

Visionael® Network Resource Manager

Know Your Network

Change is risky. But comprehensive real-time knowledge of your network can dramatically reduce the risks inherent in network transformations. As the information technology department works to execute against IT driven business goals—Voice over IP, software as services, and datacenter virtualization, Visionael's technology provides the tools to do it faster, better, and more cost effectively.

Visionael's Network Resource Manager (NRM), part of the Visionael Service Automation Suite, provides a detailed, accurate view of the existing network infrastructure including equipment, cabling, connectivity and topology—all in real time. This information is stored in the open, scaleable, and collaborative NRM repository and is automatically presented in logical and physical diagrams.

Visionael® Network Resource Manager, including its robust web accessibility, is the foundation upon which business transformations are planned, implemented and maintained.

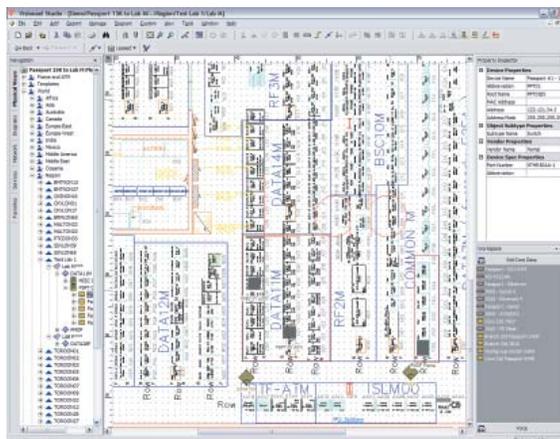
NRM plays a key role in all areas of the network life-cycle:

- **Discover** network assets and connectivity
- **Design** network modifications and upgrades
- **Deploy** physical and logical changes
- **Provision**, design and assign network elements and circuits
- **Operate** the network with accurate and current network documentation

Discover

Network Resource Manager becomes the repository of record for any discovery process or phase. Detailed device information including full physical configurations and port-to-port connectivity are stored in the NRM repository. Initial population of the Visionael repository is rapidly accelerated with the automated discovery capabilities of the Visionael Discovery Reconciliation Manager (licensed separately). In less than two hours, DRM can map an organization's network consisting of more than 1,000 devices from multiple vendors, including desktops, switches, and routers. NRM enables information from external sources to be imported easily.

Included with Visionael NRM is Visionael Studio. Engineers can trace connectivity and circuits, modify network diagrams, and process moves, adds and changes — all in a true multiuser design environment.



Challenges

- Organization-wide application roll-outs, such as VoIP
- System Audits
- Sarbanes Oxley compliance
- Integration of an acquired company's IT infrastructure
- Infrastructure transformation
- ITIL or eTOM projects

Visionael Service Automation Suite

Automated Infrastructure Data Collection

- Asset-oriented discovery provides detailed device information, reducing the need for physical audits
- Regularly scheduled discoveries and reconciliation maintain up-to-date, accurate information

Physical and Logical Network Modeling

- Comprehensive central repository of network devices and connections provides data for all stages in the infrastructure life-cycle
- Patented DesignView™ technology shows the network in detailed historical, current/as-built, and future representations, driving time and cost out of network change processes

Open, Scalable, Reliable

- Auto-discovery and reconciliation maintains the accuracy of network data over time
- More than 20,000 pre-defined objects provide easy access to all major vendors' equipment

Flexible, Customizable

- Open APIs and XML data export facilitate creation of custom menus, property pages and objects
- Data import from and export to existing applications assures smooth integration with your existing management system
- Automation Solutions provide pre-filled templates for unprecedented automation of tasks associated with the creation and provisioning of Next Gen services

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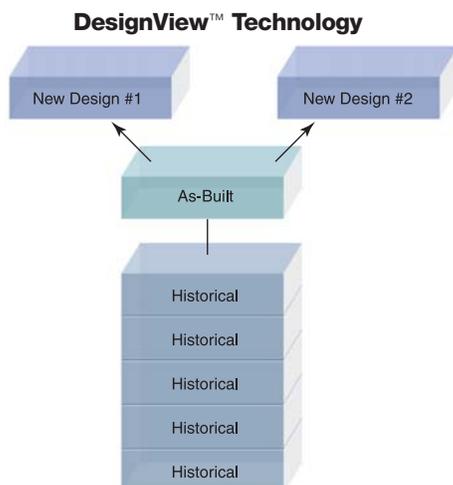
Using NRM's asset repository, customers can quickly identify and recover stranded assets and fully utilize all the ports and slots on devices, eliminating the purchase of unnecessary equipment, and delivering a rapid return on investment. NRM also provides information that can be cross-referenced against vendor maintenance invoices and circuit billing charges, minimizing, if not cutting recurring costs.

NRM enables organizations to more efficiently deploy existing resources, eliminate redundancies, and dramatically lower support and maintenance costs. The application models accurate physical configurations of chassis and cards using a substantial, pre-defined library of vendor equipment, ready for display on a graphical user interface. Visionael can certify new equipment for the library within 30 days of a request.

With this foundation for IT governance in place, organizations can easily develop best practices in accordance with IT Infrastructure Library (ITIL) and IT Service Management (ITSM) guidelines.

Design

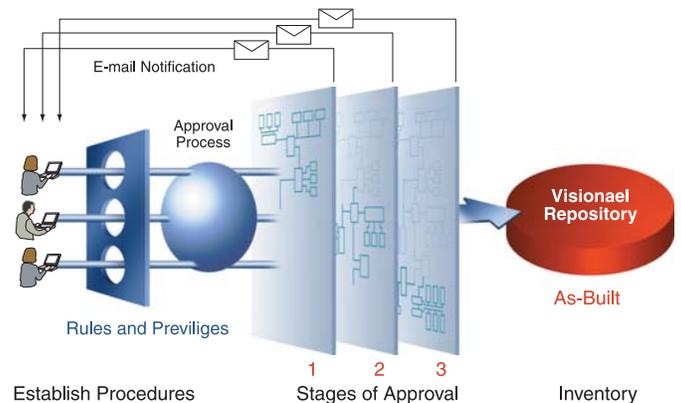
Today, most organizations rely on desktop tools for network design and documentation. These tools lack the scalability to support the magnitude of simultaneous infrastructure extensions and changes. These tools also create immediate obsolescence—network designs are out of date the minute they are completed. Visionael Studio, with its patented DesignView™ technology and included with NRM, provides a database-connected, collaborative environment enabling physical network design and logical sketching, eliminating the need for single-user design and documentation tools. With Visionael NRM, multiple network engineers can work on audits and designs concurrently.



Building upon the powerful modeling capabilities of NRM, circuits are fully integrated, including change management, workflow and security functions. Any service can be traced quickly and depicted graphically. The accessible relationship of circuits to the network equipment inventory helps engineers design more accurately and productively.

Especially adept at designing and managing Next Generation IP-MPLS networks, engineers have greater visibility into both the logical and physical layouts of their networks. Accuracy increases and downtime is significantly reduced.

Visionael supports virtually all circuit types and services from private lines such as T1/E1, T3/E3 and OC-x to ATM and Frame Relay, voice trunks and leased backhauls. Circuit attributes supported include location points, QoS parameters, port speeds, and detailed data about equipment ports that establish the physical connectivity.

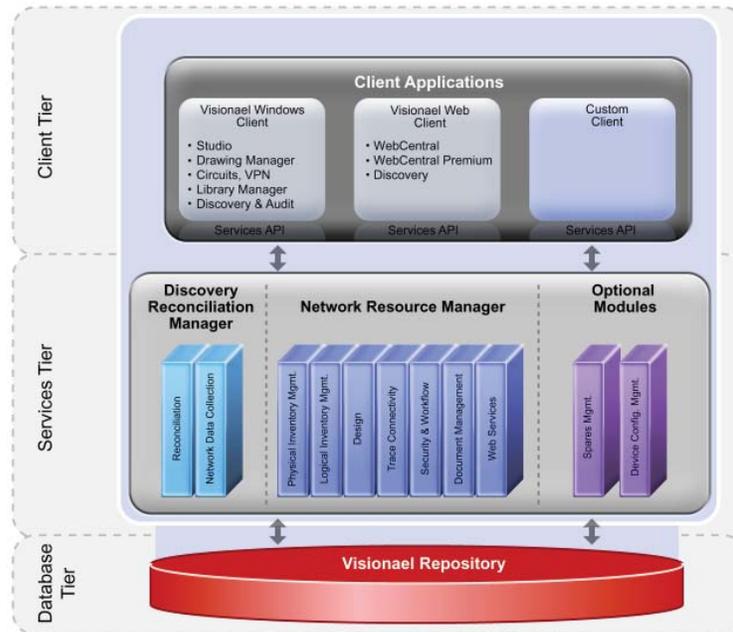


Visionael NRM's templates and design guides simplify and automate IT processes, eliminating redundant activities and manual tasks. Faster design and enforced adherence to defined standards translates to higher productivity and improved quality. The result is dramatic reductions in the errors and outages associated with network changes.

Because it leverages a single database to serve multiple customers, Visionael NRM enables the delivery of efficient network change management capabilities and supports a security workflow model compatible with virtually any business process. NRM prevents users from configuring, or seeing, unauthorized network segments.

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Deploy, Provision, Operate

The Visionael NRM solution helps organizations operate and maintain networks by providing partitioning and security to manage multiple networks and segments. Organizations can gain operational simplicity and efficiency by managing networks for multiple external or internal customers in the same NRM database, while maintaining separate database segments to avoid co-mingling data and exposing customers' networks to one another.

NRM's open architecture creates access to the rich data set in the repository and provides robust extensibility through Application Programming Interfaces (APIs). Custom menus, special property pages, system events handling and development of specialized integration with third party applications can be created by the Visionael Professional Services organization or by your organization's internal developers.

The powerful capabilities of Visionael's APIs automated workflow and data flow-through work with Operations Support Systems (OSS) components. Business-specific rules and processes capitalizing on the accurate network model in the Visionael repository can also be implemented.

NRM, via APIs, supports integration with fault management, service assurance, and trouble ticketing systems. Armed with an integrated solution that provides detailed and accurate infrastructure documentation, network operations and support, organizations can reduce network repair time and costs.

Visionael Network Resource Manager, a repository-based solution, is scalable, delivering high performance in the most complex network environments, helping companies unify multiple applications on a mix of industrial-strength platforms. NRM's three-tier architecture is designed to support both large-scale, mission-critical deployments with diverse, widely-dispersed environments and smaller implementations in a more concentrated user community.

Training, Consulting, and Support

Visionael Corporation helps you secure the highest value from your software investment. In turn, Visionael provides services that enable customer's success, offerings include from professional services, software training courses and on-going technical support assistance.

The Visionael Professional Services organization helps ensure that policy becomes practice. Visionael consultants are available to assist with installation, integration, and customization of the Visionael solution. They combine expertise and objective perspective to customize a solution for each organization's individual needs. This guarantees rapid deployment in the existing environment, minimizes implementation effort, and maximizes investment value.

Visionael Customer Education helps build and enhance your team's skills. With classes designed to address the skill requirements of each participant, Visionael helps your organization quickly and successfully implement the Visionael software.



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The Visionael Customer Care group offers essential product knowledge to help you make the most of your implementation. The support team of responsive, highly skilled engineers delivers detailed technical assistance, with a selection of service levels and contact options. Customer Care helps you maximize software efficiency, revenue generation and customer satisfaction.

System Requirements

NRM and Repository Requirements (minimum requirements):

RDBMS:

Oracle 9i rel 2 and 10g Enterprise and Standard Edition
Microsoft SQL Server 2000 SP4 or higher

RDBMS OS:

Solaris 9 and 10 with the most recent Java and OS patches
Windows 2000 Server and Advanced Server
Windows Server 2003

APPL SERVER OS:

Solaris 9 and 10 with most recent Java and OS patches
Windows 2000 Server and Advanced Server
Windows Server 2003

CLIENT OS:

Windows 2000
Windows XP Professional

WEB BROWSER:

Microsoft IE 6.0 or higher

WEB REPORTS SERVER:

Microsoft IIS 5.0 or higher (on Windows 2000 and 2003)
Crystal Reports XI Developer and Server Edition
Crystal Reports 10 Developer and Advanced Developer Edition

Visionael Corporation provides best-of-breed software and services that allow telecommunications service providers, network outsourcers, enterprises and government organizations to automate the rollout of network services over IP networks and to accelerate time-to-revenue and productivity. With Visionael software, network operators can more quickly design, provision and activate next-generation services—including voice, data, mobile and video offerings—all while reducing the complexities of managing large, advanced networks.

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