

Maintaining an accurate utilization of network resources for customer services can be time-consuming and costly, but it is essential for managing the networks to deliver services. The Network Discovery product is the answer to keep track of physical and logical resources directly from the networks in a non-intrusive and automated way. It provides a unified view of customer services, associated logical facilities over multi-vendor multi-technology networks.

Business Benefits

The following business benefits are supported by the Network Discovery product:

- ◆ Improve the efficiency of network maintenance
- ◆ Reduced time and costs when provisioning services
- ◆ Unified views of customer services and logical service components
- ◆ Real-time information on the networks and services and state of devices for better customer service management
- ◆ Uncover and track network assets to ensure maximized use of the capacities for customer services

Product Features

The Network Discovery product consists of the key components:

- ◆ Discovery Engine
- ◆ Scheduling and Management
- ◆ Assimilation
- ◆ Network and Service Model in the Network Knowledge Base
- ◆ Web-based Unified View of Network and Services

It can also be used as the common component to support:

- ◆ Accurate Inventory with Physical and Service Reconciliation
- ◆ Service and Network Provisioning
- ◆ "Customer Aware" Service Assurance and Service Management

Discovery Engine provides an automatic sweep of the networks to continuously probe, in a non-intrusive way, the physical elements of the

networks, ranging from switches, trunks, and ports. It identifies service components including bridging points and virtual circuits and stores the data into the Network Knowledge Base.

The Discovery engine can support auto-discovery for known and new network elements on a scheduled basis, and where on-demand discovery can be invoked for known network elements. The Discovery engine also provides a unified access over the heterogeneous networks ranging from ATM, IP, and DWDM enabled SONET.

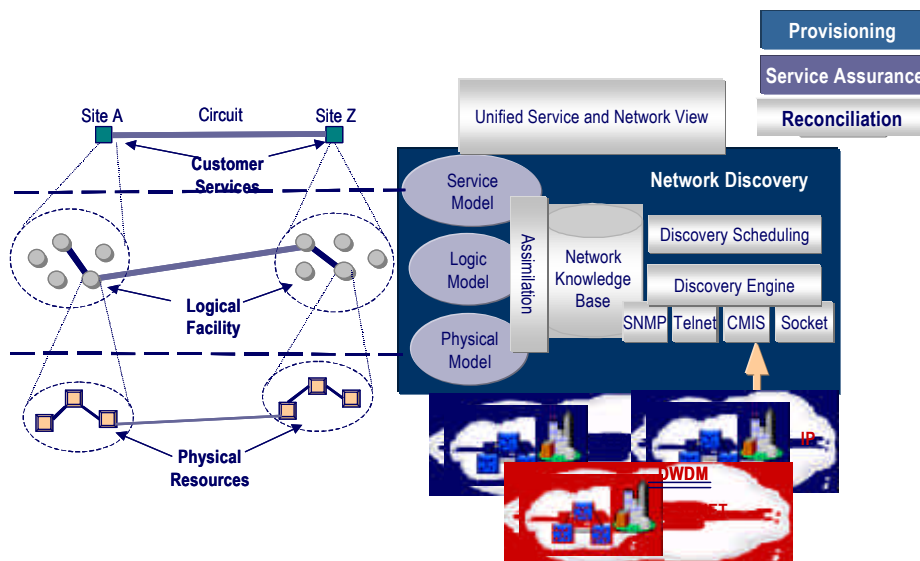
Scheduling and Management can manage auto-discovery on a scheduled basis. It supports the audit-trial when maintaining "as is" network data with historical changes directly from the networks.

Assimilation runs against the Knowledge Management Base to correlate related service elements and associate them to an overall end-to-end logical service. It can assimilate a wide range of high demand broadband and IP services, such as VPN and T1.

Network Knowledge Base provides meta-model to represent and store physical networks identified through the discovery, and logical resources and customer services assimilated from the network data.

Web-based Unified View of Network and Services provides a set of network GUI tools that can be used to query and view physical networks, logical facilities and customer services graphically with detailed descriptions.

Systems and Network Integration provides a set of integration points for inventory reconciliation, provisioning with "as build" view and customer aware service management and proactive service assurance.

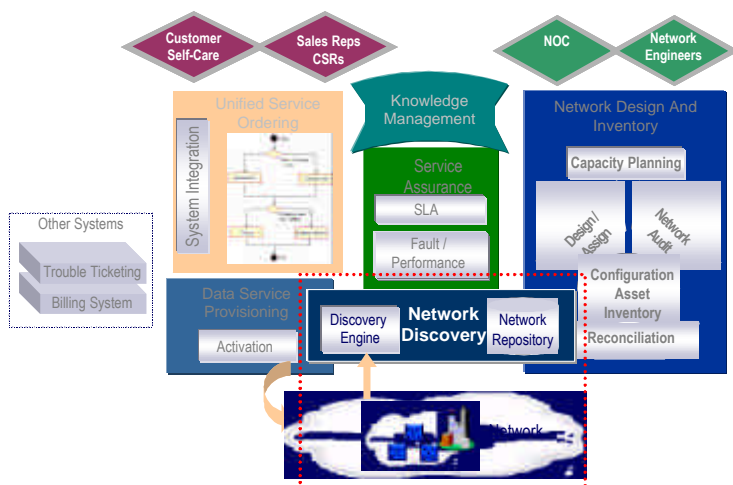


Network Discovery: Product Overview

NTG Clarity Product Suite Overview

NTG Clarity also offers Network Discovery as part of its end-to-end software suite. It is the common component for Data Service Provisioning, Service Assurance and Network Design and Inventory products to provide direct network discovery capabilities.

The products in the suite can be implemented individually, or integrated in the suite or with other operations support systems.



NTG Clarity End-to-End Software Product Suite

The following are brief overviews of the other products in the suite.

Unified Service Ordering: As a service provider, enabling the sales force and customers with direct ordering provides the competitive advantage. This product offers rapid service modeling and flexible order captures by different channels. Its order entry and order management are enabled with the scalable J2EE / XML technologies. It can be integrated with flow-through service activation and billing while providing centralized customer information and service catalogue.

Network Design and Inventory: The service provider must leverage existing networks and continue to build new networks for offering competitive services. This product improves every aspect of networks, from planning, design to ongoing maintenance. Its deep discovery capability supports network audit for data integrity for keeping accurate inventory and facilitating engineering design.

Data Service Provisioning: Creating and activating services rapidly is a key requirement when fulfilling customer data services on a timely basis. This product, coupled with auto-discovery capability and built-in end-to-end circuit design, automates the complex process of creating and activating data services over multi-vendor multi-technology networks.

Service Assurance: The service provider must ensure the quality of customer services. This product proactively tracks; correlates network events and alerts with customers. It supplies the network and service assurance through fault and performance to meet customer service level agreement.

Knowledge Management: The service provider needs to be efficient with operations when delivering services. This product provides a centralized portal to facilitate knowledge management, collaborative communications, and document management. It is the information repository, with easy to use NOC web access, integrated with multimedia contents identified by the service provider.

Software Implementation Services

NTG Clarity provides software implementation and integration services that cover the full life cycle of solution implementation with key activities in:

- ◆ Project Management
- ◆ Requirements Analysis
- ◆ Functional and Architecture Design
- ◆ Customization, Integration and Implementation
- ◆ Documentation and Training
- ◆ Installation, Configuration and Performance Tuning
- ◆ User Acceptance Testing
- ◆ Support and Maintenance

Who is NTG Clarity?

- ◆ Full Service and Quality Networking Company
- ◆ #4 Fastest Growing Company in Alberta for 2001
- ◆ Publicly trading on the CDNX under symbol NCI
- ◆ Established in 1992
- ◆ Offices in Toronto, Montreal, Calgary, Vancouver, US and Egypt
- ◆ Experienced in developing and delivering enterprise and telecommunications solutions

Why NTG Clarity?

- ◆ Specializes in networks and network applications
- ◆ Guarantees results and willing to share the risks
- ◆ Client Centric
- ◆ Help evolve and maintain your environment while phasing out old technology applications
- ◆ Flexible engagement model



People. Products. Technologies.
Network Software Solutions.

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