

An abstract graphic featuring three blue circles of varying sizes (large, medium, and small) arranged diagonally from the top right towards the bottom left. Two thin, light blue diagonal lines intersect the circles, creating a sense of depth and movement. The circles are composed of concentric layers of different shades of blue, giving them a 3D, sphere-like appearance.

# **Network Asset Manager**

User manual for release v1.0.6

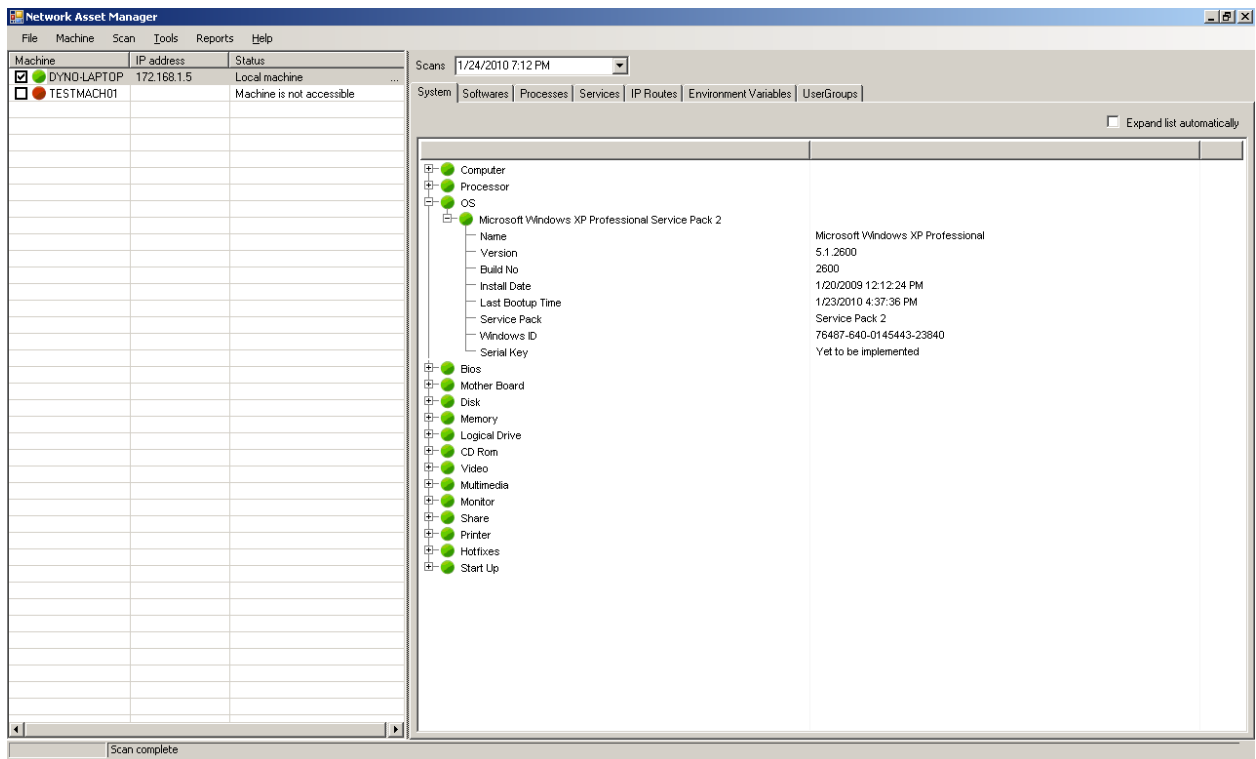
Initial draft of NAM user manual.



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## Main user interface

The main window of Network asset manager uses a split view. On the left side of the main window all the machines that are discovered and marked for asset tracking are listed. The details like IP address, last connection status and last connection status message.



-  Computer cannot be monitored.
-  Computer is on-line and ready for monitoring.

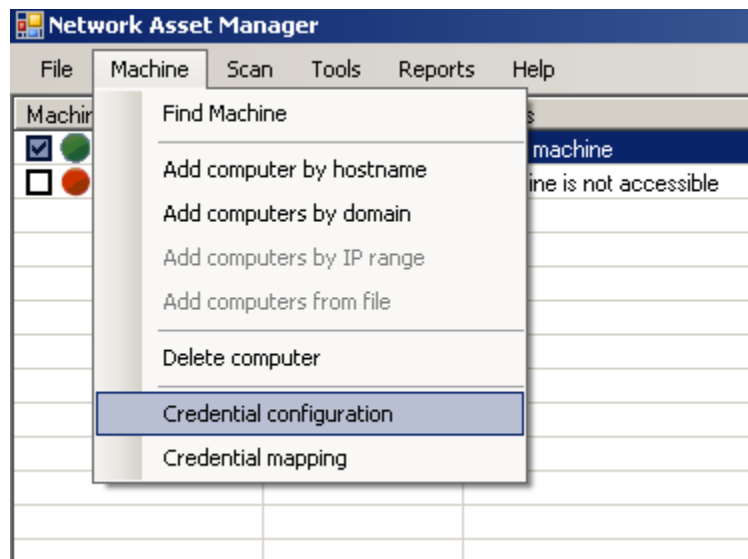
## Getting Started

### *Credentials*

#### Specify Credentials

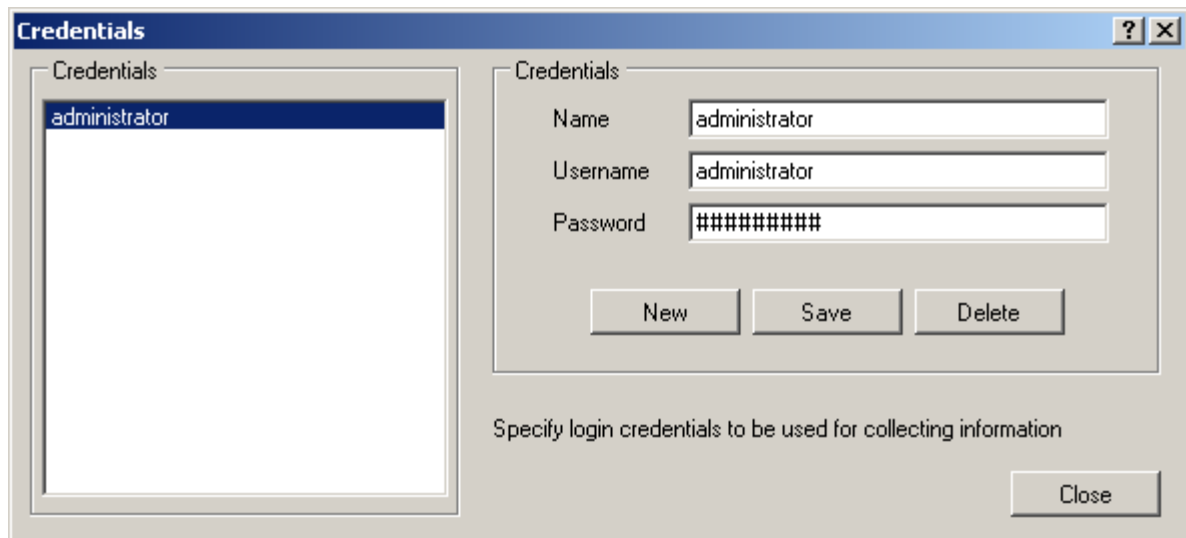
Network Asset Manager needs the administrative credentials to collect the data from the monitored machine via WMI.

User needs to provide the appropriate credentials that are required for monitoring.



To add a credential

- Click on Menu machine → Credentials configuration



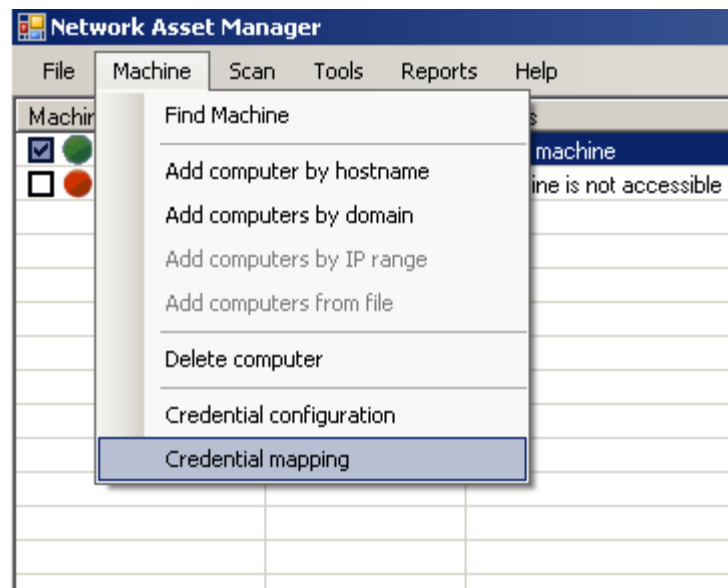
- To add a new credential click on new → Fill in the credentials and click save.
- To modify the credentials select the credential that needs to be modified → make the necessary changes and click save
- To delete a credential select the credential and click delete.

At the time of discovery, these credentials are used to retrieve WMI data from the monitored machine.

To learn more about Discovery process please refer the discovery section.

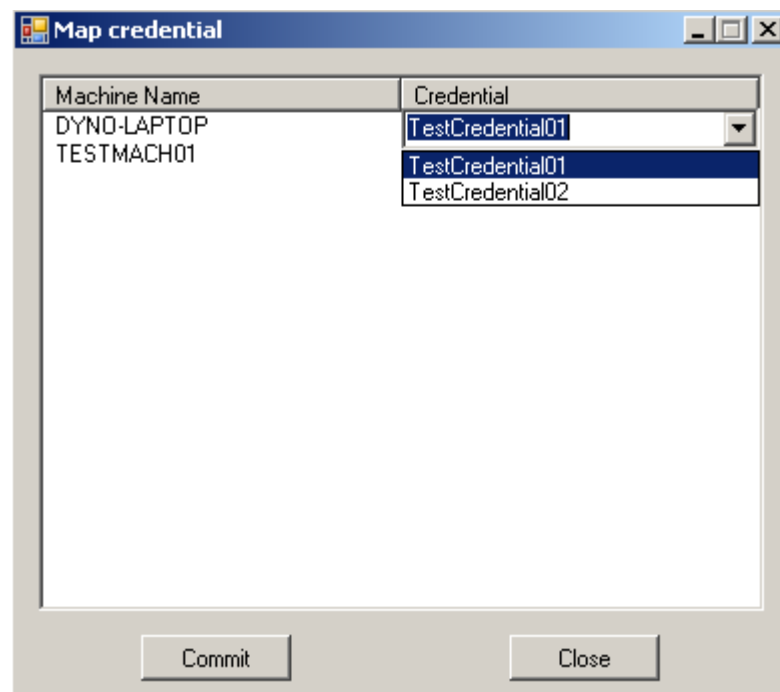
## Credentials mapping

For a already discovered machines the credential mapping can be changed using the credential mapping functionality.



To add computers on your network perform the following steps:

- Click on Menu machine → Credential mapping



- All the machines and their current credentials are listed.
- To change the credentials select new credential from the combo box.
- To commit the changes click on Commit.

## ***Machine Discovery***

User needs to add computers to the monitoring list.

Network Asset Manager provides four ways to add machines to the management system:

- Add computers by domain
- Add computers by range of IP addresses.
- Add computers using csv files.
- Add computers one by one

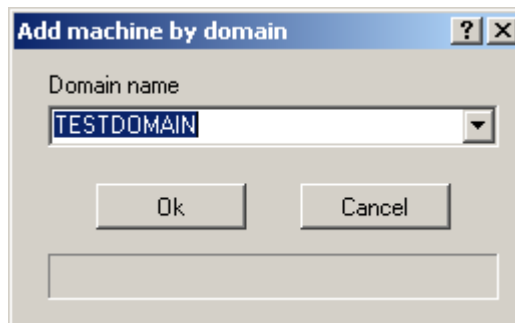
When a particular machine is added to the system, the credentials entered are automatically mapped to the machine. This simplifies the credential mapping mechanism and machines enables one click machine addition.

### **Add by domain**

Network Asset Manager enables user to scan all available computers on your network and add them to the system for monitoring.

To add computers on your network perform the following steps:

- Click on Menu machine → Add computers by domain



- In the form select the domain.
- To add machines from all available domains select “All Machines”
- Click on Ok

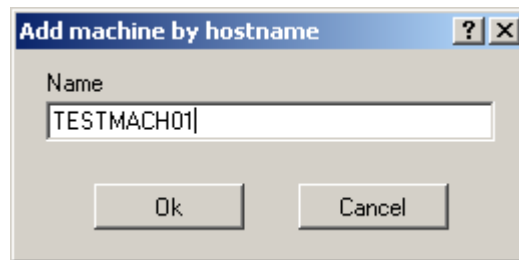
### **Add by IP/Hostname address**

A single machine can be added for tracking using the IP/Hostname interface.

To add computer following are the steps

- Specify the hostname or IP address of the machine that needs to be added for tracking.
- Click on Ok.

- The machine will be discovered and added to the system for tracking.



## Add computers by range of IP addresses

*Not yet implemented*

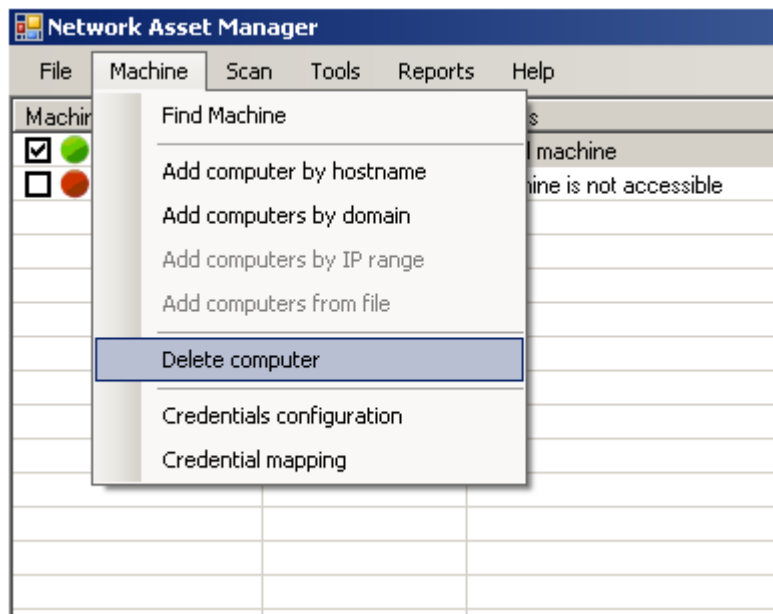
## Add computers from CSV file

*Not yet implemented*

## Delete a computer from system

To remove a machine from tracking following are the steps

- Check the checkbox in the monitored machine list
- In the machine menu click on Delete computer





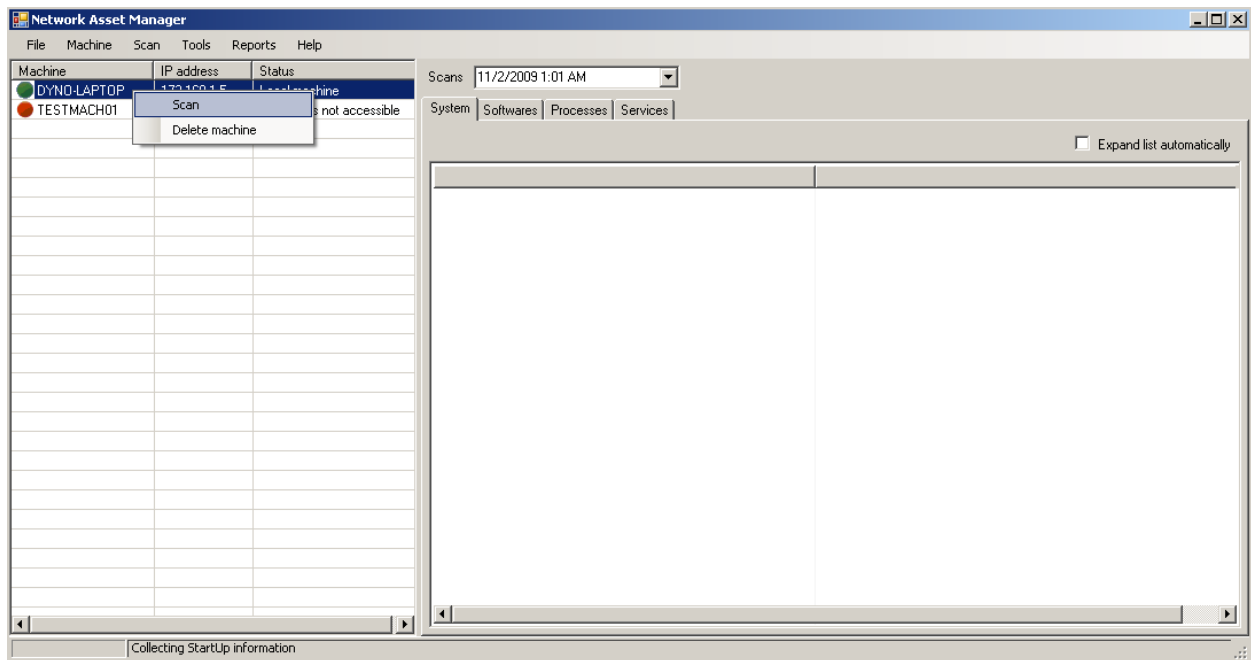
## Tracking

### *Data collection*

To collect data from a machine

- Check the checkbox to mark the machine.
- Right click → Scan.
- The machine is scanned and data is displayed on the right side tree view.

The progress of the data collection process is displayed in the status bar at the bottom of the main window.



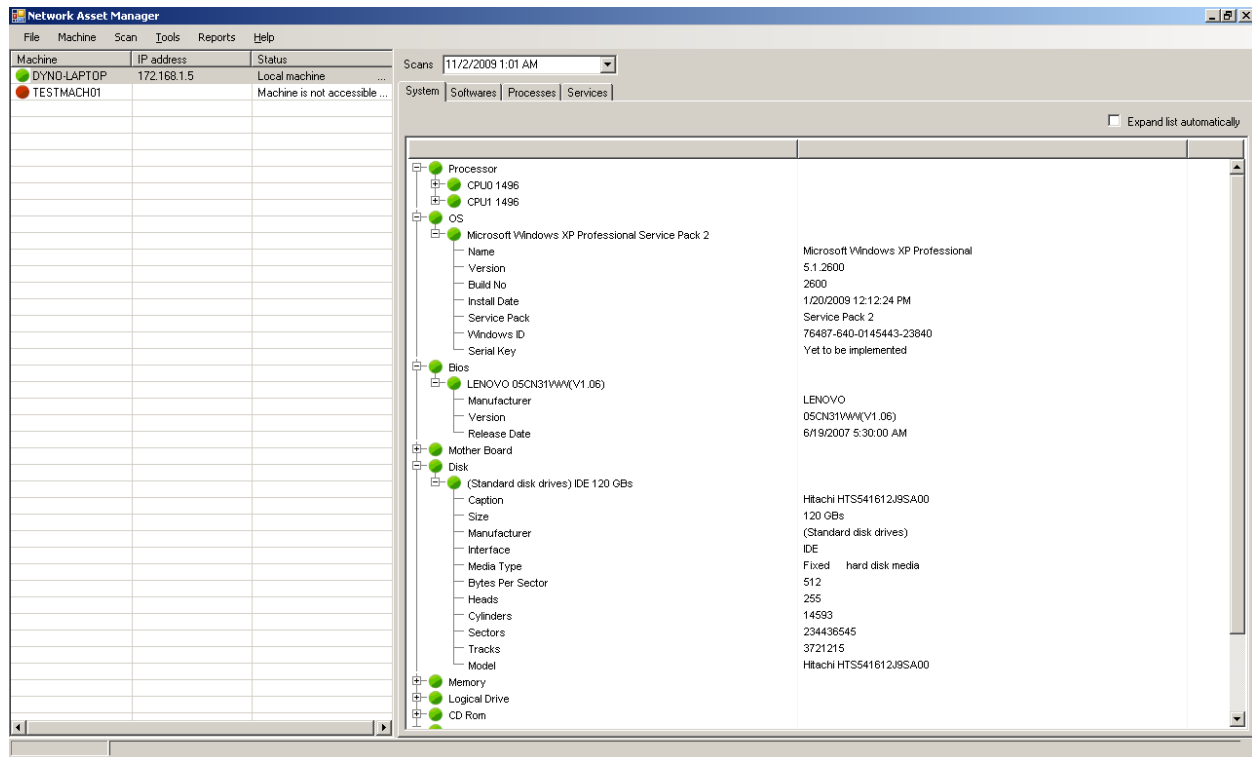
### *Viewing collected data*

To view the collected information for a machine

- Select the machine from the machine list.
- Select the scan instance from the drop down list (scan instances are with the scan initiated date and time)

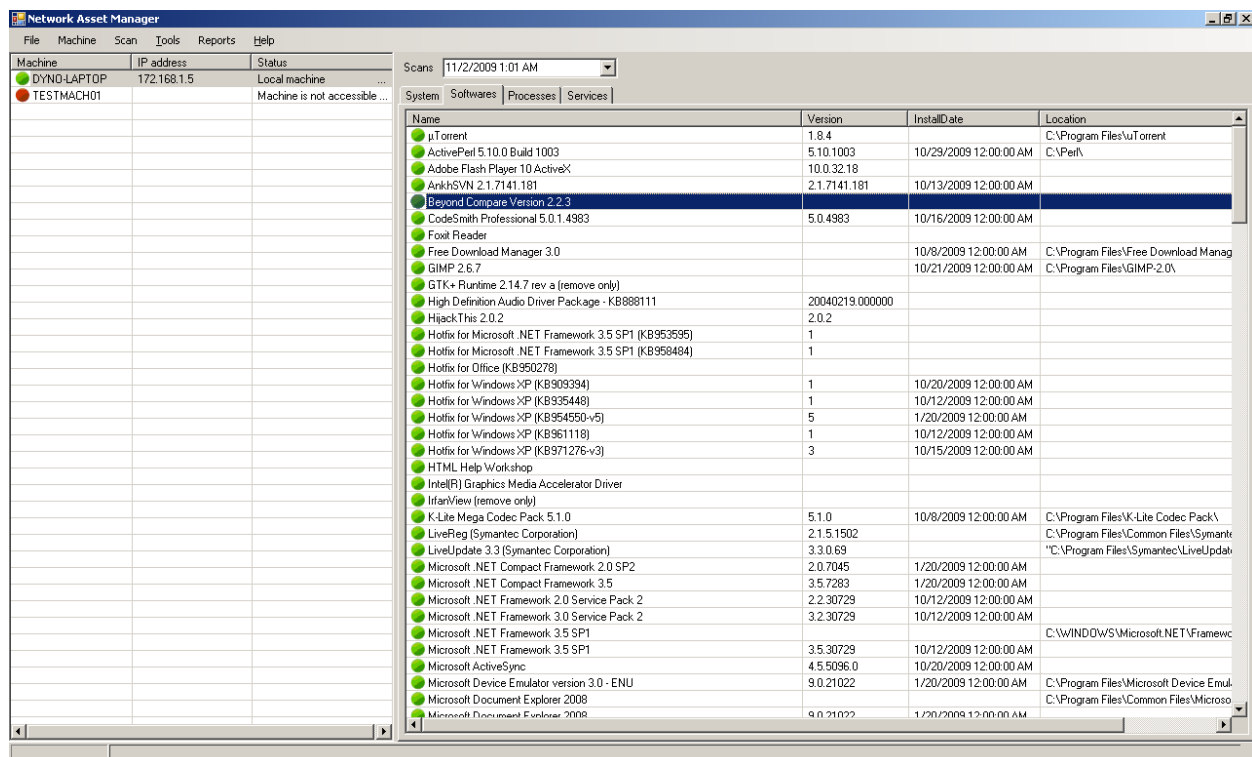
### **System tab**

The collected hardware information is listed as a tree structure. The tree structure can be expanded to show the details of a particular hardware. To expand the complete tree check the expand list automatically check box.



## Software tab

All the software on the monitored machine are listed with the version and installed date details.



## Processes tab

All the processes running at the time of scan are listed with the other process details.

The screenshot shows the Network Asset Manager application window. The 'Processes' tab is selected in the top navigation bar. The left sidebar displays a list of machines: 'DYNO-LAPTOP' (green dot, IP 172.168.1.5, status 'Local machine') and 'TESTMACH01' (red dot, status 'Machine is not accessible...'). The main area displays a table of running processes for the selected machine.

Name	ProcessID	ParentProcessID	ThreadCount	VirtualSize	PrivateBytes	Priority	CommandLine
System Idle Process	0	0	2	0 bytes	0 bytes	0	
System	4	0	83	1.84 MBs	28 KBs	8	
smss.exe	856	4	3	3.72 MBs	176 KBs	11	\SystemRoot\Sy...
csrss.exe	944	856	11	64.93 MBs	1.76 MBs	13	
winlogon.exe	972	856	19	54.17 MBs	7.38 MBs	13	winlogon.exe
services.exe	1016	972	16	36.68 MBs	2.36 MBs	9	C:\WINDOWS\S...
lsass.exe	1028	972	22	41.74 MBs	4.39 MBs	9	C:\WINDOWS\S...
svchost.exe	1188	1016	16	62.94 MBs	3.35 MBs	8	C:\WINDOWS\S...
svchost.exe	1284	1016	10	37.61 MBs	2.36 MBs	8	
svchost.exe	1324	1016	73	149.59 MBs	21.14 MBs	8	C:\WINDOWS\S...
SavService.exe	1368	1016	40	221.75 MBs	63.46 MBs	8	
Smc.exe	1948	1016	35	102.94 MBs	12.41 MBs	8	"C:\Program File...
svchost.exe	1988	1016	6	30.14 MBs	1.55 MBs	8	
svchost.exe	2040	1016	14	40.45 MBs	6.25 MBs	8	
ccSvcHst.exe	516	1016	37	74.93 MBs	10.98 MBs	8	"C:\Program File...
spoolsv.exe	1348	1016	11	42.88 MBs	3.4 MBs	8	C:\WINDOWS\S...
svchost.exe	1636	1016	6	38.52 MBs	2.37 MBs	8	
GhostStartService.exe	1828	1016	3	18.97 MBs	636 KBs	8	"C:\Program File...
sqlservr.exe	1864	1016	26	1.8 GBs	64.65 MBs	8	"C:\Program File...
nimbus.exe	1884	1016	2	13.05 MBs	560 KBs	8	"C:\Program File...
explorer.exe	672	308	14	125.26 MBs	23.32 MBs	8	C:\WINDOWS\S...
SAVAdminService.exe	804	1016	4	29.43 MBs	1.73 MBs	8	"C:\Program File...
ALsvc.exe	916	1016	7	39.46 MBs	1.63 MBs	8	"C:\Program File...
svchost.exe	1760	1016	6	37.55 MBs	2.82 MBs	8	C:\WINDOWS\S...
vmware-authd.exe	1280	1016	6	51.21 MBs	3.43 MBs	8	"C:\Program File...
vmtoolsd.exe	2268	1016	3	37.05 MBs	1.87 MBs	8	"C:\Program File...
igmp.exe	2372	672	2	34.71 MBs	980 KBs	8	"C:\WINDOWS\S...
hkcmd.exe	2408	672	2	31.59 MBs	972 KBs	8	"C:\WINDOWS\S...
igmp.exe	2416	1188	4	25.03 MBs	1.46 MBs	8	C:\WINDOWS\S...
igmp.exe	2448	672	6	25.43 MBs	780 KBs	8	"C:\WINDOWS\S...
vmnat.exe	2560	1016	3	15.43 MBs	776 KBs	8	C:\WINDOWS\S...
sqlagent.EXE	2640	1016	8	41.27 MBs	2.31 MBs	8	"C:\Program File...
vmnetdchp.exe	2864	1016	2	13.7 MBs	948 KBs	8	C:\WINDOWS\S...
RTHDCL.exe	2908	672	4	66.95 MBs	19.25 MBs	8	"C:\WINDOWS\S...
GhostStartTrayApp.exe	2924	672	1	25.42 MBs	680 KBs	8	"C:\Program File...
SSCUsernam 7310.exe	2927	672	1	20.98 MBs	936 KBs	8	"C:\Program File...

## Services tab

All the services installed on the machine are listed with other service details.

The screenshot shows the 'Network Asset Manager' application window. The 'Services' tab is selected, displaying a list of services installed on the machine 'DYN0-LAPTOP' (IP: 172.168.1.5). The 'Status' column indicates that the machine is 'Local machine' and 'Machine is not accessible...'. The 'Scans' dropdown shows '11/2/2009 1:01 AM'. The 'System' tab is active, showing a list of services with columns: Name, Description, State, StartMode, Account, and Path.

Name	Description	State	StartMode	Account	Path
Alert	Notifies selected...	Stopped	Disabled	NT AUTHORITY...	C:\WINDOWS\S...
Application Layer Gateway Service	Provides support...	Running	Manual	NT AUTHORITY...	C:\WINDOWS\S...
Application Management	Provides softwar...	Stopped	Manual	LocalSystem	C:\WINDOWS\S...
ASP.NET State Service	Provides support...	Stopped	Manual	NT AUTHORITY...	C:\WINDOWS\S...
Windows Audio	Manages audio ...	Running	Auto	LocalSystem	C:\WINDOWS\S...
Background Intelligent Transfer Service	Transfers data b...	Stopped	Manual	LocalSystem	C:\WINDOWS\S...
Computer Browser	Maintains an up...	Running	Auto	LocalSystem	C:\WINDOWS\S...
Symantec Event Manager	Event propagati...	Running	Auto	LocalSystem	"C:\Program File...
Symantec Settings Manager	Settings storage ...	Running	Auto	LocalSystem	"C:\Program File...
Indexing Service	Indexes content...	Stopped	Manual	LocalSystem	C:\WINDOWS\S...
ClipBook	Enables ClipBoo...	Stopped	Disabled	LocalSystem	C:\WINDOWS\S...
.NET Runtime Optimization Service v2.0.50727_x-86	Microsoft .NET ...	Stopped	Manual	LocalSystem	C:\WINDOWS\S...
COM+ System Application	Manages the co...	Stopped	Manual	LocalSystem	C:\WINDOWS\S...
Cryptographic Services	Provides three m...	Running	Auto	LocalSystem	C:\WINDOWS\S...
DCOM Server Process Launcher	Provides launch...	Running	Auto	LocalSystem	C:\WINDOWS\S...
DHCP Client	Manages network...	Running	Auto	LocalSystem	C:\WINDOWS\S...
Logical Disk Manager Administrative Service	Configures hard ...	Stopped	Manual	LocalSystem	C:\WINDOWS\S...
Logical Disk Manager	Detects and mo...	Running	Auto	LocalSystem	C:\WINDOWS\S...
DNS Client	Resolves and c...	Running	Auto	NT AUTHORITY...	C:\WINDOWS\S...
Error Reporting Service	Allows error repo...	Running	Auto	LocalSystem	C:\WINDOWS\S...
Event Log	Enables event lo...	Running	Auto	LocalSystem	C:\WINDOWS\S...
COM+ Event System	Supports System...	Running	Manual	LocalSystem	C:\WINDOWS\S...
Fast User Switching Compatibility	Provides manag...	Stopped	Manual	LocalSystem	C:\WINDOWS\S...
Windows Presentation Foundation Font Cache 3.0.0.0	Optimizes perfor...	Stopped	Manual	NT AUTHORITY...	C:\WINDOWS\S...
GhostStartService	Background ser...	Running	Auto	LocalSystem	C:\Program Files...
Help and Support	Enables Help an...	Running	Auto	LocalSystem	C:\WINDOWS\S...
Human Interface Device Access	Enables generic ...	Stopped	Disabled	LocalSystem	C:\WINDOWS\S...
HTTP SSL	This service impl...	Running	Manual	LocalSystem	C:\WINDOWS\S...
Windows CardSpace	Securely enable...	Stopped	Manual	LocalSystem	"C:\WINDOWS\S...
IMAPI CD-Burning COM Service	Manages CD re...	Stopped	Manual	LocalSystem	C:\WINDOWS\S...
Server	Supports file, pri...	Running	Auto	LocalSystem	C:\WINDOWS\S...
Workstation	Creates and mai...	Running	Auto	LocalSystem	C:\WINDOWS\S...
LiveUpdate	LiveUpdate Cor...	Stopped	Manual	LocalSystem	"C:\PROGRA~1...
TCP/IP NetBIOS Helper	Enables support ...	Running	Auto	NT AUTHORITY...	C:\WINDOWS\S...
Messenger	Transmits net se...	Stopped	Disabled	LocalSystem	C:\WINDOWS\S...
NetMeeting Remote Desktop Sharing	Enables an auth...	Stopped	Manual	LocalSystem	C:\WINDOWS\S...
Distributed Transaction Coordinator	Coordinates tra...	Stopped	Manual	NT AUTHORITY...	C:\WINDOWS\S...

## IPRoutes tab

All the IP routes configured for the machines are listed with the details

The screenshot displays the Network Asset Manager application window. The left sidebar shows a list of machines: DYN0-LAPTOP (172.168.1.5, Local machine) and TESTMACH01 (Machine is not accessible). The main window shows the IPRoutes tab, which lists IP routes for the selected machine. The table includes columns for Name, Age, Description, Destination, Mask, Metric1, Metric2, Metric3, and Metric4. The data shows several routes, including the default route (0.0.0.0) and specific network routes (127.0.0.0, 169.254.0.0, 172.168.1.0, 172.168.1.5, 172.168.255.255, 224.0.0.0, 255.255.255.255).

Name	Age	Description	Destination	Mask	Metric1	Metric2	Metric3	Metric4
0.0.0.0	12235	0.0.0.0 - 0.0.0.0...	0.0.0.0	0.0.0.0	25	-1	-1	-1
127.0.0.0	112939	127.0.0.0 - 255...	127.0.0.0	255.0.0.0	1	-1	-1	-1
169.254.0.0	12235	169.254.0.0 - 25...	169.254.0.0	255.255.0.0	30	-1	-1	-1
172.168.1.0	12238	172.168.1.0 - 25...	172.168.1.0	255.255.255.0	25	-1	-1	-1
172.168.1.5	12238	172.168.1.5 - 25...	172.168.1.5	255.255.255.255	25	-1	-1	-1
172.168.255.255	12238	172.168.255.25...	172.168.255.255	255.255.255.255	25	-1	-1	-1
224.0.0.0	12238	224.0.0.0 - 240...	224.0.0.0	240.0.0.0	25	-1	-1	-1
255.255.255.255	112939	255.255.255.25...	255.255.255.255	255.255.255.255	1	-1	-1	-1
255.255.255.255	12329	255.255.255.25...	255.255.255.255	255.255.255.255	1	-1	-1	-1



## Environment variable tab

All the environment variables registered on the monitored machines are listed with the details.

The screenshot shows the Network Asset Manager application window. The 'Machine' tab is selected, displaying a list of machines. The 'Environment Variables' tab is active, showing a list of system variables for the selected machine (DYNO-LAPTOP). The variables are listed in a table with columns: Name, Status, System Variable, User Name, and Variable Value.

Name	Status	System Variable	User Name	Variable Value
CLASSPATH	OK	True	<SYSTEM>	..C:\Program Files\QuickTime\QTSystem\QTJava.zip
ComSpec	OK	True	<SYSTEM>	%SystemRoot%\system32\cmd.exe
FP_NO_HOST_CHECK	OK	True	<SYSTEM>	NO
NUMBER_OF_PROCESSORS	OK	True	<SYSTEM>	2
ORACLE_HOME	OK	True	<SYSTEM>	C:\oracle\product\10.2.0\client_1
ORACLE_SID	OK	True	<SYSTEM>	orcl
OS	OK	True	<SYSTEM>	Windows_NT
Path	OK	True	<SYSTEM>	C:\oracle\product\10.2.0\client_1\bin;C:\Perl\site\bin;C:\Perl\bin;C:\Program
PATHEXT	OK	True	<SYSTEM>	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH
PROCESSOR_ARCHITECTURE	OK	True	<SYSTEM>	x86
PROCESSOR_IDENTIFIER	OK	True	<SYSTEM>	x86 Family 6 Model 15 Stepping 13, GenuineIntel
PROCESSOR_LEVEL	OK	True	<SYSTEM>	6
PROCESSOR_REVISION	OK	True	<SYSTEM>	0f0d
QTJAVA	OK	True	<SYSTEM>	C:\Program Files\QuickTime\QTSystem\QTJava.zip
TEMP	OK	True	<SYSTEM>	%SystemRoot%\TEMP
TMP	OK	True	<SYSTEM>	%SystemRoot%\TEMP
VS90COMNTOOLS	OK	True	<SYSTEM>	C:\Program Files\Microsoft Visual Studio 9.0\Common7\Tools\
windir	OK	True	<SYSTEM>	%SystemRoot%
UATDATA	OK	True	<SYSTEM>	C:\WINDOWS\system32\CCM\UATData\09f8c395-cab8-491d-b8ac-179a
TEMP	OK	False	NT AUTHORITY\...	%USERPROFILE%\Local Settings\Temp
TMP	OK	False	NT AUTHORITY\...	%USERPROFILE%\Local Settings\Temp
TEMP	OK	False	NT AUTHORITY\...	%USERPROFILE%\Local Settings\Temp
TMP	OK	False	NT AUTHORITY\...	%USERPROFILE%\Local Settings\Temp
TEMP	OK	False	NT AUTHORITY\...	%USERPROFILE%\Local Settings\Temp
TMP	OK	False	NT AUTHORITY\...	%USERPROFILE%\Local Settings\Temp
TEMP	OK	False	INFO-SPECTRU...	%USERPROFILE%\Local Settings\Temp
TMP	OK	False	INFO-SPECTRU...	%USERPROFILE%\Local Settings\Temp
ULTRAMON_LANGDIR	OK	False	INFO-SPECTRU...	C:\Program Files\UltraMon\Resources\ven

## Usergroups tab

All the user and there groups are listed with the details.

The screenshot shows the Network Asset Manager application window. The 'UserGroups' tab is selected, displaying a table of system users and groups. The table has columns for Name, Users, Caption, Description, Domain, InstallDate, LocalAccount, and S. The data is as follows:

Name	Users	Caption	Description	Domain	InstallDate	LocalAccount	S
Administrators	DYNO-LAPTOP...	DYNO-LAPTOP...	Administrators have complete a...	DYNO-LAPTOP		True	S
Backup Operators	DYNO-LAPTOP...	DYNO-LAPTOP...	Backup Operators can override...	DYNO-LAPTOP		True	S
Guests	DYNO-LAPTOP...	DYNO-LAPTOP...	Guests have the same access...	DYNO-LAPTOP		True	S
Network Configuration Operators		DYNO-LAPTOP...	Members in this group can hav...	DYNO-LAPTOP		True	S
Power Users		DYNO-LAPTOP...	Power Users possess most ad...	DYNO-LAPTOP		True	S
Remote Desktop Users		DYNO-LAPTOP...	Members in this group are grant...	DYNO-LAPTOP		True	S
Replicator		DYNO-LAPTOP...	Supports file replication in a do...	DYNO-LAPTOP		True	S
Users	DYNO-LAPTOP...	DYNO-LAPTOP...	Users are prevented from maki...	DYNO-LAPTOP		True	S
ConfigMgr Remote Control Users		DYNO-LAPTOP...	Members in this group can vie...	DYNO-LAPTOP		True	S
HelpServicesGroup	DYNO-LAPTOP...	DYNO-LAPTOP...	Group for the Help and Support...	DYNO-LAPTOP		True	S
SophosAdministrator	DYNO-LAPTOP...	DYNO-LAPTOP...	SophosAdministrators may run ...	DYNO-LAPTOP		True	S
SophosOnAccess		DYNO-LAPTOP...	Contains accounts used by So...	DYNO-LAPTOP		True	S
SophosPowerUser		DYNO-LAPTOP...	SophosPowerUsers may run S...	DYNO-LAPTOP		True	S
SophosUser		DYNO-LAPTOP...	SophosUsers may run Sophos ...	DYNO-LAPTOP		True	S
__vmware__	DYNO-LAPTOP...	DYNO-LAPTOP...	VMware User Group	DYNO-LAPTOP		True	S



## Reports

Network asset management system supports generating reports of the discovered system.

**Network asset manager report**

File Print

### Report

#### DYNO-LAPTOP

##### Disk

Caption	Size	Manufacturer	Interface	MediaType	BytesPerSector	Heads	Cylinders	Sectors	Tracks	Model
Hitachi HTS541612J9SA00	120 GBs	(Standard disk drives)	IDE	Fixed hard disk media	512	255	14593	234436545	3721215	Hitachi HTS541612J9SA00

##### MotherBoard

Manufacturer	Version	Product	SerialNo	Model
LENOVO	REFERENCE	IGT30	2079231601970	

##### OS

Name	Microsoft Windows XP Professional
Version	5.1.2600
BuildNo	2600
InstallDate	2009-01-20T12:12:24+05:30
ServicePack	Service Pack 2
WindowsID	76487-640-0145443-23840
LastBootupTime	2010-01-23T16:37:36.807+05:30
SerialKey	Yet to be implemented

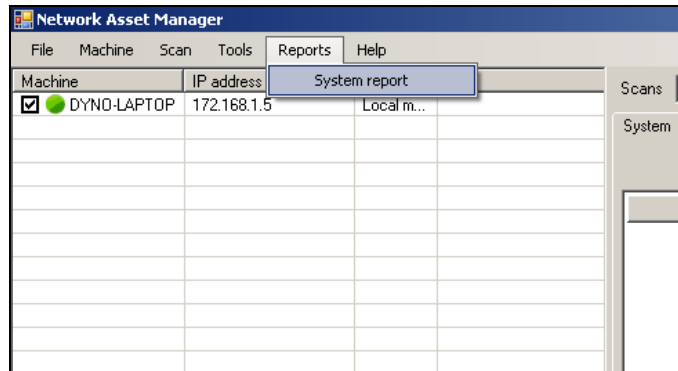
##### Processes

Name	CommandLine	ExecutablePath	CreationDate
System Idle Process			0
System			4

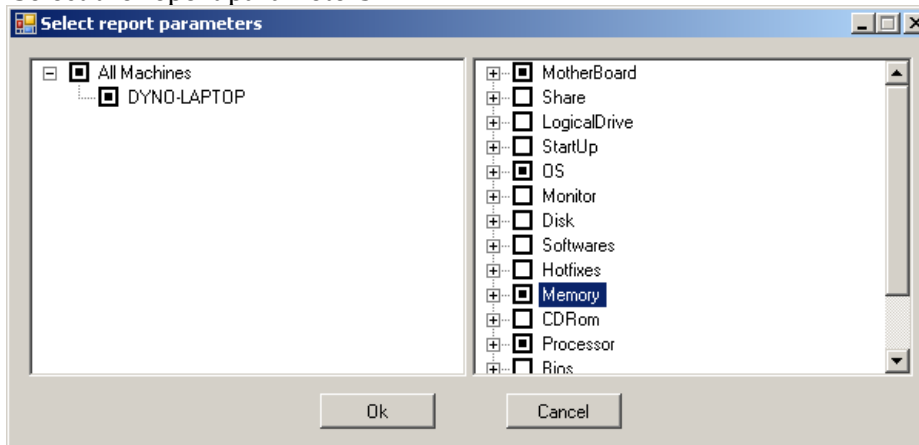
## Report generation

To generate a reports

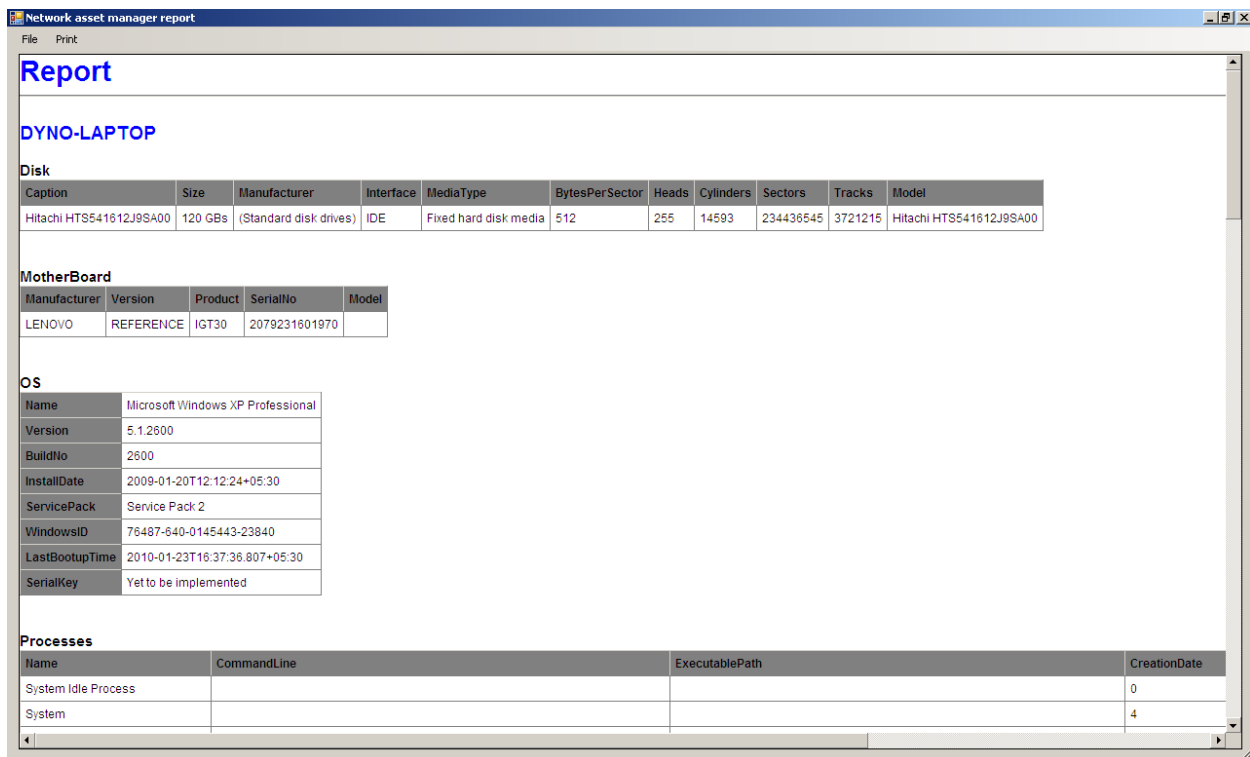
- Click on the report menu item → System report



- Select the report parameters



- The machines marked for monitoring and the associated entities are displayed. Select the machines and the entities that are to be included in the report.
- Click Ok to generate the report.



## ***Saving reports***

The generated reports can be saved in multiple formats.

### ***HTML reports***

To save the generated report as html

- Click file→Save as→html
- Specify the location where report needs to be saved.

**Report**

**DYNO-LAPTOP**

**Disk**

Caption	Size	Manufacturer	Interface	MediaType	BytesPerSector	Heads	Cylinders	Sectors	Tracks	Model
Hitachi HTS541612J9SA00	120 GBs	(Standard disk drives)	IDE	Fixed hard disk media	512	255	14593	234436545	3721215	Hitachi HTS541612J9SA00

**MotherBoard**

Manufacturer	Version	Product	SerialNo	Model
LENOVO	REFERENCE	IGT30	2079231601970	

**OS**

Name	Microsoft Windows XP Professional
Version	5.1.2600
BuildNo	2600
InstallDate	2009-01-20T12:12:24+05:30
ServicePack	Service Pack 2
WindowsID	76487-640-0145443-23840
LastBootupTime	2010-01-23T16:37:36.807+05:30
SerialKey	Yet to be implemented

**Processes**

Name	Command line	ExecutablePath	CreationDate
Done			

## System requirements

### *Monitoring Platform:*

- Windows 7
  - Windows Vista
  - Windows 2003
  - Windows XP
  - Windows 2000
  - Windows NT
  - Windows Me
  - Windows 98/95
- (<http://www.microsoft.com/downloads/details.aspx?familyid=98a4c5ba-337b-4e92-8c18-a63847760ea5&displaylang=en>)

### *Software requirements*

- Dot Framework 3.5 or above