DNA

DNA Discovery CDS User's Guide

Best Practices & Setup

How to Perform a Network Discovery Using neteXpose DNA

How to Produce Product Lifecycle Reports Using the DNA Cisco Discovery (CDS) API

How to Produce Product Lifecycle Reports Using the DNA Knowledge Base Server (KBS) and the DNA Value-add Information (VAI) Application

Date: 25.02.2011
Doc.: DNA Discovery CDS User's Guide_E

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1 Introduction

This manual describes how to perform a network discovery, and how to produce product lifecycle reports on Cisco equipment using the Cisco Discovery Services (CDS) API or the DNA Knowledge Base Server (KBS) and the DNA VAI Application.

2 neteXpose DNA Modules

The DNA software has been designed to dynamically document any IP network: DNA explores and details network devices such as routers and switches, as well as end-stations, e.g. servers, workstations, printers and IP phones from different manufacturers. neteXpose DNA consists of the following modules:

DNA Modules Version 3.6	Features & Functions	Access / Tab
Discovery Engine	Discovery Setup Real-time Discovery Monitoring Discovery Summary Report summarizing the discovery results	Setup Asset
Asset Reports	Pre-defined reports and SQL query reports Discovery information listed by all devices, all vendors, etc. (Group Reports), per vendor, per device type, per software, etc. Report export to Microsoft Office Excel and Word	Asset
Value-add Information (VAI) Reports and DNA Knowledge Base Server (KBS)	Correlation of KBS data with discovery data VAI Reports, e.g. product lifecycle reports on Cisco and other network vendors' equipment, Security (CVE) Reports on Cisco IOS Microsoft Office Word Templates to document the discovery results Report Export to Microsoft Office Excel and Word	VAI
Cisco Discovery Services (CDS) API	Transfer of discovery data on the Cisco equipment to the Cisco Backend System to receive product lifecycle analysis and reports on Cisco equipment	http://xxx.81/ CiscoIBLM.dna
DNA Visualisation	Pre-defined network maps User-defined network maps End of X (EOX) maps Filter Builder Graph and layout application, icon library Access to DNA Asset Reports All asset data in maps available	Visualisation
SQL Database	Stores the discovery data and asset reports information Must be provided by the user PC	Advanced
XML Database	Stores the VAI information Needed for CDS transfer Needed for network map and EOX map creation	VAI / Config Tools
Integrated Web server	Access to all DNA applications, reports and maps User ID and password secured	NA

Note: Cisco CDS is only supported by DNA Version 3.6.

3 Software Installation

3.1 DNA Station Pre-requisites

The requirements for the DNA station are:

DNA Station	DNA Version3.6
Operating System	MS Windows 2000 & 2000 Server, MS Windows XP, MS Windows 2003, Windows Vista, Windows 7 Linux Suse Enterprise; Red Hat ES3; Ubuntu 9.x
RAM	4 Gb
Processor	Pentium 4 or equivalent
Java JVM	J2RE v1.6 or later
Browser	Microsoft Explorer, Mozilla Firefox, Google Chrome

Note:
When you want to install DNA on a Linux or Unix platform, please contact mailto:suuport@netexpose.com. We will support your installation.

3.2 Installer and Password

The software is supplied via download link. The DNA Installer installs the required components:

- Creates the *C:/Program Files/neteXpose directory.*
- Copies the DNA program files.
- Copies the MS Access database and creates the corresponding ODBC link.
- Creates a shortcut in the Start menu as well as on the desktop.

To start DNA, use "expert" as User ID and "expert" as password.

3.3 License and Folders

The DNA Installer does not contain the license. The license is obtained by contacting support@netexpose.com. For Cisco CDS users the license is part of the DNA package sent by email after registration.

Please extract the license.txt file out of the attached archive into your *C:/ProgramFiles/neteXpose/DNA/license* folder (or DNA\license\ if not installed in the default folder).

The license is a file linking the application to a given PC. It is needed to run a discovery and to produce the reports and maps. Without license it is possible to launch the DNA software after the discovery has been finished, and to review the information and reports collected during the discovery phase.

3.4 Databases and Folders

neteXpose DNA uses two databases:

An **SQL database** to store the discovery data and to produce the DNA Asset Reports, and an **XML database** to produce the product lifecycle reports, which either are produced by the Cisco Discovery Services (CDS), or the neteXpose Knowledge Base Server (KBS) and the DNA VAI Application.

The SQL data base is in the directory*: C:/Program Files/neteXpose/DNA/database.*

The XML database file is a thirteen digit number, e.g. 1269597553306, which needs to be created for every customer database, and which is automatically stored to the folder: *C:/Program Files/neteXpose/DNA/database/XML.*

3.5 DNA Launch and Shutdown

DNA is launched from the desktop shortcut or the start menu DNA instance. This includes launching DnaWebServer and DnaEngine and opens a web browser for the user interface, on *http://DNA server IP address:81*. In the taskbar, a DNA rolling icon appears: 

If DNA was already running, launching DNA again will open a new user interface.

To shutdown all the DNA services:

1. right-click the DNA rolling icon in the taskbar
2. select SHUTDOWN DNA

To log out the DNA web interface use the LOGOUT button in the menu bar.

4 Discovery Phases

4.1 Discovery Process

To perform a discovery including Cisco CDS transfer the user needs to go through the following stages:

1. Discovery Setup, Execution and Monitoring (SETUP tab)
2. Check the Discovery Summary Report to analyse the discovery success (ASSET tab)
3. Check other DNA Asset Reports to get an overview on the discovered devices and vendors (ASSET tab)
4. Create a DNA XML database file (VAI tab/Config Tools/XML Management/Create XML device file)
5. Load the DNA CDS interface to your browser
6. Follow the CDS transactions advices in this manual

Users working with the DNA Knowledge Base Server (KBS) and the DNA VAI Application to produce the product lifecycle reports proceed as follows after they created the XML database file:

1. Go to the VAI/END OF LIFE tab and click on the report you want to produce
2. Create the Security CVE reports (VAI/SECURITY CVE tab)
3. Create your Microsoft Office Word documentation (VAI/DOCUMENTS tab)
4. Or Export the EOX reports to Microsoft Office Excel

Note:
Using the DNA VAI/KBS approach, the EOX reports are fully produced on the DNA station. For the Cisco IBLM program the IBLM report needs to be emailed to Cisco by the Cisco Partner.

4.2 Discovery Preparation

Before you start the discovery, please consider the following items:

1. Network devices to be discovered need to be enabled for SNMP
2. The credentials for the network devices must be supplied by the customer, e.g. community string for test of SNMPv1/v2 devices, user ID and password for SNMPv3 and SSH. SSH credentials are also needed to get the full range of data for the Cisco CDS, Cisco KTN and Field Notices (FN) reports
3. At least one IP address is needed to start the discovery, preferably a router address (seed Router) or a subnet address

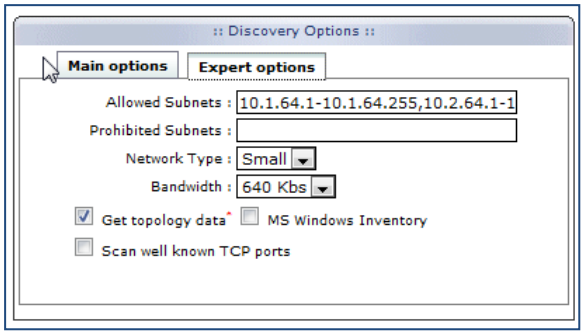
4.3 Discovery Setup and Process Monitoring

To define the discovery setup, click on the SETUP tab.

To receive the best possible scan result:

- Define your discovery targets
- Define the appropriate discovery methods and credentials

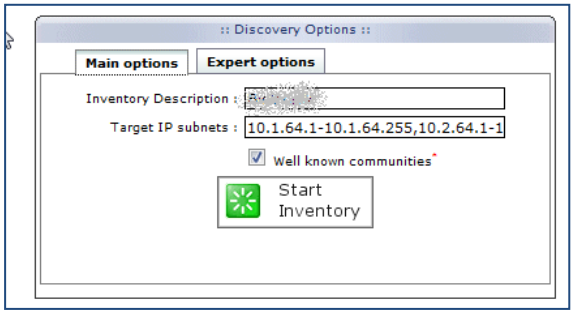
Define your Discovery Targets
In the SETUP/DISCOVERY OPTIONS / EXPERT OPTIONS menu, DNA is pre-configured to discover SNMP devices and the network topology (GET TOPOLOGY DATA). Use this setup to produce device and topology data for asset reports, lifecycle reports, as well as for network maps and EOX maps.



For a fast discovery disable GET TOPOLOGY DATA. This setup will not collect the routing, ARP and FWD tables on the switches. There is no topology calculation, and you cannot produce the DNA Network Maps and DNA EOX Maps.

If you also want to collect data on Windows WMI and NetBIOS stations, select MS WINDOWS INVENTORY in the DISCOVERY OPTIONS / EXPERT OPTIONS menu.

Define your Discovery Range
In the TARGET IP SUBNETS field of the DISCOVERY OPTIONS / MAIN OPTIONS menu you define which network or devices you want to discover by typing in one or more IP addresses or one or more IP address ranges (see below).



Note: Not in every case the discovery will be limited to these addresses.

If you definitely want to limit the discovery to the IP addresses in the TRAGET SUBNETS field, you need to copy the same addresses also to the ALLOWED SUBNETS field of the DISCOVERY OPTIONS/EXPERT OPTIONS menu. With this setup, only these IP addresses will be discovered.

If you want to exclude IP addresses form the discovery, go to the MAIN OPTIONS/EXPERT OPTIONS menu and add the IP addresses to the PROHIBITED SUBNETS field. These addresses are exceptions and will not be tested.

Discovery Methods, Syntax and Start Device
DNA supports three scan methods defined by their syntax:

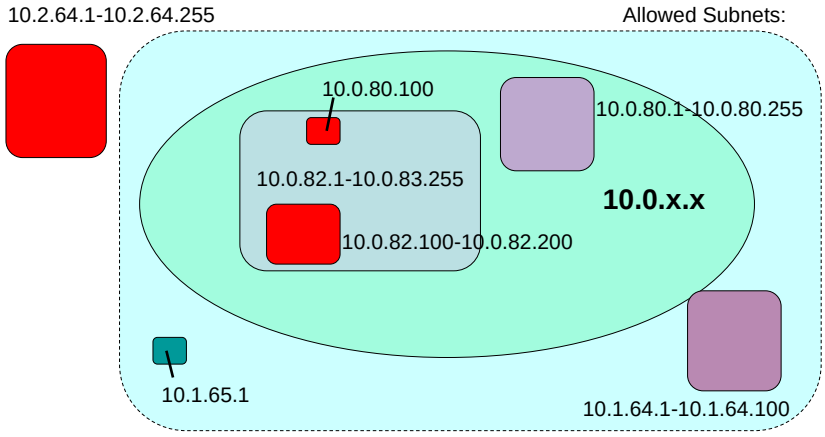
- **Multi-Protocol Scan**: every IP address of the subnet will be tested with Ping, SNMP, SSH as well as NetBIOS if the option MS WINDOWS INVENTORY is chosen. This method gives the best results since devices with ICMP disabled, i.e. not responding to Ping, are detected. The syntax is X.X.X for a Class C (example "10.10.10") or X.X for a Class B (example "10.10").
- **Ping**: IP addresses are pinged only. This method is faster but likely to miss devices with ICMP disabled, because of personal firewalls for example. The syntax is X.X.X.* (example "10.10.10.*").
- **IP range**: similar to the Multi-Protocol Scan, it limits the test to a specific IP range (example "10.10.1.1-10.10.20.200").

The three options can be combined by separating them with a "," (example "10.10.10.1,100.100.100.*,20.20.20.1-20.20.25.255").

Note:

- The best solution to start the discovery is with the IP address of a router, with several router IP addresses or with one or more subnet addresses containing a router.
- A single IP address can be used as TARGET SUBNET if it is a manageable device, i.e. SNMP, without Access Lists.
- If there is no SNMP device or if the network devices are not manageable, the TARGET SUBNET should be made of as many target devices as possible to balance the non existence of reliable ARP tables.
- Virtual IP addresses for HSRP or VRRP are dealt via different strategies, but it is better to use real IP addresses than virtual ones for the TARGET SUBNET field.
- For a fast SNMP scan disable all windows protocols
- The 10.10.10.* and 10.10.10 methods are the same we can comment that this is because of historical ping scan reason, .i.e. existing users still use the .* SYNTAX

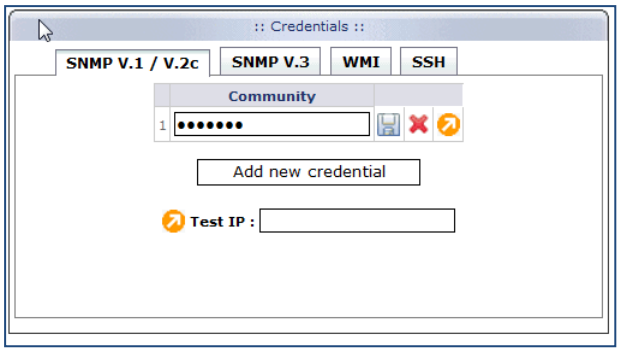
Example: Setup Class C Network



Setup Target Range: 10.1.64.1-10.1.64.100,10.0.80.1-10.0.80.255,10.0.82.1-10.0.83.255
OR: 10.1.64.1-10.1.64.100,10.0.80.*,10.0.82.*-10.0.83.*; 10.1.65.1
Allowed Subnets: 10.0.80,10.0.82-10.0.83,10.1.64.1-10.1.64.100,10.1.65.1
Prohibited/Excluded: 10.0.82.100-10.0.82.200, 10.0.80.100

Define your Credentials

Dependent on the selected discovery range and device types you need to define the credentials in the SETUP/CREDENTIALS menu.



The following credentials are supported by neteXpose DNA:

Model	Level	Authentication	Encryption	What happens
SNMP v1	noAuthNoPriv	Community String (read only)	No	Uses community string match for authentication
SNMP v2c	noAuthNoPriv	Community String (read only)	No	Uses community string match for authentication
SNMP v3	noAuthNoPriv	Username	No	Uses username match for authentication
SNMP v3	AuthNoPriv	MD5 or SHA	No	Provides authentication based on HMAC-MD5 or HMAC-SHA algorithm
SNMP v3	AuthPriv	MD5 or SHA	DES	Provides authentication based on HMAC-MD5 or HMAC-SHA algorithm Provides DES-56 bit encryption in addition to the authentication based on the CBC-DES (DES-56) standard
SSH/Telnet		Username/password Enabled password	DSA (SSH) RSA (SSH)	Uses a secure channel to exchange data between two devices including encryption

Note:
SSH credentials are needed to get the full range of data for CDS, KTN and FN reports.
Enabled Password is used for Enhanced PSIRT (Configuration-based) and Cisco Configuration files (optional).

Start the Discovery
In the INVENTORY DESCRIPTION field insert the customer name. This name will appear on some reports.

Click on the START INVENTORY button of the DISCOVERY OPTIONS / MAIN OPTIONS menu.

Discovery Process Monitoring
In the SETUP menu, the section CURRENTLY IN DATABASE will display the discovery process in real-time.

The INVENTORY ENGINE LOG tab lists the current DNA engine actions using colours to illustrate the protocols being used (**Blue**: search for active IP addresses; **Bold black**: processing of a device starts or ends; **Black:** SNMP conversations; **Violet and Orange:** Reserved for Microsoft conversations; **Red:** time-out). The INVENTORY ENGINE LOG also lists the post processing, including topology calculation, cleaning tables, and Discovery Summary Report.

The RUNNING POCESSES tab displays:

- **IPs in stack:** number of IP addresses waiting to be processed
- **IPs being processed**: number of devices currently detailed
- **IPs already processed**: amount of IP addresses tested
- **Estimated time left:** approximation based on the current inventory statistics
- **Inventory Progress bar**: shows the work already done and the work to be done

4.4 Check the Discovery Results

Discovery Summary Report
When the discovery is finished, the software will switch automatically to the Discover Summary Report (ASSETS tab). This report consolidates all the critical information relative to the successfulness of the discovery.

Discovery Summary	Content
Discovery Information	Discovery number, start date and time, state (completed, not completed, aborted)
License Warning	E.g. license limitation reached
Discovery Anomalies	Such as duplicated and virtual addresses
Accuracy	Summary of the devices found and created during the discovery, including the number of devices detected , the number of unresolved devices, and advices to optimise the discovery
Active Port Population	Summary of the switch ports with devices connected found and created during the post-discovery processing, e.g. the number of trunk ports, host ports and un-resolved ports. A trunk port is connected to another switch. A host port is connected to an end-device. An un-resolved port is an active port with multiple devices connected to it, none of them being a switch. Un-resolved ports are security breaches because they hide a hub or a switch, or even worse a Wi-Fi access point. Those ports must be investigated to improve the inventory coverage
IP Address Discovery Summary	IP address statistics such as the number of subnets, IP addresses and un-resolved IP addresses. Un-resolved IP addresses correspond to devices that did not respond to DNA and therefore represents a threat. Those addresses must be investigated to improve the inventory coverage
Devices by Type	Lists all discovered devices, sorted by type, including number and percentage per type
Setup Values	Setup parameters of the discovery

Discovery Result Optimisation
To maximise the discovery results you need to identify
- un-managed segments
- un-managed devices
- un-resolved IP addresses

by following the advices in the DNA Discovery Summary report. Un-managed devices must be made manageable or removed.

A second or a third discovery should produce a clean result.

4.5 Get an Overview on the Discovered Assets

To get an overview on the discovered devices types, subnets, vendors, software, etc. refer to the **Group Reports** (ASSET tab).

The **Cisco devices** are summarised in the following reports of the **Vendors Reports** section:

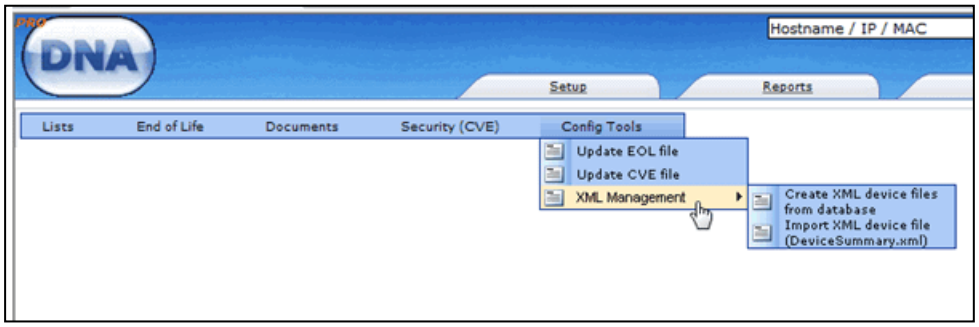
Report	Content
Cisco Assets	The Cisco modules, devices and IP phones. A chassis with multiple modules will be displayed on consecutives lines
Cisco CDP	The Cisco devices that have been learnt by CDP but did not respond to DNA, because of Access Lists, incorrect SNMP community or else. All those devices belonging to the network to be inventoried must be investigated and made manageable before running DNA again
Cisco HSRP	The routers involved into redundant HSRP configurations, with their virtual IP addresses

Selecting a device in one of the reports will display the **Device Report** with major asset, configuration and lifecycle data on that device. The device report also gives access to the basic device visualisation.

4.6 Load EOX from KBS and Create the DNA XML Database File

Before every new discovery project download the lastest end of life and security CVE data from the KBS.

- Click on the VAI tab
- Select CONFIG TOOLS / UPDATE EOL FILE
- UPDATE CVE FILE (if used for the project).



Note:
The XML DB file is created automatically during the discovery project by default.

Only in the case you update the EOX data AFTER a discovery, you need to create the XML DB file again.

- Select CONFIG TOOLS / XML MANAGEMENT and click on CREATE XML DEVICE FILE FROM DATABASE.

The message CREATING XML DEVICE FILE will appear. If this message doesn't pop up, click on CREATE DEVICE FILE FROM DATABASE again.

The XML data base creation can take several minutes and will be terminated by the message LOADED.

Now refresh your browser.

Click on the LISTS tab / OBJECT TYPES / DEVICE MODELS / VENDORS and check if there are objects including numbers listed. If there is no content you have two choices:

- Re-start the DNA application and check the LISTS tabs again.
- Repeat the XML DB creation process.

Note:
If you want to work with a previous database file and you have loaded the SQL file already, then you need either to IMPORT XML file or CREATE XML FILE again. (Recommendation: update the DNA station with the latest EOL file and create a new XML file).

Note:
The XML database file is a thirteen digit number, e.g. 1269597553306, which needs to be created for every customer database and which is automatically stored to the following folder: *C:\Program Files\NeteXpose\DNA\database\XML.*

5 Cisco CDS Transfer and API Description

5.1 Introduction

The neteXpose DNA CDS API gives Cisco Partners access to the Cisco CDS Backend System to send the DNA raw inventory data of a certain customer network, and to receive processed network device analysis for the purpose of generating a customer inventory profile report (IPR) by which documents the network lifecycle information for presentation to the customer.

5.2 DNA CDS Application Access

The DNA CDS application is accessible by loading the following web site to your browser:
http://xxx.81/CiscoIBLM.dna

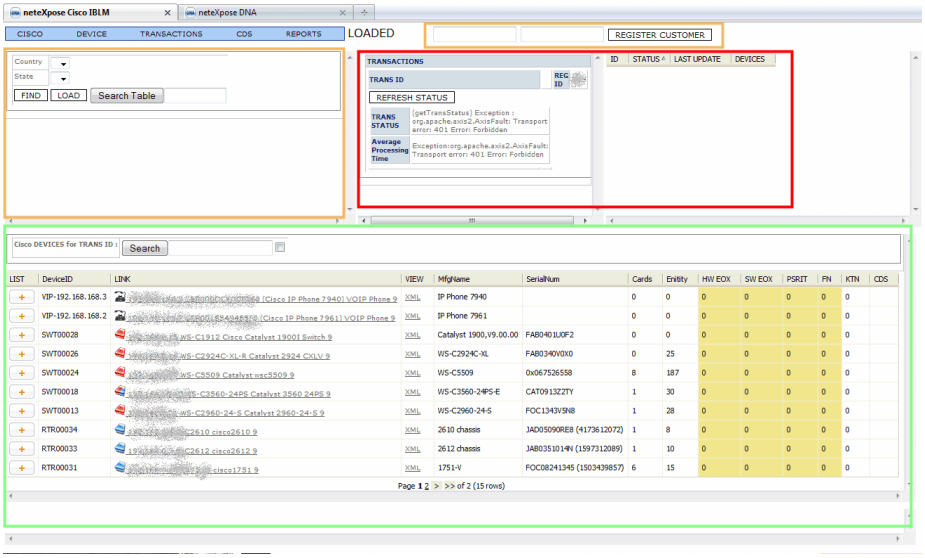
5.3 DNA CDS Folders

There are two folders for DNA CDS information:
The DNA CDS documents and templates you will find in: *neteXpose/DNA/plugins/cisco.*
The DNA CDS transaction data is in the folder: *neteXpose/DNA/database/XML/12xxxx/cisco.*

5.4 DNA CDS User Interface

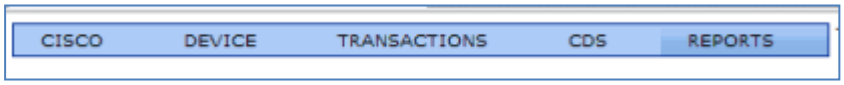
The process of sending a network inventory to Cisco and getting back the lifecycle information services and reports consists of the following stages, which are reflected in the user interface's working areas and tabs:

1. Partner and Customer Registration (CISCO tab; orange area)
2. Device Selection and Device List creation for upload to the Cisco Backend System (DEVICE tab; green area)
3. Transaction Management (TRANSACTION tab; red area)
4. Information Services selection the user wants to receive from Cisco (CDS tab)
5. Cisco CDS Reports creation by neteXpose DNA (REPORTS tab; yellow and green area)



5.5 DNA Cisco Discovery Services (CDS) Tabs

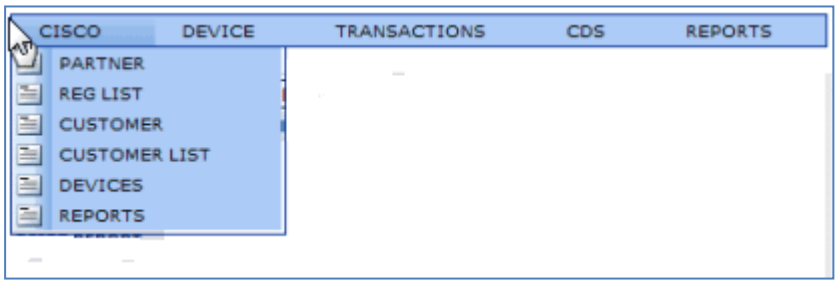
The DNA CDS user interface is based on a set of tabs giving access to the different features of the application.



DNA CDS tabs	DESCRIPTION
CISCO	PARTNER REG LIST CUSTOMER CUSTOMER LIST DEVICES REPORTS
DEVICE	SHOW DEVICE LIST ADD ALL REMOVE ALL CREATE DEVICE LIST
TRANSACTIONS	STATUS LIST SUMMARY OPERATIONS
CDS	ALL CDS INFO HARDWARE EOX SOFTWARE EOX PSIRT FIELD NOTECES (FN) KNOW THE NETWORK (KTN)
REPORTS	IBLM REPORTS HARDWARE EOX SOFTWARE EOX PSIRT FN MIGRATION KTN CDS REPORT

5.6 DNA CDS CISCO Tab

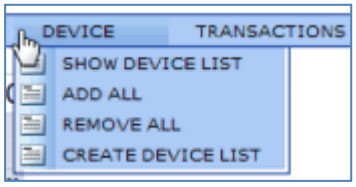
The CISCO tab provides the partner and customer registry and lookup functions. This tab is used to register the partner and customer combination in CDS. Without registering, the user will not be able to create a transaction.



CISCO tab	DESCRIPTION
PARTNER	Enter or upload the Partner registration information, e.g. partner ID, partner name, partner address, site address
REG LIST	Lookup a Partner per country and state Upload that partner's data to the DNA CDS user interface
CUSTOMER	Enter or upload the Customer registration information
CUSTOMER LIST	Lookup a customer per country and state Upload that customer's data to the DNA CDS user interface
DEVICES	Lists the devices of the registered customer or the DNA database
REPORTS	Lists the Cisco CDS Reports for the registered customer

5.7 DNA CDS DEVICE Tab

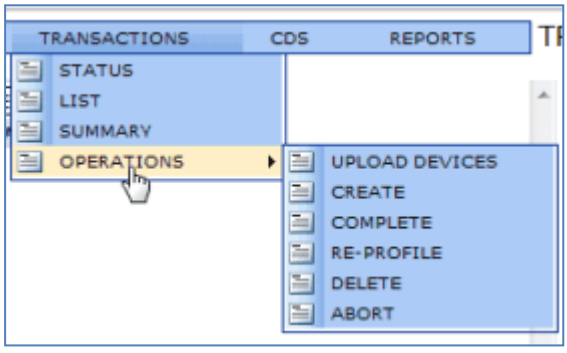
Here the user selects the devices and creates the device list which he wants to send to the Cisco Backend System.



DEVICE tab	DESCRIPTION
SHOW DEVICE LIST	Lists all devices of the loaded DNA database
ADD ALL	Adds all devices to the device list for upload
REMOVE ALL	Removes all devices from the device list
CREATE DEVICE LIST	Creates the final device list to be uploaded to Cisco

5.8 DNA CDS Transactions Tab

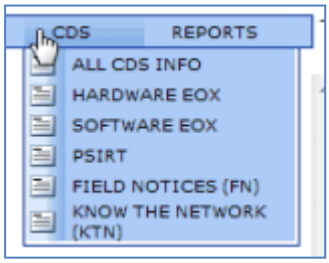
The DNA Transaction tab offers the functionality to handle one invocation of the DNA CDS API end to end service with a given data set. The Cisco Backend System constantly tracks the transaction status and returns status information to the DNA CDS API helping the user to manage and monitor the transaction process.



TRANSACTIONS tab	DESCRIPTION
STATUS	Displays and refreshes the transaction status
LIST	This tab is used to retrieve all the transactions created by the user
SUMMARY	This tab is used to retrieve the transaction details based on the given input parameters. User can retrieve all the transactions created by the user or for a particular customer.
OPERATIONS	Transactions Management functions
UPLOAD DEVICES	Uploads the device list to the Cisco Backend System
CREATE	Creates the transaction ID
COMPLETE	Completes the transaction
RE-PROFILE	This tab is used to reprofile the existing transaction. It refreshes the HWEoX, SWEoX, FN and PSIRT data. KTN contract data will not be refreshed
DELETE	Used to delete the transaction. The transaction status will be changed to "DELETED" and the all the devices uploaded for that transaction will be deleted from the database. Deletion is not allowed when the transaction status is "PROCESS".
ABORT	Enables the DNA user to abort a transaction, regardless of its state (uploading, incomplete, processing) Additionally, the Cisco Backend System can abort a transaction, e.g. when servers are restarted or services are interrupted, and send a message to the DNA user that the transaction has been aborted

5.9 DNA CDS Tab

Here the user selects the information he requests from Cisco by simply clicking on the information's name.

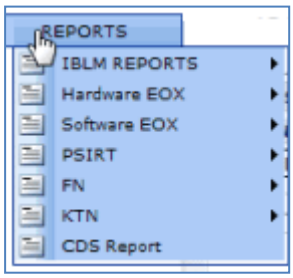


There are three types of downloads the user can request from the Cisco CDS Backend System: all CDS info (CDS and KTN), one single information only, and KTN only.

CDS tab	DESCRIPTION
All CDS Info	Requests CDS and KTN data
Hardware EOX	Hardware EOX data only
Software EOX	Software EOX data only
PSIRT	PSIRT only
Field Notices (FN)	Field Notices only
Know the Network (KTN)	Data is submitted only to the KTN system for service contract reporting and is not sent to the CDS profiler. This is for users who only require a KTN ANSR report

5.10 DNA CDS REPORTS Tab

Dependent on the CDS information the user has selected in the CDS menu, the REPORTS tab will create the neteXpose DNA Reports and the Microsoft Office Excel Reports after successful completion of the transfer.



The following CDS reports can be created by the DNA application when the user clicks on the related report name of the REPORTS tab.

REPORTS tab	Cisco Reporting Services Description
IBLM REPORTS	Installed Base Lifecycle Management Reports
IBLM Details Report	6 Reports in one Microsoft Office Excel File: CDS, HW EOX Details, SW EOX Details, PSIRT Details, FN Details, KTN Contracts Details
IBLM Summary Report	6 Reports in one Microsoft Office Excel File: HW EOX Summary, SW EOX Summary, OS Train Summary, IOS Train and Version Summary, PSIRT Summary, KNT Summary
360° Summary Report	Summary and Details reports (EOX, PSIRTs, FNs, KTN) in one Microsoft Office Excel sheet including: Cisco Transformative Networking 360° Services Health Check Summary table, table descriptions in English, charts. This report is similar to the "360° Services Health Check Recommendation and Proposal Template" for Cisco
Components Report	Lists all components by model type, model description, URL, totals, URL, EOX dates
Reference Tables (FN and PSIRT)	FNID, Caveat, Distribution Code, FieldNoticeTypeCode, FieldNoticeURL, IsSerialNumberAvailableCode, PublishUserId, Status, getFirstPublishDate, LastRevisionDate
HARDWARE EOX REPORTS	End of Engineering/End of Sale/End of Life (also known as LDoS, Last Day of Support) or other product lifecycle milestones for Cisco HW. EoX is the collective term used for all lifecycle notification bulletins
Detailed Report	IP address, Model, Serial, EOXID, Bulletin URL, End of SW Maintenance, Last Day of Support, EOL Announcement, EOSales, EOSWM
Summary By Product	Product ID, Total, EOL Announcement, End of Sales, End of SW Maintenance, Last Day of Support
Summary By Product Family	Product ID, Total, EOL Announcement, End of Sales, End of SW Maintenance, Last Day of Support
SOFTWARE EOX REPORT	End of Engineering/End of Sale/End of Life (also known as LDoS, Last Day of Support) or other product lifecycle milestones for Cisco Software. EoX is the collective term used for all lifecycle notification bulletins
Software EOX Details	IP address, Model, Serial, IOS Version, EOXID, Bulletin URL, End of SW Maintenance, End of Sale, Last Day of Support
Summary Version	Type, Software, Total, End of SW Maintenance, End of Sales, Last Day of Support
Summary Software Train	Type, Train, Total, End of SW Maintenance, End of Sale, Last Day of Support
Summary Software Train & Version	Type, Train, Software, Total, End of SW Maintenance, End of Sale, Last Day of Support
Summary Train & Hardware	Type, Train, Hardware, Total, End of SW Maintenance, End of Sale, Last Day of Support

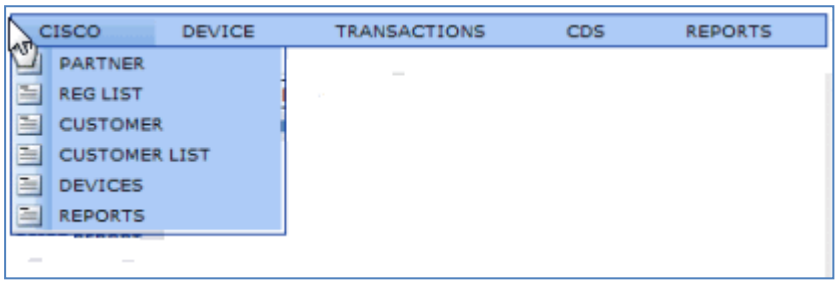
PSIRT	Cisco Product Security Incident Response Team bulletin to alert customers of security vulnerabilities found in products
PSIRT Details	IP address, Model, Serial, PSIRT LDZ
PSIRT Summary	Type, Train, Total, PSIRT Notices
FN	FN (Field Notice): Public notices sent out to Cisco partners, resellers and customers to advise of important product news, performance issues and fixes, or updates
Field Notices (FN) Details	IP address, Model, Serial number, FNs
FN Summary	Product ID, Total, FNs
KTN	Know The Network (KTN) Reporting Services. The KTN Reports contain uncovered items, LDoS items, contract status and site information
KTN Contract Details	IP address, Model, Serial, Contract ID, Status, Level, Start, End, KTN URL
KTN Contract Summary	Contract ID, Devices, Status, Level, Start, End, KTN URL
CDS Report	Cisco Discovery Services report: The combined services of the client application and the CDS backend to provide customer network inventory analysis
CDS Details	Contains all data received from Cisco, e.g. IP address, CaveatText, ContractNum, ContractStatusDesc, FreeFlashAmt, FreeMemoryAmt, FreePortCnt, Frulnd, HWVersionNumber, InstalledFlashAmt, InstalledMemoryAmt, InstalledNvramAmt, MfgName, ParentPhysicalElementID, PartNum, PartPcbRversionNumber, PartTanNumber, PartTanRevisionNumber,PhysicalElementName, PhysicalElementStatusCD, ProcessorBoardID, ProductFamilyName, ProductTypeName, RedundantModeCard, SerialNumberConfidentalLevel, SerialNum, ServiceLevelDesc, ShelfNumber, SlotNumber, SNMPName, SNMPObjectID, TotalPortCnt, TotalSlotCnt, UsedFlashAmt, UsedMemoryAmt, UsedNvramAmt, CovEndDate, CovStartDate, ManagedChassis, MfgDate, Module, ProductID, Product Name, ShipDate, Software, SWType

6 CDS Standard Process Stages to Go Through

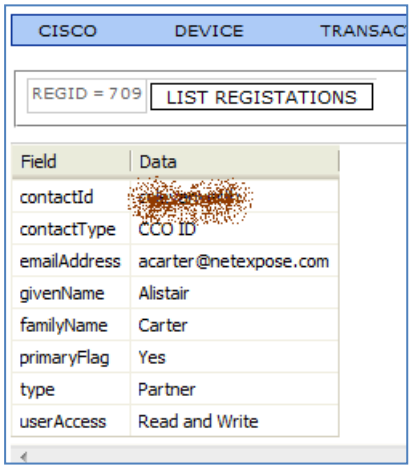
The standard CDS process consists of the following stages:

Step 1: Register as a Cisco Partner

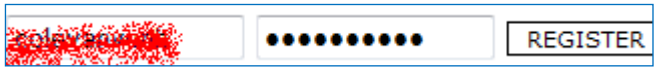
Go to the CISCO tab and select PARTNER.



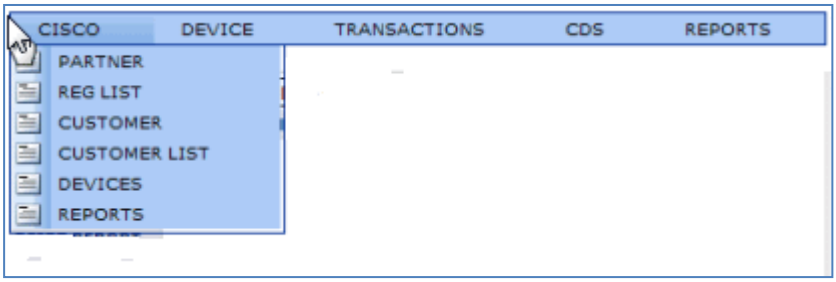
Your data will automatically be displayed in the field below the menu bar (see below).



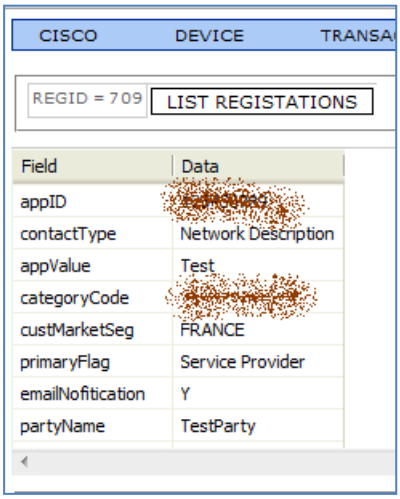
Type your customer ID and password in the credentials fields right hand of the menu bar, and click on REGISTER.



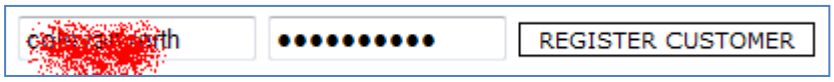
Step 2: Register a Customer



Go to the CISCO tab and select CUSTOMER.
The customer data will automatically be displayed in the field below the menu bar.

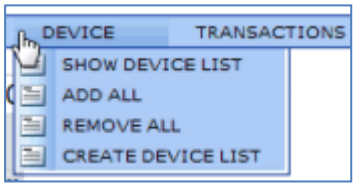


Add the customer credentials to the credentials fields and click on REGISTER CUSTOMER.

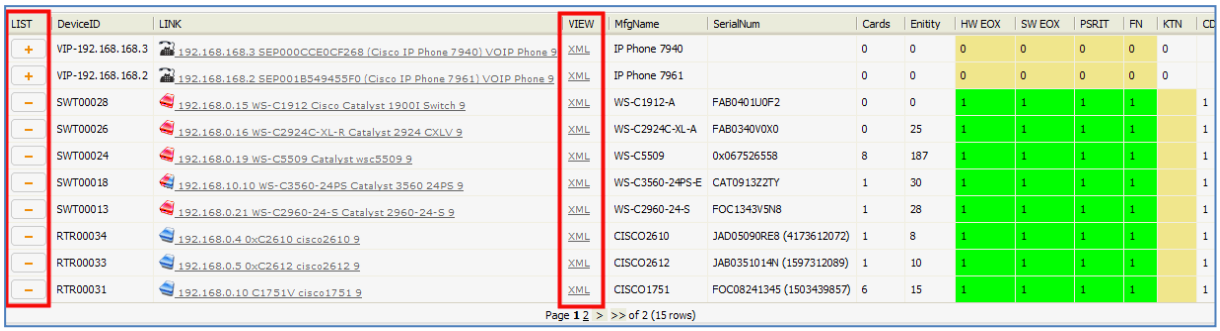


Step 3: Create your device list

Go to the DEVICE tab and click on SHOW DEVICE LIST.



This will list all devices of the DNA database.



LIST	DeviceID	LINK	VIEW	MfgName	SerialNum	Cards	Enitity	HW EOX	SW EOX	PSRIT	FN	KTN	CD
+	VIP-192.168.168.3	192.168.168.3 SEP000CCE0CF268 (Cisco IP Phone 7940) VOIP Phone 9	XML	IP Phone 7940		0	0	0	0	0	0	0	
+	VIP-192.168.168.2	192.168.168.2 SEP001B549455F0 (Cisco IP Phone 7961) VOIP Phone 9	XML	IP Phone 7961		0	0	0	0	0	0	0	
−	SWT00028	192.168.0.15 WS-C1912 Cisco Catalyst 1900I Switch 9	XML	WS-C1912-A	FAB0401U0F2	0	0	1	1	1	1		1
−	SWT00026	192.168.0.16 WS-C2924C-XL-R Catalyst 2924 CXLV 9	XML	WS-C2924C-XL-A	FAB0340V0X0	0	25	1	1	1	1		1
−	SWT00024	192.168.0.19 WS-C5509 Catalyst wsc5509 9	XML	WS-C5509	0x067526558	8	187	1	1	1	1		1
−	SWT00018	192.168.10.10 WS-C3560-24PS Catalyst 3560 24PS 9	XML	WS-C3560-24PS-E	CAT0913Z2TY	1	30	1	1	1	1		1
−	SWT00013	192.168.0.21 WS-C2960-24-S Catalyst 2960-24-S 9	XML	WS-C2960-24-S	FOC1343V5N8	1	28	1	1	1	1		1
−	RTR00034	192.168.0.4 0xC2610 cisco2610 9	XML	CISCO2610	JAD05090RE8 (4173612072)	1	8	1	1	1	1		1
−	RTR00033	192.168.0.5 0xC2612 cisco2612 9	XML	CISCO2612	JAB0351014N (1597312089)	1	10	1	1	1	1		1
−	RTR00031	192.168.0.10 C1751V cisco1751 9	XML	CISCO1751	FOC08241345 (1503439857)	6	15	1	1	1	1		1

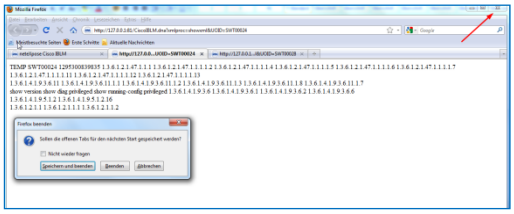
Page 1 2 > >> of 2 (15 rows)

The devices indicated with PLUS in the LIST column will be uploaded.

If you want to upload all devices of that list, go to the DEVICE tab and click on ADD ALL.

If you want to upload only a device selection you need to remove those devices from the list you don't want to upload by clicking on the PLUS button in each device's line. This will change the PLUS to MINUS. The devices marked with MINUS will not be uploaded.

For customer and partner transparency for what is sent to Cisco, the DNA CDS interface provides the VIEW column. Click on XML in the VIEW column will open the XML data of the related device. The user can delete data he doesn't want to send.

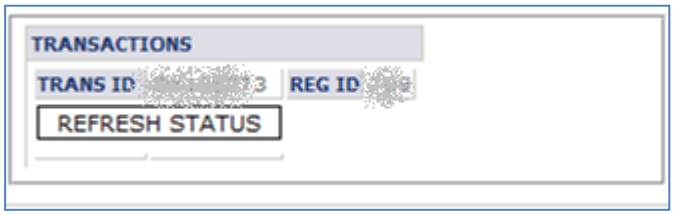


After you have finished, close the browser. This will open the menu to SAVE the changes in the XML file.

Now go to the DEVICE tab, click on CREATE DEVICE LIST, and then OK.

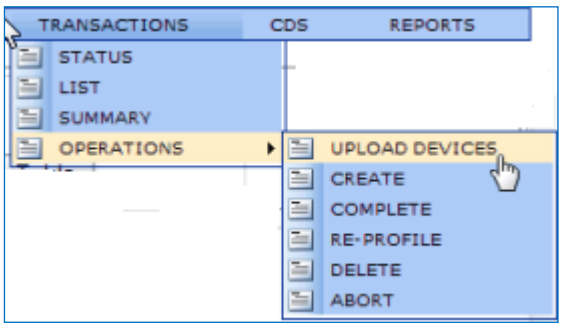
Step 4: Create your Transaction ID

Go to the TRANSACTIONS / OPERATIONS menu and click CREATE to get a unique ID for this transaction. The ID will be indicated in the TRANSACTIONS area.



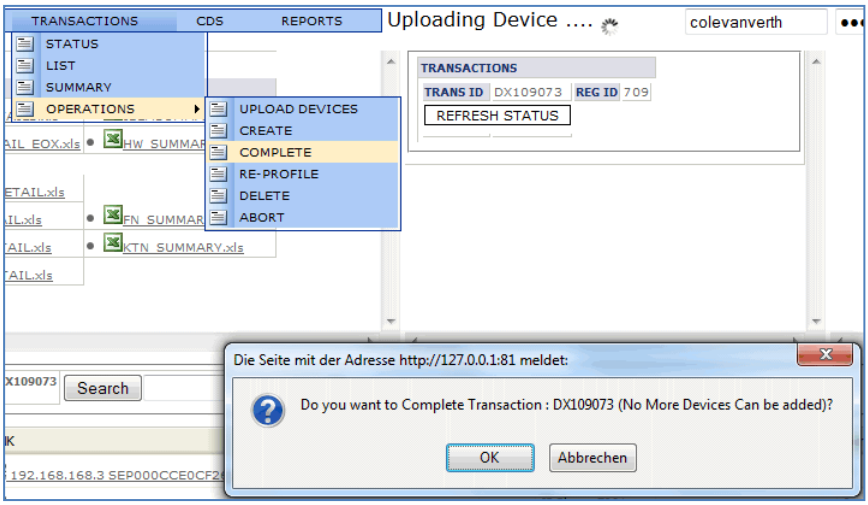
Step 5: Upload your device list to the Cisco Backend System and complete the transaction

To upload the device list, go to the TRANSACTIONS / OPERATIONS tab, and select UPLOAD DEVICES, then click OK. The upload may take several minutes. The successful upload will be indicated by the message ALL DEVICES PROCESSED.



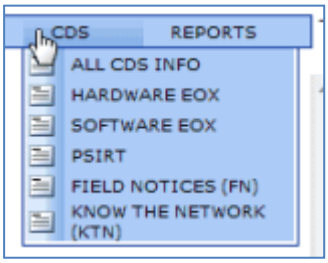
At the end of the upload, the user has to call the COMPLETE tab to mark the transaction complete.

You can complete a transaction any time, e.g. after receiving the message, that the device list has been uploaded successfully, or during the upload. In the latter case, the device list will be uploaded only partially.



Step 6: Select the information you want to receive from Cisco

Go to the CDS tab, and click on every information you want to receive for the given transaction ID. Or just click ALL CDS to get all of the data.



Step 7: Transaction Status Monitoring / CDS Data Reception

The selected CDS services information will be sent back to the DNA database. Dependent on the data base size this can take several hours. Click on the REFRESH STATUS button in the TRANSACTION section to control the transaction status.

As long as the transaction is running the status will be indicated as PROCESSING IN PROGRESS. And the estimated time of completion will be displayed.

The reception of the CDS data will be indicated by the message PROCESSING COMPLETE.

Step 8: Create your DNA CDS Reports

After the Cisco CDS Backend System has sent the CDS information back to DNA, you can create the reports you have requested by clicking on the related reports of the REPORTS tab.

Step 9: After Transaction and DNA CDS Reports Creation

Possible actions after finishing the whole process are:

TRANSACTIONS / SUMMARY menu:
This tab is used to retrieve the transaction details based on the given input parameters. User can retrieve all the transactions created by the user or for a particular customer.

TRANSACTIONS / OPERATIONS menu DELETE:
This tab is used to delete the transaction. The transaction status will be changed to DELETED and all the devices uploaded for that transaction will be deleted from the database. Deletion is not allowed when the transaction status is PROCESS.

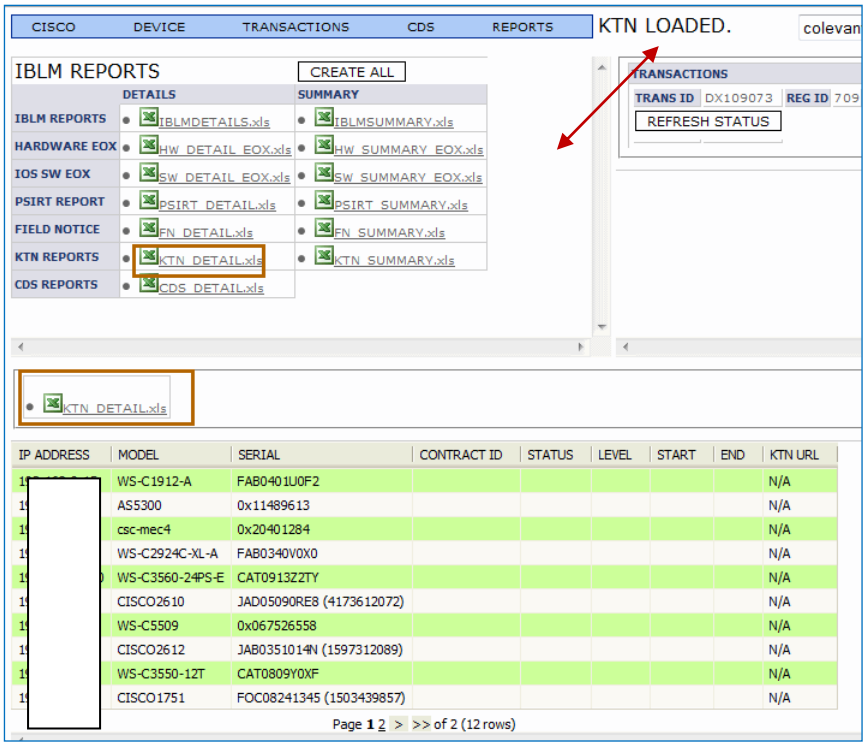
TRANSACTIONS / OPERATIONS menu ABORT:
This tab is used to abort a transaction. A transaction can be aborted either by the user or admin regardless of the status of the transaction (uploading, processing).

TRANSACTIONS / OPERATIONS menu RE-PROFILE:
This API is used to reprofile the existing transaction. It refreshes the HWEoX, SWEoX, FN and PSIRT data. KTN contract data will not be refreshed. A transaction which is already deleted or aborted cannot be re-profiled.

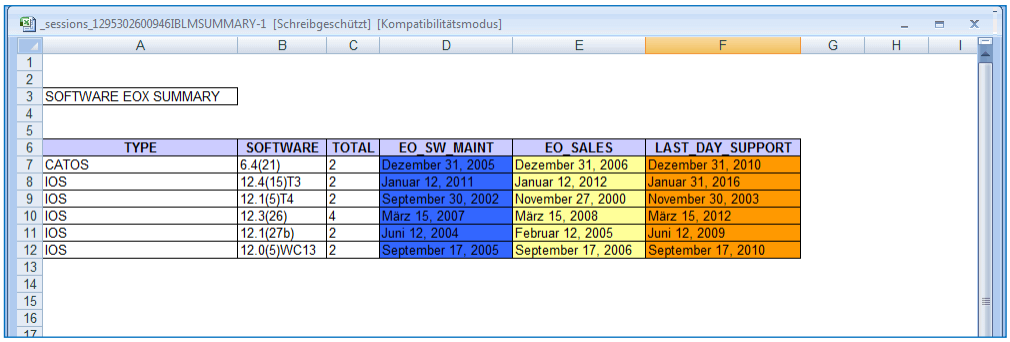
7 DNA CDS Reports Presentation and Formats

Every report created successfully will be indicated right hand of the menu bar with “XY LOADED”, and the Microsoft Office Excel file will be listed below. If a report is not listed automatically, please refresh your browser.

Click on the report name will open that report in the DNA CDS application (see below). Click on the green MS Excel icon at the beginning of every report name will open the “SAVE AS” / “OPEN” box to open or save the DNA report in Microsoft Office Excel format.

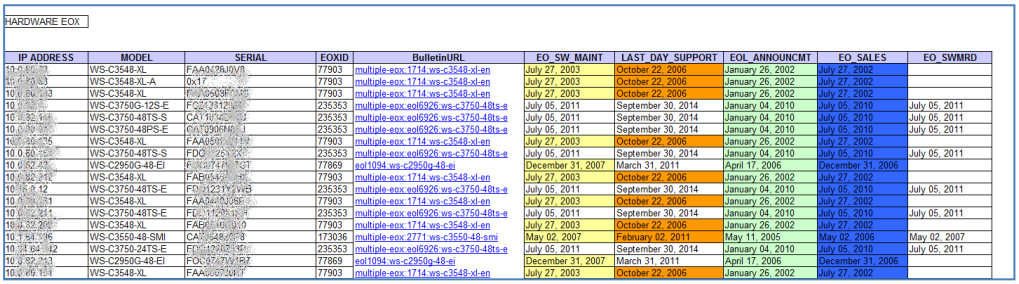


The following photos display different DNA CDS reports (MS Excel and Word).



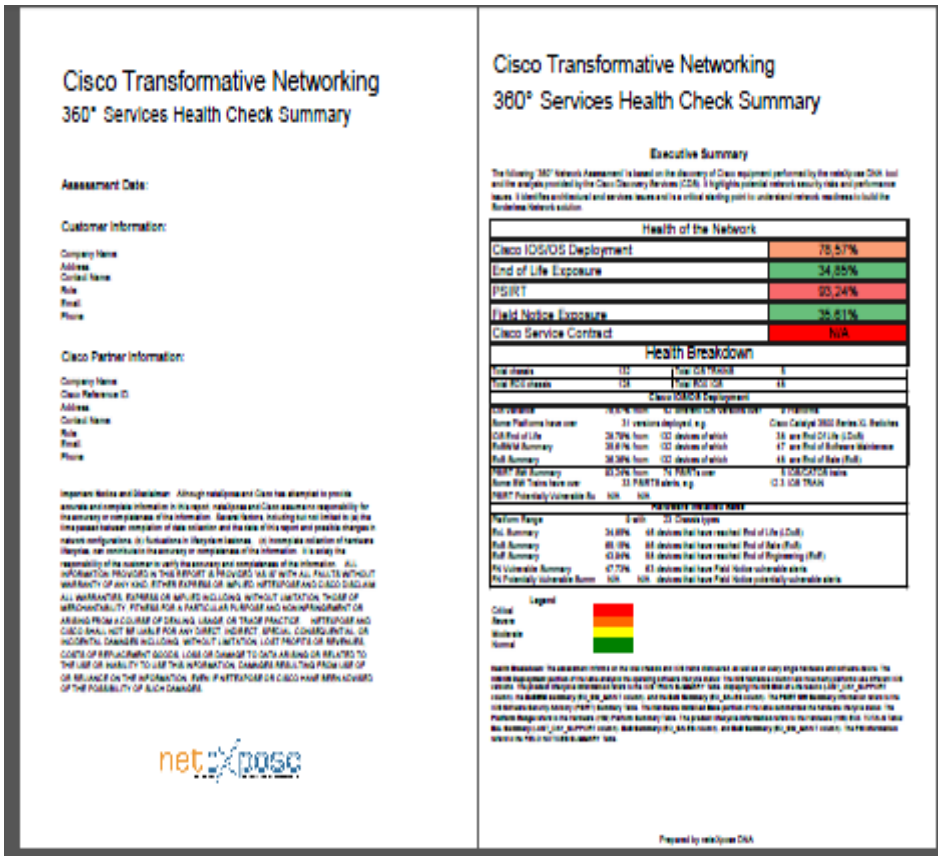
SOFTWARE EOX SUMMARY

TYPE	SOFTWARE	TOTAL	EO_SW_MAINT	EO_SALES	LAST_DAY_SUPPORT
CATOS	6.4(21)	2	Dezember 31, 2005	Dezember 31, 2006	Dezember 31, 2010
IOS	12.4(15)T3	2	Januar 12, 2011	Januar 12, 2012	Januar 31, 2016
IOS	12.1(5)T4	2	September 30, 2002	November 27, 2000	November 30, 2003
IOS	12.3(26)	4	März 15, 2007	März 15, 2008	März 15, 2012
IOS	12.1(27b)	2	Juni 12, 2004	Februar 12, 2005	Juni 12, 2009
IOS	12.0(5)WC13	2	September 17, 2005	September 17, 2006	September 17, 2010



HARDWARE EOX

IP ADDRESS	MODEL	SERIAL	EOXID	BulletinURL	EO_SW_MAINT	LAST_DAY_SUPPORT	EOL_ANNOUNCMT	EO_SALES	EO_SWMRD
	WS-C3548-XL		77903	multiple-eox:1714:ws-c3548-xl-en	July 27, 2003	October 22, 2006	January 26, 2002	July 27, 2002	
	WS-C3548-XL-A		77903	multiple-eox:1714:ws-c3548-xl-en	July 27, 2003	October 22, 2006	January 26, 2002	July 27, 2002	
	WS-C3548-XL		77903	multiple-eox:1714:ws-c3548-xl-en	July 27, 2003	October 22, 2006	January 26, 2002	July 27, 2002	
	WS-C3750G-12S-E		235353	multiple-eox:eol6926:ws-c3750-48ts-e	July 05, 2011	September 30, 2014	January 04, 2010	July 05, 2010	July 05, 2011
	WS-C3750-48TS-S		235353	multiple-eox:eol6926:ws-c3750-48ts-e	July 05, 2011	September 30, 2014	January 04, 2010	July 05, 2010	July 05, 2011
	WS-C3750-48PS-E		235353	multiple-eox:eol6926:ws-c3750-48ts-e	July 05, 2011	September 30, 2014	January 04, 2010	July 05, 2010	July 05, 2011
	WS-C3548-XL		77903	multiple-eox:1714:ws-c3548-xl-en	July 27, 2003	October 22, 2006	January 26, 2002	July 27, 2002	
	WS-C3750-48TS-S		235353	multiple-eox:eol6926:ws-c3750-48ts-e	July 05, 2011	September 30, 2014	January 04, 2010	July 05, 2010	July 05, 2011
	WS-C2950G-48-EI		77869	eol1094:ws-c2950g-48-ei	December 31, 2007	March 31, 2011	April 17, 2006	December 31, 2006	
	WS-C3548-XL		77903	multiple-eox:1714:ws-c3548-xl-en	July 27, 2003	October 22, 2006	January 26, 2002	July 27, 2002	
	WS-C3750-48TS-E		235353	multiple-eox:eol6926:ws-c3750-48ts-e	July 05, 2011	September 30, 2014	January 04, 2010	July 05, 2010	July 05, 2011
	WS-C3548-XL		77903	multiple-eox:1714:ws-c3548-xl-en	July 27, 2003	October 22, 2006	January 26, 2002	July 27, 2002	
	WS-C3750-48TS-E		235353	multiple-eox:eol6926:ws-c3750-48ts-e	July 05, 2011	September 30, 2014	January 04, 2010	July 05, 2010	July 05, 2011
	WS-C3548-XL		77903	multiple-eox:1714:ws-c3548-xl-en	July 27, 2003	October 22, 2006	January 26, 2002	July 27, 2002	
	WS-C3550-48-SMI		173036	multiple-eox:2771:ws-c3550-48-smi	May 02, 2007	February 02, 2011	May 11, 2005	May 02, 2006	May 02, 2007
	WS-C3750-24TS-E		235353	multiple-eox:eol6926:ws-c3750-48ts-e	July 05, 2011	September 30, 2014	January 04, 2010	July 05, 2010	July 05, 2011
	WS-C2950G-48-EI		77869	eol1094:ws-c2950g-48-ei	December 31, 2007	March 31, 2011	April 17, 2006	December 31, 2006	
	WS-C3548-XL		77903	multiple-eox:1714:ws-c3548-xl-en	July 27, 2003	October 22, 2006	January 26, 2002	July 27, 2002	



Cisco Transformative Networking

360° Services Health Check Summary

Assessment Date:

Customer Information:

Company Name
Address
Contact Name
Role
Email
Phone

Cisco Partner Information:

Company Name
Cisco Reference ID
Address
Contact Name
Role
Email
Phone

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netaXpose

Cisco Transformative Networking

360° Services Health Check Summary

Executive Summary

The following '360° Network Assessment' is based on the discovery of Cisco equipment performed by the netaXpose DNA tool and the analysis provided by the Cisco Discovery Services (CDS). It highlights potential network security risks and performance issues. It identifies architectural and services issues and is a critical starting point to understand network readiness to build the Borderless Network solution.

Health of the Network	
Cisco IOS/IOS Deployment	78,57%
End of Life Exposure	34,85%
PSIRT	93,24%
Field Notice Exposure	35,61%
Cisco Service Contract	N/A

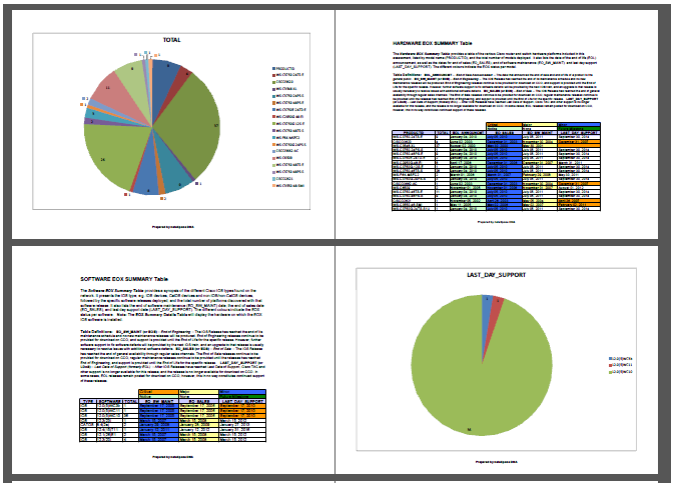
Health Breakdown

Total chassis	132	Total IOS XR(64)	0
Total IOS chassis	134	Total IOS XE	66
Cisco IOS/IOS-X Deployment			
IOS Variance	78,57% from	42 devices not following IOS standard	9 Platforms
Some Platforms have over	31 versions deployed, e.g.		Cisco Catalyst 3560 Series IG, Switches
EoS End of Life	34,79% from	132 devices of which	36 are End Of Life (LDoS)
EoS End of Life Summary	34,85% from	132 devices of which	47 are End of Software Maintenance
EoS Summary	34,39% from	132 devices of which	46 are End of Sale (EoS)
PSIRT Risk Summary	93,24% from	74 PSIRTs exist	5 CRITICAL alerts
Some IOS Trains have over	33 TRAINS alerts, e.g.		13 IOS TRAIN
PSIRT Potentially Vulnerable Ba	N/A	N/A	
Hardware Inventory Table			
Platform Range	0 with	20 Chassis types	
EoL Summary	34,85%	46 devices that have reached: End of Life (LDoS)	
EoS Summary	46,19%	61 devices that have reached: End of Sale (EoS)	
EoE Summary	43,94%	58 devices that have reached: End of Engineering (EoE)	
PN Vulnerable Summary	47,73%	63 devices that have Field Notice vulnerable alerts	
PN Potentially Vulnerable Summ	N/A	N/A	devices that have Field Notice potentially vulnerable alerts

Legend

Critical
Severe
Moderate
Normal

Prepared by netaXpose DNA

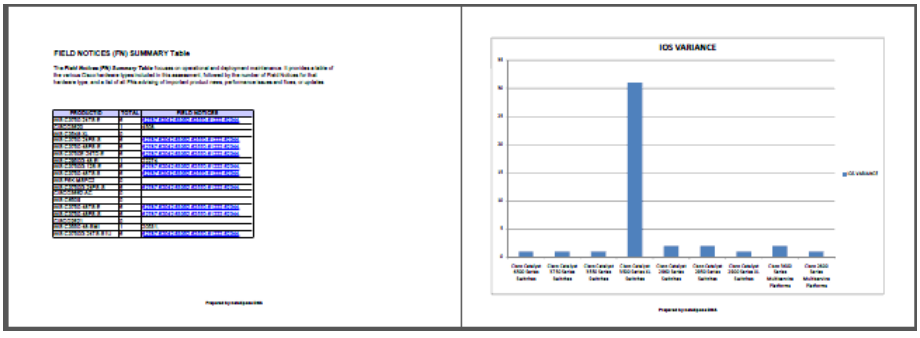


TOTAL

HARDWARE EOX SUMMARY Table

SOFTWARE EOX SUMMARY Table

LAST_DAY_SUPPORT



FIELD NOTICES (FN) SUMMARY Table

IOS VARIANCE

8 DNA Knowledge Base Server (KBS) and VAI Description

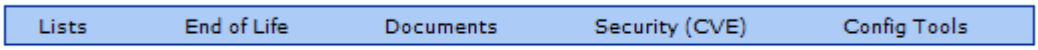
8.1 Introduction

The DNA value-add information (VAI) Applications correlate the DNA network discovery data with data of different external sources supplied by the KBS.

Extensible Markup Language (XML) is used to share value-add information between the DNA PC and KBS, other PCs or web sites, to correlate the data, and to present the correlation results.

The VAI application menu is accessible by clicking on the VAI button in the DNA main application.

8.2 VAI Tabs



The VAI tabs give access to the following reports and information:

Tab	Features
Lists	Lists the assets of the selected DNA XML database, sorted by: Object Types, Device Models and Manufacturer
End of Life	Lists the assets of the selected DNA XML database, including related EoL information, sorted by: All, Cisco, Nortel **All:** Lists the assets sorted by: All devices, by models, and by hardware type **Cisco:** Lists the Cisco hardware and software sorted by: Device Summary List, Device Detailed List, Models, Hardware Type, CDP Hardware Type, Components, IOS Summary, IOS Detailed Summary, IBLM Report **Nortel:** Lists the Nortel hardware and software sorted by: Device Summary List, Device Detailed List, Models, Hardware Type, Components, OS Summary, OS Detailed Summary **Other network vendors:** Similar reports as far as the vendor supplies lifecycle information, and the data is stored to the DNA KBS To get information how to produce EOX reports on other network device manufacturers refer to the DNA VAI Manual and the DNA TTT Manual
Documents	Lists all templates stored as HTML files to the *roots folder* to document the inventory
Security	Offers Common Vulnerabilities and Exposures (CVE) information for certain manufacturers
Config Tools	Tab to update an EoL or CVE file, and to create and import a XML device file

8.3 VAI Reports Creation and Documentation

To produce EOX reports, simply click on the report name of the VAI END OF LIFE tab.

Two documentation methods are supported:

- Report Export to Microsoft Office Excel by clicking on the Excel icon.
- Word template accessible from the DOCUMENTS tab.

Use the DNA MS Word Templates

To produce a html file and a text file from a DNA Word Template:

- Click on the template name when you use Mozilla Firefox as browser.
- Right click on the template name and click OPEN, when working with Microsoft Office Explorer.

The html file will automatically be created, including tables and diagrams.

Save this html file as Word document:

- When using **Microsoft Explorer:** Go to the FILE menu and select EDIT WITH MICROSOFT WORD. Save as WORD DOCUMENT or as WORD 97 2003 DOCUMENT. Click on VIEW and PRINT LAYOUT to format, add or change the text.

- When using **Firefox** or **Google Chrome**: Save as WEB SITE COMPLETE to the folder DOWNÖLOADS, then save as WORD DOCUMENT or as WORD 97 2003 DOCUMENT. No you can format, add or change the text using the Microsoft Office Word features.

Use your own Microsoft Office Word Templates

It is very easy to integrate your own MS Word documents to the DOCUMENTS tab of the DNA Application. All you need to do:

- Open a MS Word file, type in your own text or copy selected text modules of the DNA TTT Manual.
- Put the tag on that place of the text, you want to see the DNA VAI table or table/diagram.
- Save the Microsoft Word file as WEB SITE FILTERED to the DNA folder *C:\Program\NeteXpose\DNA\root*.
- Refresh your browser or re-start the DNA application. Your template name will appear in the DOCUMENTS tab.
- To produce the document, proceed as described above.

The table below lists the Cisco tags.

Note:

For a complete understanding on the DNA VAI Application and how to work with tags, please refer to the following manuals:

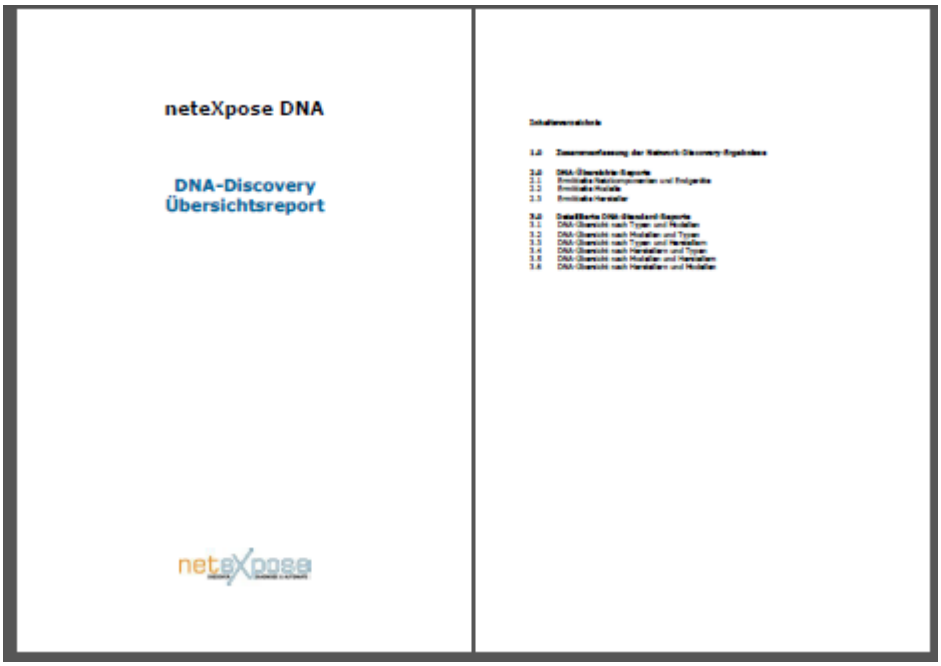
- DNA VAI Manual (VAI Features and Functions)
- DNA TTT Manual (Tags, Templates, Tables)

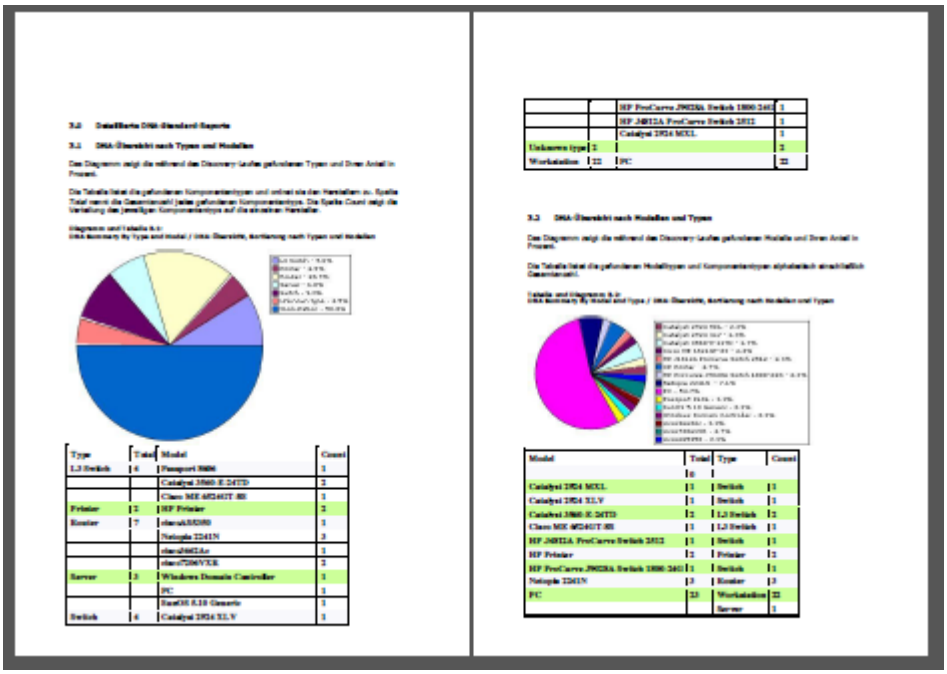
The following folders are related to the VAI Application:

- XML data base: *C:\Program Files\NeteXpose\DNA\database\XML*
- XML Reports such as EoL and CVE: *C:\Program\NeteXpose\DNA\root\xls*
- XML and CVE reports edited and stored by the user: *C:\Program Files\NeteXpose\DNA\EOL*
- HTML files, created using the documentation tool: *C:\Program Files\ NeteXpose\DNA\root*
- DNA Map files: *C:\Program Files\NeteXpose\DNA\database/XML/12340xxx /maps/mymaps*
- DNA Map Files: *C:\Program Files\NeteXpose\DNA\root/maps*

CISCO TAGS				
Cisco Reports	Tag	No.	Tag Report Title	Corresponds to DNA / Application Menu / Report
Lists IOS software, including number and diagram (%)	DNACISCOIOSSUMMARY	i1	Cisco IOS Summary	—
Lists IOS hardware, including number	DNACISCOIOSHWSUMMARY	i2	Cisco IOS Summary and Devices	—
Cisco IBLM / EoX Reports	Tag	No.	Tag Report Title	Corresponds to DNA / Application Menu / Report
Lists all Cisco chassis (one chassis per line), including detailed information, e.g. IP address, name, type, etc., and lifecycle information	DNACISCODEVICESUMMARYLIST	j1	Cisco EOL Summary List	DNA VAI / EOL-Menu Device Summary List / CISCO EOL Device Summary List
Lists all Cisco hardware (chassis, and modules), including detailed information, e.g. IP address, type, model, etc., and lifecycle information	DNACISCODEVICELIST	j2	Cisco EOL Detailed List	DNA VAI / EOL-Menu Device Detailed List / CISCO EOL Detailed List
Lists all Cisco hardware, sorted by models, including EoX dates	DNACISCOMODELSUMMARYEOL	j3	Cisco EOL By Model	DNA VAI / EOL-Menu Models / CISCO EOL by Models
Lists all Cisco chassis, sorted by types, including EoX dates	DNACISCOHWSUMMARYEOL	j4	1 CISCO EOL By Hardware Type	DNA VAI / EOL-Menu Hardware Type / CISCO EOL by Hardware Type
Cisco CDP List: Cisco CDP-discovered chassis, including name, type, and EoX dates	DNAEOLCDPBYHWTYPE	j5	CDP Hardware Type	DNA VAI / EOL-Menu CDP Hardware Type / CISCO CDP EOL by Hardware Type
All Cisco components, e.g. cards, modules, including EoX dates	DNA CISCOMODULELIST	j6	Cisco EOL by Components	DNA VAI / EOL-Menu Components / CISCO EOL by Components
Lists all IOS versions, including number and EoX dates	DNACISCOIOSEOLSUMMARY	j7	Cisco IOS EOL Summary	DNA VAI / EOL-Menu IOS Summary / CISCO IOS EOL Summary
Lists IOS, and HW versions, including EoX dates	DNACISCOIOSEOLHWSUMMARY	j8	Cisco IOS EOL Detailed Summary	DNA VAI / EOL-Menu IOS Detailed Summary / CISCO IOS EOL Detailed Summary
IBLM report for Cisco IBLM Practice Program Lists Cisco device, by hardware type, including lifecycle information, and replacement products	DNAEOLIBLM	j9	Cisco IBLM Report	DNA VAI / EOL-Menu IBLM Report / Cisco IBLM Report
Lists IOS releases, including Common Vulnerabilities and Exposures (CVE)	DNACISCOIOSCVESUMMARY	j10	Cisco IOS CVE Summary	DNA VAI / CVE-Menu IOS CVE / CISCO IOS CVE Summary

DNA VAI MS Word Document Example





9 Known Bug List

The table below describes the known bugs we are working on.

Bug Description	Solution
360° Report / Charts Not all charts are produced properly.	Dependent on the number of DNA database objects the table columns can be different in length. The MS Excel table columns need to be automatically adapted to the variable lengths of the DNA report table columns. As long as this feature is not implemented, the charts need to be overworked by the user manually.
360° Report / Error Message is displayed after report creation	Users working with Microsoft Office Excel 2007 and 2010 will receive the following error message "*File error: data may have been lost*". This message can be ignored. It pops up because neteXpose DNA calculates the table values/scores using Microsoft Office Excel 2003.
360° Report / Cisco Transformative Networking 360° Services Health Check Summary page Score Field Colors in the paragraph "Health of the Network" do not always match the legend colors	Users working with Microsoft Office Excel 2007 and 2010 need to adapt the colors manually in the following MS Excel menu: *Home / Conditional Formatting / Color Scales* We are working on an automated solution.
PSIRT Details Report **FN Details Report** Hyperlinks are not working	Work in progress.

10 Literature

The following neteXpose DNA Manuals are available on the neteXpose Partner web site. Users without Partner Web access can order a PDF file by emailing: mailto:sales@netexpose.com.

Manual	Content
DNA Manual (Versions 3.4, 3.5, 3.6)	Features and Usage of DNA Discovery Engine and DNA Asset Reporting Tool, e.g. discovery setup, data base management, pre-defined DNA asset reports, SQL query reports
DNA VAI Manual	Describes the DNA Value-add Information (VAI) application and the neteXpose Knowledge Base Server (KBS), e.g. VAI reports creation, XML database management, documentation (Microsoft Office Word and Microsoft Office Excel)
DNA TTT Manual	How to use and create tags, templates and tables to document the discovery results using customer-specific documents and designs
DNA Visualisation Manual	How to use the DNA pre-defined network maps How to create user-defined network maps How to create EOX network maps and other network maps using the DNA filter feature

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DNA Discovery CDS User Guide

Version 25.02.2011_E

DNA IDDN : FR.001.180004.000.S.P.2006.000.10800