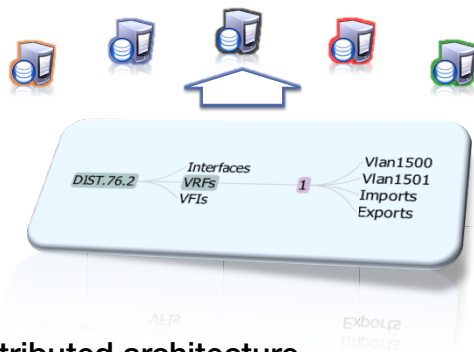


- Easily find and document what is in your network
- Update documentation on the fly as needed
- Quickly add discovery to your existing environment

Discovery and Reconciliation for up-to-date network documentation

The Visionael Network Communication Manager – Discovery Manager (NCM/DM) finds your network elements and performs discovery on the physical, logical and operational aspects using its extensive library of element specifications.

NCM/DM also provides an unparalleled knowledge base of standard and proprietary SNMP MIBs to fetch and store vendor specific information. The distributed and intelligent discovery process transforms all discovered data into a correlated network representation providing a normalized view of the current network state. The details in this view are completely open and available to any third-party application by way of APIs on the Visionael Enterprise Service Bus.



- Open and extendable data model
- Selective and triggered discovery
- Stores configuration and state of the network devices
- NCM Network Mirror uses a flexible structure to be able to store nearly any kind of discovered data.

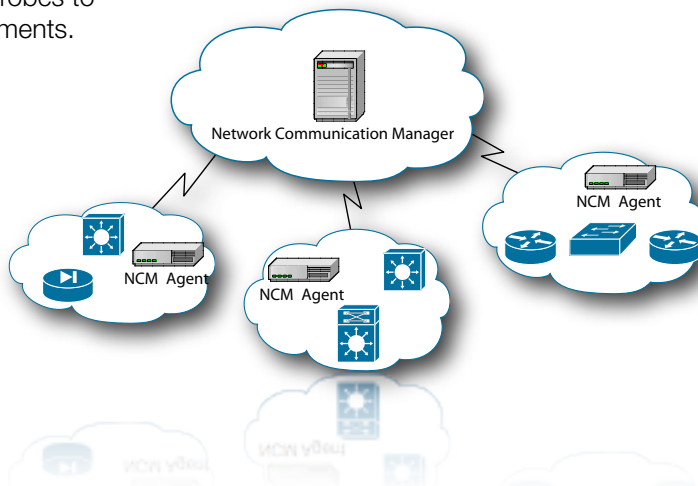
Distributed architecture

DM is based on a fully distributed architecture where the agents are designed to be deployed close to the network elements with which they will communicate. The agents are managed from the Network Communication Manager. Each agent has a local planning engine allowing it to carry out a discovery as efficiently as possible based on available discovery probes. This methodology also reduces the required bandwidth during a discovery.

DM agents utilize information probes to communicate with network elements.

Examples of Probes are:

- ICMP Ping
- SNMP Hardware Discovery
- CLI Command
- Configuration Parsing



Your Source for Network Truth

The Network Mirror is the best source of information about your network at any single point in time.

By providing normalized data in any multivendor and multi-service network it will be the preferred source of network truth for both OSS systems and your technical staff.

Controlled Network Utilization

In NCM/Discovery Manger we provide a set of features to prevent over utilization of your network.

- Only send new changes from agent to Discovery Manager
- Throttling functionality to make sure NCM/Discovery Manager stays below the predefined network load
- Efficiently gather data from network elements

The Visionael OSS Suite

The Visionael OSS Suite provides a full set of tools for service providers, enterprises, and system integrators facilitating automatic discovery, documentation, physical and logical resource allocation and provisioning/activation of services and network elements as well as customer specific process automation.

All products in the OSS suite are designed to work in concert or stand alone as modules of a multivendor OSS environment.



Add smart discovery to your existing OSS environment

The application is easy to install. DM provides an alternative to traditional costly and time consuming solutions and provides a significant improvement over manual management methods.

With a minimum of configuration, DM will discover your network elements and connection points. DM will then produce a normalized representation of your network in the Network Mirror. Custom reconciliation modules can further be deployed to fetch data from the Network Mirror and reconcile it into any third party network repository. Now adding automatic and smart discovery in your OSS environment is easy.



Visionael Integrated Object Notation

The NCM products (Discovery Manager and Activation Manager) use a common human-readable notation to represent network configuration and network state. This allows Activation Manager to use the NCM Network Mirror as its base for activation transactions and also provides an easy-to-implement messaging format for third-party applications that want to update their databases based on the Network Mirror or perform activation using AM.

Platform and Requirements,
NCM / Discovery server

Platform and Requirements,
NCM / Discovery agent

Operating Systems and Platforms:

- **Sun Solaris 10**
 - Sun UltraSPARC (minimum 1 processor at 1.4GHz)
 - Intel and AMD 32 and 64 bits processors
- **SUSE Linux Enterprise Server 10**
 - Intel and AMD 32 and 64 bits processors
- **Red Hat Enterprise Linux 5 server**
 - Intel and AMD 32 and 64 bits processors

Java requirement:

- Java JDK 1.6

Application server

- Sun Glassfish 2.1

System Requirements:

- Dual core 2.6GHz (minimum)
- Memory: 6 GB (minimum)
- Disk Space: 2 GB (minimum)

Platform and Requirements, Client

Operating Systems and Browser:

- Any OS supporting the supported browser requirements
- Mozilla Firefox 3.5 or later.

System Requirements:

- 2.3GHz (recommended)
- Memory: 2 GB (recommended)

Network connection (Client-Server):

- 2 Mbps IP connection (recommended)

Operating Systems and Platforms:

- **Sun Solaris 10**
 - Sun UltraSPARC (minimum 1 processor at 1.4GHz)
 - Intel and AMD 32 and 64 bits processors
- **SUSE Linux Enterprise Server 10**
 - Intel and AMD 32 and 64 bits processors
- **Red Hat Enterprise Linux 5 server**
 - Intel and AMD 32 and 64 bits processors

Java requirement:

- Java JDK 1.6

Application server

- Sun Glassfish 2.1

System Requirements:

- Dual core 2.6GHz (minimum)
- Memory: 6 GB (minimum)
- Disk Space: 1 GB (minimum)

Need more information ?

Please visit us at

<http://www.visionael.com/>

Enterprise Service Bus

All our API's are exposed and well documented allowing any system within your OSS environment to use data residing in our products, minimizing the integration tax.

No internal API's are used.

OSS simplified

The Visionael OSS Suite is designed for cost-effective deployment by operators and systems integrators. Visionael OSS provides an alternative to traditional costly/time consuming solutions and a significant improvement over manual management methods.

Easy to learn, your teams can be productive in weeks not months. Integration to other systems like CRM or Order Entry is simple with our flexible Enterprise Service Bus – a set of public APIs. Fast time to value delivered. The Visionael OSS Suite is a proven solution in use by operators around the world.

Please visit our web site for additional data sheets and videos.