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***SSIQ Backup Guide***

Windows 10 Enterprise 2016

Backup User Manual

2-14-19

***Introduction :***

Your SSIQ unit has a recovery partition that is included with the unit. This factory default image resides on a partition of the main system hard drive as the “R: Drive”. SSIQ units shipped after 6th March 2017, contain a restorable factory image.

It may be necessary that you create a new recovery after you have installed your unique applications and Windows configuration that you can restore back to. To assist you in the backup process Razberi has created a batch file that you can run to automate the backup process. This process uses Microsoft Volume Shadow Copy Service.

Please be aware that a system recovery image is specific to the machine, and hardware it was created on. Copying the recovery image to another Razberi ServerSwitch, even with the same hardware will not work. This is because system recovery contains a GUID which is specific to an algorithm which uses hardware serial numbers to generate that GUID. The same applies to the source of the recovery image, it cannot be copied to other hard drives to be restored later.

***Backup Process***

1. Download Backup and Recovery Toolset in which the backup script ssiq-recover.bat is contained. This is located at the [Razberi Support Website](https://www.razberi.net/support/razberi-support/)
2. Copy the ssiq-recover.bat file to the Desktop of Razberi ServerSwitchIQ machine you wish to backup.
3. Right click on ssiq-recover.bat file and run as an administrator, this process can take up to 20 minutes, to prepare the Recovery R: drive, and save a backup.
4. Once the backup process starts you will see a status %.
5. After it completes, the dialog box will close, and the machine now has an updated recovery on the R:/ drive.

**Advanced Process**

Note: If the backup of the C: Volume you are backing up is larger that the R: partition, it will not complete the backup and give an error that “there is not enough space” to complete the backup.

If this occurs, you have an option to change the backup destination to another partition on the system.

1. Edit the ssiq-recover.bat file and edit the following to your new destination.

Example: the highlighted drive letters are what you should change as your new destination.

**Contents of the ssiq-recover.bat file**

@echo off

rem removes all volume shadow copy references

rem deletes the current recovery volume to start clean

rem captures a new backup of the current system

vssadmin resize shadowstorage /for=r: /on=r: /maxsize=unbounded

echo Recovery|format r: /q /fs:ntfs /v:Recovery /y

wbadmin start backup -backuptarget:r: -include:c: -allcritical -quiet

**Example of an edited ssiq-recover.bat file to back up to the D: partition**

@echo off

rem removes all volume shadow copy references

rem deletes the current recovery volume to start clean

rem captures a new backup of the current system

vssadmin resize shadowstorage /for=d: /on=d: /maxsize=unbounded

echo Recovery|format d: /q /fs:ntfs /v:Recovery /y

wbadmin start backup -backuptarget:d: -include:c: -allcritical -quiet

**Complete the edit and Save the file with a new name, like ssiq-recover-d.bat**

Once saved,

1. Right click on ssiq-recover.bat file and run as an administrator, this process can take up to 20 minutes to prepare the drive,and save a backup.
2. Once the backup process starts you will see a status %.
3. After it completes, the dialog box will close, and the machine has an updated recovery on the drive partition that you designated.