complete fibre optic cabling systems capable of handling 10 Gigabit speeds with ease.

Class F & Class F_A Copper Cabling Systems

Shielded copper cabling solutions that exceed the requirements for 10 Gigabit Ethernet providing bandwidth greater than 1200 MHz and sheath sharing solutions.

Class E_A Copper Cabling Systems

XG shielded copper cabling solutions exceeding next generation Class E_A system requirements for 10 Gigabit Ethernet.

Class E Copper Cabling Systems

Class E/Category 6 cabling systems, either unshielded or shielded.

Class D Copper Cabling Systems

Class D/Category 5e cabling systems, either unshielded or shielded.

Our Services

Network Cabling



Matrix IP have over 20 years combined experience of many types of cabling installations across a wide variety of environments. Every building now depends upon a structured cabling system. They provide the backbone and connectivity for all IT networking and voice systems and many building services functions.

Matrix IP engineers are capable of installations of all sizes, from a small number of users within a single building to campus-wide networks with a 3km diameter or a 1 million square metre area and 50,000 users.

Cabling installations are carried out to the highest standards, and our on-site engineering team ensure that the entire installation is fully tested before it is completed and signed off.

Backbone Cabling Systems

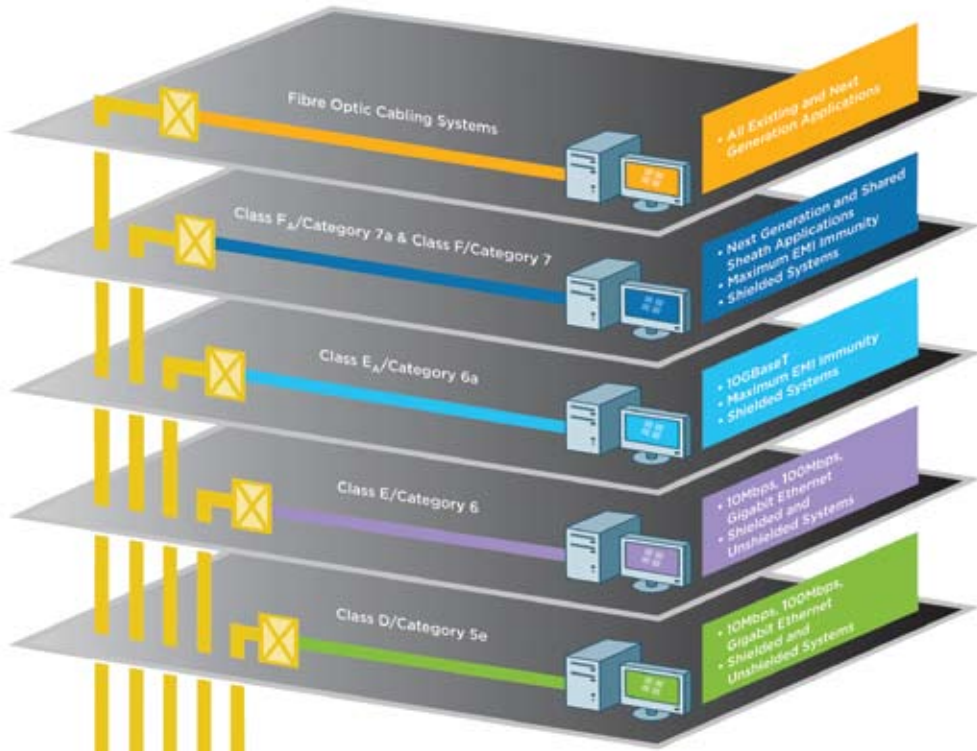
Singlemode Fibre OS2
10 Gigabit Ethernet
and beyond

Multimode Fibre
50/125 OM3 -
10 Gigabit Ethernet

50/125 OM2 -
1 Gigabit Ethernet

62.5/125 OM1 -
1 Gigabit Ethernet

Horizontal Cabling Systems

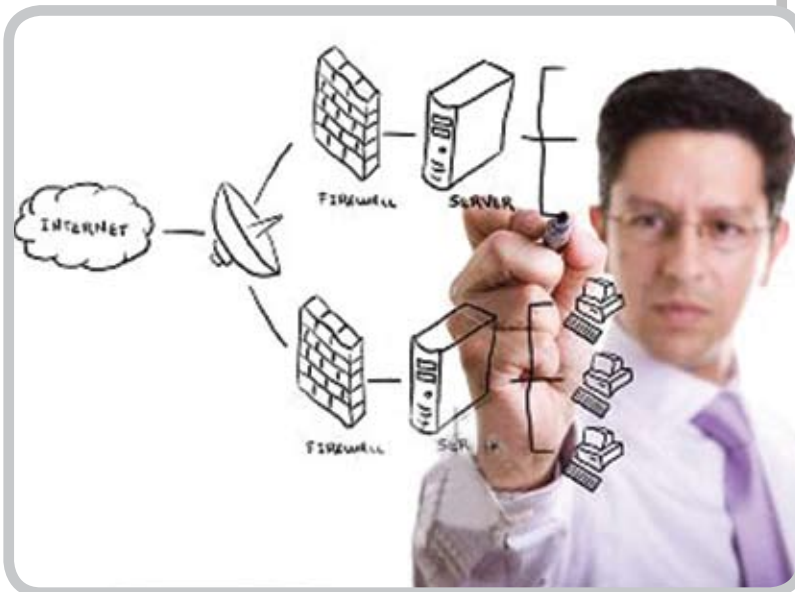


Network infrastructure



As the network becomes a platform for business transformation, all elements of the network infrastructure must integrate with each other seamlessly. This is critical to the effectiveness of any business. A truly converged network will be used to communicate with customers, capture and retrieve data and provide access to critical systems, and therefore its importance cannot be understated.

Matrix IP provides all the services you need to have your network system operating smoothly. Renowned for our specialist knowledge and expertise, we have a proven track record for delivering quality installations on time and within budget.



Voice



IP Telephony - Cisco

Voice communication is increasingly in demand by organisations allowing instant contact with their customers and staff globally. It unites an organisation's many locations, including mobile workers, into a single converged network. It can provide cost savings by combining voice and data on one network that can be centrally maintained, as well as by eliminating call expenses for calls between locations.



IP Speakers

By deploying an audio PA system over an IP Network, paging announcements can be made via an IP Telephone system or PC. IP Speakers offer interoperability between audio announcements and the ability to 'pipe' background music from a multicast audio source at MP3 quality. Integrate speakers with door access control and make targeted paging announcements to an individual or group of individuals within a specific 'Zone' in your building.

Building Management Solutions

Intelligent Building Solutions

An Intelligent Building solution built into your IP network offers a secure and scalable network through which all building and IT systems, voice, video and data communications can be managed and centrally delivered.

Benefits of an Intelligent Building...

- Reduced capital costs of building automation, management systems and network infrastructure;
- Reduced building lifecycle costs;
- Attract staff and partners to generate new revenue and service streams;
- Improved productivity, health, safety and security.

Your network is a vital resource and Matrix IP can assist in streamlining or building a new infrastructure to ensure your IT investment is being utilised to it's maximum potential.

IP Access Control (inc Swipe & Proximity Cards, Biometric solutions)

Providing a flexible and cost effective alternative to keys, IP swipe and proximity cards can restrict access to doors, zones and time periods by individual, all through a simple-to-use software application.

Matrix IP utilise Vykon® Security, an advanced, web based, internet enabled access control and intrusion detection system built on the industry leading NiagaraAX Framework®. Vykon Security provides physical protection for your assets whether a single building or a large multi-site application.

Administrators are generally appointed to manage credential enrollment, access rights and schedules, time and attendance, and

alarm response in real time via a standard web browser from anywhere at anytime.



Access Control & Security

Some key features of modern access and security systems...

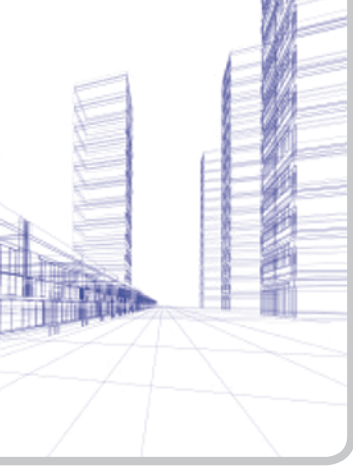
- Optimised building security;
- Selective access to sensitive areas;
- Audit trails that track the movements of staff through your building.

Matrix IP are professional installers of high quality IP Surveillance and monitoring equipment, allowing the transmission of high definition CCTV images over your existing network, at any location, from anywhere.

In light of cost savings and more efficient installation methods, we are seeing a huge technological shift towards surveillance over IP. A growing number of institutions are making the technological shift towards IP surveillance.

IP (Internet Protocol) is an open platform that will allow integration with other equipment such as your existing computer network, gates, heating, lighting, door alarms or access control.





Power over Ethernet (PoE)

Another option is to incorporate Power over Ethernet (or PoE), a technology that allows the end user to power network attached devices directly over the camera's Ethernet connection rather than via a standard mains supply.

As well as providing obvious cost benefits, PoE gives extra flexibility in terms of moving cameras to follow trouble hotspots!

All our systems are installed to comply with all regulatory and data protection regulations to offer complete peace of mind.

An ongoing commitment to Research and Development ensures latest technology is constantly being evaluated and implemented where possible.

Energy Management

Intelligent Lighting (via IP)

Intelligent lighting solutions ensure your lighting system responds to its natural surroundings by dimming or disconnecting any lights when not in use. Linked to your IP network, an intelligent lighting solution will minimise energy costs and help reduce carbon emissions.

Matrix IP work with industry leaders in lighting control systems to offer a full product range from a single circuit dimmer to an entire building control project. Matrix IP can help you monitor, orchestrate, automate and optimize the operation of all systems in your facility. The Vykon™ Energy Suite, for example, will change how you view and manage your expensive energy world, providing effective feedback about your building's facilities and giving you complete control over smart devices.

Intelligent Heating / Air Conditioning

Heating and ventilation controls, underfloor heating manifolds and air conditioning systems, can all be brought together under the control of a single management system.

Matrix IP can offer a wide variety of cost effective and energy efficient solutions to best fit the requirements of any project.

Benefits of IP

Remote Accessibility

Any video or CCTV images, live or recorded, can be made available to any location through a wired or wireless network (indeed any machine with an Internet connection), allowing management to view the feed from any camera, at any time.

Intelligent Cameras

Incorporating advanced functionality such as:
Sound and motion activation
Pan and zoom capabilities
Intuitive user alert
Event handling
Substantially greater visibility and access control.

Flexibility

IP Surveillance can be adapted and scaled to any environment. There is no limit on the number of cameras that can be installed over a network and can therefore be tailored to reflect the level of security required.

Wireless Connectivity

Allows coverage of large scale sites, with a single recording point for multiple wireless cameras and areas making it a cost effective solution.

Reduced operating and maintenance costs

Without the need for dedicated cabling, installation costs can be substantially reduced. CCTV can be applied to many other applications such as health & safety management, process control, integration with databases and employee training can reduce costs and enhance revenue.



Datacentre solutions

Datacentre Solutions

To achieve a truly effective and efficient datacentre, Matrix IP analyse your IT infrastructure as a whole. Our approach to client projects enables us to build long-term relationships that are crucial to the formation and delivery of the right strategy for your business.

The optimised layout of racks and rooms is paramount to enabling the correct and reliable operation of your organisation. Matrix IP will meet your design and implementation requirements and integrate additional systems such as Uninterruptible Power Supplies and Environmental Management Solutions.

Matrix IP can help you with all elements of your datacentre design. Whether you are looking to upgrade, refurbish, relocate an existing data centre or are working on a new build, Matrix IP can help with all your datacentre, computer room and server room requirements.

Design

Matrix IP offer a full dataroom design service, ensuring the best operating environment for your equipment. We work closely with our clients to provide advice and guidance at all stages of the planning and build project. This ensures the project runs smoothly through to completion and adheres to current standards and regulations.

To achieve a truly effective and efficient data centre Matrix IP analyse your IT infrastructure as a whole. Our approach to client projects enables us to build long-term relationships that are crucial to the formation and delivery of the right strategy for your business.



Hardware

Matrix IP can supply and install all of the elements necessary to ensure a working and standards compliant environment.

From cabinets, racks and enclosures to security and monitoring equipment, Matrix IP work alongside leading suppliers to accommodate any functionality and design requirements.



Security, Environmental & Power Monitoring

Security and monitoring are two key factors to ensure that a datacentre, computer room or server room will run undisturbed. Good security will ensure that access is controlled and in doing so, interference of important and sensitive equipment by untrained and unauthorised personnel is prevented. Monitoring of the environment can also help to prevent incidents which could otherwise disrupt or destroy equipment within the data centre.

There are various types of security and monitoring equipment available, much of it designed specifically for the datacentre environment.

Depending on the nature and criticality of the datacentre, Matrix IP can incorporate some or all of the following into the overall data centre design:

Fire alarm
Retina Scan
Humidity monitoring
Camera surveillance

Card swipe access control
Over temperature monitoring
Water/fluid leak detection
Vibration monitoring



Key Considerations

Before any installation work is carried out, Matrix IP will fully analyse your building at design stage to ensure the room meets all necessary requirements, including:-

Location within a building: Agree upon a safe and secure location for the dataroom, taking into account access for deliveries and the proximity to any hazards.

Supporting services: Ensure essential services are in place to support the day to day functioning of the dataroom, such as electrical supply, lighting, air conditioning, humidity and fire control.

Network Infrastructure: Select a cabling infrastructure that will cope with current requirements and any foreseeable technologies which may be integrated in the future.

Security & Monitoring: Assess the criticality of the data and agree upon the necessary steps to ensure your data centre will run undisturbed.

Audio Visual Installations



Digital Signage & Plasma Installations

The dynamic visual experience created by digital signage should ultimately increase sales and productivity. Matrix IP can help you achieve that goal, by designing the appropriate system.

Our solutions will help you deliver real-time, content rich messaging in a variety of environments, such as retail advertising networks, corporate communications, trade shows and more. Controlled remotely from a central location, these devices present information to a targeted audience.



iCAPTURE Audience Measurement System for Out-Of-Home Digital Displays

iCapture™ automatically detects and tracks viewers' faces captured by high-resolution wide dynamic range sensors. Relying on proprietary, video analytics technology, iCapture generates true viewing data for digital displays and screens by analyzing face images of people watching the displays.

iGAZE Consumer Behaviour Measurement System

Retailers invest great resources in setting, maintaining and updating product exhibits in display windows and product displays inside the store and in public venues, in order to capture shoppers' attention and to direct traffic towards the store and to Points of Purchase (POP) inside the store. Now, using TruMedia's iGaze™ real-time automated audience measurement solution, retailers and research firms can measure the number of viewers and their attention level for window displays, in-store product displays and branded fixtures.

iTALLY Opportunity To See (OTS) People Counter

iTally™ is an Opportunity to See (OTS) People Counter, comprising of a small, embedded video processor that connects to small overhead sensor installed above the entrance, aisle, etc. iTally automatically detects, tracks and counts people as they enter the display site or pass near the display. Using state of the art video analytics technology iTally is capable of bidirectional tracking and accurate counting even with busy shopper traffic.

Industry sectors currently investing in digital signage include:

- Hotels
- Education
- Banking
- Conference / Exhibition centers
- Retail / EPoS



Projectors & Interactive Whiteboards

Projectors offer something for just about every presentation or meeting. With a professional range capable of outputting up to 5000 lumens, our customers can hold anything from small in-house presentations to large scale exhibitions and seminars.

Projectors also have the option of being used with Interactive Whiteboards offering greater collaboration and meeting recollection. These items are proving to be a very effective aid.

Used with an LCD projector and notebook or desktop computer they are ideal for a huge range of applications including education, training organisations, for business brainstorming, briefings, preparation, staff training. They easily connect to video conferencing systems and are ideal for boardroom use.

There are two types of interactive whiteboard, resistive and electromagnetic. Resistive whiteboards use finger touch and electromagnetic use a special pen.



IP Video Conferencing

Companies are increasingly turning to video conferencing as an alternative to face-to-face meetings to boost productivity, trim business travel costs and help reduce carbon emissions associated with business travel.



IPTV

Deliver training, company information, company broadcasts, news feeds and other TV content around a corporate LAN to individual display points or to staff PCs. Matrix IP can provide an end-to-end system for corporate IPTV, enabling external and internal communications systems to be installed.

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SONY

Specialist Dealer

Wireless Networks

Many organisations today specify wireless solutions as a cost effective alternative to traditional networks.

Matrix IP provide the latest wireless solutions to enable our customers to communicate using voice, video and data applications.

With a focus on superior reliability and exceptional performance, Matrix IP provides scalable and future proof systems that have been field tested and proven. This, combined with our network of highly trained service engineers, ensures Matrix IP can provide the end user with solid and robust wireless systems that are perfectly matched to their application.

Matrix IP can integrate a range of wireless LAN solutions into your existing network infrastructure giving you a high speed, secure network with true mobility increasing entire workforce agility and productivity in your workforce, customers and partners. Matrix IP are partners with Cisco, Ruckus and Extricom.

Cisco Wireless Networks

Integrating seamlessly with Cisco switches and routers, Cisco wireless is the enterprise-standard WLAN solution.

With industry leading software and hardware solutions and support for very large wireless networks, Matrix IP can design, install and manage a Cisco wireless network to your requirements. With Cisco certified specialists in-house, even very large and complex deployments go smoothly. Existing Cisco wireless networks can be expanded, upgraded or developed to your requirement.

Ruckus Wireless Solutions

The Ruckus wireless solution focuses on providing high quality hardware from an industry leading manufacturer. This is all installed and supported by our own engineers.

The Ruckus solution will give you the following benefits:

There's been a huge chasm in the wireless world between high-end costly and cumbersome big enterprise wireless LAN systems and low-end, low-cost, low-value consumer Wi-Fi products. We've filled this hole with the Ruckus ZoneFlex SME/Branch Office Smart WLAN System.

ZoneFlex combines the best features of centralized WLANs (but only what you really need) with jaw-dropping advances in intelligent RF routing and Smart Wi-Fi meshing. The result? One of the most powerful, yet easy to deploy and use systems on the planet.



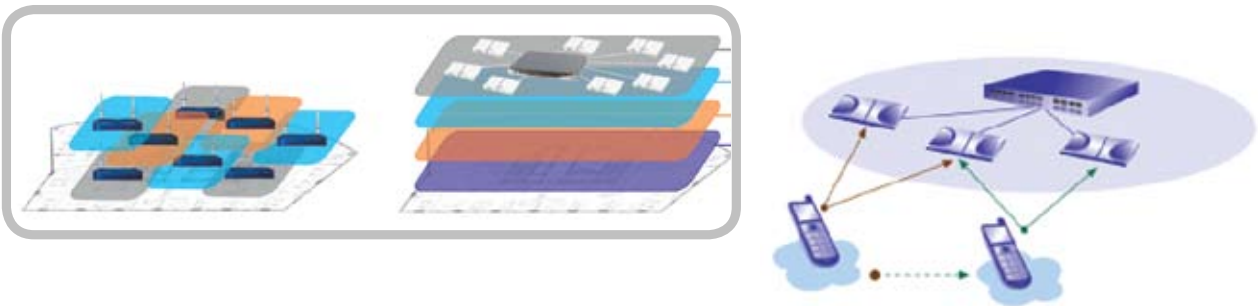


The Extricom Experience

The Extricom wireless solution focuses on providing high quality hardware from an industry leading manufacturer. This is all installed and supported by our own engineers.

The award-winning Extricom Interference-Free™ Wireless LAN System incorporates multiple breakthrough innovations in a system that raises the bar for WLAN performance, flexibility, and ease of ownership.

At the heart of the Extricom solution is a simple yet powerful idea: eliminate the concept of cell-planning, and replace it with Channel Blanket™ architecture. In the Channel blanket, each Wi-Fi radio channel is used on every access point to create continuous "blankets" of coverage.



Equipment installation

Equipment of increasing complexity is being specified for installation in the workplace. Control and monitoring of a diverse range of products often calls for a system which can communicate with one or more systems and present information in a straightforward and unified manner. Information can often be routed via the internet to facilitate remote access.

Matrix IP will ensure that user friendly solutions are installed which are tailored to the client's current needs, whilst being easily expandable and future proof. Possibilities are only limited by imagination and budgets, but generally most things are achievable.



Remote Support & Maintenance

Support Services

Matrix IP provides a full range of support services, from the maintenance of security hardware through to the provision of extended warranties, maintenance contracts and help with security software applications through help desk services. Complete ownership and operation of your security solution through remote management is also available.

Service levels can be set to your preferred level of support, for example:

- Remote support of equipment upon request;
- Remote Network Management, with fault detection and alert handling;
- Supply of replacement parts and components, with on site installation if required;
- Engineer on site call-out. Guaranteed next business day if required;
- Full operation and management of your security solution or wireless network on your behalf.

All of these services are supported by a fully documented SLA (service level agreement).

Matrix IP Service Desk

The Matrix IP Service Desk provides you with access to expert assistance and advice from qualified engineers. The level of support provided by the Service Desk is fully customisable to your needs.

Personal Relationships for Extreme Effectiveness

As a vendor of specialised services, we at Matrix IP know all our support customers by name and expect to build a strong working relationship with them over time. We provide focused LAN, WAN and security systems support to network owners and system administrators. We do not support large sites, end users, fleets of PCs or servers and do not handle large volumes of calls. As a result, our availability is excellent and our personal technical skill standards are very high. As a customer and partner, you will know us personally.

Remote Network Management

The Matrix IP Remote Network Management solution reduces the strain on your IT staff by taking away the need to monitor security solution hardware and software. Error reporting, performance tracking and other day-to-day management tasks necessary to administer Milestone, Netgenium and other security server and camera/access control hardware performance, can all be done for you via Remote Network Management. Remote management services enable Matrix IP to remotely diagnose and often fix a fault quickly without the need for an expensive engineer call-out. As well as performing routine maintenance tasks Matrix IP can also check availability and ensure security system back-ups have completed successfully.

On-Site Support

As well as providing a remote help desk solution, Matrix IP can also provide on-site engineering support services. This service is fully customisable depending on your requirements: periodic engineer visits can be factored in to your support contract or days on site can be kept 'in reserve' and utilised as and when required.



Other Services

Site Surveys

Customers with existing networks receive an initial assessment to determine performance capabilities. Once armed with the right information, the choices become very clear, allowing you to make informed, future-proof decisions within the parameters of your budget and business requirements.

Consultancy

As IT specialists, we can provide valuable insight, advice and guidance on a wide range of technologies.

Design Services including AutoCAD & Plotting

Matrix IP have a great deal of experience in designing, implementing and managing robust Wide Area Networks (WANs). Our team of network consultants will work closely with you to understand your objectives and design a network that meets your requirements today and well into the future.

Pre-configuration Suite

Matrix IP have an in-house pre-configuration suite for fully testing network systems prior to installation.

Project Management Capabilities

Matrix IP can assist in the planning, design, procurement and delivery of voice and data video networks, including the design and build of IT facilities for new site development and integration with core networks.

Working with you to define strategic plans, business requirements and functional needs, we can deliver a complete business solution at the pace you require.





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