



NETWORK & SERVER INFRASTRUCTURE SOLUTIONS

Technology is all about the user

A revolution is occurring in data centers around the world. They're evolving from being all about the hardware to being all about the user. Companies are separating how users get the resources they need from how the infrastructure for those resources is managed. If you don't have one already, it won't be long before you'll need a virtualized infrastructure that separates the management of your hardware, networking and storage from your software, applications and operating systems. Putting it off could be harmful to your business.

Companies are also finding that technology consolidation drives savings in storage, servers and maintenance. It also improves worker productivity by shrinking or centralizing management.

But these are complicated tasks for even the most seasoned IT staffs. That's why Yorel has developed our family of Network & Server Infrastructure Solutions (NSIS), which is an integral part of our IT Optimization Continuum.

Yorel's NSIS Solutions

Businesses need to be flexible to stay ahead in today's competitive marketplace. That means their networks need to be flexible, too. Yorel offers customers flexible network and server solutions with proven, scalable technologies and innovative designs. We also customize each solution to accommodate the customer's current IT resources and to scale to meet anticipated business growth. Our solutions include:

- ▶ Consolidation & Containment
- ▶ Virtualization (server/client/storage)
- ▶ Infrastructure Studies
- ▶ Application Availability & Access
- ▶ Thin Client Enablement
- ▶ Rapid Provisioning
- ▶ Advanced Disaster Recovery
- ▶ Upgrades & Migrations
- ▶ Load Balancing
- ▶ Secure Remote Access
- ▶ High Availability Computing
- ▶ Server & Data Security
- ▶ Policy Definition

There's integrity inside the circle.



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The challenge of delivering data and applications

Almost all business processes run on some type of application, which puts increasing pressure on companies to build IT infrastructures that get applications from data centers to end users with the greatest performance and security, and at the lowest cost. Furthermore, globalization and an increasingly mobile workforce are driving end users farther from their sources of data and applications they use to do their jobs. Finally, consolidation has created the need for companies to create successful synergies among hundreds of applications.

Yorel Integrated Solutions provides application delivery for businesses of all sizes. It doesn't matter if you need to deliver applications around the world or around the block; we've got the knowledge and experience to help you. Whether you need to improve the performance of email, ERM, CRM, specialized vertical solutions, or custom Web applications, Yorel can help you build an end-to-end application delivery infrastructure that connects any user to any application at the lowest cost and with the highest performance and security.

Customer challenges solved by Yorel's NSIS include:

- ▶ Rapid application deployment
- ▶ Secure access to applications and data
- ▶ Datacenter disaster failover
- ▶ Server consolidation
- ▶ Single sign on (SSO) initiatives
- ▶ Annual capital expenditures for replacing user workstations
- ▶ Workforce continuity

Key Benefits

Virtualized management and consolidation can have a tremendous positive impact on an operation's overall costs because it delivers financial benefits by:

- ▶ Improving labor productivity
- ▶ Deferring technology purchases
- ▶ Reclaiming storage and server capacity
- ▶ Reducing floor space requirements in the data center
- ▶ Reducing training costs
- ▶ Reducing planned and unplanned downtime
- ▶ Improving end user service levels
- ▶ Making your IT Infrastructure more responsive to your business objectives

Yorel is your proven expert advisor for NSIS solutions. Our experienced staff of professionals can guide you through implementations for your business by learning about your business, developing the right solution, delivering what we promise, and providing ongoing support. We'll save you time and money because our business is to improve your business with technology solutions.

Our Network & Server Infrastructure Solutions partners include:

- IBM
- Citrix
- VMware
- PlateSpin
- Microsoft
- Tivoli
- Cisco
- Net IQ

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DATA CENTER DESIGN & OPTIMIZATION

Less is More

The business motivations that drive data center optimization are fairly straightforward. By consolidating the numbers of applications, servers, or facilities that you have to manage, you generate multiple benefits. For example, you can improve utilization of existing IT investments to forestall new purchases. It extends the value and ROI of your existing technology and cuts your TCO by reducing management overhead, facilities costs (possibly eliminating sites altogether), and operational expenses like electricity, heat, and cooling.

Unfortunately, many companies don't know how to achieve the benefits of consolidation. Adding new technology and determining how it will affect existing systems is tricky. But figuring out how to add components without affecting or interrupting business processes usually falls outside the capabilities of the typical IT group. That's where Yorel comes in. We specialize in Data Center Design & Optimization (DCDO).

Yorel's DCDO Solutions

Yorel helps customers like you establish and maintain data centers that can be rapidly modified to meet changing business needs, and ensure ongoing business continuity. While technology solutions vary from one data center to another, our consulting and technical teams develop and deliver:

- ▶ Data Center Relocations
- ▶ Data Center Designs & Redesigns
- ▶ Power Distribution & Management
- ▶ Cooling Systems
- ▶ Rack Configurations

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Our Proven Methodology

When our customers need help with data center design and optimization, we rely on a proven, six-step methodology for understanding and addressing all aspects of a data center consolidation or relocation. This comprehensive, analytical methodology also takes care to ensure that our recommendations can be easily modified after initial implementation so that our customers can adapt it to their changing business requirements. Our six steps are:

- 1. Assessment**—Yorel evaluates your data center(s) and your business objectives to develop a capability assessment with conclusions and recommendations.
- 2. Design**—We use the assessment to develop multiple design blueprints that map directly to your business needs, but consider factors like budget and aversion to risk.
- 3. Validation**—Our expert team validates both the business justification and solution feasibility to support solution implementation.
- 4. Planning**—Yorel develops a prioritized roadmap and detailed project plans to transition from your current environment to the target environment.
- 5. Implementation**—Our engineering and project management experts deliver your new capabilities with the successful implementation and deployment of prioritized projects according to the project plan.
- 6. Ongoing management and support**—Solution delivery is just the beginning. Yorel provides ongoing managed services to ensure the successful operation and optimization of your new technical environment.

Four Reasons to Consolidate

Big companies can run hundreds of applications on hundreds of servers in multiple data centers. Smaller companies may use technology that fits in a closet. Whatever the size of your company, Yorel delivers solutions for any scale. Consolidating IT assets yields substantial economic and strategic benefits, such as:

- 1. Lower Costs**—Consolidation eliminates new purchase requirements, cuts management costs, decrease the number of platforms under management and positions your organization for simpler, more efficient growth.
- 2. Increased Utilization**—Server utilization rates average below 30 percent—meaning more than two-thirds of expensive CPU cycles go unused. But partitioning, resource management, and virtualization technologies let you consolidate applications and workloads, thus eliminating over-provisioning and substantially increasing utilization.
- 3. Greater Efficiency**—Administrators are more productive because they have less to manage and can focus on higher value tasks. Systems are more productive because their available capacity is used more effectively. Consolidation also means fewer system and application outages due to fewer potential points of failure.
- 4. Enables Strategic Business Goals**—Consolidation enables strategic goals, such as improving security, enhancing backup and disaster recovery, and facilitating regulatory compliance.

Key Benefits

When it comes to data center design and optimization, each Yorel customer has unique business needs. Our methodology is structured enough to ensure consistency and predictability, but it's also flexible enough to be customized to address your particular business needs. This enables Yorel to:

- ▶ Deliver a full lifecycle of project activities while also focusing on continuous improvement.
- ▶ Recognize solution dependencies by taking a comprehensive view of your IT infrastructure.
- ▶ Provide multiple design alternatives that address specific business needs according to capability, cost, and risk constraints.

Our Data Center Design & Optimization partners include:

- IBM
- PowerWare
- APC
- Avocent

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SYSTEMS & STORAGE MANAGEMENT

Let Yorel consolidate your IT infrastructure

Businesses manage, share and protect more information than ever. Unfortunately, rapid growth and budgets forced many of them to use direct-attached storage solutions like server-based storage or SCSI-attached disks. If you're one of them, you've probably discovered that these solutions spread vital information resources across multiple systems and applications, add to the cost of managing and maintaining information, and put serious demands on already strained networks and limited IT management resources.

Similarly, many businesses maintain one-application-one-box server infrastructures. These were often developed in response to budget pressures or as a way to shortcut complex system integrations due to incompatible technologies across an entire network. In either situation, these systems are now becoming difficult to manage and integrate into today's higher performing networks.

Yorel's SSM Solutions

Effective IT management eliminates unnecessary system complexity, which saves money and minimizes business risk. Because even minor changes to network configurations can radically affect management complexity, Yorel specializes in network simplification. We help customers like you regain control of their systems. Besides system management tools, we offer ongoing audits and system health checks. We also work with customers' IT teams to design manageability into their computing and storage infrastructures. Our Systems and Storage Management (SSM) solutions include:

- ▶ Capacity Planning
- ▶ Data Policy
- ▶ Storage Management
- ▶ System Monitoring
- ▶ Load Balancing
- ▶ System Studies
- ▶ Storage Strategy & Policy
- ▶ Process Automation
- ▶ High Availability
- ▶ Performance Tuning
- ▶ Information Lifecycle Management (ILM)
- ▶ Backup & Recovery

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Resource Management Choices

Consolidation has emerged as an extremely effective way to streamline operations while reducing TCO for storage resources. What you need to know is how to consolidate technology, information and operations so that you maximize resource utilization and how to develop a strategic approach to managing your storage assets. We believe there are three key types of consolidation:

Technology Consolidation—Many companies are currently consolidating islands of direct-attached storage (DAS) into storage area networks (SANs) or network attached storage (NAS) infrastructures. However, many enterprises that have been through that process are now tackling the larger challenge of consolidating islands of SAN and NAS devices and server proliferation.

Information Consolidation—Rapid rates of information growth have led to a new consolidation requirement—information consolidation—in which decentralized data on distributed file systems is moved to a common file system for efficient sharing and ease of management. Specifically, companies need to address the consolidation of fixed content, unstructured data that lives outside databases and the growth of Microsoft Exchange environments.

Operational Consolidation—Infrastructure management has become troublesomely complex due to the proliferation of tools to accomplish individual tasks. Thus, management requires more manual intervention for monitoring, reporting, planning and provisioning storage. Organizations are now looking to consolidate device management so that people spend their time on more proactive work.

Key Business Benefits

Yorel recognizes that data is your most important asset. That's why we specialize in making sure you can store, retrieve, and protect data at a cost that aligns with the data's business value. We also help customers like you manage their systems for optimum performance, uptime, cost effectiveness, and rapid scalability.

If your business has implemented various solutions over time to support growth, we can help. We're consolidation experts. Trust us to develop solutions to consolidate your storage and server environments. When you do, you'll:

Reduce Total Cost

- ▶ Improve utilization rates
- ▶ Reduce unused server and storage capacity and resources
- ▶ Simplify complexity with efficient management, backup, and disaster recovery

Improves Business Value

- ▶ Provide optimized storage tiers to meet different service level requirements
- ▶ Automate provisioning of server resources to the most critical applications
- ▶ Improve ROI and ability to support new business requirements

Our Systems & Storage Management partners include:

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- Citrix
- PlateSpin
- VMware
- Tivoli
- VizionCore
- Cisco
- Net IQ
- Microsoft

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