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D-View 6.0

Network Management Software

External Specification

Version 1.00

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Version	Revised Date	Person Name	Content Revised			
1.00	2007/8/21	Peter Chan	First Edition			

D-View 6.0 Specification Revision History



Product Description

With the growing complexity for the enterprise network, heterogeneous devices coexist together are more popular than before. Therefore an integrated solution or a management platform to manage these heterogeneous products is an essential requirement for enterprise, for this reason, D-Link decides to develop new generation network management system, the D-View 6.0. Besides, D-View 6.0 is going to replace the D-View 5.1 which has been developed for several years without function update.

There are two versions for D-View 6.0, one is D-View 6.0 Standard Edition which is aimed for SMB and small enterprise and others is D-View 6.0 Professional Edition which is aimed for large enterprise, telecom and ISP users.

The difference between these two versions, the Standard and Professional, is that D-View 6.0 Standard Edition supports about 1000 nodes and Professional Edition supports more than 1000 nodes, the limitation for the nodes management depends on the SQL DB capacity; also for the difference with database support, the D-View 6.0 Standard uses embedded Microsoft Access DB and Professional one uses Microsoft SQL DB.

Besides that, D-View 6.0 supports topology map which can provide an intuitive view for the relationship between devices in a map and batch configuration to enable administrators to mange the devices with batch job, such as the configuration backup, firmware upgrade, batch configuration setup etc; other essential component for NMS, like trap notification, MIB complier, MIB browser, performance monitor are all included in D-View 6.0

1. Product Specifications:

Hardware Requirement	Detailed Description	
CPU	1.4GHz or above	
DRAM	1G or above	
Hard drive available space	200MB (minimum for D-View system files)	
Ethernet NIC	10/100/1000Mbps	
Software Requirement		
Internet browser	Microsoft IE 6.0 or above	
Microsoft XML Parser and SDK		
Operating System Requirement		
Microsoft Windows 2000 Server	With Service Pack 4	
English Version		
Microsoft Windows 2000 Advanced	With Service Pack 4	
Server English Version		
Microsoft Windows 2003 English	With Service Pack 2	
Version		
Microsoft Windows	With Service Pack 2	
XP/Home/Professional		

1.1 D-View 6.0 Standard Edition System Requirement:



1.2D-View 6.0 Professional Edition System Requirement:

Hardware Requirement	Detailed Description		
CPU	1.4GHz or above		
DRAM	1G or above		
Hard drive available space	200MB (minimum for D-View system files, not include the space for SQL		
	Database. For SQL DB, please check Microsoft SQL DB installation guide.)		
Ethernet NIC	10/100/1000Mbps		
Software Requirement			
Internet browser	Microsoft IE 6.0 or above		
Microsoft XML Parser and SDK			
Operating System Requirement			
Microsoft Windows 2000 Server	With Service Pack 4		
English Version			
Microsoft Windows 2000 Advanced	With Service Pack 4		
Server English Version			
Microsoft Windows 2003 English	With Service Pack 2		
Version			
Database Management System			
Microsoft SQL Server 2000 English	With Service Pack 2		
Version			
Microsoft SQL Server 2005 English			
Version			

1.3 Product Features:

Feature	Detailed Description	IETF Standard	Release Schedule
Activation			
30-days Trail	When launch D-View 6.0, you will be requested for user registration procedure, if you decide to skip the registration and click the "skip" button, You'll get 30 days trial automatically.		FCS
Activation Code	 There're 3 methods to get the activation code: Go to the <u>http://dview.dlink.com.tw</u> web site directly Start D-View and click the "Register" button in the "Activation Wizard" for the online registration and get the activation key. Start D-View, go to Help>D-View Activation Wizard 		FCS



	Apply for the Activation Code:			
	1. Enter the License Key which is pasted on the			
	CD label and machine's MAC address to get			
	an Activation Code.			
	1. Each License Key can apply for 5 MAC			
Available Registered Client	addresses.	FCS		
Available Registered Client	2. The rule applies for both Professional and	100		
	Standard version			
Topology Management				
	1. Netmap: Discover devices with specific IP			
	subnet or IP range and provide an intuitive			
Tanalami Man	view of devices' link relationship.	500		
тороюду мар	2. Query device's ARP/FDB table to build up the	FCS		
	link relationship			
	3. Be able to separate the map by subnet			
	1. Import the topology map from XML file which			
	was created by topology generator to database	500		
Topology Import / Export	and export the topology map from database to	FCS		
	XML file			
	1. Domain is a collection of several Netmaps			
	which can be treated as a geography location.			
	2. Be able to create and modify the domain			
	parameters, such as the domain name, the			
Domain Manager	legal host which is allowed to access monitor	FCS		
	and manage the domain			
	3 Configure which workstation (user) is allowed			
	to access which domain			
	1 Maintain the link relationship between 2			
Link Manager	devices when create the devices manually	FCS		
	2 Add/ delete/ medify feature supported	100		
Wah Oliant	1. Allow the access and essential configuration	Euture release		
web Client	via Web	Future release		
	2. Discover the topology by subnet or IP address	500		
	range.	FUS		
Topology Discovery	3. Automatically and periodically polling the			
	network and adding the new discovered device			
	into the topology	Future release		
Fault/Event Management				
	associated massage description When D View			
Trop Editor	associated message description. When D-view	ECO		
	display the trap's information which was	гоз		
	display the trap s information which was			
	defined in the trap editor.			



Trap Filter	 Normally, when D-View receives a trap, D-View will launch associated notification procedure which was defined in D-View. When enable the trap filter, D-View will ignore the trap's associated potification action 	FCS
Event Configuration	 Configure the notification method for each event/trap The notification methods include 2-1. Sound 2-2. Keep a log 2-3 Flash 2-4 Send an E-Mail 	FCS
Polling Configuration	 Define the polling protocol, polling interval and determine which device will be monitored. 	FCS
System Log	1. To save and maintain the administrators' operation log and the system's log	FCS
Syslog Server	 Act as a syslog server to collect all the syslog message sent from each devices 	Future Release
Device Management		
Batch Configuration	 To simultaneously configure several devices at the same time. Supported functions: 2-1. Save file 2-2. Enable/Disable RMON 2-3. Enable/Disable Safeguard Engine 2-4. Enable/Disable Spanning Tree 2-5. Firmware update 2-6. Device Resource information update 2-7. Configuration file update 2-8. Port Status check 2-9. Reboot the selected device 2-10. VLAN creation 	FCS 2-10 Future Release
Device Customization	 Configure 3rd parties' device OID information into D-View's database. When D-View polling the network and found the same OID, D-View will identify the device and display the name you entered in the topology map. If 3rd parties' device is not defined first over here, the device will displayed as a "GenSNMP Device" in topology map. Both D-Link or said 3rd parties' devices on Netmap can be changed with selected lcons for customized presentation. 	FCS

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	A	To keep some boois information of devices to		
	1.	To keep some basic information of devices to		
	_	neip administrator's management.		
	2.	I ne information includes:		
		2-1. Device's basic information, such as		
		device's name, vendor, model type.		
		2-2. Device's interface information.		
Device Manager		2-3. Device's detail information, such as		FCS
g_:		location, buyer, purchase date, number of		
		modules, number of port, serial number,		
		firmware version.		
		2-4. Management method, you can configure		
		device's SNMP community name, SNMP		
		v3 authentication and launch 3 rd parties		
		device management tool.		
	1.	Compile D-Link or 3 rd parties' MIB file into		
		D-View's database.		
	2.	If there's no management tool or management		
		module to manage 3 rd parties' device, the MIB		
MIB Complier/MIB Browser		files of 3 rd parties' devices need to be compiled		FCS
		into D-View first and then use MIB browser to		
		query the data or configure the data into		
		devices.		
	1	The utilities to configure the MIB information		
	2	The utilities include		
	2.	2.1 Device SNMP configuration		
		2.2. MIP II information and statistics		
		2-2. WIB II IIIOIIIation and statistics		
		2-3. IF Information table		
		2-4. Spanning tree mormation and port		
				500
MIB Utilities		2-5. Bridge 802.1d information and port		FCS
		configuration		
		2-6. RMON statistic, History and Event group		
		2-7. Transparent bridge, forwarding and static		
		filter, tables and port		
		2-8. Counter		
		2-9. 802.1p priority configuration		
		2-10. L3 utilities		
	3.	Manage all SNMP enabled Windows Servers		
	4.	Monitor the disk space usage, network load,		
Surveillance for Windows Server		memory usage		TBD
	5.	Set the notification level for disk space,		
		network load and memory usage		
Resource Management				
Device Locator	1.	Search device by IP address and pinpoint the		FCS
		Netmap where the device is.		
	1			1

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	1.	To display some statistics information of		
		devices.		
Davias Otatistics	2.	Supported information included:		500
Device Statistics		2-1. Vendor statistics		FCS
		2-2. The buyer statistics.		
		2-3. The purchase date statistics.		
	1.	Collect device's RMON information, and the		
		device need to enable RMON first before		
		performs the Performance Monitor.		
	2.	Performance Monitor contains 3 main reports,		
		the Error Ratio, Data Distribution and Port		
		Flow.		
	3.	Error Ratio includes		
		3-1. DropEvents		
		3-2. CRCAlignError		
		3-3. UndersizedPkt		
		3-4. OversizedPkt		
		3-5. Segments		
		3-6. Jabbers		
Performance Monitor		3-7. Collisions		FCS
	4.	Data Distribution includes		
		4-1. 0 ~ 64 Octets		
		4-2, 65 ~ 127 Octets		
		4-3, 128 ~ 255 Octets		
		4-4, 256 ~ 511 Octets		
		4-5, 512 ~ 1023 Octets		
		4-6, 1024 ~ 1518 Octets		
	5.	Port Flow includes		
		5-1. Octets		
		5-2. Packets		
		5-3 Broadcast Packets		
		5-4 Multicast Packets		
	1	Support essential information collection for the		
		devices which do not support RMON		
	2.	Collect the statistics information based on		
		REC1213		
		Contains 2 reports the Utilization and Packet		
	5.			
	1	litilization includes		
	ч.	4-1 Port utilization		
Port Packet Monitor		4-2 Port's In Octets		FCS
		4-3 Port's Out Octets		
	5	Packet Info includes		
	5.	5-1 In Unicast Packets		
		5-2 In Non-unicast Packate		
		5-2. In Non-unicasi Fackets 5-3 In Discards		
		5-3. In Distalus		
		5.5. In Linknown Port		
	1	J-J. III UHKHUWH PUIL	1	1



	5-6. Out Unicast Packets 5-7. Out Non-unicast Packets	
Reporting	 Only for D-View Professional Edition. Users can pick up the parameters which D-View will collect the data and display it on the report. It will display not only the real-time report but also historical data which is restored in the database. 	Future Release
Security Management		
Authentication	 Support local and Radius authentication modes when log on 	FCS
Differentiated User Access Control	1. When different users login D-View, the functions in the menu is enabled accordingly	FCS
SNMPv3 Security	 Support the SNMPv3 security functions such as 1-1. Packet encryption/decryption, 1-2. MPD (RFC 2572) 1-3. TARGET (RFC 2573) 1-4. USM (RFC 2574) 1-5. VACM (RFC 2575) 	FCS
System Management		
System Configuration	 Configure essential information of system such as management IP station, authentication configuration. 	FCS
Administrator Manager	 Manage the administrators, such as adding or removing users; create and delete the user group; configure the access right for each individual users 	FCS
Link Capacity Check	1. Checking the link speed and the connection relationship between two switches?	FCS
Device Type Check	1. Checking the device model type.	FCS
Safeguard Check	 Checking each switch if enable the Safeguard security feature or not? 	FCS
Trace Route	1. Trace route command	FCS