

### **ISCSI IP SAN STORAGE**



Quick Installation Guide+



# Quick Installation Guide DSN-6000 series

iSCSI IP SAN storage

## **Package Contents**

If any of the items are missing, please contact your reseller.





IP SAN storage

HDD trays



Power cords



RS-232 cables



GBIC transceiver and cable for DSN-6410/ 6420 only



CD



Rail kit



Keys, screws for drives and rail kit

# **Before installation**

Before starting, prepare the following items.

- 1. A host with a Gigabit Ethernet NIC or iSCSI HBA.
- 2. CAT 5e, or CAT 6 network cables for management port and iSCSI data ports.
- 3. Prepare storage system configuration plan.
- Prepare management port and iSCSI data ports network information. When using static IP, please prepare static IP addresses, subnet mask, and default gateway.
- 5. 10GbE switches (recommended). Or 10GbE switches with LCAP / Trunking (optional).
- 6. CHAP security information, including CHAP username and secret (optional).

## Install drives

Note : Skip this section if you purchased a solution populated with drives.

To install SAS or SATA drives with no Bridge Board use the front mounting holes:



To install SATA drives with Bridge Board (DSN-654), fit the Bridge Board first.



Then install the drive using the rear mounting holes:



#### Drive slot numbering

Slot 1	Slot 4	Slot 7	Slot 10
Slot 2	Slot 5	Slot 8	Slot 11
Slot 3	Slot 6	Slot 9	Slot 12

Hard drives can be installed into any slot in the enclosure. Slot numbering will be reflected in web UI.

Note: It is advisable to install at least one drive in slots 1 ~ 4. System event logs are saved to drives in these slots; If no drives are fitted the event logs will be lost in the event of a system reboot.

# Deployment

Please refer to the following topology and have all the connections ready.

- 1. Setup the hardware connection before powering on servers. Connect console cable, management port cable, and iSCSI data port cables in advance.
- 2. In addition, installing an iSNS server is recommended for dual controller system.
- 3. Power on IP SAN storage and JBOD (optional) first, and then power on hosts and iSNS server.
- To ensure MPIO is set-up automatically it is recommended that you log on the target twice (from controller 1 then controller 2).

Note: iSNS server is recommended for dual controller system.

#### DSN-6110: 1GbE to SAS/ SATA IP SAN storage, Single controller.



DSN-6110 with DSN-610: 1GbE to SAS/ SATA IP SAN storage, Dual redundant controller.



#### DSN-6410: 10GbE to SAS/ SATA IP SAN storage, Single controller.



DSN-6410 with DSN-640: 10GbE to SAS/ SATA IP SAN storage, Dual redundant controller.



### Configuration

#### 1.Web UI

The D-Link DSN-6000 family includes a simple to use Graphical User Interface (GUI) for integration and management. Be sure to connect the LAN cable, open a browser and enter:

http://192.168.0.32

A dialog box for authentication will pop up.

	Velcome to DSN-6000	
User name	admin	
Password	•••••	

User name: admin

Default password: 123456

After login, choose the functions that list on the left hand side to start your configuration.

#### 2.Quick installation

Please make sure that there are some free drives installed in this system. Please check the hard drive details in "/ Volume configuration / Physical disk".

Physica	d disk	RAID group	Virtual	disk Sn	apshot L	ogical unit							
how F	D for:	Local - 💌	show siz	e unit as:	(GB) 💌								
	Slot	Size(GB)	RG	Status	Health	Usage	Vendor	Serial	Туре	Write cache	Standby	Readahead	Command queuing
OP	1	465		Online	Good	Free disk	SEAGATE	9QMBKDVW00009941MZUJ	SAS	Enabled	Disabled	Enabled	Enabled
OP	2	465		Online	Good	Free disk	SEAGATE	9QMBHBL900099445BRN	SAS	Enabled	Disabled	Enabled	Enabled
OP	3	465		Online	Good	Free disk	SEAGATE	9QMBKE0P000099445B6Q	SAS	Enabled	Disabled	Enabled	Enabled
0P	4	465		Online	Good	Free disk	SEAGATE	9QMBKE4F000099445E36	SAS	Enabled	Disabled	Enabled	Enabled
OP	5	465		Online	Good	Free disk	SEAGATE	9QMBKE1R000099445E4T	SAS	Enabled	Disabled	Enabled	Enabled
OP	6	465		Online	Good	Free disk	SEAGATE	9QMBKDZF000099445E9B	SAS	Enabled	Disabled	Enabled	Enabled
0P	7	465		Online	Good	Free disk	SEAGATE	9QMBKDSV000099445BSS	SAS	Enabled	Disabled	Enabled	Enabled
OP	8	465		Online	Good	Free disk	SEAGATE	9QM4AF2G0009845WF8T	SAS	Enabled	Disabled	Enabled	Enabled

Step1: Click the "Quick installation"; follow the steps to set up system name and date / time. Step2: Confirm the management port and DNS IP addresses are correct, and click "Next".

Quick installation	
Step 1 : System setting	
System name	
System name : DSN-6000	
Date and time	
Change date and time	
Current time : 2010/12/28 15:27:14	
Time zone : (GMT+01:00) Brussels, Copenhagen, Madrid, Paris	v.,
<ul> <li>Setup date and time manually</li> </ul>	
Date: 2010 ~ / 12 ~ / 28 ~	
Time : 15 × ; 27 × ; 0 ×	
O NIP	
Server :	
Canoel	Next >>
Cancer	INCAL >>>



Step 2

Step 3: Set up the data port IP and click "Next".

Step 4: Set up the RAID level and volume size and click "Next".

Step 3

Step 4

Step 5: Check all items, and click "Finish".

Quick installation	
Confirm	
System name System name :DSN-6000	
Network setting Address :DHCP	
DNS :	
HTTP port :80, HTTPS port : 443, SSH port : 22	
SCSI IP address	
Address : 192.168.1.1	
Mask : 255.255.255.0 Gateway : 192.168.1.254	
Volume setting RAID level : RAID 0 on Local enclosure	
Volume size (GB) : 3724	
Cancel	<< Back Finish

Step 5

Step 6: Done.

#### 3.Logon Microsoft iSCSI initiator

Here are the step by step instructions to setup Microsoft iSCSI Initiator. Please visit Microsoft website for latest iSCSI initiator. This example is based on Microsoft Windows Server 2008 R2.

#### Connect

1.Run Microsoft iSCSI Initiator. 2.Input IP address or DNS name of the target. And then click "Quick Connect".

#### 3.Click "Done".



Quick Connec To discover a DNS name of	ivery   Favorite Targets   Vol. t ind log on to a target using a b the target and then click Quick	asic connection.		
Target:	192.168.1.1		[Qu	ck Connect
Discovered ta	irgets			Refresh
Name			Status	Retresh
click Connect To completely then click Disi For target pri select the tar	y disconnect a target, select th connect. operties, including configuratio get and click Properties.	e target and n of sessions,	!	Copnet
	ition of devices associated with id then click Devices. sik ISCSI connections and targ			Depites
		ок	Cancel	Acciv
rgets Disco Quick Connec	overy   Favorite Targets   Vol.	mes and Devices	RADIUS	Configuration
rgets Disco Quick Connec To discover a DNS name of	overy   Favorite Targets   Volu	mes and Devices	( RADIUS )	Configuration
rgets Disco Quick Connec To discover a DNS name of Target:	overy   Favorite Targets   Vol. t mol log on to a target using a b the target and then click Quid	mes and Devices	( RADIUS )	Configuration iddress or ck Connect
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argets Disco Quick Connec To discover a DNS name of Target: Discovered to Name	overy   Favorite Targets   Vol. t mol log on to a target using a b the target and then click Quid	asic connection,	type the IP a	Configuration iddress or ck Connect
Quick Connect To discover a DNS name of Target: Discovered te Name kgn.1986-06	Invery   Pavorite Targeta   Vok	imes and Devices and connection, is connect.	type the IP a	Configuration iddress or ck Connect
rgets Disco Quick Connec To discover a DNS name of Target: Discovered to Name kgn.1986-06 To connect u click Connect To connect u	Invery   Parontie Targeta  Vok	inters and Devices and connection, connection, i8:dev0.ctr1 a target and ther as target and ther	RADIUS type the IP a Col Status Inactive	Configuration   ddress or dk:Cornect Refresh Cornect Disconnect
rgets Discours To discours a Discours a Discourse at Discourse at Discoursed to Name Ign. 1986-06 To connect u dick Connect To completely then dick Dis For target pr select the tar	very   Revorte Targeta   Yok t  t t t t t t t t t t t t t t t t t	isteevoluting a target and there are target and target are	RADIUS type the IP a Col Status Inactive	Configuration   ddress or dk:Cornect Refresh

4. Your Computer can now connect to an iSCSI disk.

### Notes

### Notes

### Notes

D-Link's website contains the latest user documentation and software updates for D-Link products. U.S. and Canadian customers can contact D-Link Technical Support through our website or by phone.

### **United States**

(877) 354-6555 http://support.dlink.com

### Canada

(877) 354-6560 http://support.dlink.ca



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