

# DNA Network Topology Visualisation v1.0



## Data Sheet

Many organisations have no or obsolete network documentation because manual audit procedures are time-consuming, inaccurate, incomplete, thus expensive. Automation using a network discovery solution, including integrated reporting and visualisation tool, can solve this issue in providing network asset information and topology maps anytime “at a push of a button”.

With DNA Network Topology Visualisation v1.0, neteXpose Documentation Network Application (DNA) now offers a powerful topology visualisation application, helping network managers better understand and overview their networks.

Based on the DNA discovery data, DNA Network Topology Visualisation v1.0 automatically draws an accurate picture of the entire network: on different network levels, using various layout styles, producing clear, structured, and easy-to-understand maps.

## Key Features

- **Automatically generates dynamic network maps:**
  - Users can select between a variety of DNA maps on layer 2, layer 3, and hybrid layer 2/3
- **Integrated graph layout technology puts the “unordered ugly” layout into well-organised drawings:**
  - No piecing together of single device views. Using an export facility to an associated visualisation application. DNA maps on all levels, e.g. devices, subnets, enterprise sites, are automatically produced based on discovered topology data
  - Layout technology reveals complex relationships in network topology data by automatically computing diagrams, and positioning network devices, end stations and connections, generating clear, structured and aesthetic maps
- **Several layout styles to display network topology:**
  - Users can choose from among several layout options, e.g. circular, hierarchical, orthogonal, symmetric, to position network objects in an aesthetic and easy-to-understand way
- **Sophisticated graph display, viewing and editing technologies:**
  - Zooming, panning and scrolling features support drill-down from high level views to lower levels, including every single device and connection
  - Overview Window displays the complete drawing, when zooming, scrolling, or panning modifies the view port of the drawing canvas
  - Icon palette offers a variety of network device and other icons which can be dragged onto the drawing canvas
  - Different label and line styles to customise drawings
- **Maps are connected to DNA Reporting Tool, supplying users with inventory information on different levels:**
  - Every device is automatically labelled with its IP address, name and vendor
  - Moving the mouse over a connection will display its start and end point, including IP address, name, and device vendor
  - Right mouse click on a device opens its DNA Device Report, and gives access to other drawing options
- **Navigation and search tools:**
  - Navigate connections: Moves the cursor along a connection to its switch and back to the start position
  - Search facility locates every single map device based on its Host name, IP address or MAC address

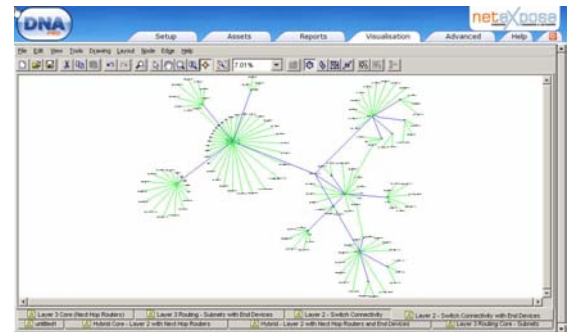


Photo 1: Layer 3 Routing – Subnets with End devices (Circular Layout)

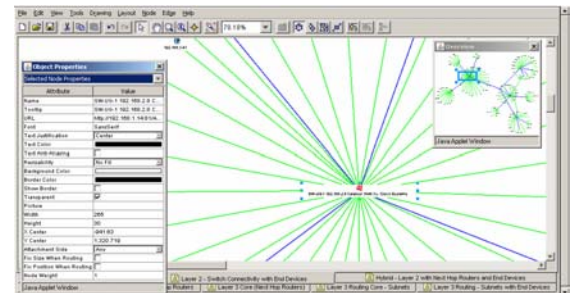


Photo 2: Zoomed network of photo 1, including Overview Window, showing total network, and Properties Window with inventory data of selected device

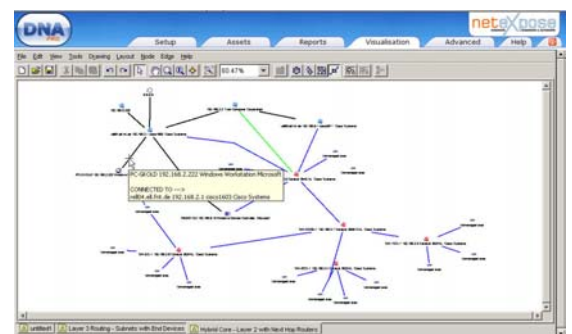


Photo 3: Zoomed network portion, including labelling and connection information

## Order Information

DNA Network Topology Visualisation v1.0 runs as additional module of neteXpose DNA v3.3. It can be purchased separately as DNA add-on or to extend existing neteXpose DNA installations.

# DNA Network Topology Visualisation v1.0



## Key Features, cont.

- **Different output and access options ease map sharing, processing and archive:**
  - Multi-user web access to drawings and reports
  - Different map print options: on one page, in actual size, or spread over several pages
  - Export facility to Microsoft Viewer™ and Microsoft Office Visio™

## Key Benefits

- Accurate, complete, and affordable network documentation
- Minimises time for documentation draw up and updates
- Gives network staff a complete infrastructure overview into
  - topology and device distribution on layer 2 and layer 3
  - network neighborhood relations
- Search feature eases location of any single device in large networks
- Improves network planning and operations efficiency by rapidly identifying the physical characteristics and location of network devices
- Enhances network security
- Information sharing through multi-user web interface

## Key Uses

- Network audit, network documentation
- Network troubleshooting
- Network planning, device and connection optimisation
- Maintenance procedures, e.g. security management, software downloads
- Pre-sales activities, e.g. device, vendor distribution, capacity planning

## netexpose DNA Products

DNA Network Topology Visualisation v1.0 is an add-on module to netexpose Documentation Network Application (DNA). DNA offers a complete software solution to automatically localise and document IP network assets, and consists of:

### DNA Network Discovery Engine

DNA Network Discovery Engine serves as basic module for all other DNA applications by performing three key functions: auto-discovery of the layer 2 and layer 3 network, topology calculation, building-up of the corresponding SQL data base.

### DNA Network Inventory Reporting Tool

DNA Network Inventory Reporting Tool uses the DNA open SQL database to sort the collected data under a network asset management point of view. It delivers detailed information about deployed hardware and software, including vendor-specific information. A variety of predefined and customisable reports allow for quick and easy data analysis and presentation.

### DNA Network Topology Visualisation

netexpose DNA comes with an integrated basic visualisation application, generating two networks views: Layer 2 Neighborhood Map and Layer 3 Next Hop Map. DNA Network Topology Visualisation v1.0 is an add-on module to netexpose DNA application, offering enhanced visualisation features.

Both visualisation applications are based on topology and inventory data of the DNA SQL data base, and are linked to the DNA Reporting Tool.

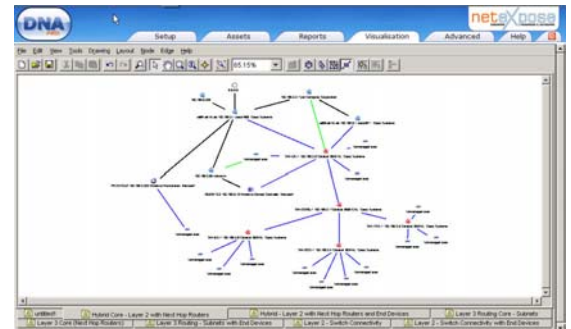


Photo 4: Hybrid Layer 2 with Next Hop Routers and End Devices (Symmetric Layout)

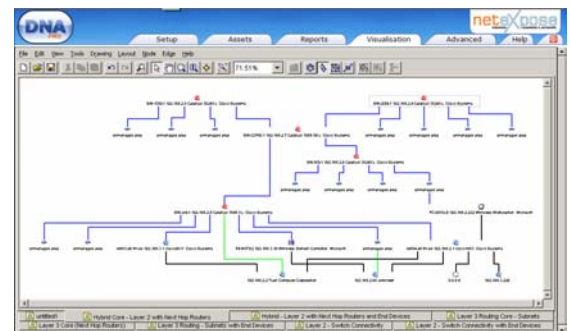


Photo 5: Hybrid Layer 2 with Next Hop Routers and End Devices (Hierarchical Layout)

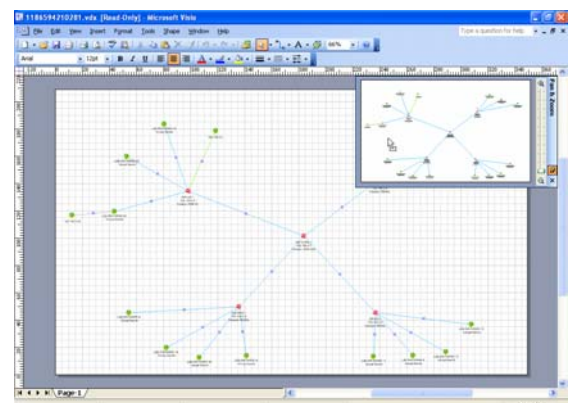


Photo 6: DNA map, exported to Microsoft Office Visio

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