ISONAS™
SECURITY SYSTEMS

Knowledge Base Article

Running the ISONAS Crystal Matrix Access Control Software from multiple workstations.

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Document Version
(KBA0090MultipleWorkstations.Doc)

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09/25/2008	**1.0**	**Shirl Jones**	**Initial Release**

1: INTRODUCTION

Several standard Windows techniques can be used to allow the users to access the ISONAS software from multiple workstations when monitoring and configuring the ISONAS Access system. This document details those options.

1.1: HIGH-LEVEL DESCRIPTION OF THE TASK:

The “best business practice” for the ISONAS system is to have the Crystal Matrix software installed on a single Windows-based system (host system), and configure any other system(s) (client system) to use the application that resides on the host system.

Mapping a common network drive is one common way to accomplish this.

The steps required to allow this host/client functionality to be supported include:

1. Configure the host system to allow the area of its disk drive where the ISONAS software resides to be “Shared”.

2. Configuring the client system to treat the host’s shared disk drive as a local disk drive on the client system (mapping a drive)

3. Create a set of window(s) shortcuts to properly run the ISONAS application(s), from the mapped drive.

Since this process is using standard Windows techniques, there are many places where examples of these techniques can be found. Some locations are software manuals, Window’s help screens, and certain web sites. At the end of this document are a few links to web sites that expand on these techniques.

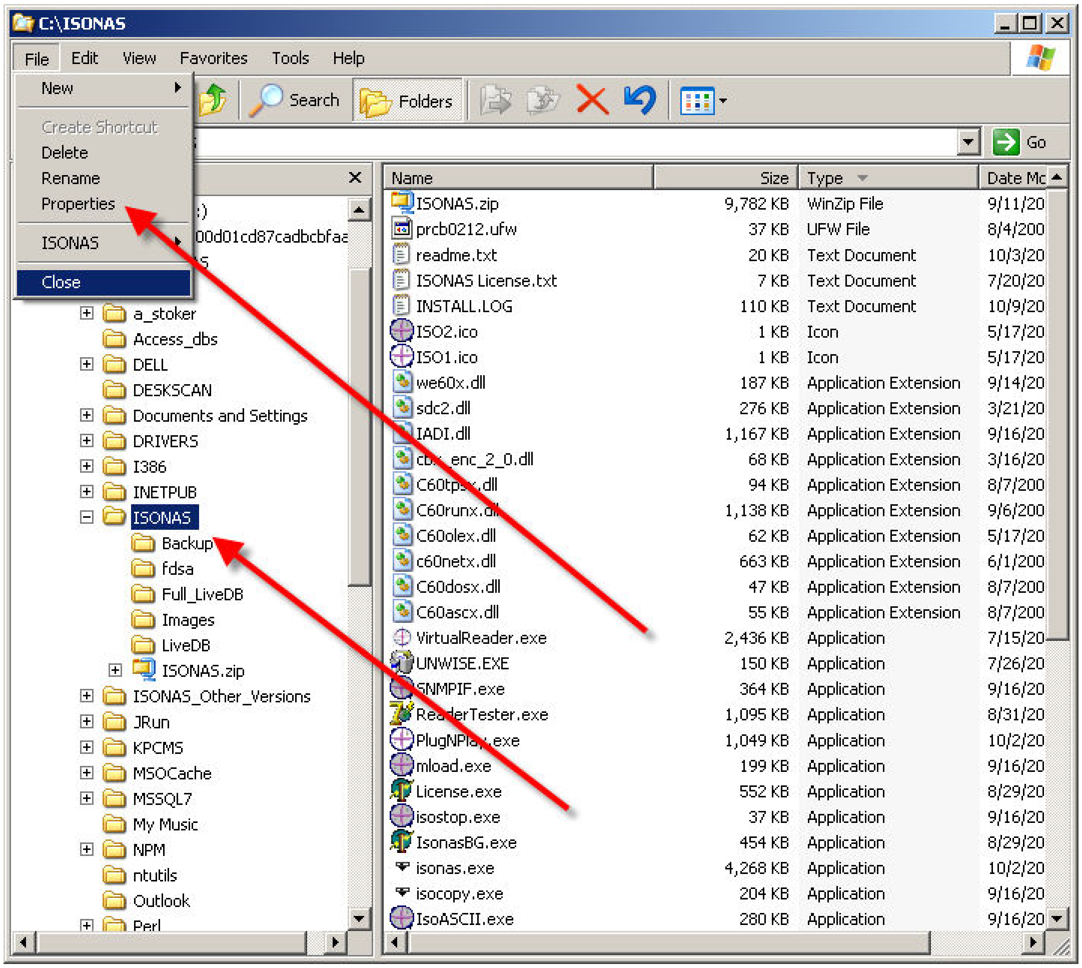
Like most actions within Windows, there are multiple methods available to achieve the result. These examples will demonstrate one method, on a system running Window XP Pro.

2: DRIVE MAPPING PROCEDURE STEPS:

2.1: SHARING THE HOST SYSTEM'S DISK DRIVE:

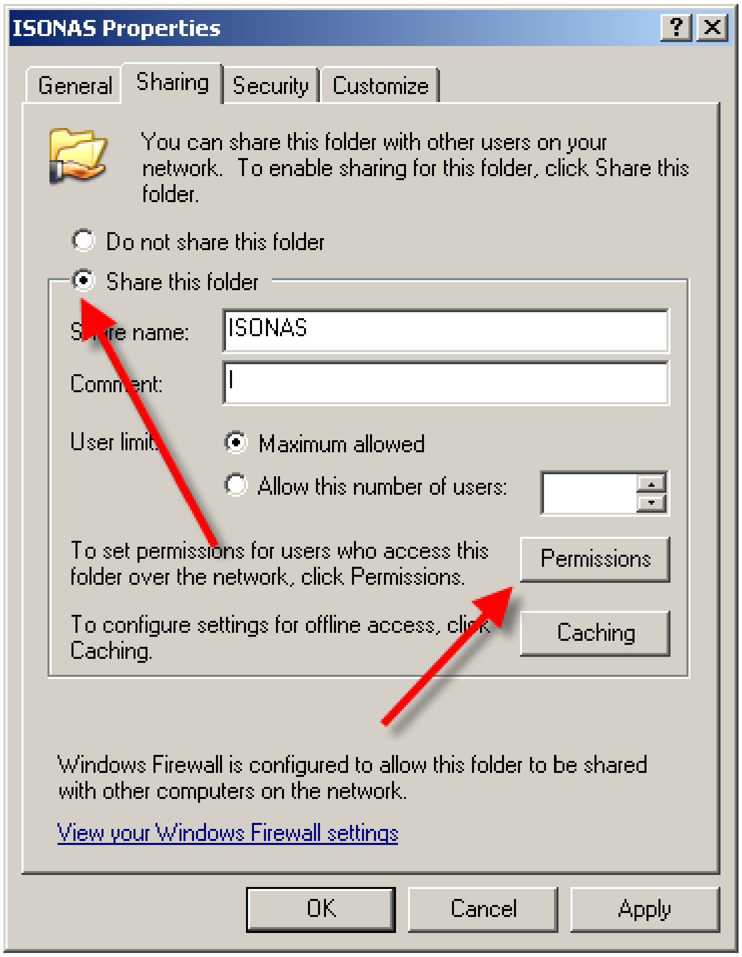
On the Host machine, using Window's File Explorer:

> Select the folder where the ISONAS software resides
> (Default location is: C:\Program Files\ISONAS)
>
> From the Menu, access that folder's properties



Name	Size	Type	Date Mc
ISONAS.zip	9,782 KB	WinZip File	9/11/20
prcb0212.ufw	37 KB	UFW File	8/4/200
readme.txt	20 KB	Text Document	10/3/20
ISONAS License.txt	7 KB	Text Document	7/20/20
INSTALL.LOG	110 KB	Text Document	10/9/20
ISO2.ico	1 KB	Icon	5/17/20
ISO1.ico	1 KB	Icon	5/17/20
we60x.dll	187 KB	Application Extension	9/14/20
sdc2.dll	276 KB	Application Extension	3/21/20
IADI.dll	1,167 KB	Application Extension	9/16/20
cbx_enc_2_0.dll	68 KB	Application Extension	3/16/20
C60tpsx.dll	94 KB	Application Extension	8/7/200
C60runx.dll	1,138 KB	Application Extension	9/6/200
C60olex.dll	62 KB	Application Extension	5/17/20
c60netx.dll	663 KB	Application Extension	6/1/200
C60dosx.dll	47 KB	Application Extension	8/7/200
C60ascx.dll	55 KB	Application Extension	8/7/200
VirtualReader.exe	2,436 KB	Application	7/15/20
UNWISE.EXE	150 KB	Application	7/26/20
SNMPIF.exe	364 KB	Application	9/16/20
ReaderTester.exe	1,095 KB	Application	8/31/20
PlugNPlay.exe	1,049 KB	Application	10/2/20
mload.exe	199 KB	Application	9/16/20
License.exe	552 KB	Application	8/29/20
isostop.exe	37 KB	Application	9/16/20
IsonasBG.exe	454 KB	Application	8/29/20
isonas.exe	4,268 KB	Application	10/2/20
isocopy.exe	204 KB	Application	9/16/20
IsoASCII.exe	280 KB	Application	9/16/20

When the window appears, select the “Sharing” tab



You can share this folder with other users on your network. To enable sharing for this folder, click Share this folder.

○ Do not share this folder

● Share this folder

Share name: ISONAS

Comment:

User limit: ● Maximum allowed

○ Allow this number of users:

To set permissions for users who access this folder over the network, click Permissions.

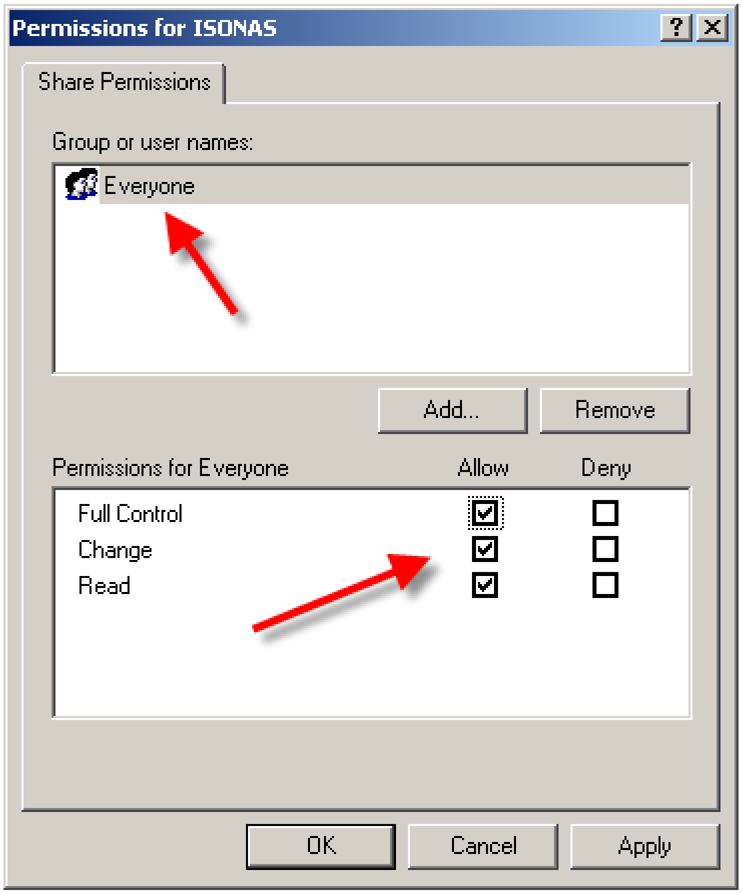
To configure settings for offline access, click Caching.

Windows Firewall is configured to allow this folder to be shared with other computers on the network.

Check the Share this folder.
Optionally, update the Share Name and Comment fields.

You may need to work with your network administrator to configure your Network’s Firewalll to allow this sharing

Click the Permissions button, the following window appears:



Group or user names:

Everyone

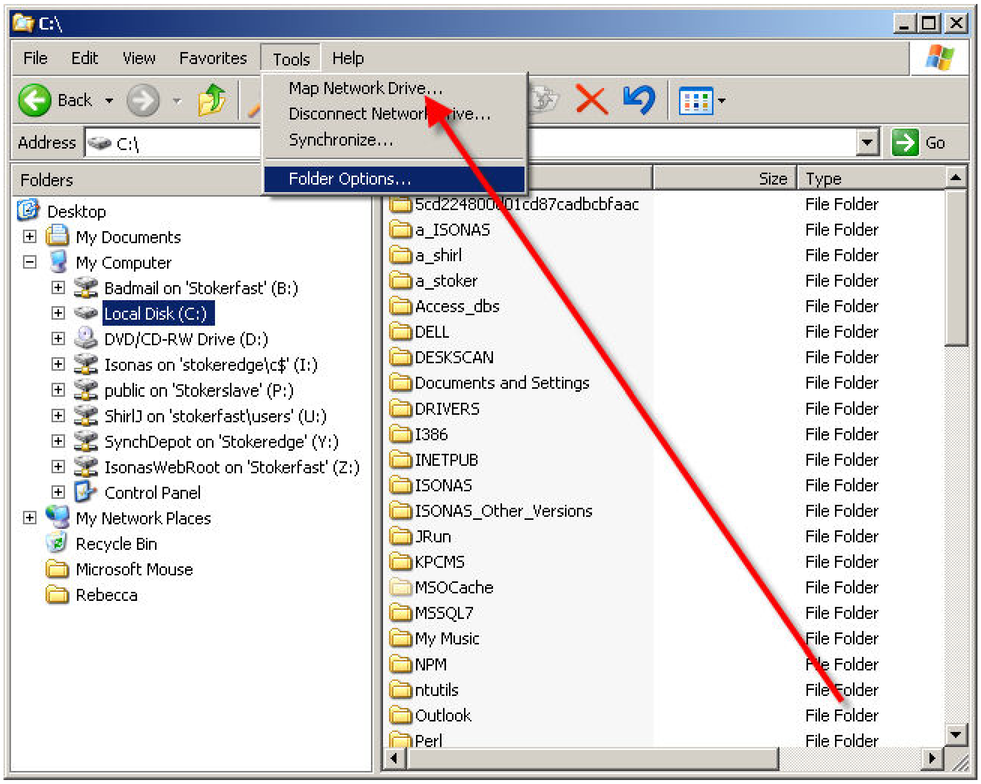
Permissions for Everyone	Allow	Deny
Full Control	☑	□
Change	☑	□
Read	☑	□

Determine who should have access to the ISONAS system and select the Groups and/or users that define the people who will be allowed access to this drive.

Allow Full Control for the selected personnel.

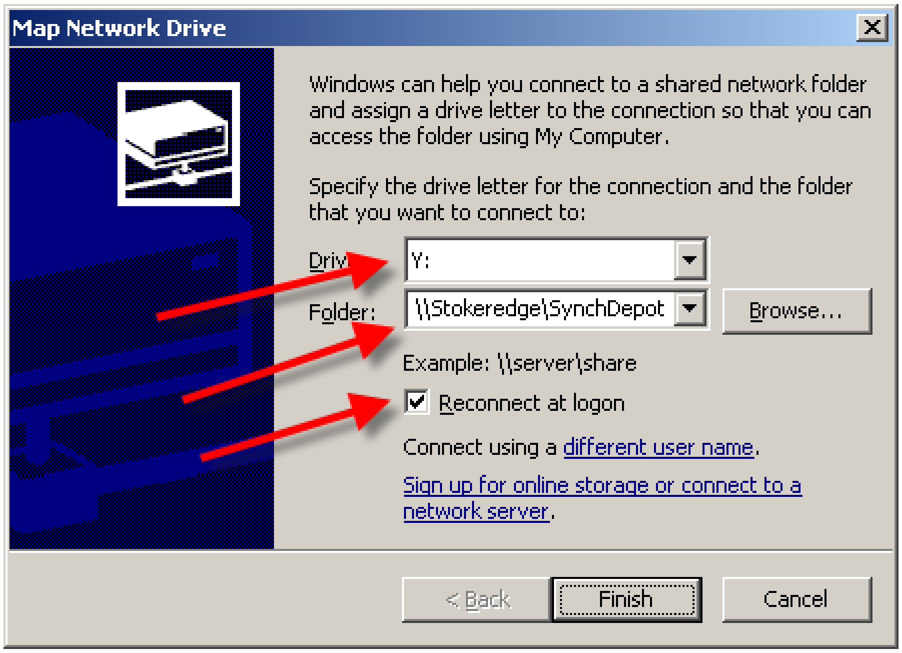
2.2: MAPPING TO THE SHARED DISK DRIVE:

On the client system, using Window’s File Explorer, select the Map Network Drive option



	Size	Type
5cd224800d01cd87cadbcbfaac		File Folder
a_ISONAS		File Folder
a_shirl		File Folder
a_stoker		File Folder
Access_dbs		File Folder
DELL		File Folder
DESKSCAN		File Folder
Documents and Settings		File Folder
DRIVERS		File Folder
I386		File Folder
INETPUB		File Folder
ISONAS		File Folder
ISONAS_Other_Versions		File Folder
JRun		File Folder
KPCMS		File Folder
MSOCache		File Folder
MSSQL7		File Folder
My Music		File Folder
NPM		File Folder
ntutils		File Folder
Outlook		File Folder
Perl		File Folder

When the window appears, fill in the items requested



Map Network Drive

Windows can help you connect to a shared network folder and assign a drive letter to the connection so that you can access the folder using My Computer.

Specify the drive letter for the connection and the folder that you want to connect to:

Drive: Y:

Folder: \\Stokeredge\SynchDepot

Example: \\server\share

☑ Reconnect at logon

Connect using a different user name.

Sign up for online storage or connect to a network server.

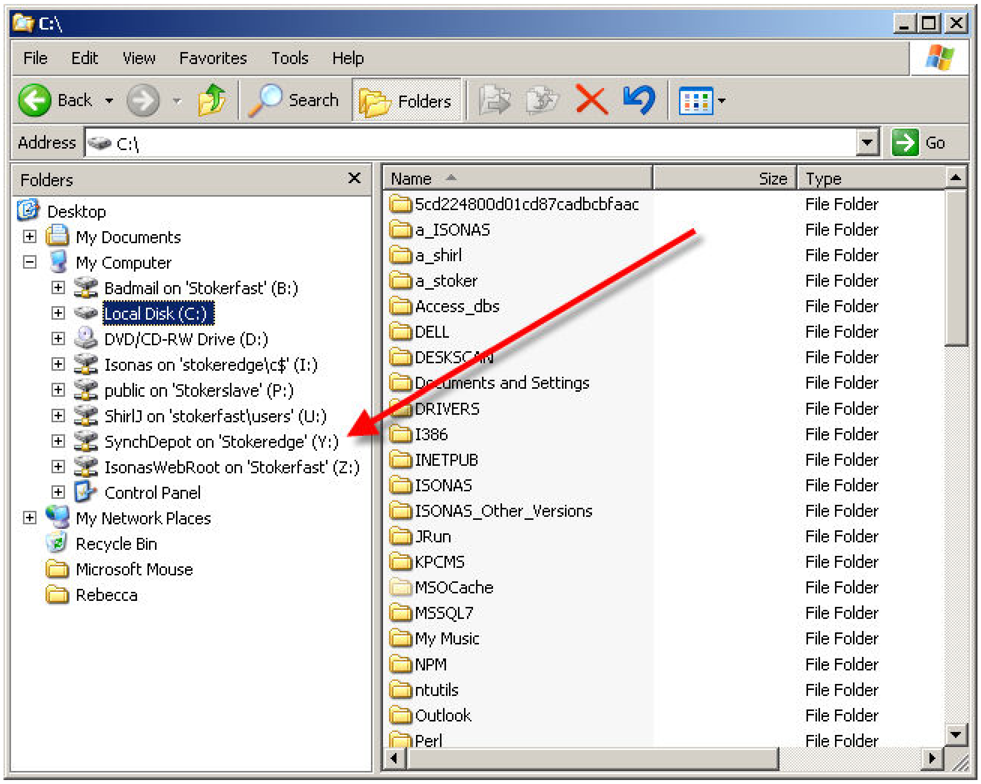
Select a Letter that will become the designator for the mapped drives. If multiple client systems are being configured to access the ISONAS software, selecting the same letter on each system will reduce confusion in the future.

Specify the shared location on the Host system. This can be either typed in, or you may use the “browse” button to search for the folder.

If this configuration is to be permanent, then assure the checkbox “Reconnect at logon” has been checked.

When the “Finish” button is selected, the drive is mapped, and you are returned to Window’s File Explorer

Verify in File Explorer that the drive has been mapped to the proper letter.



Address C:\

- Desktop
  - My Documents
  - My Computer
    - Badmail on 'Stokerfast' (B:)
    - Local Disk (C:)
    - DVD/CD-RW Drive (D:)
    - Isonas on 'stokeredge\c$' (I:)
    - public on 'Stokerslave' (P:)
    - ShirlJ on 'stokerfast\users' (U:)
    - SynchDepot on 'Stokeredge' (Y:)
    - IsonasWebRoot on 'Stokerfast' (Z:)
    - Control Panel
  - My Network Places
  - Recycle Bin
  - Microsoft Mouse
  - Rebecca

Name	Size	Type
5cd224800d01cd87cadbcbfaac		File Folder
a_ISONAS		File Folder
a_shirl		File Folder
a_stoker		File Folder
Access_dbs		File Folder
DELL		File Folder
DESKSCAN		File Folder
Documents and Settings		File Folder
DRIVERS		File Folder
I386		File Folder
INETPUB		File Folder
ISONAS		File Folder
ISONAS_Other_Versions		File Folder
JRun		File Folder
KPCMS		File Folder
MSOCache		File Folder
MSSQL7		File Folder
My Music		File Folder
NPM		File Folder
ntutils		File Folder
Outlook		File Folder
Perl		File Folder

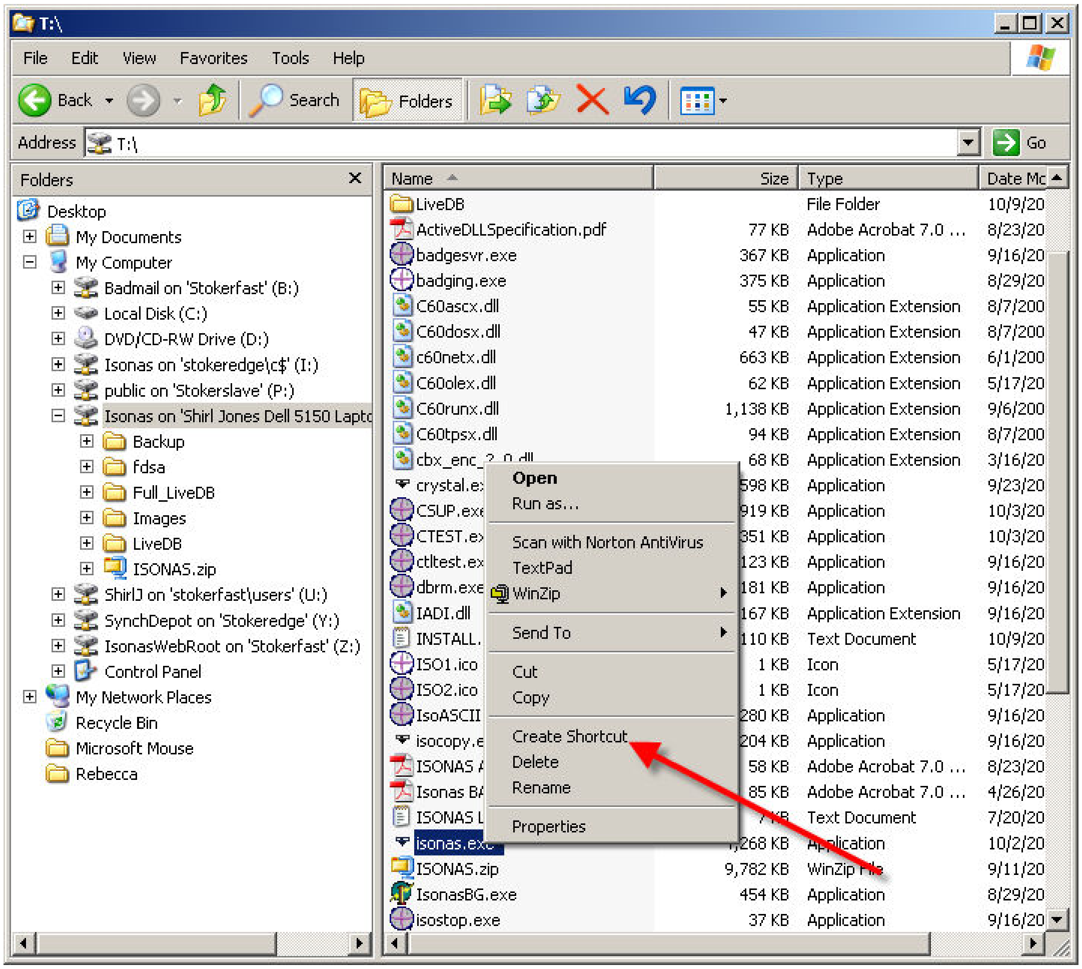
2.3: CREATING THE REQUIRED SHORTCUTS:

There are two applications that typically are run from client system
The Administrator application runs the program "isonas.exe"
The Monitor application runs the program "crystal.exe"

On the client system, using Window's File Explorer, select the drive that has been mapped.

In the folder where the ISONAS software resides, select the program that matches the application desired (Example will create a shortcut for the Administrator application).

Right-click on the program desires, and select “Create a Shortcut” option

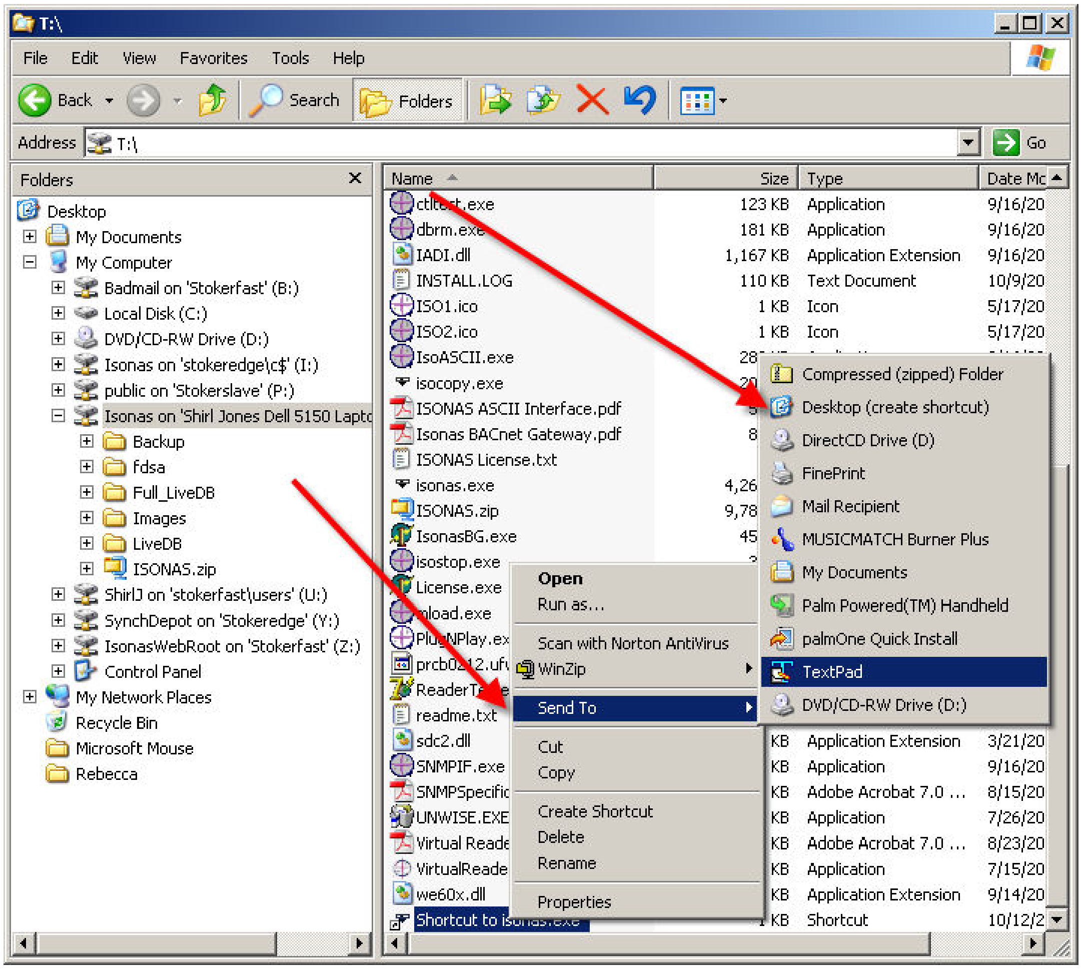


Name	Size	Type	Date Mc
LiveDB		File Folder	10/9/20
ActiveDLLSpecification.pdf	77 KB	Adobe Acrobat 7.0 ...	8/23/20
badgesvr.exe	367 KB	Application	9/16/20
badging.exe	375 KB	Application	8/29/20
C60ascx.dll	55 KB	Application Extension	8/7/200
C60dosx.dll	47 KB	Application Extension	8/7/200
c60netx.dll	663 KB	Application Extension	6/1/200
C60olex.dll	62 KB	Application Extension	5/17/20
C60runx.dll	1,138 KB	Application Extension	9/6/200
C60tpsx.dll	94 KB	Application Extension	8/7/200
cbx_enc_2_0.dll	68 KB	Application Extension	3/16/20
crystal.ex	598 KB	Application	9/23/20
CSUP.exe	919 KB	Application	10/3/20
CTEST.ex	351 KB	Application	10/3/20
ctltest.ex	123 KB	Application	9/16/20
dbrm.exe	181 KB	Application	9/16/20
IADI.dll	167 KB	Application Extension	9/16/20
INSTALL.	110 KB	Text Document	10/9/20
ISO1.ico	1 KB	Icon	5/17/20
ISO2.ico	1 KB	Icon	5/17/20
IsoASCII	280 KB	Application	9/16/20
isocopy.e	204 KB	Application	9/16/20
ISONAS A	58 KB	Adobe Acrobat 7.0 ...	8/23/20
Isonas BA	85 KB	Adobe Acrobat 7.0 ...	4/26/20
ISONAS L	7 KB	Text Document	7/20/20
isonas.exe	1,268 KB	Application	10/2/20
ISONAS.zip	9,782 KB	WinZip File	9/11/20
IsonasBG.exe	454 KB	Application	8/29/20
isostop.exe	37 KB	Application	9/16/20

Right-click on the shortcut that was just created.

Select "Send to"

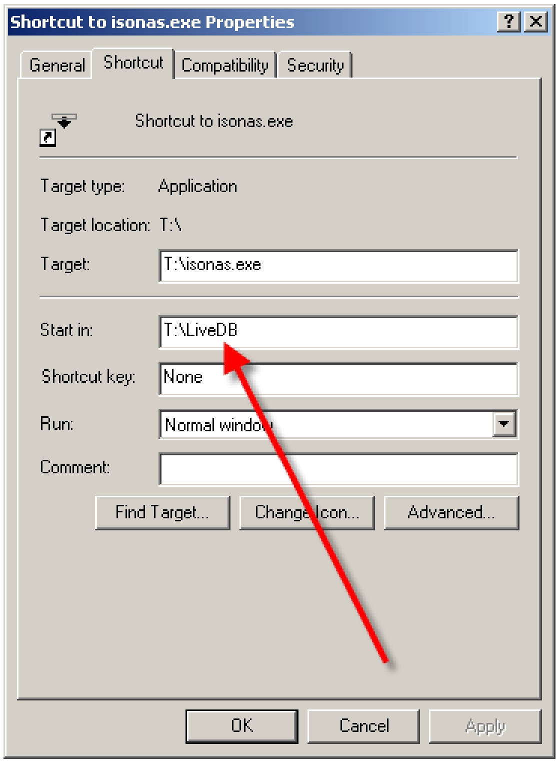
Select DeskTop


T:\
File Edit View Favorites Tools Help
Back Search Folders
Address T:\
Go
Folders
Desktop
My Documents
My Computer
Badmail on 'Stokerfast' (B:)
Local Disk (C:)
DVD/CD-RW Drive (D:)
Isonas on 'stokeredge\c$' (I:)
public on 'Stokerslave' (P:)
Isonas on 'Shirl Jones Dell 5150 Lapto
Backup
fdsa
Full_LiveDB
Images
LiveDB
ISONAS.zip
ShirlJ on 'stokerfast\users' (U:)
SynchDepot on 'Stokeredge' (Y:)
IsonasWebRoot on 'Stokerfast' (Z:)
Control Panel
My Network Places
Recycle Bin
Microsoft Mouse
Rebecca
Name
Size
Type
Date Mo
ctltest.exe 123 KB Application 9/16/20
dbrm.exe 181 KB Application 9/16/20
IADI.dll 1,167 KB Application Extension 9/16/20
INSTALL.LOG 110 KB Text Document 10/9/20
ISO1.ico 1 KB Icon 5/17/20
ISO2.ico 1 KB Icon 5/17/20
IsoASCII.exe
isocopy.exe
ISONAS ASCII Interface.pdf
Isonas BACnet Gateway.pdf
ISONAS License.txt
isonas.exe
ISONAS.zip
IsonasBG.exe
isostop.exe
License.exe
mload.exe
PlugNPlay.exe
prcb0212.ufu
ReaderTe
readme.txt
sdc2.dll KB Application Extension 3/21/20
SNMPIF.exe KB Application 9/16/20
SNMPSpecific KB Adobe Acrobat 7.0 ... 8/15/20
UNWISE.EXE KB Application 7/26/20
Virtual Reade KB Adobe Acrobat 7.0 ... 8/23/20
VirtualReade KB Application 7/15/20
we60x.dll KB Application Extension 9/14/20
Shortcut to isonas.exe 1 KB Shortcut 10/12/2
Open
Run as...
Scan with Norton AntiVirus
WinZip
Send To
Cut
Copy
Create Shortcut
Delete
Rename
Properties
Compressed (zipped) Folder
Desktop (create shortcut)
DirectCD Drive (D)
FinePrint
Mail Recipient
MUSICMATCH Burner Plus
My Documents
Palm Powered(TM) Handheld
palmOne Quick Install
TextPad
DVD/CD-RW Drive (D:)

Minimize all windows, so you can see the client's desktop

Right-click on the short-cut that was just created.
Select Properties

Modify the "Start in" to be the LiveDB folder that is one level below the folder where the isonas.exe program resides. This step is required for both the isonas.exe (Admin) and crystal.exe (Monitor) applications.



Shortcut to isonas.exe Properties

Shortcut to isonas.exe

Target type: Application

Target location: T:\

Target: T:\isonas.exe

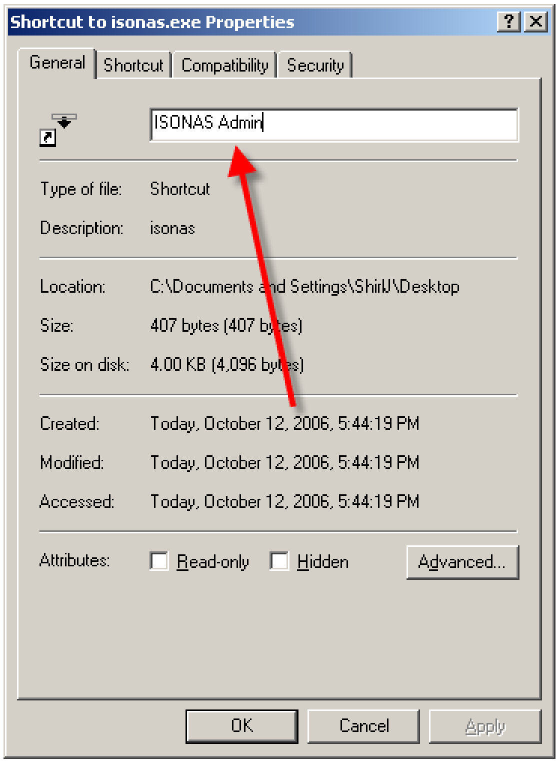
Start in: T:\LiveDB

Shortcut key: None

Run: Normal window

Comment:

In the General Tab, the name of the shortcut can be modified to be more meaningful



ISONAS Admin

Type of file: Shortcut

Description: isonas

Location: C:\Documents and Settings\ShirlJ\Desktop

Size: 407 bytes (407 bytes)

Size on disk: 4.00 KB (4,096 bytes)

Created: Today, October 12, 2006, 5:44:19 PM

Modified: Today, October 12, 2006, 5:44:19 PM

Accessed: Today, October 12, 2006, 5:44:19 PM

Attributes: □ Read-only □ Hidden

3: WEB SITE REFERENCES:

The drive mapping techniques just described are commonly used, and widely described on the Internet. Here are a few web-sites that discuss this topic.

Web Sites with related information:
http://compnetworking.about.com/od/windowsxpnetworking/ht/mapnetworkdrive.htm

http://www.thinkcp.com/techsupport/MapANetworkDrive.asp

http://www.smartcomputing.com/editorial/article.asp?article=articles/archive/l0508/54l08/54l08.asp

http://www.dummies.com/WileyCDA/DummiesArticle/id-358.html

These sites were located by running a search on www.google.com for “Mapping a drive”.

4: ALTERNATIVE TECHNIQUES AVAILABLE:

4.1: USING REMOTE DESKTOP:

Another technique that is recommended for executing the ISONAS administrative and monitoring programs is the use of the "REMOTE DESKTOP" facility that is part of the standard Window Server Software.

This has the advantage of not requiring any drive mapping as described in the earlier discussion. It reduces network traffic because the program's execution occurs on the server and only screen display information is sent to the client workstation.

One downside to this technique is the high level of control that the user has over the server itself. It may not be acceptable because of security issues because the user is effectively running on the server itself.

4.2: USING COMMERICAL REMOTE CONTROL SOFTWARE:

In addition, there are a large number of commercially available tools that may be used to remotely access the ISONAS software.

For examples see the products described at the following websites

www.webex.com
www.GoToMyPC.com
www.Bomgar.com/trial
www.LogMeIn.com
www.VedIvi.com
www.NetViewer.com
www.z2software.com
www.dameware.com
www.symantec.com (PCAnywhere)

For more information:

Web: www.isonas.com **E-mail:** sales@isonas.com

Tel: 800-581-0083 x102 (toll-free) or 303-567-6516 x102 (CO)

Fax: 303-567-6991

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