



The table below identifies major changes incorporated into this document.

Date	Version	Description
7/8/2015	1.0	Initial Draft Version
7/13/2015	1.1	Added: KB3026376 requirement
7/20/2015	1.2	Removed KB2974335/6 since the new KB3026376 rollup has that specific patch included Minor details added to SQL Server, SQL CE, Crystal Reports and installation of ETS.
8/10/2015	1.3	Added: Appendix B – Laptop and Infrastructure Configuration of Port :5555
9/8/2015	1.4	Purpose: Updating to accommodate state users Updated links for SQL 2012 Added: full hard drive encryption and antivirus, state local firewall configurations,
9/17/2015	1.5	Reformatting and consolidating documents.
9/28/2015	1.6	Added Appendix D – renamed old Appendix D to Appendix E
3/4/2016	2.0	Modified installation checklist to include <u>all</u> ETS applications Updated formatting & Fixed dead links Added Table of Contents Reordered & consolidated appendices – Added ETS-ALERT/SQL 2012 workaround (new Appendix D)

## Contents

- Downloads ..... 2
- Preferred Installation Order for ALL ETS Applications ..... 3
- Appendix A: Pre-requisite Installations Guide (Detailed) ..... 5
  - 1 - .NET Framework – KB3026376 ..... 5
  - 2 – ETS (KB2779272) ..... 7
  - 3 – SAP Crystal Reports (64-bit – Service Pack 10) ..... 7
  - 4 – SAP Crystal Reports (32-bit – Service Pack 2) ..... 10
  - 5 – PDFNet Driver 1.0..... 12
  - 6 – URL/ACL Reservation of Port :5555 ..... 15
  - 7- SQL Server (2008 AND 2012) Silent Installation ..... 15
  - 8 – Microsoft SQL Server 2012 Express – Service Pack 2 (Upgrade from SQL 2008)..... 17
- Appendix B: Local Configuration of Port :5555..... 23
- Appendix C: Firewall Configuration ..... 24
- Appendix D: ETS-ALERT Database Deployment Workaround for SQL 2012 ..... 28

## Downloads

Link to CSBS Website – ETS Technical Requirements (contains important documents and scripts for state employees)

<https://www.csbs.org/regulatory/examtools/Pages/ETSTechnicalRequirements.aspx>

Item	Version / Notes	Where it can be found
KB3026376 Hotfix Rollup	This rollup will install .Net Framework (v4.5.2), KB3026376 and KB2974336 – which are all requirements for ETS.	<a href="https://support.microsoft.com/en-us/kb/3026376#/en-us/kb/3026376">https://support.microsoft.com/en-us/kb/3026376#/en-us/kb/3026376</a>
KB2779272 Hotfix	Update adds support for some new glyphs and features in Windows 8 to common fonts in Windows 7 and in Windows Server 2008 R2	<a href="http://support.microsoft.com/kb/2779272">http://support.microsoft.com/kb/2779272</a>
SAP Crystal Reports for Visual Studio 2010 – <b>SP10</b>	Service Pack 10 – 64 bit  Note: The 32-bit version of Crystal Reports is only needed if examiners intend on using ETS-ALERT <u>and</u> ETS side-by-side.	<a href="http://downloads.businessobjects.com/akdlm/cr4vs2010/CRforVS_redist_install_64bit_13_0_10.zip">http://downloads.businessobjects.com/akdlm/cr4vs2010/CRforVS_redist_install_64bit_13_0_10.zip</a>
PDFNet	1.0 –driver that assists the library used in converting files to PDF	<a href="http://pdftron.com/downloads/pdfnetDrivers.zip">http://pdftron.com/downloads/pdfnetDrivers.zip</a>
Microsoft Visual C++ 2010 Redistributable Package 32 or 64 bit	This library is required for PDFNet to be installed correctly. It should be included with the Win 7 install by default, however, we have seen some state users that needed this package installed in order for PDFNet to be installed successfully.	32 bit: <a href="http://www.microsoft.com/en-us/download/details.aspx?id=5555">http://www.microsoft.com/en-us/download/details.aspx?id=5555</a> 64 bit: <a href="http://www.microsoft.com/en-us/download/details.aspx?id=14632">http://www.microsoft.com/en-us/download/details.aspx?id=14632</a>
URL / ACL Script for Collaboration	The URLACL is a configuration setting that allows the ETS application to host a web service for local network data collaboration.	Apply configurations via ETS-FREDDY: <a href="https://ets.fdic.gov/ets-freddy/">https://ets.fdic.gov/ets-freddy/</a> or See Appendix B
SQL Server 2008 Express R2	<b>**Refer to ETS-ALERT installation instructions for more information**</b>  Microsoft SQL Server 2008 Express R2 – Service Pack 2	<a href="http://www.microsoft.com/en-us/download/details.aspx?id=30438">http://www.microsoft.com/en-us/download/details.aspx?id=30438</a>  64-bit: SQLEXPADV_x64_ENU.exe
SQL Server 2012 Express	<b>**Refer to Appendix A for installation instructions**</b>  <b>**Refer to Appendix D for ETS-ALERT workaround**</b>  Microsoft SQL Server 2012 Express (Service Pack 2) - 11.0.5058	<a href="http://www.microsoft.com/en-us/download/details.aspx?id=43351">http://www.microsoft.com/en-us/download/details.aspx?id=43351</a>  64-bit: SQLEXPADV_x64_ENU.exe (1.9GB)
'FDIC2008' SQL Server Instance Name	<b>**Refer to Appendix A for installation instructions**</b>  When installing SQL Server you need to set the instance name to "FDIC2008".  Please also follow additional steps for setup of <b>Filestream</b> and <b>CLR</b> . User in SQL Server Management Studio must also have <b>DBCreator</b> and <b>BulkAdmin</b> privileges to create the ETS database.	If installation assistance is needed, please contact:  Examiner Help Desk <a href="mailto:ehelp@fdic.gov">ehelp@fdic.gov</a>  1-877-334-2999 , then option 2

Full Hard Drive Encryption	All laptops must have full-hard drive encryption enabled using Bitlocker or similar Digital Loss Prevention (DLP) software (e.g. Check Point).	
Antivirus	All laptops must have an antivirus software installed and running in "active scan" mode.	

## Preferred Installation Order for ALL ETS Applications

Follow these steps to install all ETS applications (ETS, ETS-ALERT, ETS-FREDDY, ETS-Training) and their required pre-req's on a new laptop. Please consult the Appendices in this document for troubleshooting assistance.

**\*\* Please contact the Examiner Help Desk at [ehelp@fdic.gov](mailto:ehelp@fdic.gov) or 1-877-334-2999, then option 2 for additional support \*\***

### Notes:

**\*\*Suggested *Operating System*: Windows 7, 64-bit\*\***

**\*\*Windows XP is no longer supported by Microsoft\*\***

**\*\*Windows 8 & Windows 10: Minimal testing conducted thus far - we cannot guarantee performance\*\***

**\*\*ETS will work in a 32-bit environment (not v1.1), but we recommend a 64-bit computer for best results\*\***

### ETS-FREDDY

1. Install ETS-FREDDY (*Detailed instructions available at <https://ets.fdic.gov/ets-freddy/>*)

### ETS-ALERT

ETS-ALERT Pre-requisite Checklist (v1.4) available on CSBS website for detailed information.

Verify all Pre-requisite installations with ETS-FREDDY.

2. Install .NET Framework (4.5 or later)
3. Install Crystal Reports – Service Pack 2 (32-bit)
4. Install Crystal Reports – Service Pack 10 (64-bit)
5. Install SQL Server 2008 Express R2 (Service Pack 2) – SQLEXPADV\_x64\_ENU.exe
  - a. Verify SQL Compact CE, **x86 AND x64**, have been installed.
  - b. Verify Service Pack 2 has been installed. Upgrade to SQL 2012 will fail if missing.
  - c. Verify FDIC2008 instance was installed
  - d. Verify SQL Logins were created
  - e. Verify Database Roles were applied (SysAdmin, BulkAdmin, DbCreator)
6. Install ETS-ALERT
  - a. Verify ETS-ALERT opens successfully before continuing.
  - b. See [Common Errors and Solutions](#) for additional troubleshooting information

### ETS-Training

Install ETS-Training before upgrading to SQL Server 2012.

Note: This is not a requirement, rather a recommendation. You can install ETS-Training before or after upgrading to SQL 2012. However, *for best results*, we recommend installing it before

7. Install KB3026376
  - a. Installs .NET Framework 4.5.2
  - b. Installs Hotfix Rollup KB3026376
  - c. Installs KB2974336
8. Install KB2779272
9. Install PDFNet 1.0 Driver
10. URL/ACL Reservation
  - a. See Appendix B (Local Collaboration of Port :5555) for more information

11. Apply Firewall configurations (enterprise-wide AND local exceptions may be required)
  - a. Incoming TCP 5555 – peer-to-peer communications (exception)
    - i. See Appendix C (Firewall Configurations) for more information
  - b. Outgoing TCP 443 – Central Peer communications
  - c. Incoming UDP 3702 – SOAP WS\_Discovery protocol (exception)
    - i. Follow the same instructions in Appendix C
  - d. Outgoing UDP 3702 – SOAP WS\_Discovery protocol (exception)
    - i. Follow the same instructions in Appendix C
  - e. ETS.exe added as a trusted site
    - i. Add <https://ets.fdic.gov/> under Tools > Internet Options > Security > Trusted Sites
12. Install ETS-Training (<https://ets.fdic.gov/ets-training/>)
  - a. 5% of installations *may* fail on first installation. If an error message appears:
    - i. Delete the ETS\_Training Database from SQL Server 2008
    - ii. Uninstall/Reinstall ETS-Training

## ETS

13. Upgrade SQL Server 2008 Express R2 to SQL Server 2012 (SP2)
  - a. Verify there are no pending restarts on the computer
  - b. Verify Service Pack 2 for SQL 2008 is installed
14. Open SQL Server Management Studio (2012) and Import all settings from 2008.
15. Verify ALL firewall configurations (enterprise-wide AND local exceptions may be required)
  - a. Incoming TCP 5555 – peer-to-peer communications (exception required)
  - b. Outgoing TCP 443 – Central Peer communications
  - c. Incoming UDP 3702 – SOAP WS\_Discovery protocol (exception required)
  - d. Outgoing UDP 3702 – SOAP WS\_Discovery protocol (exception required)
  - e. ETS.exe added as a trusted site
16. Install ETS (<https://ets.fdic.gov/ets/>)
  - a. 5% of installations *may* fail on first installation. If an error message appears:
    - i. Delete the ETS\_Training Database from SQL Server 2008
    - ii. Uninstall/Reinstall ETS-Training
    - iii. See [ETS Common Errors and Solutions](#) for additional troubleshooting information
17. Have examiner log into ETS to activate their ETS user profile:
  - a. Username
  - b. Password
  - c. PIN (hard-token)
    - i. Soft-token: PIN number required to obtain OTP
  - d. One Time Password (OTP)

## Appendix A: Pre-requisite Installations Guide (Detailed)

The steps outlined below, while applicable to most windows configuration, may vary on each machine based on an organization's environment variables. It is suggested that these pre-requisites are installed by an IT representative. These are not in any specific order and are just for reference. Please see Preferred Installation Order above.

\*\* Please contact the Examiner Help Desk at [ehelp@fdic.gov](mailto:ehelp@fdic.gov) or 1-877-334-2999, then option 2 with any questions \*\*

### 1 - .NET Framework – KB3026376

#### UPDATE (3/4/16)

A recent Microsoft Security Patch (February) appears to be upgrading the .NET Framework to 4.6.1 automatically. The ETS Maintenance team has not yet had a chance to evaluate this - therefore we cannot guarantee ETS on this platform.

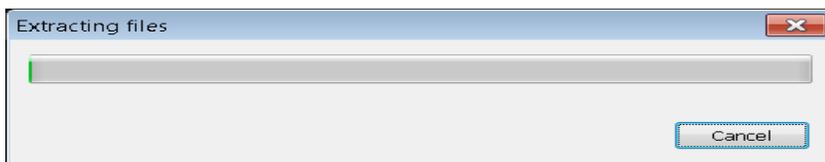
You may also notice that KB2974336 (in ETS-FREDDY) no longer appears as installed. That particular KB package was designed specifically for .NET 4.5, 4.5.1 and 4.5.2 – this is an expected result.

Plans for testing are being discussed now and an update will likely be available in v2.1 of this checklist.

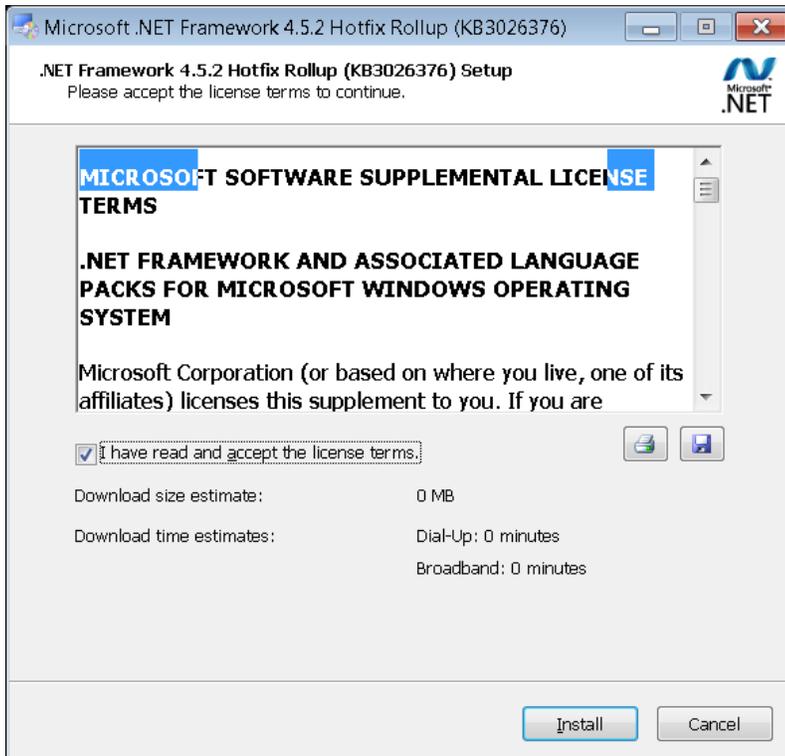
Please contact the Examiner Help Desk for further assistance.

The .NET Framework is a key component and should not be changed without implicit instructions. To install version v.4.5.2 – install the Microsoft Hotfix Rollup (KB3026376). This is a cumulative rollup and includes several additional KB packages – specifically KB2974336 – which fixes a known defect in ETS.

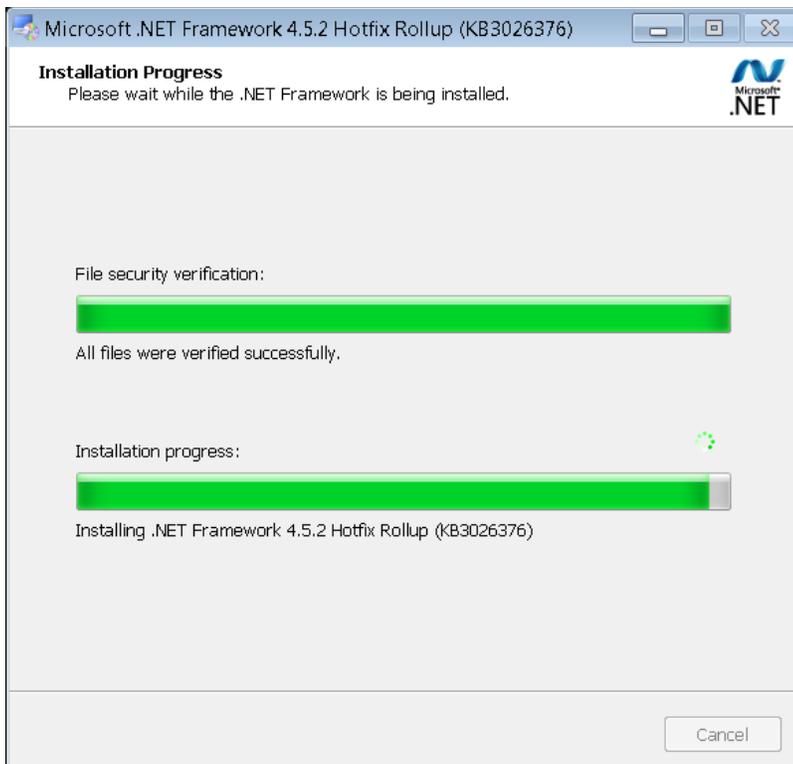
- a) Begin installation (copy files locally rather than running from a network drive)



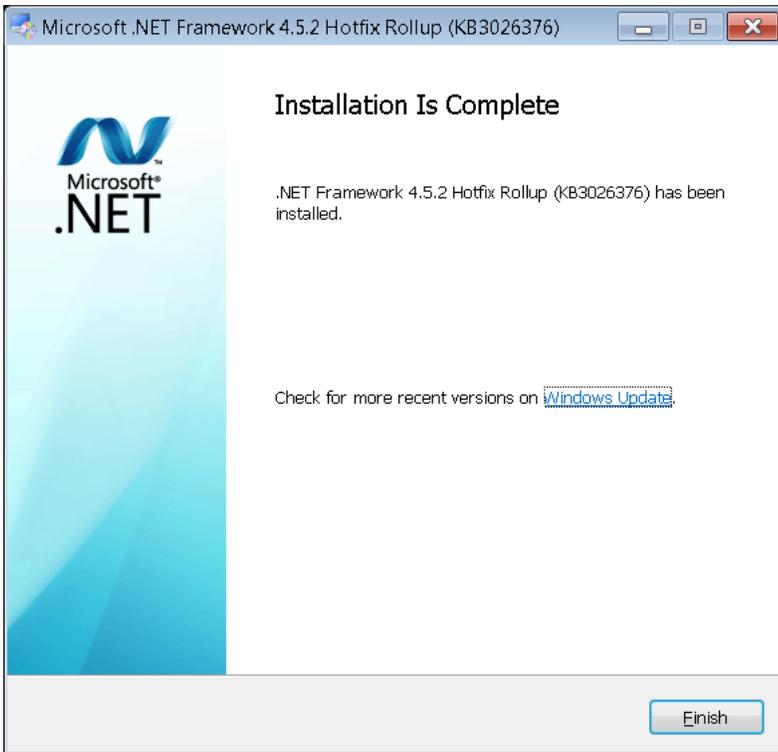
- b) Select 'I have read and accept the license terms', then Install.



c) Installation should be quick (no more than 5 minutes)



d) Installation is complete – \*Restart the computer now\*



- e) Verify installation from ETS-FREDDY or Programs and Features. Take close note of the product version number – 4.5.52282 – and the Title – “Microsoft .NET Framework 4.5.2 Hotfix Rollup (KB3022670)”

McAfee Host Intrusion Prevention	McAfee, Inc.	8/18/2015	8.00.0402
McAfee VirusScan Enterprise	McAfee, Inc.	8/18/2015	49.8 MB 8.8.04001
Microsoft .NET Framework 4.5.2 Hotfix Rollup (KB3022670)	Microsoft Corporation	8/24/2015	38.8 MB 4.5.52282
Microsoft Lync 2013	Microsoft Corporation	8/18/2015	15.0.4569.1506
Microsoft Office 2003 Web Components	Microsoft Corporation	8/21/2015	61.9 MB 12.0.6213.1000
Microsoft Corporation Product version: 4.5.52282		Support link: <a href="http://go.microsoft.com...">http://go.microsoft.com...</a> Size: 38.8 MB	
		Help link: <a href="http://go.microsoft.com...">http://go.microsoft.com...</a> Update information: <a href="http://go.microsoft.com...">http://go.microsoft.com...</a>	

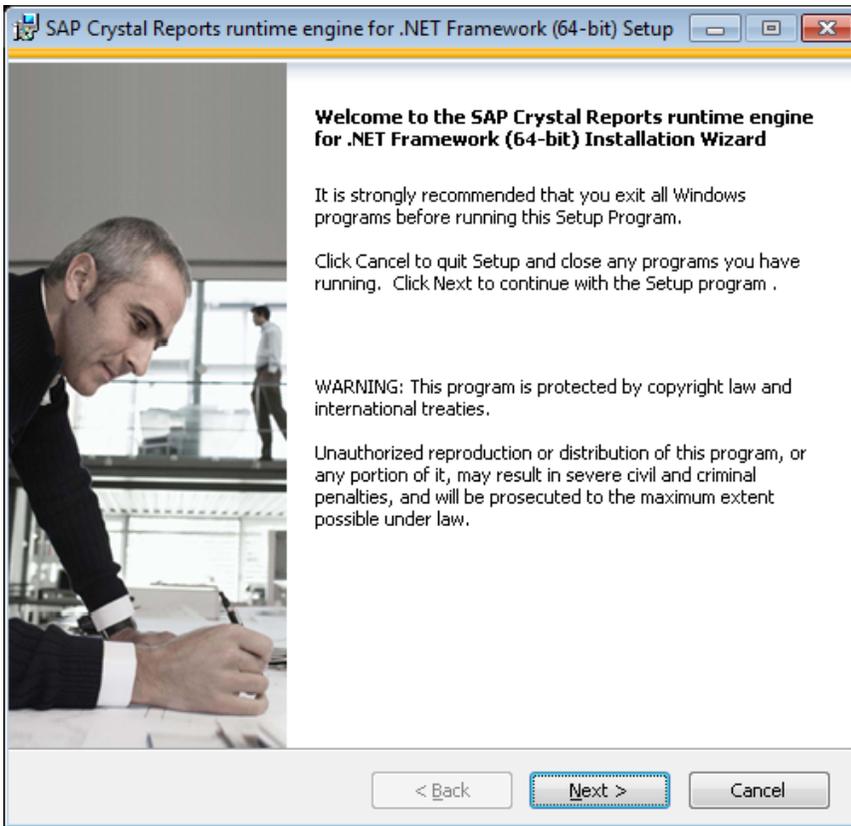
## 2 – ETS (KB2779272)

This update adds support for some new glyphs, features and common fonts in Windows 7.

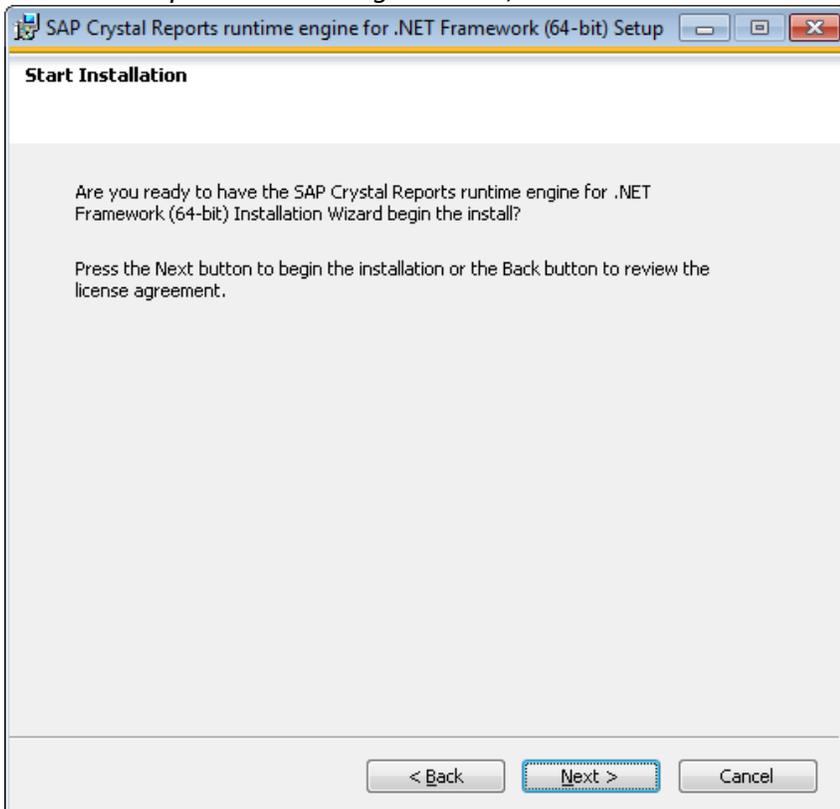
Download package from <http://support.microsoft.com/kb/2779272> and follow installation instructions

## 3 – SAP Crystal Reports (64-bit – Service Pack 10)

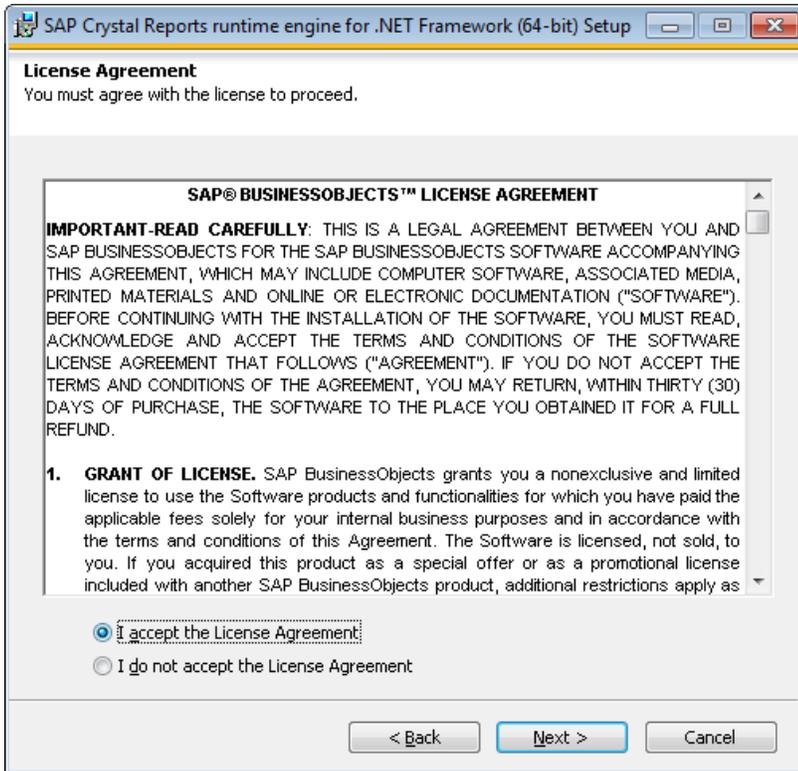
- a) Double-click to begin installation



b) Select 'I accept the License Agreement', then Next.



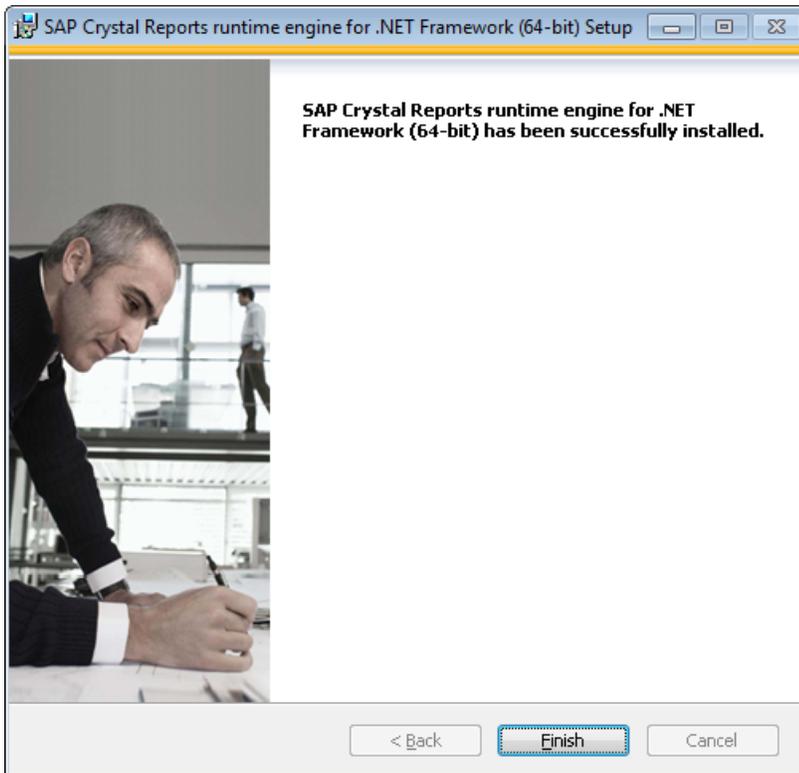
c) Next



d)



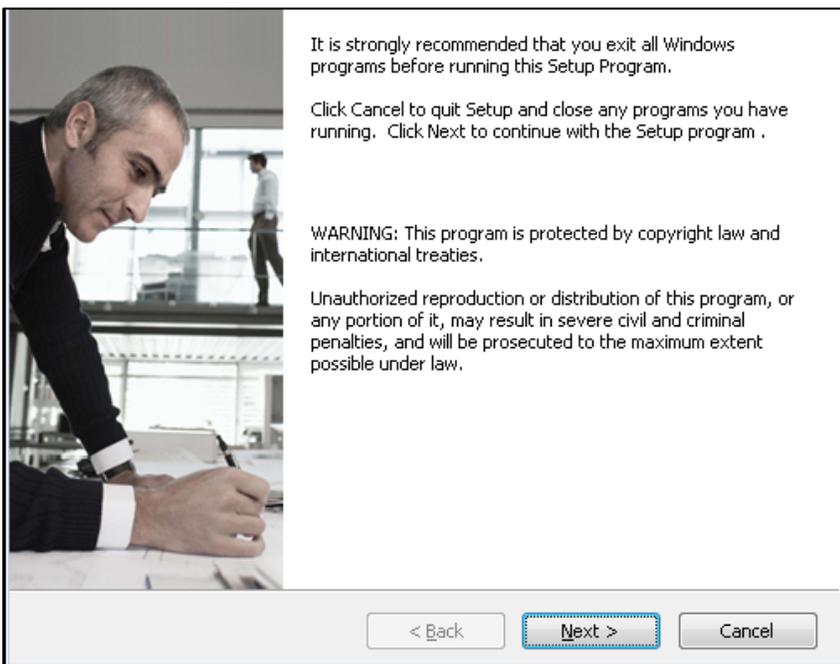
e) Finish



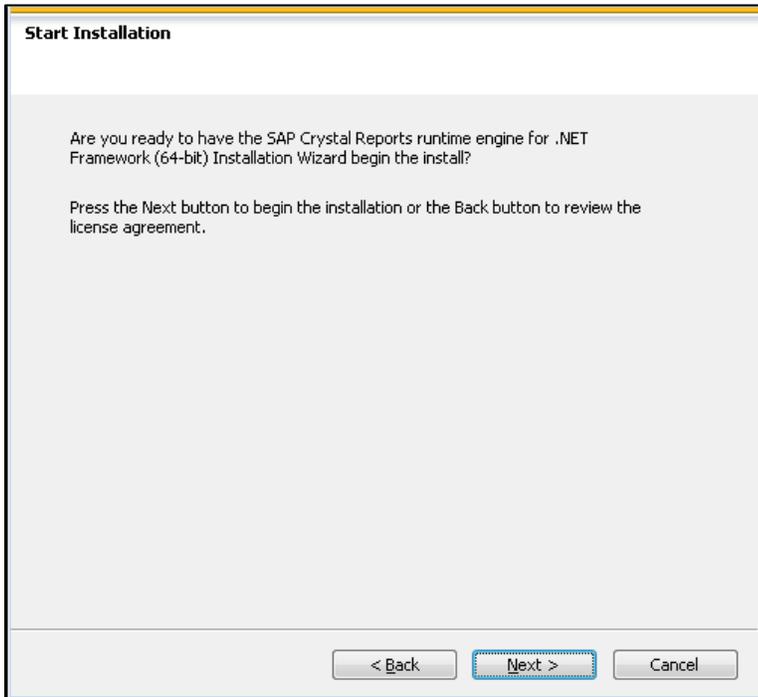
#### 4 – SAP Crystal Reports (32-bit – Service Pack 2)

The 32-bit version of Crystal Reports is only a requirement if you want to use ETS-ALERT. Although most computers are already on a 64-bit Operating System, ETS-ALERT is a 32-bit application. If this is not installed, ETS-ALERT will not open.

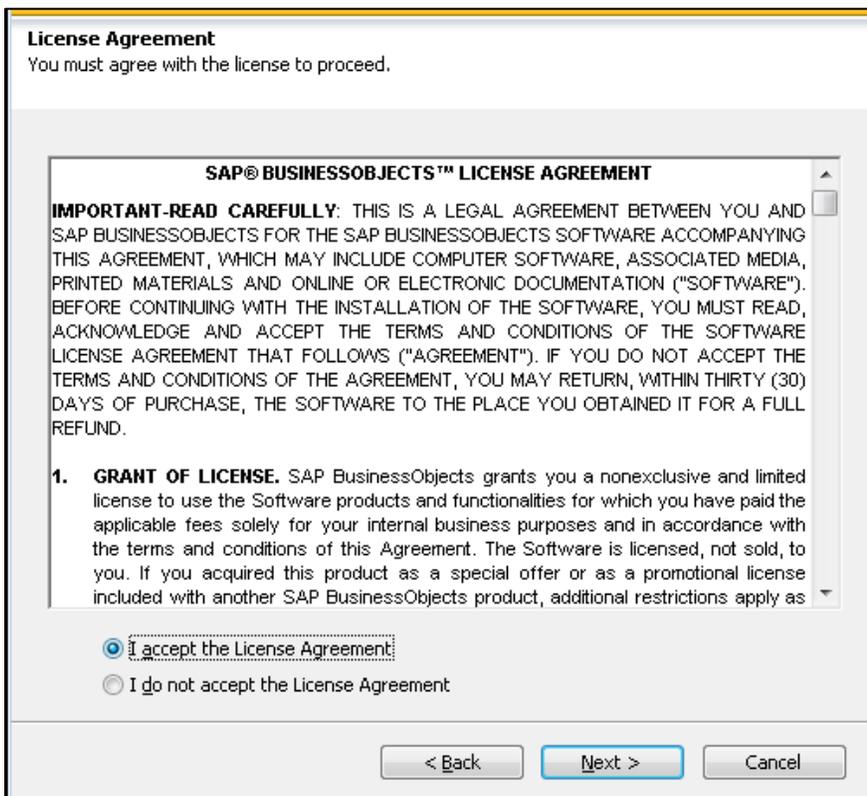
a) Double-click to begin installation



b) Select 'I accept the License Agreement', then Next.

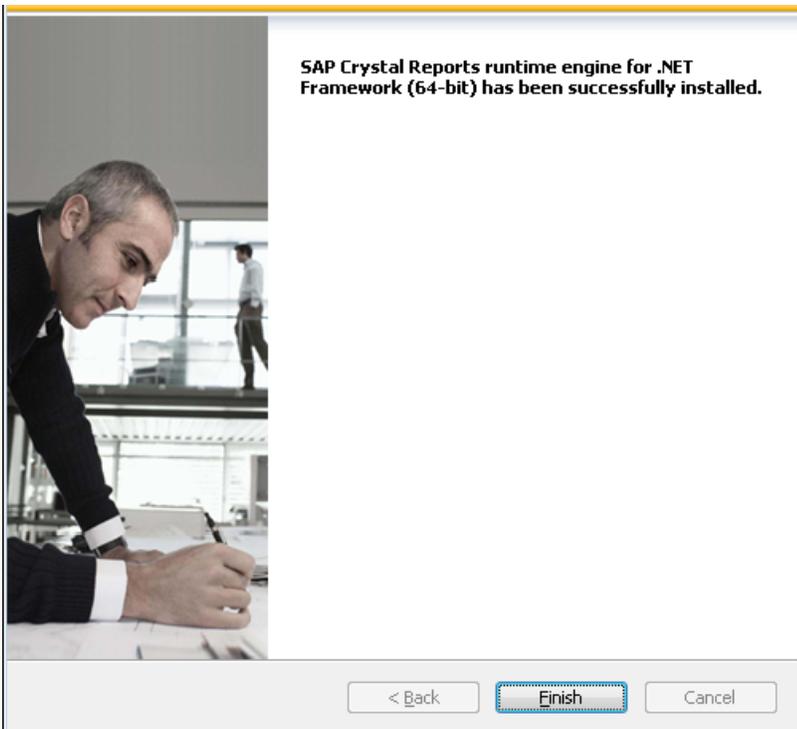


c) Next





d) Finish

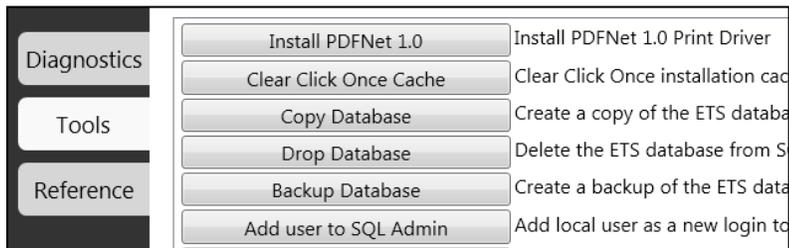


## 5 - PDFNet Driver 1.0

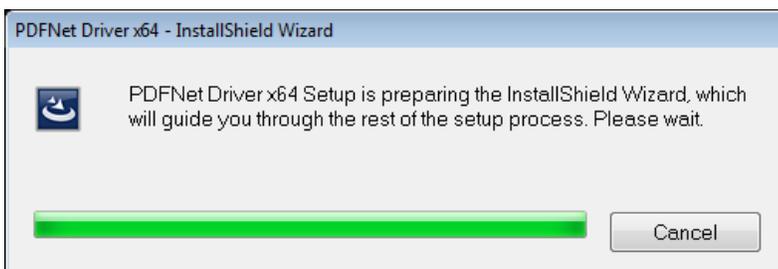
PDFNet is a print driver that ETS uses to produce several reports.

Do not alter or change the document without permission by the FDIC.

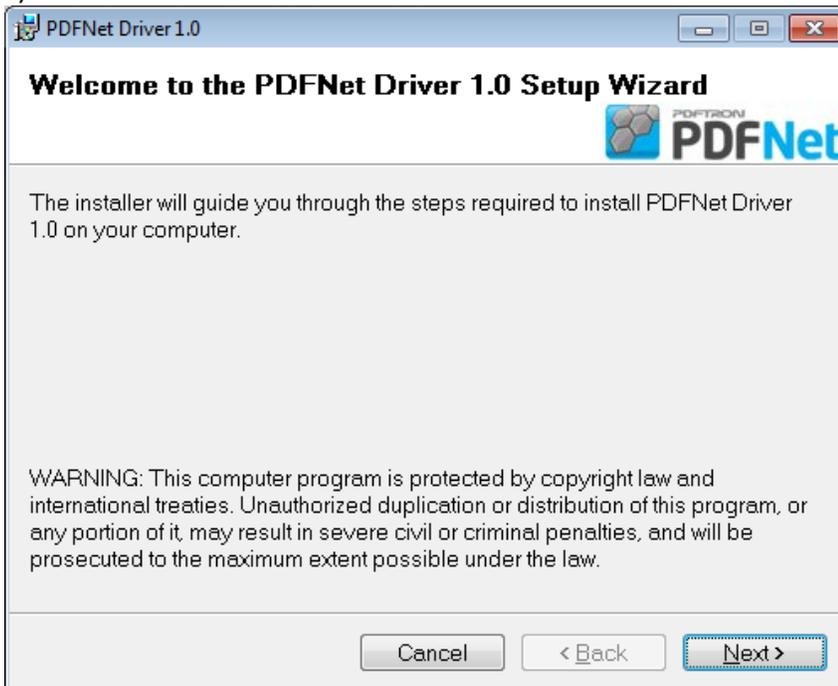
- a) One way to install PDFNet is with ETS-FREDDY. When running as an administrator, navigate to the 'Tools' tab and select 'Install PDFNet 1.0'



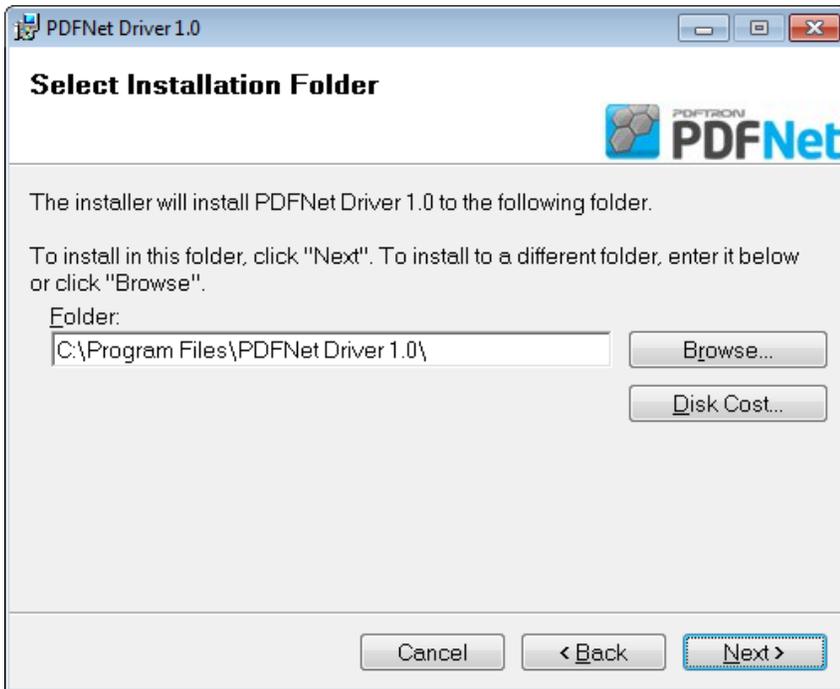
- b) Alternatively - download the PDFNet 1.0 Driver from <http://pdftron.com/downloads/pdfnetDrivers.zip> and begin installation



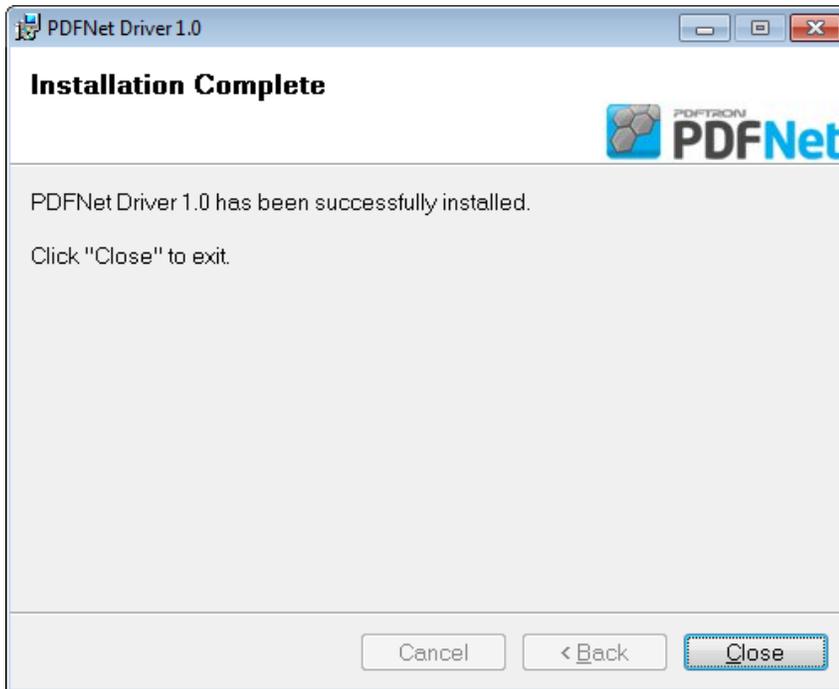
- c) Follow the installation wizard:



- d) Keep this file location, click Next



e) Click 'Close' and verify installation was successful by running ETS-FREDDY checks again.



## 6 – URL/ACL Reservation of Port :5555

The easiest way to run this is by applying the “Fix” within ETS-FREDDY. Run the Post-Install Check, and if the URL/ACL is not configured properly, the “Fix” button will become highlighted – or run the script below as an administrator.

## 7- SQL Server (2008 AND 2012) Silent Installation

Applying prerequisites through imaging:

Many states used an image process to install the prerequisites of ETS-ALERT. A similar process can be used with these prerequisites. The ETS application, however, cannot be installed through an image process. Each end user must install ETS under his or her user profile. If ETS is installed by an IT admin, the user will not be able to use ETS.

Before beginning installation of SQL:

1. Login as an administrator
2. Reboot the machine. If the target machine has a reboot pending from any previous software installation, etc. (identified by checking registry key HKLM\SYSTEM\CurrentControlSet\Control\Session Manager), the machine must be rebooted prior to attempting to install SQL Server.

Installation Steps:

1. Save the **.bat** file and the **config.sql** file to the desktop on the target machine.
  - o Edit each file to reflect the appropriate changes below.
2. Download the version of SQL Server you wish to install and place in the same folder with the .bat & config files.
  - o SQL2008: <http://www.microsoft.com/en-us/download/details.aspx?id=30438>
  - o SQL 2012: <http://www.microsoft.com/en-us/download/details.aspx?id=43351>

3. To begin the installation – execute (double-click) the .bat file.

Do not alter or change the document without permission by the FDIC.

- After installation is finished – execute the config.sql file within SQL Server Management Studio.

## .BAT FILE

```
"SQLEXPADV_x64_ENU.exe" <-- Same file name for SQL2008/SQL2012
/QS
/ACTION=Install
/IACCEPTSQLSERVERLICENSETERMS
/FEATURES=SQL,TOOLS
/INSTANCENAME=FDIC2008
/SQLSVCACCOUNT="NT AUTHORITY\Network Service"
/SQLSYSADMINACCOUNTS="yourdomain\YourAdminGroup" <-- Change this to your own group or individual
/AGTSVCACCOUNT="NT AUTHORITY\Network Service"
/RSSVCACCOUNT="NT AUTHORITY\Network Service"
/ISSVCAccount="NT AUTHORITY\Network Service"
/ASSVCAccount="NT AUTHORITY\Network Service"
/FILESTREAMLEVEL=2
/FILESTREAMSHARENAME="FDIC2008"
```

After making the configuration changes, return the file to its original state by:

- Restore the text to one continuous string (with a single space preceding each slash "/")
  - In the actual .bat file, the above will appear as a continuous string of unbroken text. For viewing purposes, we have broken up the text string into the lines above.
- Save the file
- Confirm the file extension is ".bat" (and was not changed to .txt when you edited)

## CONFIG.SQL FILE

The config.sql file contains the text in the grey box below. Note the bold, blue item in the text. "etsusers" is an Active Directory network group within FDIC's "prod" domain. This set of commands assigns users within these groups to the database's "dbcreator" and "bulkadmin" roles. You must alter these commands to reference the appropriate group names (or usernames) for your organization. Do not leave the blue text unchanged; it is specific to the FDIC's environment. The dbcreator and bulkadmin roles are required by your examiner end-users. So, for agencies using Active Directory, add the domain and Active Directory groups that contain your population of users who will access ETS. Using Active Directory makes the process of adding users to these database roles much simpler. Instead of adding users separately in this script (which would require editing for each user), adding the right Active Directory groups will authorize any users in those groups to perform the actions required in ETS.

```
exec sp_addsrvrolemember [prod\etsusers],dbcreator' // <-- Change to your own group or individual
go
exec sp_addsrvrolemember [prod\etsusers],bulkadmin' // <-- Change to your own group or individual
go
exec sp_configure 'show advanced options', 1;
go
RECONFIGURE;
go
exec sp_configure 'clr enabled', 1;
go
```

```
RECONFIGURE;  
go  
EXEC sp_configure filestream_access_level, 2;  
go  
RECONFIGURE;  
go
```

#### How to execute the config.sql:

1. Open Microsoft SQL Server Management Studio and click “connect”
2. Once connected, click “open file...” from the “File” menu.
3. Navigate to the config.sql file. The text of the config.sql file should appear in the center pane. Once the text is displayed, click the “Execute” button (red exclamation point). The command should run and a successful indication should appear near the bottom of the screen.
4. Exit Microsoft SQL Server Management Studio

#### How to Execute the config.sql via Command Prompt:

The config.sql script described above may be run via the command prompt. If so, add the text “exit” to the bottom of the script before running the script from the Command Prompt. Place config.sql in the following location:

Drive:\program files\Microsoft SQL Server\100\Tools\Binn Once moved, run the following command from the command line:

```
Drive:[\location specific to your configuration]\sqlcmd.exe -S .\FDIC2008 -E -i "config.sql
```

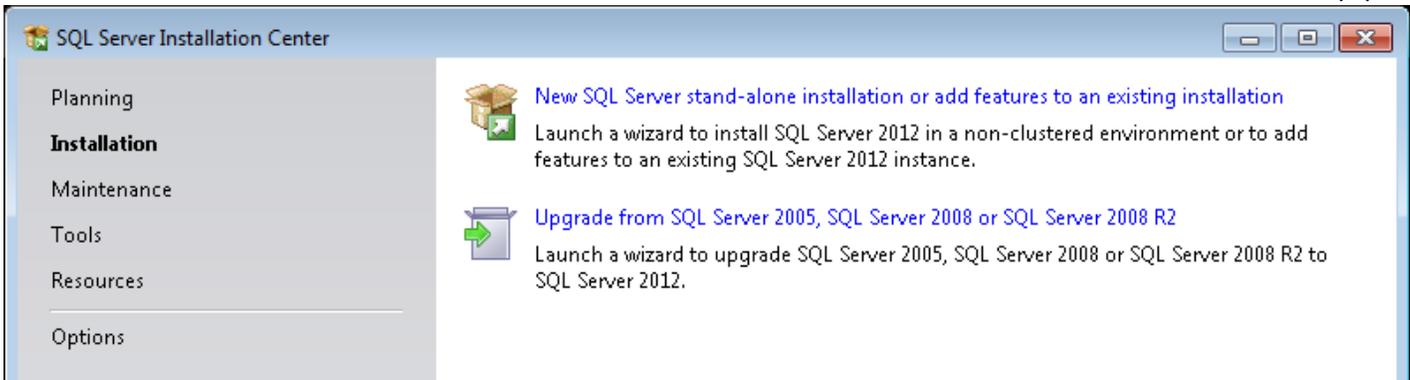
## **8 – Microsoft SQL Server 2012 Express – Service Pack 2 (Upgrade from SQL 2008)**

Microsoft SQL Server is a Database Management System that ETS uses to operate. This section is going to describe, in detail, how to **upgrade** the SQL Server platform from 2008 to 2012. If you have not installed SQL 2008 on the machine, please go back and install before continuing. If this is not installed with the proper configurations, ETS will not open.

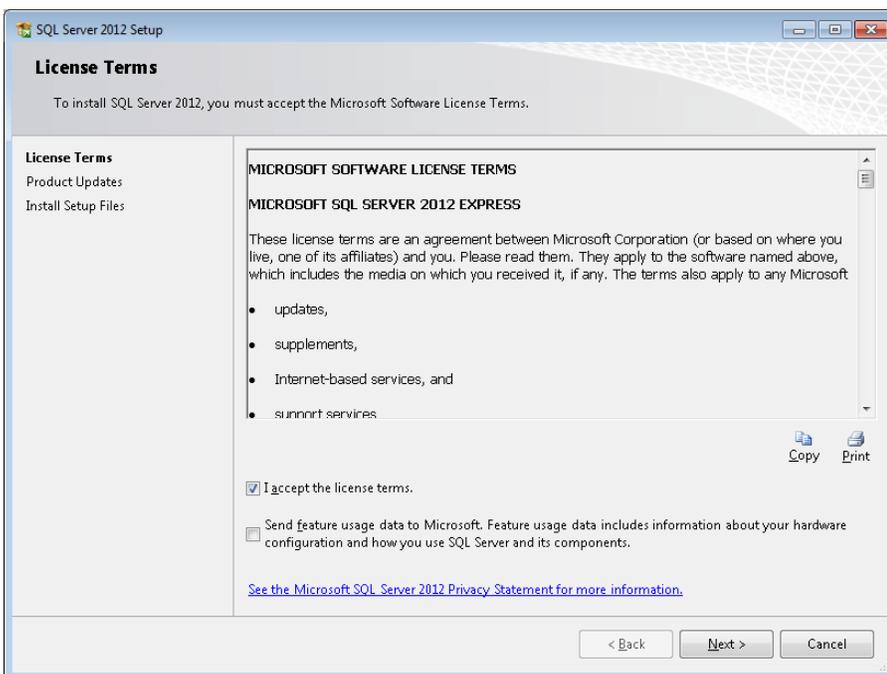
### **Manual Installation**

1. Once SQL 2008 has been installed successfully, you will need to perform an upgrade rather than a new installation. The screenshot below will appear once you have initiated the installation of SQL 2012 (manually). Select ‘Upgrade from SQL Server 2005, SQL Server 2008 or SQL Server 2008 R2. Follow the steps below:

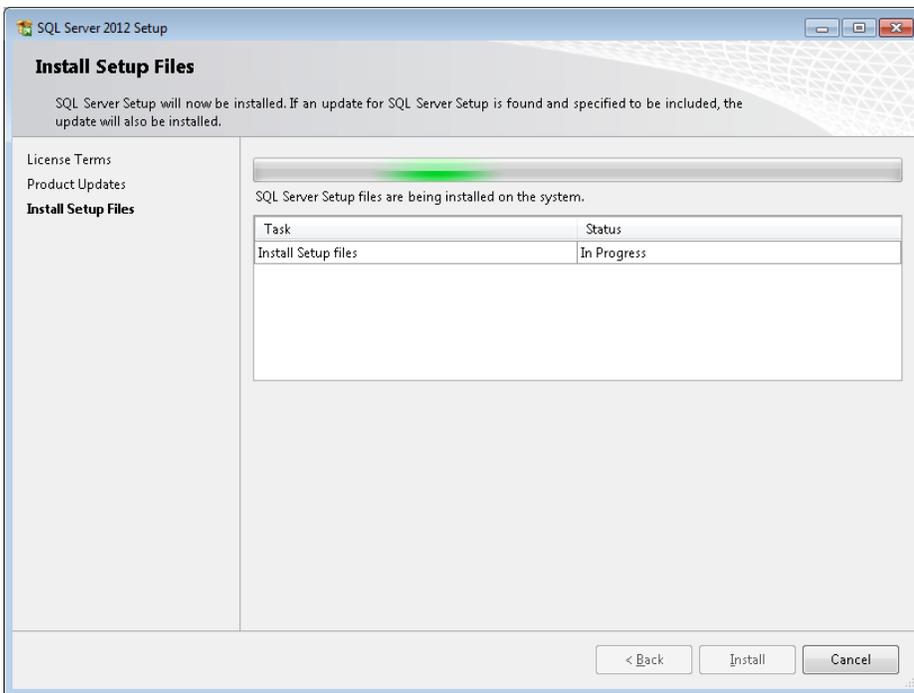
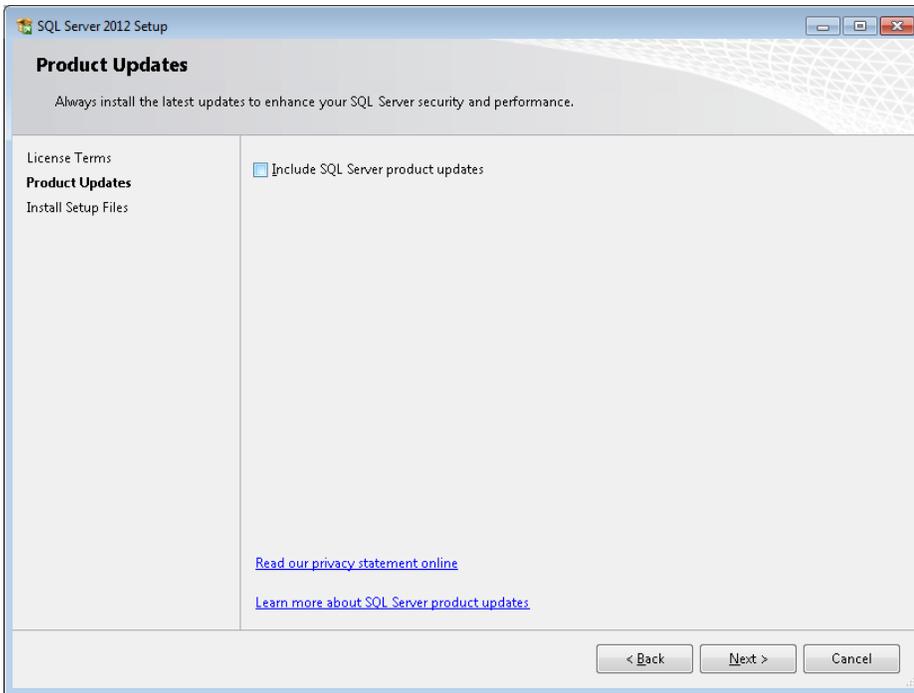
**\*\*Alternatively, you can perform a New SQL Server Installation from this same installation wizard\*\***



2. Select *“I accept the license terms”*. Do not elect to *‘Send feature usage data...’*



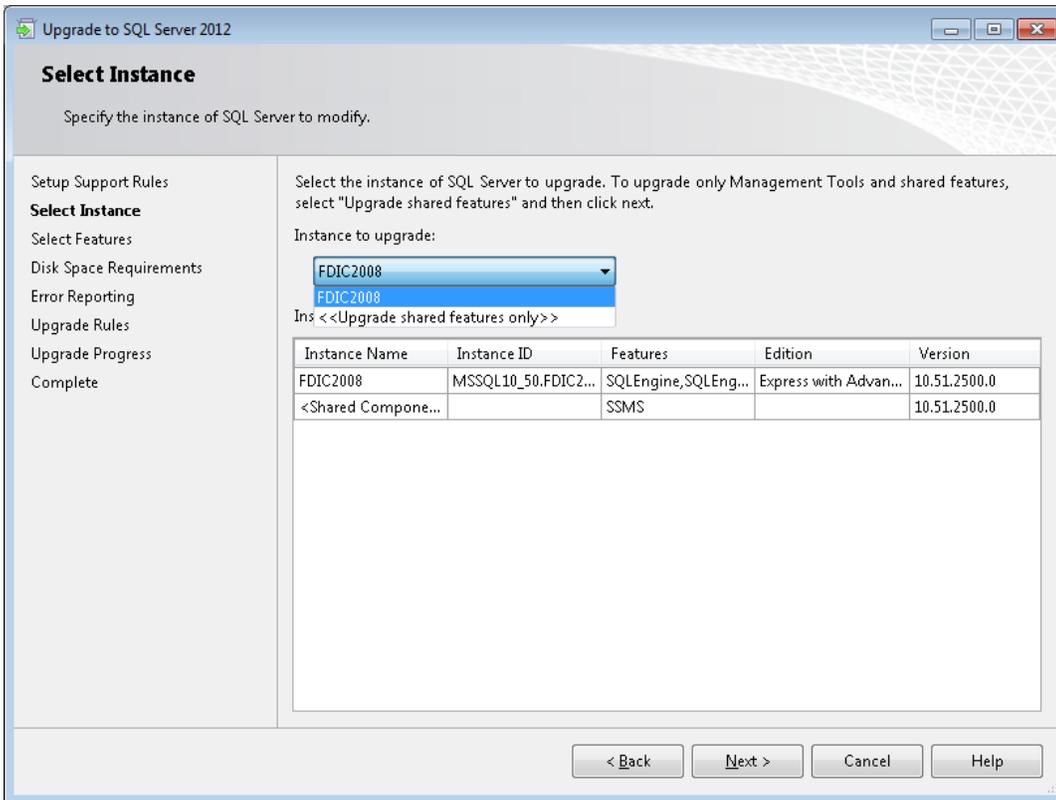
3. **For best results, do not** include SQL Server Product Updates (this will automatically update your SQL Server version with the latest version available which could cause unknown issues with ETS)
- This option may not be available for some users and will skip over this automatically.*
  - Installing Service Pack 3 for SQL Server 2012 will also upgrade the database and will automatically include you in the upgrade feature.*



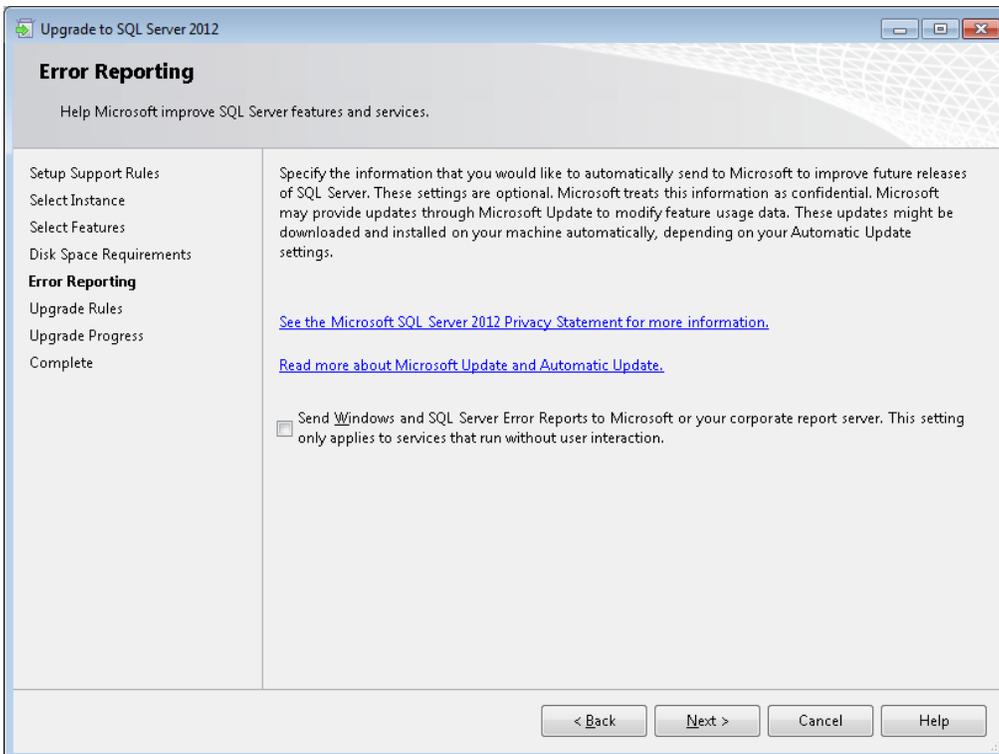
4. The next section is an important section. If you have multiple instances of SQL Server installed, make sure you choose 'FDIC2008' from the drop down menu then click Next.

**\*\*Other notes:**

- SQLEXPRESS → default instance created by SQL Server



5. Do not send information to Windows – ensure check box is unchecked – then click Next.



6. After the step above is completed, there will be an Upgrade Rules check that will run automatically. If any errors are detected, they will be identified and installation will stop. Make the necessary fixes and restart installation. If successful, the installation will continue.





9. All of the database configurations (database, logins, server roles, etc.) will be imported. If you had an ETS-ALERT database before-hand, you will notice the database was imported successfully!
10. Download ETS from the ClickOnce website: <https://ets.fdic.gov/ets/> and consult ETS-FREDDY if any other issues arise during installation.

### **.BAT File for Upgrade**

You can also upgrade SQL Server using a batch file in the same manner as before. Follow the same guidelines that were used for SQL 2008.

```
/Q  
/ACTION=Upgrade  
/IACCEPTSQLSERVERLICENSETERMS  
/INSTANCENAME="FDIC2008"  
/ISSVCAccount="NT AUTHORITY\Network Service"
```

After making the configuration changes, return the file to its original state by:

- Restore the text to one continuous string (with a single space preceding each slash "/")
  - In the actual .bat file, the above will appear as a continuous string of unbroken text. For viewing purposes, we have broken up the text string into the lines above.
- Save the file
- Confirm the file extension is ".bat" (and was not changed to .txt when you edited)

Execute the .bat file

- Place the .bat file in the same location (*C:/Users/%LocalUser%/Downloads*) as the SQL Server 2012 executable file (*SQEXPRADV\_x64\_ENU.exe*)
- Double-click to execute the .bat file

## Appendix B: Local Configuration of Port :5555

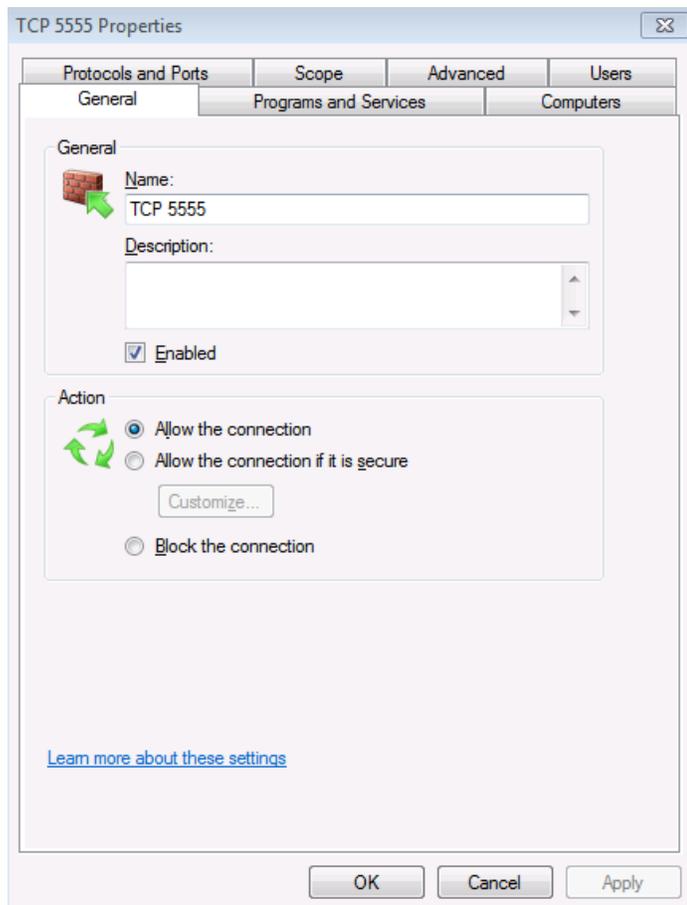
ETS uses a unique method to allow communication within the application. In order to perform peer-to-peer collaboration, port :5555 needs to be configured locally on each machine. To configure this port, you'll need to run the following script as an administrator. Copy the information below into a text file – when saving the file be sure to save it as a **.cmd** file.

```
@echo off
set type=BUILTIN
set group=USERS
call :concat %type% %group%
netsh http del urlacl url=http://+:5555/ETSCollaboration > nul:
netsh http add urlacl url=http://+:5555/ETSCollaboration user="%fullGroupName%" > nul:
if %ERRORLEVEL% == 1 goto error
netsh http show urlacl
pause
goto end
:error
echo.
echo Error creating new url acl - are you running as admin?
echo.
goto end
:concat
set fullGroupName=%~1%~2
:end
```

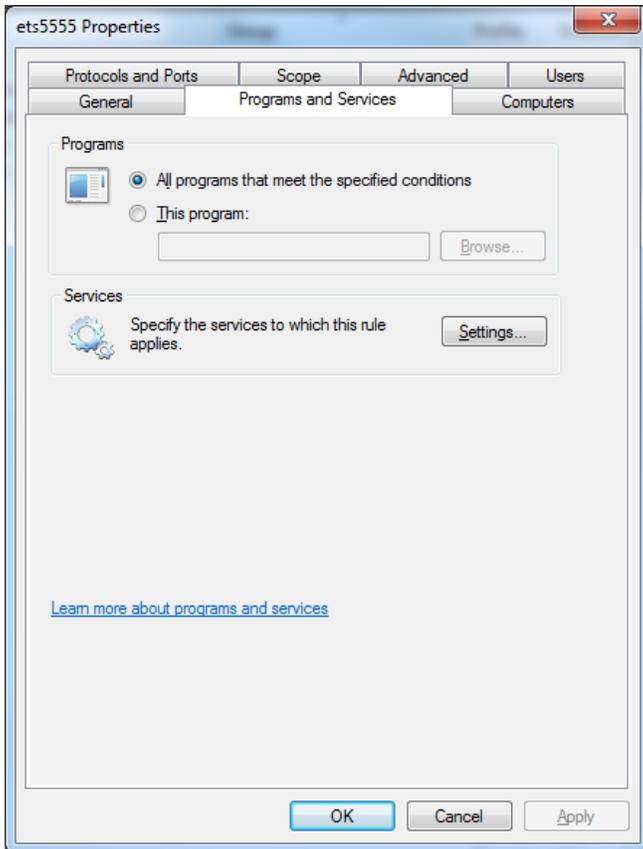
## Appendix C: Firewall Configuration

Generally speaking, ETS uses port 5555 for inbound TCP traffic and 3702 for inbound/outbound UDP traffic. Firewall rules must be in place that allows *both* inbound and outbound traffic. The screenshots and instructions below are for Windows Firewall. You may need to modify these if you are using different software. It is likely that examiners will not be able to change these settings; they will likely require administrative rights.

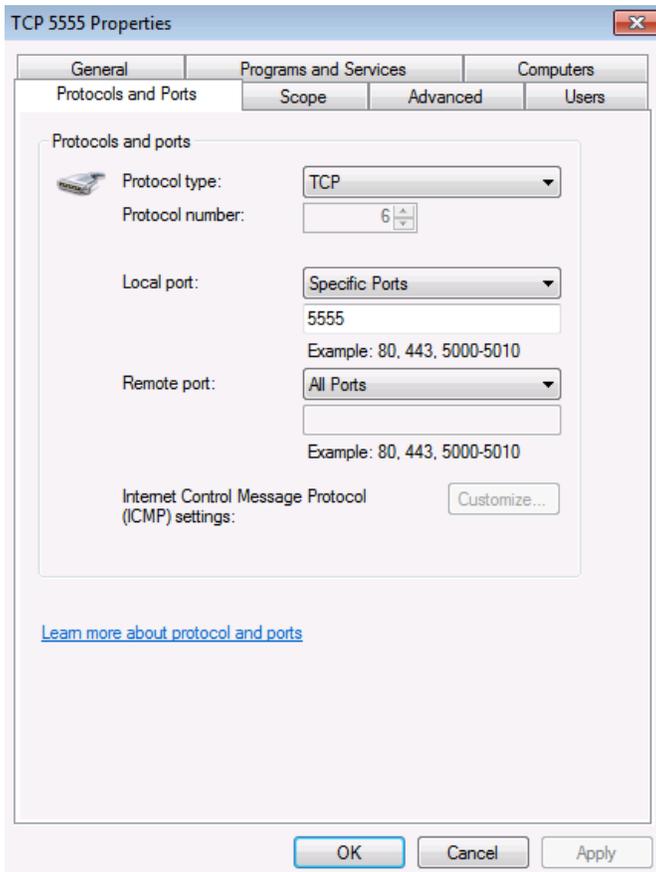
1. Open Windows Firewall with Advanced Settings
  - a. Right-click on either *Inbound Rules* or *Outbound Rules* in the upper left corner and select *New Rule*.
  - b. Select the *Port* radio button and enter "5555" (or UDP for *Specific Local Ports*, then select *Next*.)
  - c. Select the *Allow the Connection* radio button, then select *Next*.
  - d. Check the boxes for *Domain*, *Private*, *Public* profiles, then select *Next*.
  - e. Name the new rule. I used the name *TCP 5555* but you may choose any name.
  - f. Click *Finish*.
2. Locate your new rule in the body of the screen.
  - a. Right click your new rule and select *Properties*.
  - b. Edit each tab in the *Properties* menu as follows:



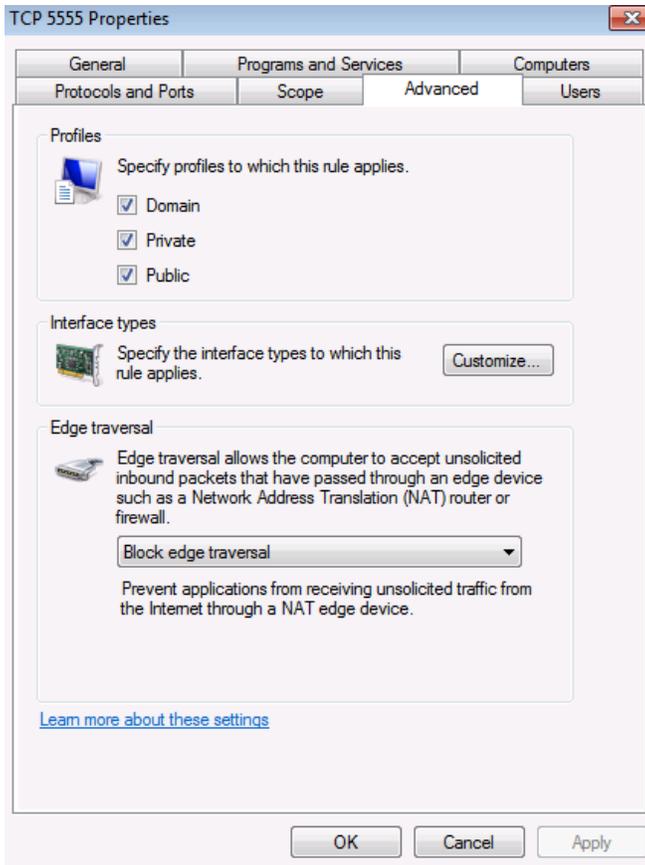
c.



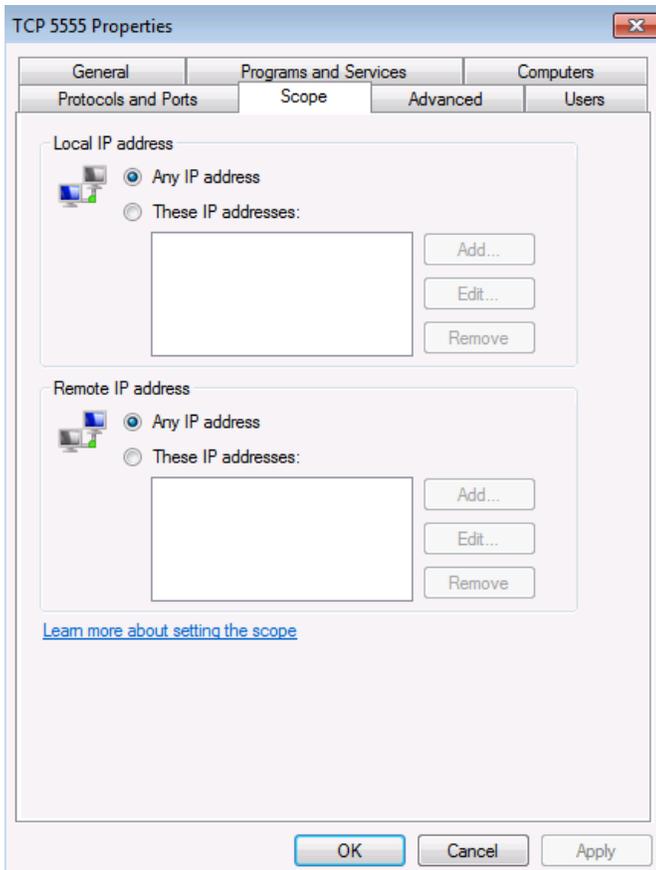
d.



e.



f.



g.

Note: port 5555 only needs to be open for local non-routable IP addresses. This is required for peer-to-peer collaboration over an ARUBA (or another similar device).

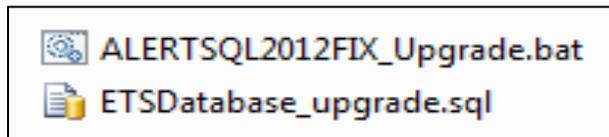
- h. The settings options for the *Computers* and *Users* tabs can remain unchecked, which is how they default.
- i. You can use these same instructions to set up the 3702 exception – just replace 5555 with 3702.
- j. Once you have changed the properties of your newly created rule to mirror the screenshots above on each tab (except *Computers* and *Users*), click *Apply*.

## Appendix D: ETS-ALERT Database Deployment Workaround for SQL 2012

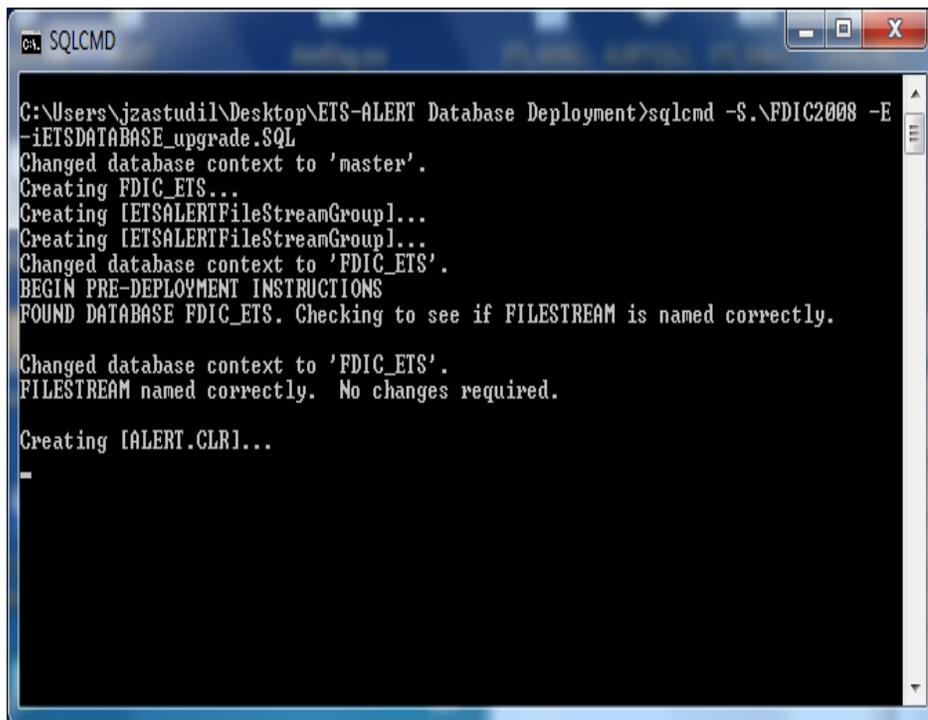
After upgrading SQL Server to 2012, the ETS-ALERT database (FDIC\_ETS) will not publish to SQL Server like it did in 2008. A key component – SQL Compact (CE) – must be installed before upgrading to SQL 2012. If either the 32-bit and 64-bit components are missing, ETS-ALERT may not work!

As a workaround, we have created a script that will install the database via a SQL query. The script is available on the CSBS website and can also be acquired by contacting the Examiner Help Desk ([ehelp@fdic.gov](mailto:ehelp@fdic.gov) , or 1-877-334-2999, then option 2)

1. Extract all files (.bat & .sql) to the desktop. The .bat file calls upon the .sql file, so both files need to be in the same location for the script to work.



2. Verify there is not a FDIC\_ETS database already present.
3. Double-click the .bat file to execute the script.
  - a. A command window will appear and begin running the script. Once it's finished, the cmd window will close automatically

A screenshot of a Windows command prompt window titled 'SQLCMD'. The window shows the execution of a script. The command entered is 'C:\Users\jzastudil\Desktop\ETS-ALERT Database Deployment>sqlcmd -S.\FDIC2008 -E -iETSDATABASE\_upgrade.SQL'. The output shows the script changing the database context to 'master', creating the 'FDIC\_ETS' database, and then checking the 'FILESTREAM' property. The output indicates that 'FILESTREAM' is named correctly and no changes are required. The script then begins to create '[ALERT.CLR]...'.

```
SQLCMD
C:\Users\jzastudil\Desktop\ETS-ALERT Database Deployment>sqlcmd -S.\FDIC2008 -E
-iETSDATABASE_upgrade.SQL
Changed database context to 'master'.
Creating FDIC_ETS...
Creating [ETSALETRFileStreamGroup]...
Creating [ETSALETRFileStreamGroup]...
Changed database context to 'FDIC_ETS'.
BEGIN PRE-DEPLOYMENT INSTRUCTIONS
FOUND DATABASE FDIC_ETS. Checking to see if FILESTREAM is named correctly.

Changed database context to 'FDIC_ETS'.
FILESTREAM named correctly. No changes required.

Creating [ALERT.CLR]...
-
```

4. Open ETS-ALERT