



IBM Network Advisor Version 11.1 supports end-to-end enterprise-class data center fabric management

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At a glance

IBM® Network Advisor V11.1 is designed to:

- Provide comprehensive management of data center fabrics
- Include configuration, monitoring, and management of 16 Gbps fabric backbones, as well as IBM b-type directors, routers, switches, Host Bus Adapters (HBAs), and Converged Network Adapters (CNAs)
- Help organizations to discover, monitor, and manage converged Fibre Channel over Ethernet (FCoE) network environments
- Scale to manage from 4 to 24 fabrics and 2,560 to 9,000 ports with Pro Plus or Enterprise features

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Overview

IBM Network Advisor V11.1 is a software management platform that unifies network management for a storage area network (SAN) and converged networks. It is designed to provide a consistent user interface across Fibre Channel (FC) and FCoE over Data Center Bridging (DCB), along with custom views and controls based on the users' areas of specialization.

IBM Network Advisor V11.1 offers flexibility in deployment and operational models, including traditional SAN deployments (FC, iSCSI, and NAS) and end-to-end convergence (FCoE, iSCSI, and NAS).

IBM Network Advisor V11.1:

- Simplifies operations by providing centralized, end-to-end network management of SAN, including 16 Gbps FC and Converged FCoE environments
- Provides critical flexibility and seamless scaling from small environments to large-scale and highly distributed geographic locations
- Manages storage and data networks separately, or through a single instance of the product for greater flexibility and visibility across environments and simplifying network management
- Provides comprehensive support for FC SAN management with configuration, zoning, and visualization capabilities, including end-to-end HBA/ CNA, storage, SAN fabric, and Layer 2 switch topology views

- Integrates seamlessly with the leading hypervisors and industry-leading third-party management solutions

Key prerequisites

Users are responsible for supplying a management server with specific capabilities and to install the software on this server. To install IBM Network Advisor V11.1, one of the following platforms is required:

- Microsoft™ Windows™ Server 2003 Std SP2 (x86 32-bit)
- Windows Server 2008 Std (x86 32-bit)
- Windows XP Pro SP3 (x86 32-bit)
- Windows 7 Professional (x86 32-bit)
- VMware ESX 4.0 with Guest VMs of Windows Server 2003 Std SP2 (x86 32-bit)
- Windows Server 2008 R2 (x86 64-bit) Standard, Data Center, and Enterprise Editions
- Red Hat AS 4.8 (x86 32-bit)
- Red Hat Enterprise Linux™ 5.4 Adv (x86 32-bit)
- SUSE Linux Enterprise Server 10 SP1, 11 (x86 32-bit)
- VMware ESX 4.0 with Guest VMs of:
 - Windows Server 2008 R2 (x86 64-bit) Standard, Data Center, and Enterprise Editions
 - Red Hat Enterprise Linux 5.4 Adv (x86 32-bit)
 - SUSE Linux Enterprise Server 10 SP1, 11 (x86 32-bit)

For more information and documentation regarding installation and planning for Network Advisor V11.1 including server CPU and memory requirements, visit

<http://www.ibm.com/systems/support/storage/san>

Planned availability date

August 26, 2011

Description

Organizations can use IBM Network Advisor V11.1 to provide a unified management experience designed to enable better coordination between storage and data networking administrators for provisioning, troubleshooting, and reporting. Although every network type has unique management requirements, most organizations face the same challenges managing their network environments, such as minimizing network downtime, reducing operational expenses, managing application Service Level Agreements (SLAs), and providing robust security.

To address such issues, IBM Network Advisor V11.1 delivers a unified network management solution for data, storage, and converged networks. It supports FC SANs, including 16 Gbps FC platforms and FCoE networks. As a result, it provides end-to-end visibility across different network types within a single application, and supports comprehensive life cycle management capabilities across different networks through a seamless and unified user experience.

IBM Network Advisor V11.1 provides key capabilities, including:

- Intelligent dashboard: Presents an at-a-glance summary of all discovered b-type devices, including inventory and event summary information used to identify problem areas and help prevent network downtime

- User management: Allows flexible definitions of administrator roles and responsibilities with robust Role-Based Access Control (RBAC) for both SAN and FCoE management
- Security management: Offers robust security administration by integrating with leading Authentication, Authorization, and Accounting (AAA) solutions
- Device Configuration Wizard: Delivers an easier way to configure and manage dynamically updated groups of devices
- Flexible reporting: Features a powerful and flexible reporting framework, along with predefined asset reports
- Automation: Simplifies firmware downloads and backup/restore of switch configurations across dynamic groups of switches to automate time-consuming activities and enable rapid provisioning
- Topology Manager: Integrated with discovery and network mapping capabilities that provide Layer 2, FCIP tunnels, and FCR links views of managed devices
- Search tool: Enables fast location of devices based on multiple search criteria

IBM Network Advisor can help organizations reduce network downtime through capabilities such as real-time and historical performance monitoring, traffic analysis, fault isolation, change management, and policy-driven remedial actions. Proactive alerts with real-time logging, diagnostic, and fault isolation capabilities help resolve issues before they impact SLAs with capabilities like:

- Event management: This feature helps in troubleshooting network-related issues and can receive SNMP traps, Syslog events, and messages for monitoring, analysis, correlation, remediation, and reporting. The trap forwarding feature allows filtering SNMP traps and sends them to third-party applications.
- Change management: Organizations can track device configuration changes through the integrated Change Manager, which enables viewing, retrieval, and restoration of configuration files and monitoring of configuration drift for troubleshooting purposes. Configuration backups can be performed manually or scheduled to run automatically.
- Automated Call Home feature: The Call Home feature automatically collects diagnostic information in response to predefined and user-defined events, and sends notifications to technical support organizations for faster fault diagnosis, isolation, and remote support operations.

Leveraging its comprehensive Dashboard, users have an at-a-glance view into the performance, events, and inventory in the storage area network. This Dashboard is highly-customizable on a per-user basis. From the Dashboard, IBM Network Advisor enables users to manage and monitor their networks, regardless of network type.

IBM Network Advisor can seamlessly manage multiple network infrastructures to help optimize application performance, manage SLAs, and maximize the availability of data and networked resources. Organizations can utilize leading-edge capabilities to:

- Proactively monitor, troubleshoot, diagnose, and provide event notification regarding critical health information at varying levels of detail
- Configure Quality of Service (QoS) priorities to optimize the performance of applications running on physical and virtual servers
- Collect and display performance statistics in real time and utilize historical views for proactive problem determination

For all b-type SAN switches, including 16 Gbps FC platforms, IBM Network Advisor provides detailed monitoring of port and link utilization against predefined and user-configurable thresholds to optimize network performance.

Built on a standards-based architecture, IBM Network Advisor V11.1 can scale from small network islands to large, geographically dispersed networks. Organizations can reduce operational expenditures by leveraging the same management solution across different environments.

IBM Network Advisor V11.1 offers comprehensive Layer 2 configuration, with easy-to-use DCB interface administration, FCoE port and trunk configurations, FCoE login management, and QoS. In addition, it provides:

- Comprehensive support for FC SANs, including b-type 16 Gbps FC platforms, with configuration, including SAN port diagnostics and bottleneck detection, and zoning; and visualization, including end-to-end HBA/CNA, storage, SAN fabric, and Layer 2 switch topology views.
- Proactive best-practices validation of SAN configurations, including on-demand or scheduled operation, customization, and *red flag* reporting-using the Policy Monitor tool.
- Configuration, monitoring, and optimization of Fibre Channel over IP (FCIP) tunnels across WAN links, including support for managing multiple FCIP circuits, configuration of FCIP failover circuits, automated setting of compression parameters, configurable assignment of FCIP tunnel bandwidth to QoS classes, and support of multi-gigabit FCIP circuits.
- An intuitive interface to help manage virtualized network environments.
- The ability to edit zone information and preview its impact without affecting production fabrics.

IBM Network Advisor V11.1 provides a non-disruptive path and functional continuity for organizations that are upgrading from IBM Data Center Fabric Manager (DCFM).

IBM Network Advisor is available with flexible package and licensing options for a wide range of network deployments and for future network expansion. IBM Network Advisor V11.1 Pro Plus feature is licensed to manage up to 4 fabrics and 2560 ports, while the Enterprise option can manage up to 24 fabrics and 9000 ports. IBM also offers a path to customers using the Pro Plus feature to upgrade for a fee to the Enterprise option. At the time of the upgrade, the remainder of the Maintenance and Support of the Pro Plus feature will be forfeited.

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Program number

IBM Network Advisor V11.1

Program number	VRM	Program name
5639-NA1	11.1.0	Network Advisor
Software Maintenance:		
5639-NA2		Network Advisor Per Install SW Maintenance No Charge Registration
5639-NA3		Network Advisor Per Install SW Maintenance 1 Year After License
5639-NA4		Network Advisor Per Install SW Maintenance 3 Year Registration
5639-NA5		Network Advisor Per Install SW Maintenance 3 Year Renewal
5639-NA6		Network Advisor Per Install SW Maintenance 3 Year After License

Product identification number

Program PID number	Maintenance	Maintenance
	1 year PID number	3 year PID number
5639-NA1	5639-NA2 Reg/Ren	5639-NA4 3Yr Registration
		5639-NA5 3Yr Renewal
	5639-NA3 1Yr AfL	5639-NA6 3Yr After License

Offering Information

Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM , you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=211-243>

Publications

The following publications can be ordered by August 16, 2011. To order, use the Publications Center or contact your IBM representative.

Title	Order number
IBM Network Advisor SAN User Manual	GA32-0940-00
IBM Network Advisor Installation Guide	GA32-0941-00
IBM Network Advisor Migration Guide	GA32-0942-00

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

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Technical information

Specified operating environment

Hardware requirements

The system requirements and recommended configuration options vary depending on the size of the SAN fabrics being managed with IBM Network Advisor V11. Consult the user's manuals or contact IBM Support for details.

Server configurations

To install IBM Network Advisor V11.1, one of the following platforms is required:

- Windows Server 2003 Std SP2 (x86 32-bit)
- Windows Server 2008 Std (x86 32-bit)
- Windows XP Pro SP3 (x86 32-bit)
- Windows 7 Professional (x86 32-bit)
- VMware ESX 4.0 with Guest VMs of: Windows Server 2003 Std SP2 (x86 32-bit)
- Windows Server 2008 R2 (x86 64-bit) Standard, Data Center, and Enterprise Editions
- Red Hat AS 4.8 (x86 32-bit)
- Red Hat Enterprise Linux 5.4 Adv (x86 32-bit)
- SUSE Linux Enterprise Server 10 SP1, 11 (x86 32-bit)
- VMware ESX 4.0 or 4.1 with Guest VMs of:
 - Windows Server 2008 R2 (x86 64-bit) Standard, Data Center, and Enterprise Editions
 - Red Hat Enterprise Linux 5.4 Adv (x86 32-bit)
 - SUSE Linux Enterprise Server 10 SP1, 11 (x86 32-bit)
 - Oracle Enterprise Linux 5.x (x86 32-bit)

Required FoS features

Some IBM Network Advisor features require specific FOS licensed features to be enabled.

Software requirements

Supported client/server operating systems

- Microsoft Windows 2003 Server, Windows 7 Professional, Windows XP, Windows Vista, and Windows 2008 Server
- Red Hat Linux AS 4.8, Red Hat Enterprise Linux 5.5 Advanced, and SUSE Linux Enterprise Server 10 SP1
- Sun Solaris 10
- VMware ESX Server 4.0
- Guest operating systems supported: Windows 2008 Server R2, Linux Red Hat 5.4 Advanced, and SUSE Linux ES10

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Limitations

For additional information, refer to [Usage restriction](#) in the Terms and conditions section of this announcement, or to the license information document that is available on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

Planning information

IBM Network Advisor upgrade features

IBM provides IT organizations with functional continuity when upgrading from Data Center Fabric Manager to IBM Network Advisor. Refer to the [Description](#) section of this announcement for details and requirements.

Customer responsibilities

Installation of the IBM System Storage® Network Advisor V11.1 on a customer-supplied server is the customer responsibility. In addition to provisions of the hardware requirements and software requirements stated in this announcement, the IBM System Storage Network Advisor SAN User Manual GA32-0940-00 and IBM System Storage Network Advisor Migration Guide GA32-0942-00 should be reviewed during installation.

Users migrating to IBM Network Advisor V11.1 from a previous instance of Data Center Fabric Manager software installation need to verify that the correct DCFM version is installed prior to migrating to IBM Network Advisor. For information about upgrading to a version of Data Center Fabric Manager that meets migration requirements, refer to the IBM System Storage Network Advisor Migration Guide GA32-0942-00. E/OS or FOS versions may also need to be upgraded on supported switches and directors.

Customers requiring migration assistance from existing versions of Data Center Fabric Manager software should contact the service organizations from which they are currently receiving support.

Installability

Direct customer support

For technical support or assistance, contact your IBM representative or visit

<http://www.ibm.com/support>

Packaging

IBM Network Advisor V11.1 is orderable using the AAS ordering system and IBM will ship a DVD media package. This program, when loaded from the DVD media package, contains the applicable IBM license agreement and License Information, which will be presented for acceptance at the time of installation of the program.

Description	Orderable Feature Code
Media Kit for IBM Network Advisor V11.1 Enterprise Edition	5809
Media Kit for IBM Network Advisor V11.1 Upgrade from Pro Plus	5819
Media Kit for IBM Network Advisor V11.1 Pro Plus	5829
3444 Registration (Suppresses Media Shipment)	

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise

of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Ordering information

Charge metric

Program name	Part number or PID number	Charge metric
IBM Network Advisor	5639-NA1	per Install

Install

Install is a unit of measure by which the program can be licensed. An install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each install of the program.

IBM Network Advisor V11.1

Program name: IBM System Storage Network Advisor V11.1

Program number: 5639-NA1

Base IBM Network Advisor V11.1 one-time charge with one year Software Maintenance

Specify quantity of Base IBM Network Advisor feature equal to the number of installs.

Feature description	Feature number
IBM Network Advisor Enterprise Edition Base one-time charge with one year Software Maintenance	0001
Upgrade from Network Advisor Pro Plus with 1 Yr Software Maintenance	0003
IBM Network Advisor Pro Plus Edition Base one-time charge with one year Software Maintenance	0005
Feature description	No charge feature
Media Kit for IBM Network Advisor V11.1 Enterprise Edition	5809
Media Kit for IBM Network Advisor V11.1 Upgrade from Pro Plus	5819
Media Kit for IBM Network Advisor V11.1 Pro Plus Edition	5829

This software license includes Software Maintenance, previously referred to as Software Subscription and Technical Support.

Extending coverage for a total of three years from the date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses. If maintenance has expired, specify the after license feature number.

IBM Network Advisor V11.1

Software license includes 1 year Software Maintenance

5639-NA2 Maintenance no charge 1 year registration + 1 year renewal

Feature description	Feature number
IBM Network Advisor Enterprise Edition V11.1 1 Yr Registration Per Install SW Maintenance No Charge Registration	0001
IBM Network Advisor Enterprise Edition V11.1 1 Yr Renewal one-time charge Per Install SW Maintenance	0003
IBM Network Advisor Pro Plus V11.1 1 Yr Registration Per Install SW Maintenance No Charge Registration	0005
IBM Network Advisor Pro Plus V11.1 1 Yr Renewal one-time charge Per Install SW Maintenance	0007

5639-NA3 Maintenance 1 year After License

Feature description	Feature number
IBM Network Advisor Enterprise Edition V11.1 1 Yr After License Per Install SW Maintenance	0001
IBM Network Advisor Pro Plus V11.1 1 Yr After License Per Install SW Maintenance	0003

5639-NA4 Maintenance 3 year Registration

Feature description	Feature number
IBM Network Advisor Enterprise Edition V11.1 3 Yr Registration Per Install SW Maintenance	0001
IBM Network Advisor Pro Plus V11.1 3 Yr Registration Per Install SW Maintenance	0003

5639-NA5 Maintenance 3 year Renewal

Feature description	Feature number
IBM Network Advisor Enterprise Edition V11.1 3 Yr Renewal Per Install SW Maintenance	0001

IBM Network Advisor Pro Plus V11.1 3 Yr Renewal Per Install SW Maintenance	0003
5639-NA6 Maintenance 3 year After License	
Feature description	Feature number
IBM Network Advisor Enterprise Edition V11.1 3 Yr After License Per Install SW Maintenance	0001
IBM Network Advisor Pro Plus V11.1 3 Yr After License Per Install SW Maintenance	0003

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IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

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These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

License Information form number

GI13-1835-00

The program's License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

<http://www.ibm.com/support/handbook>

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

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If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Other terms**Volume orders (IVO)**

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Passport Advantage applies

No

Usage restriction

Yes

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<http://www.ibm.com/software/sla/sladb.nsf>

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Yes. All distributed software licenses include Software Subscription and Support (also referred to as Software Maintenance) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

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Software Subscription and Support (Software Maintenance) does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under this agreement.

IBM Operational Support Services - SoftwareXcel

No

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Yes. A 15% education allowance applies to qualified education institution customers.

Prices

Information on charges is available at

<http://www.ibm.com/support>

Choose the option entitled Purchase/upgrade tools.

IBM Network Advisor V11.1

Program name: IBM Network Advisor V11.1

Program PID: 5639-NA1

Base IBM Network Advisor V11.1

One-time Charge with one year Software Maintenance

Feature description	Feature number
IBM Network Advisor Enterprise Edition Base one-time charge with one year Software Maintenance	0001
Upgrade from Network Advisor Pro Plus with 1 Yr Software Maintenance	0003
IBM Network Advisor Pro Plus Edition Base one-time charge with one year Software Maintenance	0005

IBM Network Advisor V11.1

Software license includes 1 year Software Maintenance

5639-NA2 Maintenance no charge 1 year registration + 1 year renewal

Feature description	Feature number
IBM Network Advisor Enterprise Edition V11.1 1 Yr Registration Per Install SW Maintenance No Charge Registration	0001
IBM Network Advisor Enterprise Edition V11.1 1 Yr Renewal one-time charge Per Install SW Maintenance	0003
IBM Network Advisor Pro Plus V11.1 1 Yr Registration Per Install SW Maintenance No Charge Registration	0005
IBM Network Advisor Pro Plus V11.1 1 Yr Renewal one-time charge Per Install SW Maintenance	0007

5639-NA3 Maintenance 1 year After License

Feature description	Feature number
IBM Network Advisor Enterprise Edition V11.1 1 Yr After License Per Install SW Maintenance	0001
IBM Network Advisor Pro Plus V11.1 1 Yr After License Per Install SW Maintenance	0003

5639-NA4 Maintenance 3 year Registration

Feature description	Feature number
IBM Network Advisor Enterprise Edition V11.1 3 Yr Registration Per Install SW Maintenance	0001
IBM Network Advisor Pro Plus V11.1 3 Yr Registration Per Install SW Maintenance	0003

5639-NA5 Maintenance 3 year Renewal

Feature description	Feature number
IBM Network Advisor Enterprise Edition V11.1 3 Yr Renewal Per Install SW Maintenance	0001
IBM Network Advisor Pro Plus V11.1 3 Yr Renewal Per Install SW Maintenance	0003

5639-NA6 Maintenance 3 year After License

Feature description	Feature number
IBM Network Advisor Enterprise Edition v11.1 3 Yr After License Per Install SW Maintenance	0001
IBM Network Advisor Pro Plus v11.1 3 Yr After License Per Install SW Maintenance	0003

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner for Software ValueNet® . Additional information is also available at

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[ENUS-211-243-LIST_PRICES_2011_08_16.PDF](#)

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