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ENTERPRISE LEVEL STORAGE OS for EVERY BUSINESS

A Step-by-Step Guide to Synchronous Volume Replication (Block Based) over a LAN with Open-E® DSS V6



Easy to use, GUI based management provides performance and security.

Reliable disk based backup and recovery, along with Snapshot capability enable fast and reliable backup and restore.

Easy to implement remote Replication, at block or volume level, enables cost-effective disaster recovery.

IP based storage management combines NAS and iSCSI functionality for centralized storage and storage consolidation.

www.open-e.com

Software Version: DSS ver. 6.00 up50 Presentation updated: December 2010

	Replication Mode		Source/Destination			Data Transfer		Volume Type			
	SNOL	snou	em			sed	ised		iS	SI	
	nchroi	Inchro	// Syst	LAN	WAN	ile bas	ock ba	NAS	le-IO	ck-IO	FC
	Sy	Asy	5				BI		Fi	Blo	
Synchronous Volume Replication over a LAN	\checkmark							\checkmark			

• Volume Replication is a process of coping a source logical volume to a destination system.

• Volume replication provides maximal availability in case one of the systems or units fails.

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Recommended Resources

- Key Hardware (two systems)
 - ✓ x86 compatible,
 - ✓ RAID Controller,
 - ✓ HDD's,
 - ✓ Network Interface Cards.
- Software
 - ✓ Open-E DSS V6, 2 units.

Benefits

- Data Redundancy over a LAN,
- Enables continuous data access.

Disadvantages

- · High cost of solution,
- Natural disasters can destroy local systems.

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Data is written and read to System 1

• Data is continiously replicated to System 2



- In case of raid array error or disk drive error on the System 1, the server will send an e-mail notification to the administrator,
- In the case of a failure of system 1, users will be notified,
- Administrator then switches users to the System 2.



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• After switching, replicated volume is available on System 2



TO SET UP VOLUME REPLICATION, PERFORM THE FOLLOWING STEPS:

- 1. Configure Hardware
- 2. Configure the destination node
- 3. Configure the source node
- 4. Configure the replication task
- 5. Check the status of volume replication

Hardware Requirements

To run the Volume replication of Open-E DSS V6, a minimum of two systems are required. Both servers are working in the Local Area Network. An example configuration is shown below:

1. Configure Hardware





















open-e	Data Server (DSS1) Source node IP Address: 192.168.0.2	3S1) de 3. Configure the Source Node 2.168.0.220							
		Ореп-е ЕКТ	TERPRISE CLASS STORAGE OS for EVERY BUSINESS	DATA STORAGE SOFTWARE V6					
		SETUP CONFIGURATION	IAINTENANCE STATUS HELP						
	7	You are here: CONFIGURATION ▶ iSCSI target mar	ager ▶ Targets						
		Targets R	Create new target	() ()					
Under the "CONFIGURATI tab, select "iSCSI target manager" and Targets	ON″		▼ Target Default Name Name: Alias:	iqn.2010-11:dss1.target0 target0 apply					
iSCSI targets			Discovery CHAP user access	on					
In the Create new target function enter a name for the new target (as desired) in the Name field and click apply confirm.	he to	CHAP users ()		apply					
		Event Viewer: 🖂	Data Storano Software V6 - All rights recorded						

















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Thank you!

