



Qsan Document - White Paper

Unified Storage Backup Applications

Version 1.0
November 2014

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Introduction

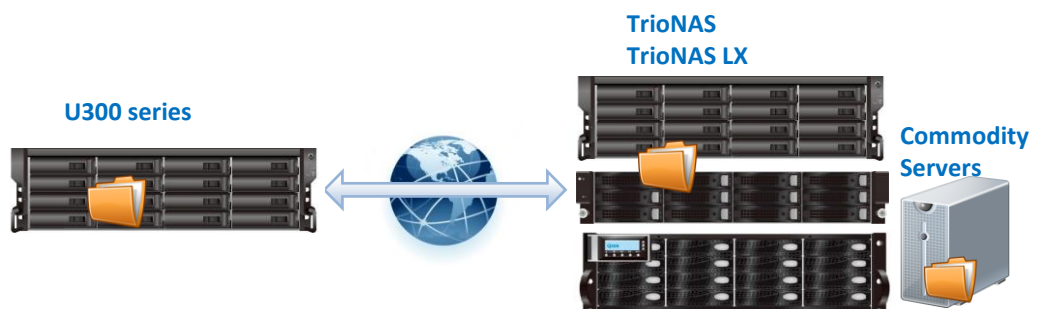
Backup is about creating data redundancy to provide data protection against data loss. In datacenters or SMB IT departments, backup is always the top priority on the list. How to do it efficiently and cost effectively means saving valuable time and money. When failure happens, what is the insurance plan to help enterprise quickly recover from downtime? It is also crucial to business survival. In this document, we will explain how U300 in TrioNAS LX series can help your enterprises do the backup job RIGHT.

Remote Replication

U300 series supports block-level remote replication. Its incremental backup at block-level uses copy-on-write snapshot technology. It is designed to backup both iSCSI volume and the file system volume. Instead of keeping the latest content, the remote copy can have version control because of using snapshot function. All replication tasks (up to 8 tasks, iSCSI LUN and file system volume) can run at the same time in parallel. Both end appliances on this remote replication task must be U300 machines or Qsan TrioNAS and TrioNAS LX series machines.



U300 series also supports Rsync function, which is the same Rsync function seen in most Linux-based servers. It is for file-level folder backup. You can use Rsync to backup files to another U300 machines or commodity servers that support Rsync function.



3rd Party Backup Application Support

There is no proprietary free backup tool created by Qsan. U300 series supports standard network protocols that will work with popular 3rd party backup tools such as Symantec, Commvault, Veeam, and Acronis.



Cloud Backup

U300 series integrates Amazon S3 API to support Cloud backup function. You can upload files to S3 server or download files from S3 server.



Snapshots

U300 series supports both file system snapshot and iSCSI volume snapshot. The maximum snapshot number is 4096 with file system and iSCSI volume combined. You can set schedule to a snapshot task. This makes your backup management easier to maintain and keep track of everything. Because the block-level differential data will be recorded, taking a snapshot is very efficient and will not impact system performance.

	Qsan U300 series
Snapshot for files, folders, and shares	👑 Yes
Snapshot for iSCSI/FC volume	👑 Yes
Max. Snapshot #	👑 4096

Summary

Data backup is the most common way of data protection by creating data duplication. No matter how you want to do backup, U300 can provide you enterprise-class backup solutions and satisfy all your needs every step of the way. U300 gives you all round protection against any form of data loss. Simplify backup management workflow and bring more efficiency. U300 series is your best choice to deploy backup solution for your enterprise.

Applies To

- TrioNAS LX U300: FW 1.4.0