Verifying



Summary

Basic verification tests that cover a single-server installation of Tachyon Server. These tests should be run in series. They start with basic server checks, then testing agents, and finally using the Verification instructions from the 1E-TachyonPlatform product pack to do end-to-end tests that confirm all components are working. Depending on the decisions you have made during the design phase of your implementation you may need additional tests to verify your Tachyon implementation.



Please ensure you complete all verification tests. They not only confirm your system is operational, but they also introduce you to concepts and tasks that you will use later when using Tachyon.

On this page:

- Verify Tachyon Server installation
- Verify IIS security of the Tachyon web site
- Verify user rights assignment Verify Tachyon Agent installation
- Verify Tachyon client-server communications (stage 1 and 2 instructions)
- Verify extended features

To run these tests you need:

- 1. Tachyon Server installed
- 2. Remote workstation with a supported browser
- 3. The name and password for the server installation account
 - a. the AD account must be enabled
 - b. the account may already be assigned to other Tachyon roles either directly or via membership of an AD group role.
- 4. Two AD User accounts, Test User 1 and 2
 - a. must not be existing Tachyon users because they will be assigned specific roles for the purpose of these tests.
 - b. must have email addresses and be able to read emails.
- 5. The 1E-TachyonPlatform.zip product pack file containing the Verification instructions, if not already installed. In these tests this file is referred to as the 1E-TachyonPlatform product pack.
- 6. At least one test device on which the Tachyon Agent will be installed
- 7. Tachyon Agent installation source files and configuration details required by your Tachyon implementation

Verify Tachyon Server installation

- 1. Tachyon Server installed
- 2. The name and password for the server installation account, the account must also be enabled

Ref	Test	Expected	Remediation
TCN I01	Logon to the Tachyon Server using the server installation account Confirm 1E Tachyon Server is listed in Apps //Programs and Features Confirm Tachyon's Windows services are running.	Apps/Programs and Features displays 1E Tachyon Server with correct 3 part version number. If an MSP update has been installed, the Installed Updates displays 1E Tachyon Server Update (Qnnnnn). The following Windows services exist and are running. • 1E Catalog Update Service (Automatic) (Service account) • 1E SLA Platform Engine (Automatic Delayed start) (Network Service) • 1E SLA Platform Integrate Agent (Automatic Delayed start) (Network Service) • 1E SLA Platform Integrate Manager (Automatic Delayed start) (Network Service) • 1E Tachyon Coordinator (Automatic Delayed start) (Network Service) • 1E Tachyon Switch Host (Automatic Delayed start) (Local Service)	If any of the services are not running, then check the corresponding log(s). The Switch Host service will stop after several seconds if it is unable to start any Switches. The ConsumerAPI log is not created until a user (the server installation account) successfully connects to the Tachyon Portal. The BackgroundAPI log is not created until an Agent attempts to download an Agent resource. The 1E-TachyonPlatform product pack can be used to trigger this.
TCN I02	Check the Tachyon Server logs.	The default location for all Tachyon logs is the folder <code>%ALLUSERSPROFILE%\left(left)</code>	

Subsystem Component			
	Tachyon Portal UI and applications (Tachyon)	1E\Tachyo n\	Tachyon.Portal.log
Tb	Consumer API	1E\Tachyo n\	Tachyon. ConsumerAPI.log
Tachyon Master	Coordinator service	1E\Tachyo n\	Tachyon. Coordinator.log Tachyon. Instrumentation. log
	Catalog UI (CatalogWeb - Admin sync)	1E\Catalog\	Catalog. Integration.UI.log
	Catalog API		
Catalog	Catalog Update Service	1E\Catalog\	Catalog. UpdateService.log
	Catalog database	1E\Databas eUpgrade\	1E. DatabaseUpgrade. Console.exe.log
	SLA/Platform APIs (Admin, Core External)	1E\Tachyo n\	Tachyon.AdminAPI.
		1E\SLA Platform\	WebExternal.log
	SLA Platform UI (Platform)	1E\SLA Platform\	Web.log
	Engine	1E\SLA Platform\	Engine.log
SLA	Integrate Services (Connector Manager)	1E\SLA Platform\	1E. SLAPlatformIntegra teAgent.log 1E. SLAPlatformIntegra teManager.log 1E.SLAConnector. <type>_sync.log</type>
	Inventory	n/a	
	Operations Provider	1E\Platform Consumer\	customAction.log
	SLA databases (Data, Integrate, Shared)	n/a	
ВІ	MDX API	SQL database	[SLA-BI].[BI].[Event Log]
	Core (Core and Core Internal)	1E\Tachyo n\	Tachyon.CoreAPI.
Tachyon	Background Channel (Background)	1E\Tachyo n\	Tachyon. BackgroundAPI.log
Response	Switch(es) (also includes a single Switch Host service)	1E\Tachyo n\	Tachyon.Switch_A. log Tachyon.Switch. Host.log

Please refer to Services and NTFS Security if changing the location of log files.

In this version of Tachyon Server, some installers do not support the LOGPATH property and the logs folder is not configurable during installation.

Each component has a configuration file in the Tachyon Server installation folder structure, which contains log configuration details. Defaults are:

- \bullet Filepath <code>%ALLUSERSPROFILE%\1E\<product>\</code> where product is Tachyon, SLA Platform, and Catalog
- Filename as shown in the table above.
- Maximum size 10MB (2MB for Switch logs).
- 2 rollover files numbered 1 to 2 with the rollover number included as n.log (5 rollover files for Switch logs).
 Date and timestamps are UTC to help troubleshooters synchronise logs on
- systems in different timezones.

Switch logs have the following names:

• The first Switch installed will typically have a log filename Tachyon. Switch_A.log

• Other Switches on the same server will have different letters appended. The letter is derived from the ID in the SwitchConfiguration table, where the letter is modulo 26 of the ID minus 1, for example ID=2 is A and ID=6 is E.

• The log filename will be unique on a server, but there may be the same named log on a different server.

• A Switch will continue to use the same log, unless the SwitchConfiguration table is modified so that a different ID is used.

• If you see a Tachyon. Switch.log without a letter appended, this is a special case where a Switch cannot find its correct configuration, and has fallen back to using the template * row which has ID=1. In which case you will need to troubleshoot how that happened.

• Rollover logs have numbers appended, for example Tachyon.Switch_A.1. log, up to a default maximum of 5.

Tachyon server components use the log4net RollingFileAppender class. Details can be found in http://logging.apache.org/log4net.

Verify IIS security of the Tachyon web site

- 1. Tachyon Server installed
- 2. The name and password for the server installation account, the account must also be enabled
- 3. Remote workstation with a supported browser using a remote workstation is important because you will get different results if using a local browser,

R	Test	Expected	Remediation
ef			

Т Successful connection to the Tachyon Start a s Portal showing the following applications: С upported Ν web Explorer browser **Guaranteed State** П on a **Patch Success** 03 workstati Settings on (not the The ability to open Tachyon applications Tachyon and navigate around them will depend on Server) which Tachyon roles have been assigned Connect to the logged-on account. to the Tachyon For a new installation, the server Portal installation account is only able to open using: the Settings application and view the ser following pages: ins Instruction sets tall Permissions Consumers ati Admin log on · License info acc ou nt UR for exa mpl e h ttps ://ta chy on. ac me loc al /Ta chy on Т The web browser will respond with the Change version number of the Tachyon Platform С the web (IE will download as a JSON file, other Ν browser browsers will display a response in XML URL from 04 /Tachyon Confirm the Version number is as to /Cons expected. umer Т The web browser will respond with the Change version number of the SLA Platform (IE C the web will download as a JSON file, other Ν browser browsers will display a response in XML URL format). from 05 /Tachyon Confirm the Version number is as to /Admin expected. Т The web browser will respond with You Change have reached Tachyon background C the web API. (IE will download as a JSON file, Ν browser other browsers will display a response in URL XML format). from 06 /Tachyon to /Back around The expected response is Server Error Т Change 403 - Forbidden: Access is denied. C the web Ν browser For security reasons, access to the these URL web applications are allowed for local

from

/Tachvon

to /Core

07

users and services only, and denied to

If the response is **You have reached Tachyon Core API** then there is an issue with IIS configuration. Or, you are using a browser on the actual Tachyon Server.

remote devices.

Ensure the **server installation account** is enabled to do this test. It has the necessary rights to access Tachyon as well as NTFS rights on the Tachyon Server.



401 'Unauthorized'

Typically, the website also prompts you to provide an account and password.

This may occur if you are using invalid credentials or an account in a domain that is not trusted by the Tachyon Server.



403 'Access denied'

When you use a browser to open an application in the Tachyon Portal, you will see **Ser ver Error 403 - Forbidden: 'Access denied'** if your AD account does not have read access to the Tachyon web application folders. This can happen if Tachyon is installed in a non-default location and the NTFS permissions on the installation folder are not correct. To remedy the issue, you should review and correct NTFS permissions as described in Services and NTFS Security.



404 'File or directory not found'

Is the URL you entered correct, and have the correct spelling?

Is the corresponding web application installed? For example, the Registration Service may not be installed.



Contact system administrator to get access

When you use a browser to open an application in the Tachyon Portal and you see a message **Unauthorized access**, it means your AD account is not a Tachyon user.

Try using an AD account that you know is a Tachyon user that is assigned to a Tachyon system role or custom role. For example, use the **server installation account** which is automatically installed as a Tachyon user.

For a new installation, the **server installation account** must be used to add other Tachyon users before their AD accounts can be used to access Tachyon applications. This process is described in the Users page and the Roles page. It is used in the following TCNU verification tests.



Access Allowed

It should not be possible for a remote web browser to have access to the following web applications:

- /Core
- /CoreInternal

T C N I	Change the web browser URL from /Tachyon to /Corel nternal	and should do the test on a remote workstation.	If access is possible then it is probable that the IIS role feature IP Address and Domain Restrictions is not installed on the Tachyon Server. This version of the Tachyon Server installer does not check for this prerequisite. You must ensure this IIS feature is installed, as described in the troubleshooting IIS Issues page.
T C N I	Change the web browser URL from /Tachyon to /Platf orm	The web browser will take you to the SLA Platform inventory web application.	
T C N I 10	Change the web browser URL from /Tachyon to /Catal ogWeb Change the web browser URL from htt ps to http	When using https, the expected response is Server Error 404 - File or directory not found. When using http, the web browser will take you to the 1E Catalog website. The 1E Catalog currently uses only HTTP.	To access the Admins tab in the CatalogWeb, you must manually add one or more administrator accounts or groups to the website configuration. Please refer to 1E Catalog 1.2 - Rebuilding the 1E Catalog: Grantingadministrative privileges.

Verify user rights assignment

To run the following tests you need:

- 1. Tachyon Server installed and above TCNI verification tests passed
- 2. The name and password for the **server installation account**, the account must also be enabled
- 3. Two AD User accounts, Test User 1 and 2
 - a. must not be existing Tachyon users because they will be assigned specific roles for the purpose of these tests.
 - b. must have email addresses and be able to read emails.
- 4. The 1E-TachyonPlatform product pack, if not already installed



1E is often asked why the 1E-TachyonPlatform product pack is not built into the product. The reason is that uploading a known product pack is part of the verification process and ensures the user is able to upload at least one pack and carry out all the other necessary tasks at least once before exploring other aspects of Tachyon.

R	Test	Expected Response	Remediation
ef			

Т С Ν U 01

- Locate the 1E-TachyonPlatform product pack
- Start a supported browser on a workstation
- Connect to the Tachyon Portal as the server installation
- Open the Settings application and go to the InstructionsInstru ction sets page Click on the **Upload** button
- In the Open dialog navigate to the location of the 1E-TachyonPlatform.zip file
- Select 1E-TachyonPlatform.zip and click Open

All the instructions contained in the zip file will initially be added to the default Unassigned instruction set. Instructions in the Unassigned instructi on set cannot be used, so you will need to add the instructions to a new instruction set:

- Select the 2 verification instructions to the new set, by clicking the checkbox at the start of each instruction row in the list.
- Click the Add new set button in the button panel to the right of the page
- In the Add new instruction set p opup subsequently displayed, and type:
 - 1E Tachyon Platform as the name
 - 1E Tachyon Platform as the description
- Ensure that the Include 2 selected instructions checkbox is checked
- Click the Add button to add the new instruction set, with the selected instructions

For a new Tachyon installation, the Instruction sets page will not contain any instruction definitions.

After uploading the 1E-TachyonPlatform product pack, the two instructions contained in the product pack will be displayed on the Produ ct packs page.

After creating the 1E Tachyon Platform instruction set this will appear in the Instruction sets list.

After moving the verification instructions from Unassigned to the 1E Tachyon Platform instruction set, the instruction count for the 1E Tachyon Platform instruction set will go up by 2.



Unlike previous versions of Tachyon, this version does not support the drag+drop method of uploading product If the server installation account is not able to add instructions from a product pack, then the installation account is not assigned to the Instruction Set Administrators role. You can confirm if this is the case by viewing the rights of the s erver installation account in the SettingsPermissionsUsers page. You may have upgraded Tachyon from a previous version where the server installation account was not automatically assigned to this role. Contact 1E for advice on how to fix this.

С Ν U

Т

- Connect to the Tachyon Portal as the server installation account
- Open the **Settings** application and go to the PermissionsUsers
- Click Add and search for an AD Universal security group
- Select one of the AD security groups and click Add
- Click on the name of the AD group just added
- In the Group: details page, click on the Group members tab to view the group members
- Navigate back to the Users page Check the checkbox for the group just added and click Remo ve and then click Yes, remove

Entering 3 characters or more returns a list of matching user accounts and universal security groups.

Selecting a group and viewing its members shows the Name and Email of each member.

The purpose of this step is to confirm the system is capable of searching Active Directory. You do not need to add the group; you will add users in the next step.

The ability to search and find different types of AD security group depends on the search method selected during installation of the Tachyon Server, as described in De sign considerations - Active Directory Security Groups.

T C N U 03	Connect to the Tachyon Portal as the server installation account Open the Settings application and go to the PermissionsRoles page Go to the Roles tab and add a custom role with the following properties Role name: 1E Tachyon Platform Assign Instruction Sets: 1E Tachyon Platform Permissions: Actioner, Approver, Questioner, Viewer Assign Management Group: All Devices Click on Save. Go to the Users tab and add Test User 1 Role: 1E Tachyon Platform Repeat for Test User 2
T C N U 04	Connect to the Tachyon Portal as Test User 1 and confirm access to Explorer pages Repeat for Test User 2

The following custom role

• 1E Tachyon Platform

The following users are included in the list of Users.

- Server installation account - assigned to
 - Instruction Set
 - Administrators Permissions
 - Administrators Consumer
 - Administrators Applications Administrators
- Test User 1 assigned to roles:
 - 1E Tachyon Platform
- Test User 2 assigned to roles:
 - 1E Tachyon Platform

nect to the Tachyon Portal est User 1 and confirm

Each Test User is able to view the following menu pages in the Explorer application:

- Home
- Instructions
 - History
 - Tasks
- Scheduled
- Devices
 - Table
- Dashboard
- Notifications

Contact system administrator to get access

When you use a browser to open an application in the Tachyon Portal, and you see a message Unauthorized access, it means your AD account is not a Tachyon user.

Try using an AD account that you know is a Tachyon user that is assigned to a Tachyon system role or custom role. For example, use the server installation account which is automatically installed as a

For a new installation, the server installation account must be used to add other Tachyon users before their AD accounts can be used to access the Tachyon Explorer. This process is described in the Users page and the Roles page.



403 'Access denied'

When you use a browser to open an application in the Tachyon Portal, you will see Server Error 403 - Forbidden: 'Access denied' if your AD account does not have read access to the Tachyon web application folders. This can happen if Tachyon is installed in a non-default location and the NTFS permissions on the installation folder are not correct. To remedy the issue, you should review and correct NTFS permissions as described in Services and NTFS Security.

Verify Tachyon Agent installation

- 1. Tachyon Server installed and above TCNI verification tests passed
- 2. Two AD User accounts, Test User 1 and 2 and above TCNU verification tests passed
- 3. At least one test device on which the Tachyon Agent will be installed
- 4. Tachyon Agent installation source files and configuration details required by your Tachyon implementation

R	Test	Expected Response	Remediation
e			

T C N A 01	Install the Tachyon Agent on the test device using the configuration settings required for your implementation DNS Alias of Tachyon Server Port used by the Tachyon Switch Port used by the Tachyon Background Channel Include optional MSP update Confirm Programs and Features	Tachyon Agent installed. Programs and Features displays 1E Tachyon Agent. • correct platform x86 or x64 • correct 3 part version number If an MSP update has been installed, the Installed Updates displays 1E Agent Update (Qnnnnn).	The first Agents can be installed manually or using a script. You should repeat this set of tests when you have deployed a few Agents using your organization's preferred deployment method. You may need to edit the Agent configuration file after installation, to suit the requirements of your implementation, and restart the Agent service.
T C N A 02	Confirm Tachyon's Windows services are all running.	The following Windows services exist and are running. • 1E Tachyon Agent	If the 1E Tachyon Agent service is not running, then check the Agent log.
T C N A 03	Check the Tachyon Agent log.	No errors. The logpath can be set using an installation property and changed post-installation using a configuration property, as described in the Tachyon Agent installer and configuration properties (Logpath). The following are default logpaths: Windows: %ALLUSERSPROFILE%\1E\Tachyon\Tachyon.Agent.log Mac OSX: /Library/Logs/Tachyon.Agent.log Other non-Windows platforms: /var/log/1E/Tachyon/Tachyon.Agent.log By default, Windows resolves % ALLUSERSPROFILE% as follows. For Windows 7 and later - C:\ProgramData\ Prior to Windows 7 - C:\Documents and Settings\All Users\Application Data\ The following are not configurable in this version: Maximum size of 5MB 5 rollover files numbered 1 (newest) to 5 (oldest) with the rollover number included as n.log	Check the Switch setting in the Agent configuration file is using the correct DNS Alias for the Tachyon Server, and correct port for the Switch. If errors in the Agent log relate to certificates then see Client issues.

Т Start a supported browser С on a workstation Ν Connect to the Tachyon Portal as Test User 1 Α Open the Explorer 04 evicesTable page

application and go to the D

For each Test Device that has had the Tachyon Agent installed, confirm the device is listed in the Table page. Click on each device and

view the device properties.

Each Test Device is listed in the Tachyon Devices Table

The device details shows information about the device's system, activity, certificate and configuration settings.

If you cannot use the Test User 1 or 2 accounts then use another Tachyon user account. All Tachyon users are able to view the Tachyon Devices Table page.

Check the configuration of the Agent and review the Switch setting in the Agent configuration file.

The Tachyon Agent is controlled via the Tachyon Agent configuration file, which resides in the installation folder with the Tachyon Agent executable. The name of the configuration file is Tachyon.Agent.conf.

The default installation location used for the different OS supported by the Agent are given in the following table:

os	Default Install Location	
Windows	%ProgramFiles%\1E\Tachyon\Agent	
Linux and Solaris	/etc/1E/Tachyon/Agent	
Mac	'/Library/Application Support/1E /Tachyon/Agent'	
The configuration file uses ASCII encoding		



The configuration file uses ASCII encoding. A comment line starts with the # symbol.

Verify Tachyon client-server communications (stage 1 and 2 instructions)

To run the following tests you need:

- Tachyon Server installed and above TCNI verification tests passed
- At least one test device has Tachyon Agent installed and above TCNA verification tests passed
- Two AD user accounts configured as Tachyon users and above TCNU verification tests passed

To run the following tests you need to logon to a workstation with a user account that is assigned to at least one of the Tachyon administration roles.

R ef	Test	Expected Response	Remediation
T C N A	See TCNA01 above.	Each Test Device is listed in the Tachyon Explorer Devices page.	
T C N A OS	Connect to the Tachyon Portal as Test User 1 Open the Explorer application and go to the Home page Type verification Select Tachyon Platform verification stage 1 Click Ask this question	When the Tachyon Platform verification stage 1 question is asked, the Explorer view changes to the Instruction History Responses page. The Instruction History Responses page lists the software products installed on each Test Device. Contents are shown for online Devices that have the Tachyon Agent installed and running. If you view other Explorer pages and want to get back to the Instruction History Responses page, then you should select Instruction History from the navigation menu on the left side, and you should see a list of the instructions that have been run. You may then click on the name of the instruction to view its responses. The Agent log indicates: Running instruction Searching for installations with publisher="(any)" and product="(any)" Matched nnn installations Successfully processed instruction	You may need to refresh the Instruction History Responses page. Verification stage 1 tests communication between the Agent and Switch. Any issues will appear in the Agent log. Check each test device has the Tachyon Agent running and is online.

Т If Two-Factor authentication (2FA) is enabled then This stage of the Verification tests communication between the Tachyon Connect to the Explorer will prompt for an authentication code, and Test Server and the SMTP relay/gateway. С Tachyon User 1 should receive an authentication code by email. Ν Portal as Test If 2FA is enabled and Test User 1 does not receive an email with the User 1 authentication code, then: The Explorer view changes to Instruction pending Α • Open the Expl approval. 06 check the Authentication log and confirm it is using the correct orer application configuration for the SMTP server Test User 2 should receive an email asking for approval. and go to the I nstructionsHi If Test User 2 does not receive an email, then: story page Click on the Ta check the user is assigned to the 1E-TachyonPlatform role the 1E-TachyonPlatform role has access rights which include Appro chyon ver Platform check the Workflow log and confirm it is using the correct verification configuration for the SMTP server stage 1 instruction to view the response details Click on the Ac tions tab Type verificati on Select Tachyo n Platform verification stage 2 (all platforms) Click Perform this action Enter the password for the Test User 1 account If 2FA is enabled, enter the authentica tion code Т When clicking on the link in the request for approval email, If **Test User 2** is unable to approve the request, then: Fither connect a browser should open automatically and take you to the C to the Tachyon check the user is assigned to the 1E-TachyonPlatform role Notifications page. Ν Portal as **Test** the 1E-TachyonPlatform role has access rights which include Appro You can view notifications and approval request at any User 2 and Α ver time by clicking on the notification icon. The icon will show click on the not 07 the number of actions pending approval by the logged on ification icon Or click on the link in email When the request is approved by Test User 2: received in the previous step the Tachyon Explorer view changes to Approval and wait for a has been processed successfully browser to connect you to Test User 1 should receive an email saying the the Tachyon action has been approved Portal View the Request for action approval for the Tachyon Platform verification stage 2 (all platforms) acti Tick the box I understand approving my request impacts my IT environment Click Approve

T C • Cor Tac N Por A eith Use

- Connect to the Tachyon Portal as either Test User 1 or 2
- Open the Expl orer application and go to the I nstructionsHi story page
- Click on the Ta chyon Platform verification stage 2 instruction to view the response details

Response details show a list of devices and their Agent configuration details. You may need to refresh the Details page.

This stage of the Verification tests the Agent's connection to the Background Channel. Successful execution of the action will cause the following to appear in the Agent log:

- Duplicate log entries showing a repeat run of the previous question
- A series of log entries showing a connection to the Background Channel, then a script is downloaded and run:
 - Windows a1572157-fe27-4bee-b21f-86db33e3c43cTachyonVerification.ps1 PowerShell file
 - Linux and MacOS parseconfig.sh bash and p arseconfig.pl perl files
- Successfully processed instruction

You may have to wait up to 5 minutes for the action to complete on each device. This is because the default Agent setting for DefaultStaggerRangeSeconds=300.

Repeat test TCNI05 using a browser on the test device to confirm the Background Channel has been configured correctly.

A common error is an incorrect value for the **BackgroundChannelUrl** setting in an Agent configuration file. If you deployed the Agent using a software deployment tool like Microsoft's ConfigMgr then look to see if similar devices have the same issue. Check the Agent's configuration file on problem devices to see if the setting has the correct URL for the Background Channel.

Check to see if the Background Chaneel has the scripts used by the Stage 2 instruction. Review the contents of ${\bf C}$:

\ProgramData\1E\Tachyon\Content folder on the server hosting your Background Channel. The Content folder should contain at a folder named 1E-TachyonPlatform-VerificationStage2 which contains a sub-folders with a PowerShell file, and another subfolder containing a bash and a perlifile.

Verify extended features

- all the above tests completed
- to logon to a workstation with a user account that is assigned to at least one of the Tachyon administration roles that allows you to run some instructions, which can include a Verification instruction already used above.

R ef	Test	Expected Response	Remediation
T C N X 0'	To confirm the Export All share is accessible, use Windows Explorer to br owse to the share name specified when the Export all feature was configure Connect to the Tachyon Portal, open the Explorer application and ask a question After at least one device has responded with content, stop the question and keep the responses In the Content or Status tab on the Re sponses page, click on Export all results Enter the share name and click Save Use Windows Explorer to browse to the share name and observe a TSV file has been created Use Microsoft Excel or Notepad to view the contents of the TSV file	This test verifies BCP has been installed on the Tachyon Server, and an Export share is correctly configured, as described in Tachyon Server post-installation tasks: Configure the Tachyon Server to support the Export all responses feature. When you stop the question or wait for the question to complete its gather duration, then the Export all results button will be enabled. TSV is a tab-delimited text file.	If you see a popup error initiating export operation after clicking on the Export All results button, then • ensure you specify the hostname or hostname FQDN of the Windows computer where the share has been created; do not use a DNS Alias • check the share permissions • check the share NTFS security