

**OECD Programme for  
International Student Assessment 2012**

**SYSTEMDIAGNOSTIKMANUAL**

**PISA MS 2012:  
CBA SYSTEMS DIAGNOSTIC  
MANUAL VERSION 2.0**

Januari 2012

**Consortium:**

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cApStAn Linguistic Quality Control (Belgium)

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## Inledning

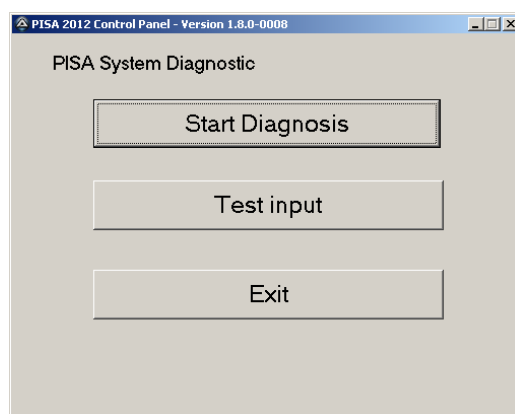
1. På er skola kommer upp till 16 elever att delta i det datorbaserade provet (CBA, Computer Based Assessment) som är en del av PISA utvärderingen. Det är därför viktigt att fastställa om de datorer som eleverna kommer att använda har den kapacitet som krävs för att köra provet framgångsrikt.
2. Denna manual ger instruktioner för hur systemdiagnostiken (SD, System Diagnostic) ska utföras för att testa datorernas förmåga att köra CBA provet. Informationen som systemdiagnosen ger gör att ni kan fylla i systemdiagnosformulären (CBA Systems Diagnostic test results forms) vilket gör att det kan fastställas hur många lämpliga datorer ni har i samma rum som man kan köra provet på. Denna information ska sedan vidarebefordras till det nationella centrat via [www.miun.se/pisa](http://www.miun.se/pisa) på *Datorresursblanketten* (Appendix 3) senast den **25 januari**. Som vanligt behöver ni ert Stratum (XX) och Skol ID (XXX) för att öppna formuläret. Ert Stratum och Skol ID finns på framsidan av denna manual.
3. Grundkraven som ställs på datorerna är:
  - Operativsystem – Windows XP, Windows Vista eller Windows 7
  - RAM – 512 MB (Windows XP), 1GB (Windows Vista och Windows 7)
  - Skärmutplösning – 1024 x 768 px
  - USB 2.0 eller 3.0 port
  - Pekdon – mus eller liknande
  - Tillgång till administratörsrättigheter
4. Om allt fungerar utan problem är det bara punkterna med större text, som den här, ni behöver läsa.
  5. *Punkterna med text som är lite mindre, kursiv, indragen och lite grå är där för att ge information och lösningar på de problem som eventuellt kan uppstå. Denna text behöver inte läsas om allt fungerar problemfritt.*
6. Systemdiagnosprogrammet är på engelska liksom större delen av denna manual. Vi hoppas att detta inte skall skapa problem för er. Vi har gjort några tillägg på svenska om saker som vi har stött på när vi har testkört programmet.
7. Hör gärna av er om ni har frågor eller om det uppstår problem, så får vi försöka lösa dem tillsammans.

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## Running the Systems Diagnostic

8. The CBA Systems Diagnostic (SD) runs from a single USB drive.
9. The operating system must be Windows XP, Windows Vista or Windows 7.
10. The SD provides a variety of checks. As a minimum, the **test input**, **basic check** and **virus scan of the USB** MUST be completed. A virus scan of the local hard drive and an advanced check are also recommended but are not mandatory. Each test is described in this manual.
11. To run the SD you must either 1) log in to the computer as a user with administrative rights; or, 2) run the application as a user with administrative rights. The 'run application as administrator' option will be available for the PISA test delivery system as well as for the SD. Please discuss which method will be used with the IT personnel who will be responsible for the actual PISA assessment at the school prior to the assessment day. If you intend to use the 'run application as administrator' option for the actual PISA assessment, it is important that it is tested properly while running the SD.<sup>1</sup> More information about the administrative rights for the SD and for the PISA CBA assessment can be found in this manual in Appendix 1.
12. To run the SD, turn on the computer and make sure no applications are running.
13. Insert the SD USB and open Windows Explorer/Utforskaren. Locate the executable file in the root directory of the USB called '**PISAMenu.exe**'. If you are logged into the computer as a user with administrative rights, simply double-click on this file to run it. If you plan to run only the application as a user with administrative rights, right click on the file, select 'Run as administrator' or 'Run as...' or 'Open as...' (depending on the operating system), and select to run the application as a user with administrative rights.
14. The user must have an account with administrative rights to run the SD. This is explained further in Appendix 1.
15. The following control panel will appear:

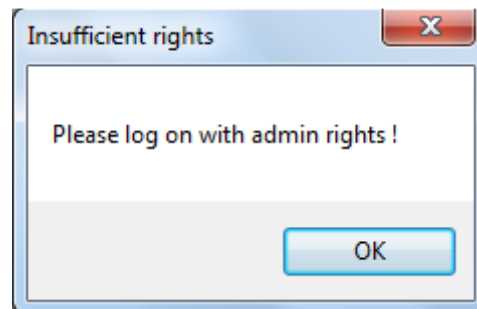


**Figure 1: Diagnostic delivery control panel**

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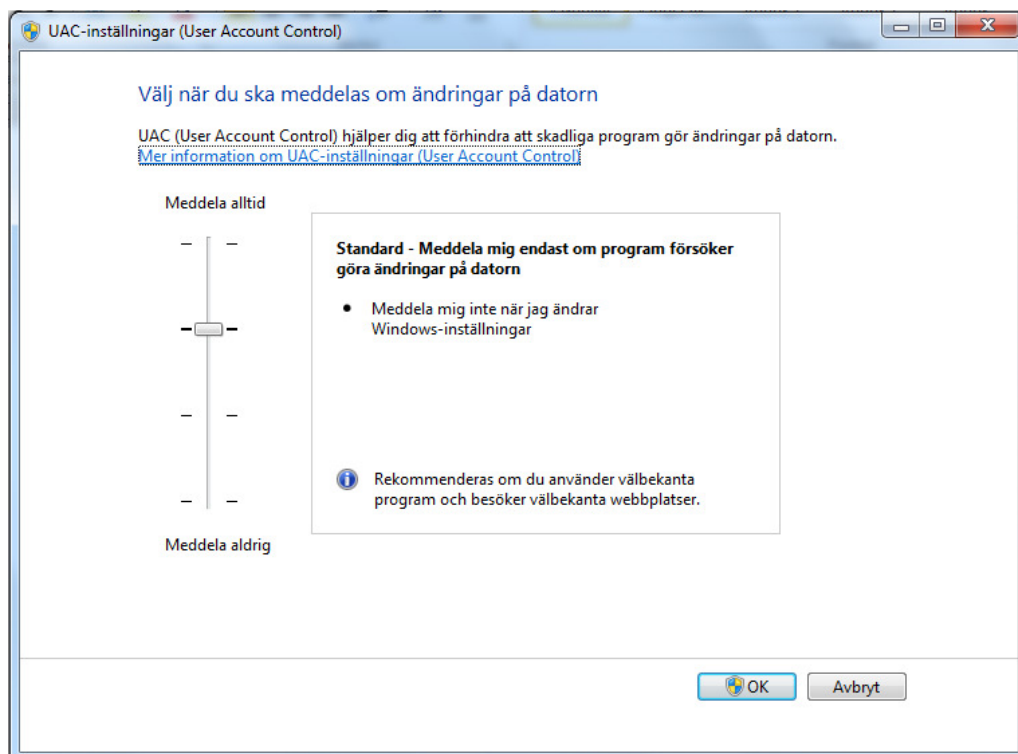
<sup>1</sup> The 'run application as administrator' option appears by default for Win7, Vista and XP but this default can be disabled, and if it is, it will need to be re-enabled.

16. Om du har **Windows 7** och använder den 1:a metoden (är inloggad som administratör) och istället för systemdiagnostikpanelen får upp en ruta om otillräckliga rättigheter, trots att du är inloggad som administratör, kan du prova den andra metoden (högerklicka och välja "kör som...", "Öppna som..." eller likande, välja en administratör och skriva in lösenord).



**Figure 2: Not logged on with admin rights**

17. Om inte detta skulle fungera måste du sänka säkerhetsnivån. Detta gör du genom att gå in i kontrollpanelen via start > inställningar, välja "Användarkonton och Barnspärr > Användarkonton > Ändra inställningar för User Account Control".



**Figure 3: UCA-inställningar (User Account Control)**

18. Det som behöver göras är att sänka nivån till den lägsta, "Meddela aldrig" och tryck OK.
19. Du får då en följdfråga, "Tillåter du att följande program gör ändringar på din dator – UCA". Svara Ja.
20. För att ändringen ska verkställas behöver datorn startas om. Starta om datorn och kör programmet "PISAmenu.exe".
21. Click on the **'Start Diagnosis'** button in the 'PISA 2012 Control Panel' and the following screen will appear:

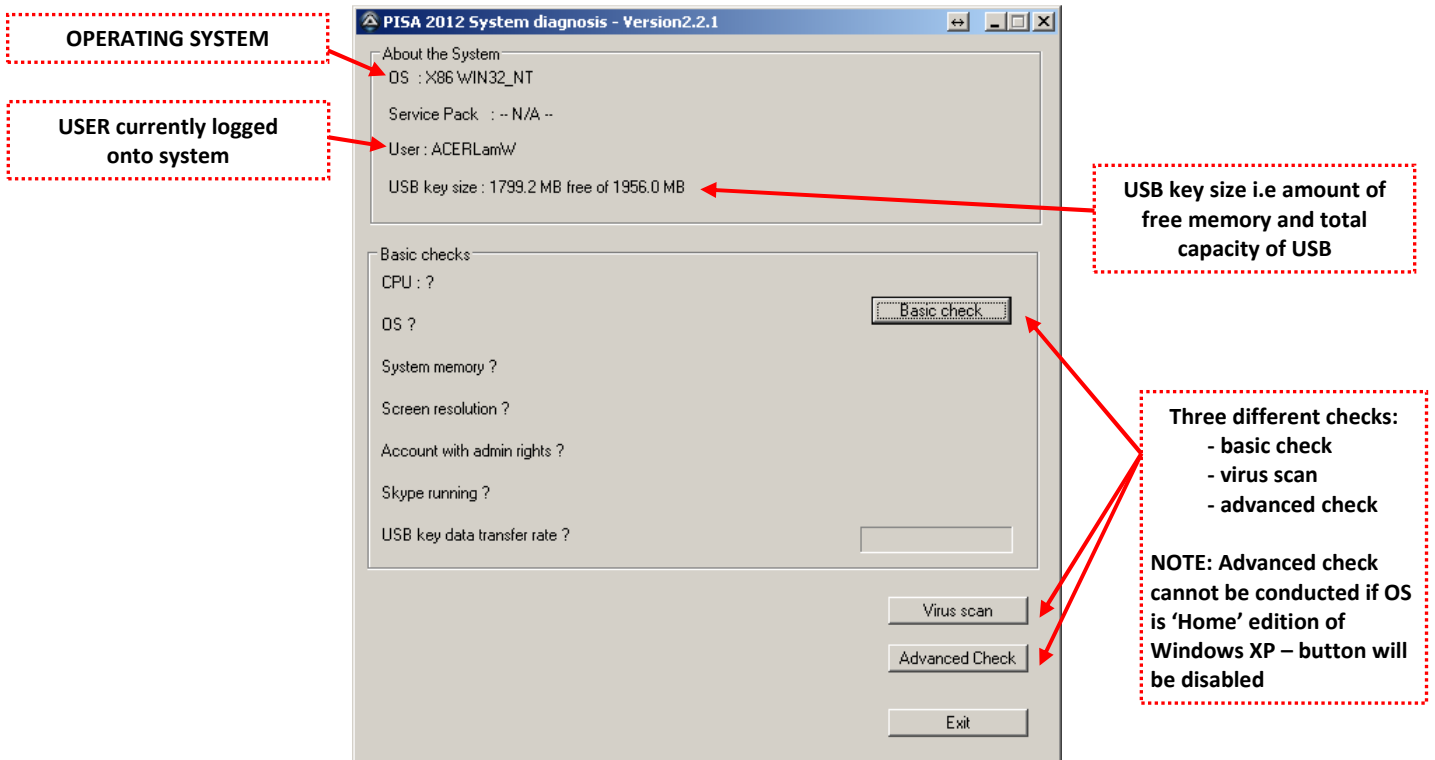


Figure 4: Diagnosis interface

### Basic check

22. Click on the **'Basic check'** button on the right of the screen. This check may take a few seconds to run. Below is an example of what will appear when the basic check is complete and all tests have been passed.

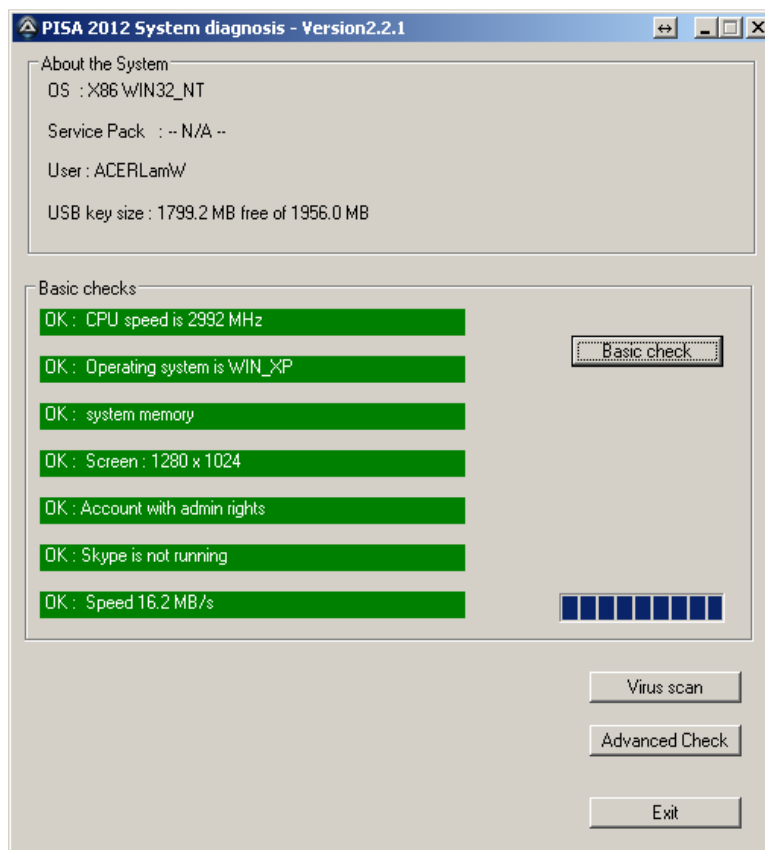


Figure 5: Diagnosis interface – successful basic check

23. The following table indicates each type of test in the basic check, what is checked, the associated requirement for the CBA test and the possible messages that will appear in the centre section of the screen above.

**Table 1: Tests of the basic check**

| Label             | What is being checked?                         | Requirement for CBA   | Message if OK                                      |  | Message if failed   |
|-------------------|--|---|--|--|---|
| CPU               | The speed of the CPU installed in MHz          | Must be at least 1500Mhz  | OK : CPU speed is <n> MHz                          |  | Failed : CPU speed is <n> MHz   |
| OS                | The operating system                           | Must be Windows XP, Windows Vista or Windows 7  | OK : Operating system is < Win XP/Win Vista/Win 7> |  | Failed : Operating system is <system other than Win XP, Win Vista, Win 7> |
| System memory     | i) The memory installed on the computer in MB  | Required memory for Windows XP = 512 MB<br>Required memory for Windows VISTA = 1024 MB<br>Required memory for Windows 7 = 1024 MB   | OK : System memory                                 |  | Failed : System memory installed (required <n> MB)                        |
|                   | ii) The available memory                       | To achieve GREEN available memory must be above:<br>358 MB for Windows XP<br>717 MB for Windows VISTA<br>717 MB for Windows 7<br><br>■■■■■■■■<br>To achieve ORANGE (borderline) available memory must be:<br>between 307 MB and 358 MB for Windows XP<br>between 614 MB and 717 MB for Windows Vista<br>between 614 MB and 717 MB for Windows 7 | OK : System memory                                 | Caution: memory available is borderline: | Failed : Insufficient system memory available (required <n> MB)           |
| Screen resolution | The current screen resolution (width x height) | Minimal screen width = 1024 px<br>Minimal screen height = 768 px  | OK : Screen : Width x Height                       |  | Failed : Screen : Width x Height  |

| Label                      | What is being checked?                                    | Requirement for CBA   | Message if OK                  | Message if failed   |
|----------------------------|---|---|--------------------------------|---|
| Account with admin rights  | Whether the current user is logged in as an administrator | Must be logged onto the operating system with an account with administrator rights<br>OR<br>Must run the PISA application as an administrator | OK : Account with admin rights | ***FAIL IS NOT POSSIBLE***<br>SD cannot be run by a user that does not have administrative rights.                |
| Skype running              | If Skype is running on the computer                       | The CBA assessment cannot run with Skype running  | OK : Skype is not running      | Failed : Skype should not be running  |
| USB key data transfer rate | The USB key data transfer rate in MB/s                    | Required USB data transfer rate = 9 MB/s  | OK : Speed <n> MB/s            | Failed : Speed <n> MB/s OR<br>Can't run the test - in cases where the program could not detect the transfer rate. |

24. If all tests in the basic check are highlighted in green and labelled 'OK', the computer is suitable for running the CBA assessment. If any of the tests appear in red and are labelled 'Failed', the computer may not be suitable. An example of the diagnosis interface when the computer has failed a test is shown below.

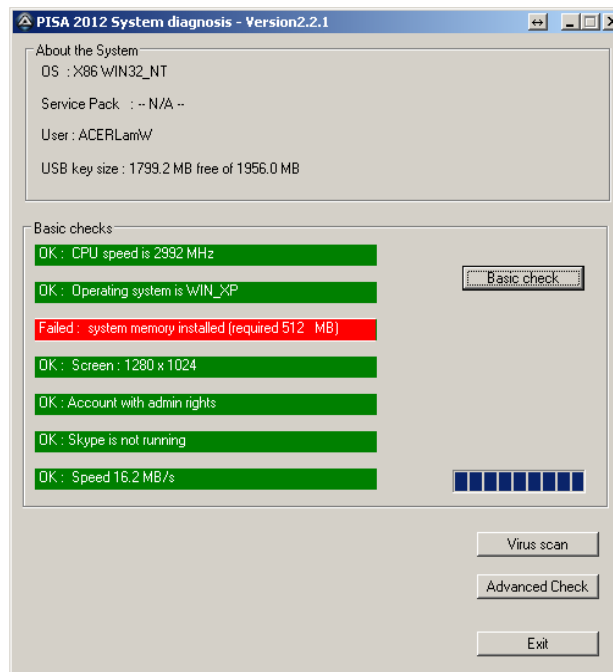
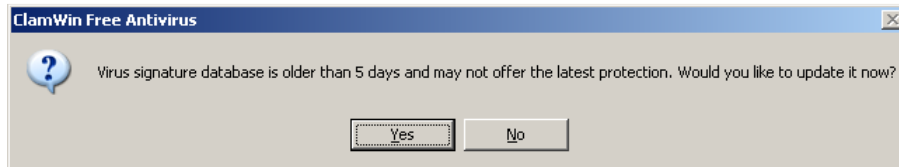


Figure 6: Diagnosis interface – memory test failed in basic check

25. For each computer tested, please **complete the test results form** on page 17. Please refer to the section *Reporting results* for more information.

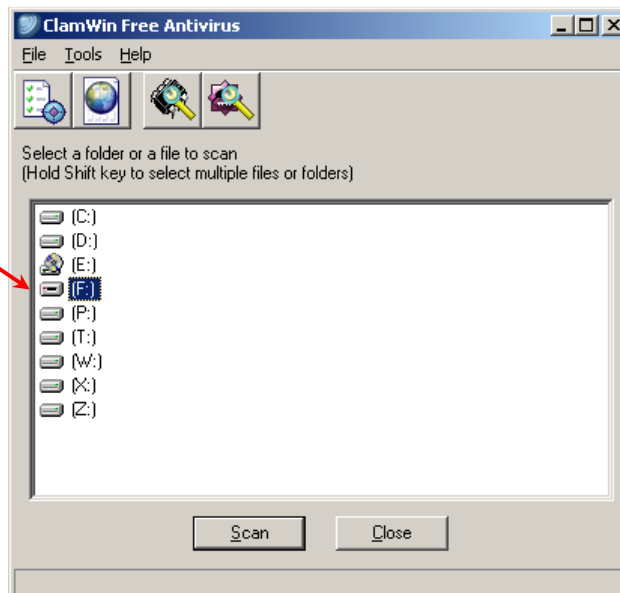
## Virus scan

26. The virus scan can be used to check any drive on your computer. **The scan must be completed on the USB drive** and will take approximately 30 seconds.
27. It is recommended (but not mandatory) to also run the scan on the local hard drive. Please note that this may take between two and five hours for each computer.
28. To run the virus scan, click on the 'Virus Scan' button on the bottom right of the diagnosis interface. If the dialogue box shown below appears, click '**No**' to proceed.



**Figure 7: ClamWin 'update signature database' dialogue**

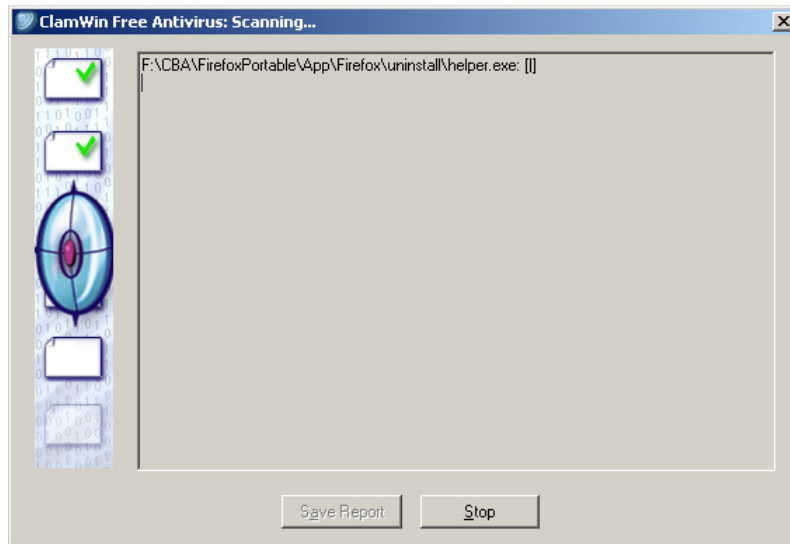
29. All local and network drives will appear as available for scanning. The following screen shot is an example of what will appear when 9 drives (including USB) are available for scanning.



**Make sure the USB drive is selected. If you are not sure which is the USB drive, open Windows Explorer/Utforskaren to check.**

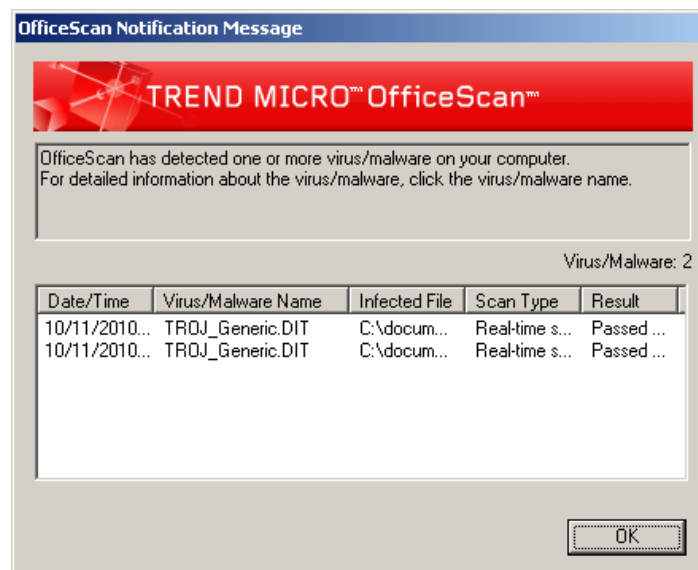
**Figure 8: Virus scan - selecting drive to be scanned**

30. To **scan the USB drive**, ensure that the correct drive is selected, then click on the '**Scan**' button at the bottom of the screen. The following screen will appear and may take approximately 30 seconds to run on the USB (or up to 5 hours for the local hard drive scan).



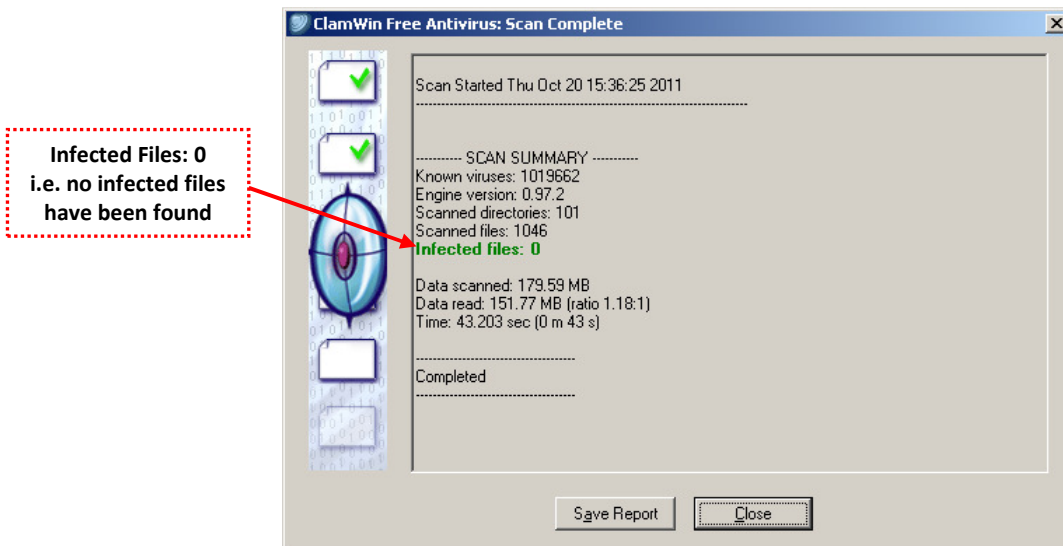
**Figure 9: Virus scan - scan in process**

31. Please note that while the virus scan is running the computer's local antivirus software may detect the virus scan software being used for PISA (ClamWin Free Antivirus) as a virus. **This is normal and should be ignored.** Below is an example of the screen that appears when Trend Micro OfficeScan is the local antivirus software. Dialog screens and options will vary depending on the type of antivirus software installed locally.



**Figure 10: Trend Micro Office Scan detecting ClamWin as virus**

32. In this example, the local virus scanner (Trend Micro Office Scan) has detected the Systems Diagnostic virus scanner (ClamWin Free Antivirus) as a virus. If this occurs click 'OK' and the virus scan will continue.
33. The following screen is an example of what will appear when the SD virus scan is complete.



**Figure 11: Virus scan - scan complete with no infected files**

34. In this example no infected files were found.

35. *If, however, the scan indicates that there are infected files, you will need to clean the USB (or local hard drive) with professional antivirus software or return the USB to NC (PISA Nationellt Center i Härnösand). Until the virus scan reveals that there are no infected files on the USB drive, the USB should not be used to run the CBA.*

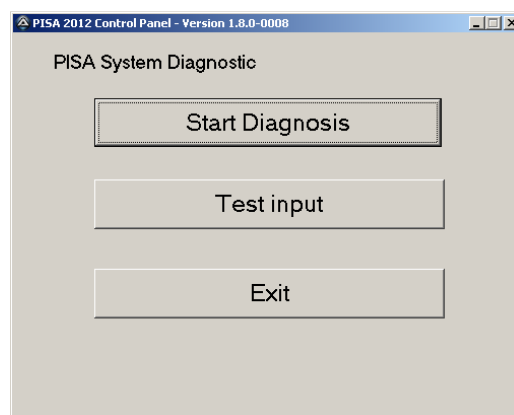
36. Click on the **'Close'** button to exit the Summary and then again to exit the virus scan.

### Advanced check – optional

37. The advanced check is a more detailed scan of the memory of the computer. By selecting this option, a text file is written to the USB that contains information regarding the computer's memory. This may take a few minutes to complete. While the check is running, the cursor changes into an hourglass icon. It is not a requirement to run this check unless requested to do so by your NC, who may then request some specific information from this text file.

### Test input

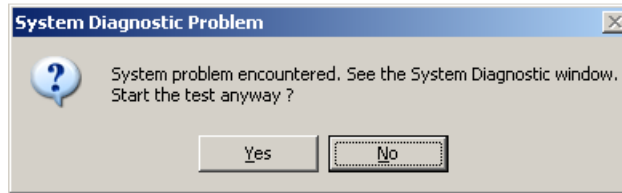
38. Click on the **'Exit'** button in the diagnosis interface and return to the control panel.



**Figure 12: Diagnostic delivery control panel**

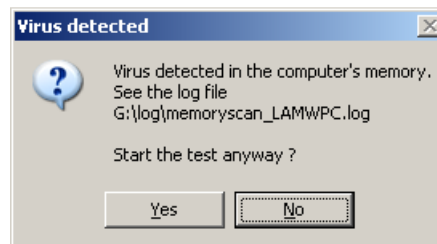
39. Click on the **'Test input'** button. An automatic systems diagnosis basic check and a virus scan of the memory will commence. This will take two or more minutes depending on the size of the computer's memory.

40. If the computer fails part of the additional system check, the popup shown below will appear, and the diagnosis interface will also appear and show which test(s) in the basic check the computer failed. You should click 'No', check the systems diagnostic interface (Figure 5) for information about which test has failed, and attempt to resolve the issue.



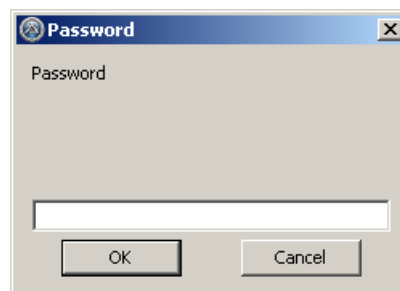
**Figure 13: Systems diagnostic – problem encountered**

41. If the software indicates that a virus is detected a popup window shown below will appear. You may choose to proceed but it is recommended to clean the computer with professional antivirus software first. This reduces the likelihood that a virus will be transferred to the USB.



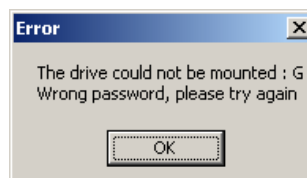
**Figure 14: Popup indicating virus detection**

42. Once the virus scan is complete, the popup shown below will appear. Enter the **password 123456789**.



**Figure 15: Password popup**

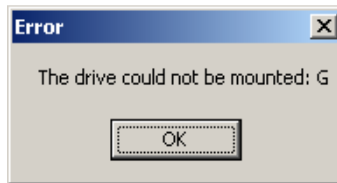
43. Om du får upp en ruta som säger "oförmögen att ansluta"/"Unable to connect", klicka då på "försök igen"/"retry" ett par gånger, om det fortfarande inte fungerar tryck ALT+TAB för att komma tillbaka till 'PISA 2012 Control Panel' där du trycker på 'exit' och tar ut USB minnet. Börja sedan om proceduren för att köra "Test Input". Om det ändå inte fungerar måste du starta om datorn och försöka igen.
44. If you enter an incorrect password, the popup shown below will appear.



**Figure 16: Popup indicating entry of incorrect password**

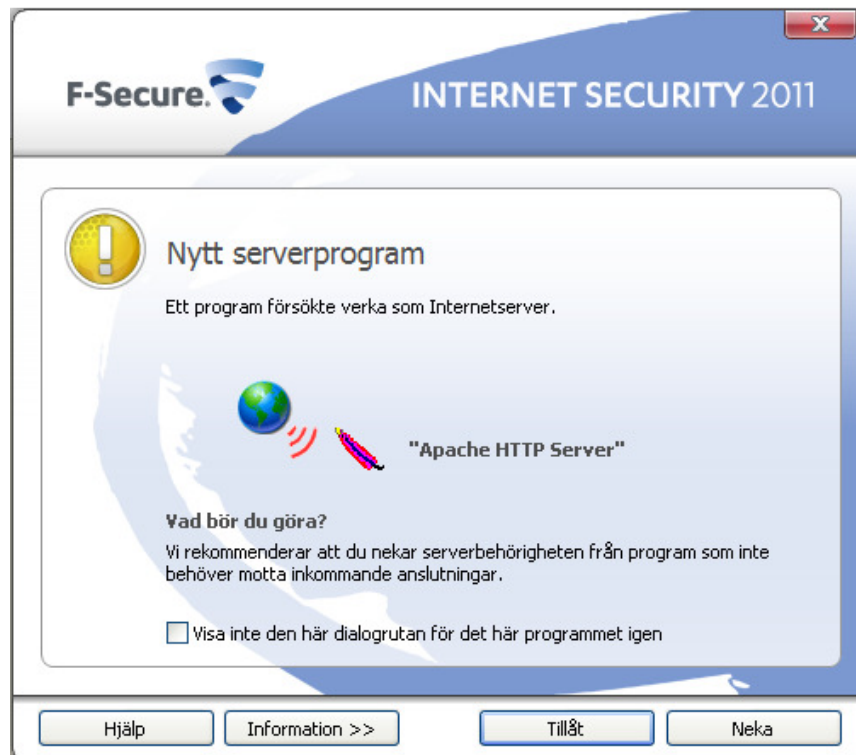
45. If the program cannot mount a local drive from which to run the assessment, the popup shown below will appear. In this case, return to the diagnostic delivery control panel, click

'Exit', eject the USB and start the process again. If the error persists, restart the computer before trying again.<sup>2</sup> (Appendix 2)



**Figure 17: Popup indicating some other error**

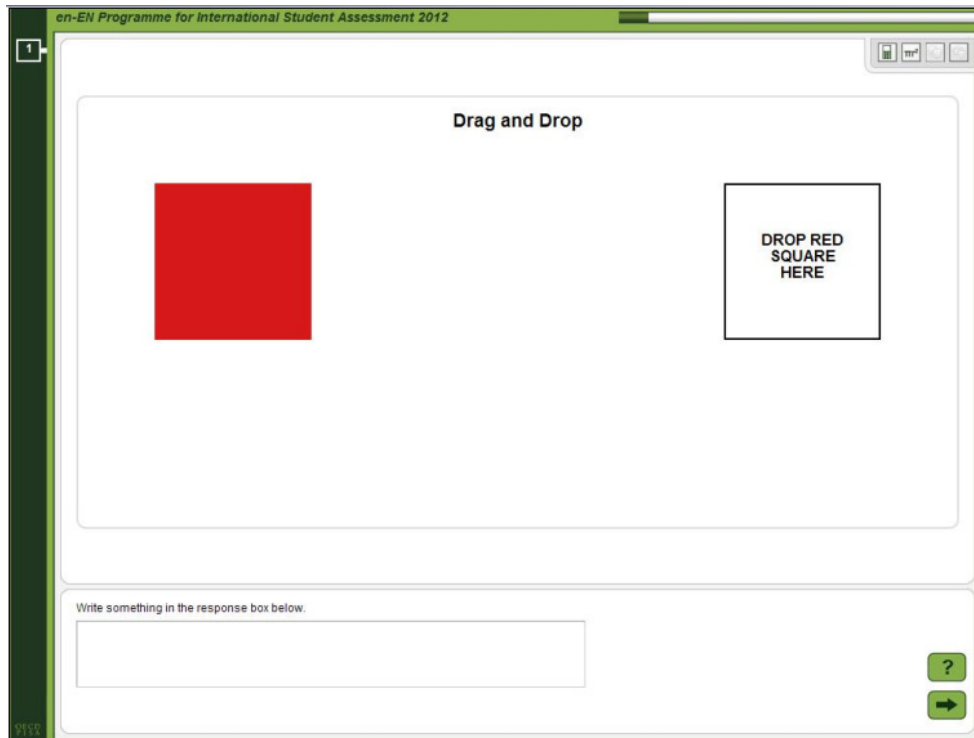
46. Om du får en säkerhetsvarning om att ett program ("Apache HTTP Server") försöker verka som en internet server. Klicka då på **Tillåt** och 'Mock item' (Figur 19) visar sig.




**Figure 18: Säkerhetsvarning från datorns lokala virusprogram**

47. Om du fyllt i lösenordet korrekt och allt fungerar så visas först en helt vit skärm och därefter följande skärm.

<sup>2</sup> Usually the program cannot mount a local drive properly because a previously mounted drive has not been properly removed. This can occur when the USB has been removed without fully exiting the test. Ejecting the USB, restarting the computer, and re-inserting the USB should solve this problem. If it does not, instructions about how to safely remove a drive can be found in *APPENDIX 2: Dismounting a drive*



**Figure 19: PISA 2012 mock item**

48. *If no page appears, press ALT+TAB to return to the control panel and click on the 'Exit' button. Eject the USB from the computer and start the process of running the 'Test input' check again. If the error continues, restart the computer before trying again.*
49. This 'mock item' is designed to test if the functionality of the CBA will work on the computer. Please **complete the following**:
- a. **Drag and drop** the box as indicated and record whether this function works.
  - b. **Enter text** into the text box and record whether this function works.
50. Once complete, exit the application by:
- 1) pressing **ALT+TAB** to access the control panel and clicking on the '**Exit**' button,  
or
  - 2) clicking on the 'next question' button (  ) at the bottom right and answer **Yes** to the question 'Do you want to go to the next question?' (this will automatically close Firefox portable) and then click on the '**Exit**' button.
51. The USB can then be ejected from the computer.

## Reporting results

52. For each computer tested, please complete the test results table below. Make photocopies as required.
53. Please then collate the information from all test results and determine how many computers are suitable in a single room for CBA testing.
54. Denna information ska sedan vidarebefordras till det nationella centrat via [www.miun.se/pisa](http://www.miun.se/pisa) på *Datorresursblanketten* (Appendix 3) senast den **25 januari**. Som vanligt behöver ni ert Stratun (XX) och Skol ID (XXX) för att öppna formuläret. Ert stratum och skol ID finns på framsidan av denna manual.

| CBA SYSTEMS DIAGNOSTIC TEST RESULTS FORM |  |
|--|--|
| <b>BASIC CHECKS</b>                      |  |
| <b>CPU</b>                               | <input type="checkbox"/> OK <input type="checkbox"/> FAILED  |
| <b>OS</b>                                | <input type="checkbox"/> OK <input type="checkbox"/> FAILED  |
| <b>System memory</b>                     | <input type="checkbox"/> OK <input type="checkbox"/> BORDERLINE <input type="checkbox"/> FAILED  |
| <b>Screen resolution</b>                 | <input type="checkbox"/> OK <input type="checkbox"/> FAILED  |
| <b>Account with admin rights</b>         | <input type="checkbox"/> Logged in to computer with account that has admin rights<br><input type="checkbox"/> Logged in to computer with account that does not have admin rights but ran application with administrator password |
| <b>Skype running?</b>                    | <input type="checkbox"/> OK <input type="checkbox"/> FAILED  |
| <b>USB key data transfer rate</b>        | <input type="checkbox"/> OK <input type="checkbox"/> FAILED  |
| <b>VIRUS SCAN</b>                        |  |
| USB Drive                                | <input type="checkbox"/> OK <input type="checkbox"/> FAILED but corrected <input type="checkbox"/> FAILED  |
| Local Hard Drive                         | <input type="checkbox"/> OK <input type="checkbox"/> FAILED but corrected <input type="checkbox"/> FAILED <input type="checkbox"/> Not Applied   |
| <b>ADVANCED CHECK</b>                    | <input type="checkbox"/> Not Applied <input type="checkbox"/> OK <input type="checkbox"/> FAILED   |
| <b>TEST INPUT</b>                        |  |
| <b>Drag and drop</b>                     | <input type="checkbox"/> OK <input type="checkbox"/> FAILED  |
| <b>Enter text</b>                        | <input type="checkbox"/> OK <input type="checkbox"/> FAILED  |
| <b>COMMENTS</b>                          |  |
| <b>IS THE COMPUTER SUITABLE?*</b>        | <input type="checkbox"/> YES <input type="checkbox"/> NO   |

**\* Instructions for establishing if the computer is suitable**

55. Use the information in the summary section of the Basic checks to establish if the computer is suitable for the CBA test:
- a. If all tests are OK (or 'Not Applied') then the computer is suitable for the CBA test.
  - b. If 'CPU', 'OS' or 'System memory' tests fail, the computer is not suitable for the CBA test.
  - c. If the 'System memory' test fails or is borderline because there is not enough available memory, make sure all other applications are closed and then run the test again. If the system memory test still fails due to insufficient available memory, the computer is not suitable for the CBA test. If the system memory test is borderline due to insufficient memory even after it has been confirmed that no other applications are running, then only proceed using the computer if no other computers are available. Borderline memory may cause the test delivery system to crash.
  - d. If the 'screen resolution' test fails, you may attempt to alter the screen resolution. To do this, go to 'Settings' and then 'Control Panel' from the 'Start' menu. Open 'Display' and go to the 'Settings' tab. Ensure that the resolution is set to *at least* 1024 x 768 pixels. If this level of resolution is not available the computer is not suitable for running the CBA test. If this level of resolution is available, apply the new settings and run the basic check again. If the 'screen resolution' test is ok, the computer is suitable with this setting; if it fails the computer is not suitable for the CBA test.
  - e. If the 'Skype' test fails, ensure that Skype is shut down on the local computer and run the basic check again. If the 'Skype' test still fails the computer is not suitable for running the CBA test.
  - f. If the 'USB Key data transfer rate' test fails, the USB is not suitable for running the test and you will need to contact your NC. A USB that has a data transfer rate of 9 MB/s must be used.

**Exit**

56. Once the basic check, virus scan, advanced check (if applicable) and mock item check have been completed, please exit the SD by clicking on the 'Exit' button on the control panel and remove the USB from the computer.

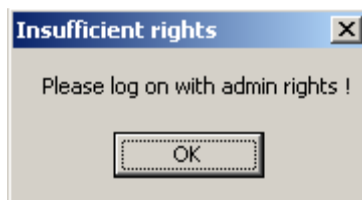
**Return of materials**

57. Ni behöver inte skicka tillbaka USB minnet utan behåll det så länge ifall det dyker upp nya datorer som ni behöver testa. När sedan PISA provet är över stoppar ni minnet i lådan tillsammans med resten av provmaterialet som ska skickas tillbaka till NC i Härnösand.

**Tack för hjälpen!**

## APPENDIX 1: Administrative rights for the SD and test delivery system

1. The two options for running the SD are:
  - to be logged into the computer as a user with administrative rights; or,
  - to be logged into the computer as any type of user but then choose to run the application as a user with administrative rights.
2. These two options will be available for the test delivery system as well as for the SD. Please note having administrative rights is an unavoidable Windows user management system requirement for running any executable program from USB. It is not a design feature specific to the PISA system diagnostic or test delivery system.
3. You will need to record the option that was used to run the SD in the CBA Systems Diagnostic Test Results Form. IMPORTANT: the option you used to run the SD should be the option that the Test Administrator will use to deliver the PISA assessments to the students.
4. The 'run application as administrator'/'Kör som administratör' option can be used if there are security concerns about having students logged into computers with full administrative rights. With the 'run application as administrator' option, the user does not have administrative rights to anything beyond the application.
5. If you attempt to run the SD as a user without administrative rights, the following message box will appear.



**Figure 20: Not logged on with admin rights**

6. There are three options in this case:
  - Option 1: Logging into the computer with an account with administrative rights***
    - Exit the program, eject the USB and shut down the computer. Then restart and go to 'Start' > 'Settings' > 'Control Panel', open 'User accounts' and select a user with administrative privileges. This will require the entry of a password.
  - Option 2: Changing the rights of the account with which the user has logged in to the computer***
    - Exit the program. Log out of the computer and log back in with the main administrator account. Go to 'Start' > 'Settings' > 'Control Panel', open 'User accounts' and change the rights of the user that was previously logged in to administrative rights. This will require entry of a password.
  - Option 3: Running the PISA SD application as an administrator***
    - Exit the program then navigate to the root of the USB and right-click on the 'PISAmenu.exe' file. Depending on the operating system there will be an option such as

‘Run as administrator’, ‘Run as...’, or ‘Open as...’. If the first option appears, select it. If the option is ‘Run as...’ or ‘Open as...’ select it then, in the next dialogue that appears, choose to run the application as a user with administrative privileges. This will require entry of a password.<sup>3</sup>

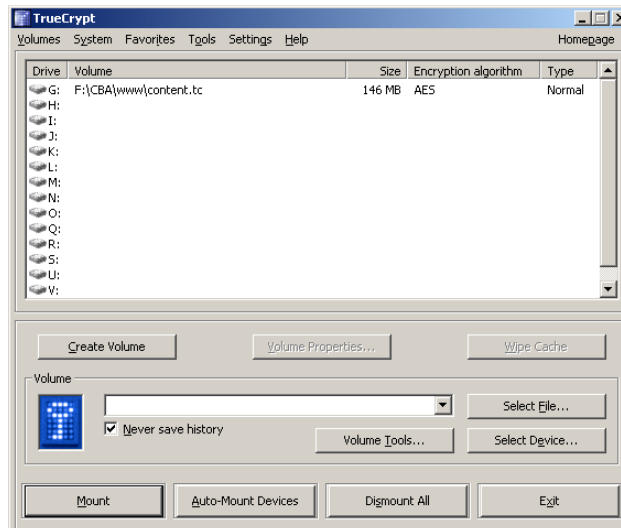
7. To reduce any concerns about providing passwords to administrative accounts to Test Administrators on assessment day, the school IT coordinator could create a temporary account with administrative rights prior to the test, provide the password on the day of the test, and delete the temporary account as soon as the testing is finished.
8. For more detailed instructions about adjusting the user rights on computers, visit one of the following websites (depending on the operating system). Regardless of whether you choose to run the SD logged into the computer as an administrator or whether you choose to simply run the application as a user with administrative rights, you will need to know the password to access the administrator accounts.

| Operating system | Creating user accounts  | Creating user account group membership  |
|------------------|---|---|
| Windows XP       | <a href="http://www.microsoft.com/windowsxp/using/setup/winxp/accounts.mspx">http://www.microsoft.com/windowsxp/using/setup/winxp/accounts.mspx</a>         | <a href="http://www.microsoft.com/resources/documentation/windows/xp/all/proddocs/en-us/usercpl_change_group.mspx?mfr=true">http://www.microsoft.com/resources/documentation/windows/xp/all/proddocs/en-us/usercpl_change_group.mspx?mfr=true</a> |
| Windows Vista    | <a href="http://windows.microsoft.com/en-US/windows-vista/Create-a-user-account">http://windows.microsoft.com/en-US/windows-vista/Create-a-user-account</a> | <a href="http://windows.microsoft.com/en-US/windows-vista/Change-a-users-account-type">http://windows.microsoft.com/en-US/windows-vista/Change-a-users-account-type</a>   |
| Windows 7        | <a href="http://windows.microsoft.com/en-us/Windows7/Create-a-user-account">http://windows.microsoft.com/en-us/Windows7/Create-a-user-account</a>           | <a href="http://windows.microsoft.com/en-us/windows7/Change-a-users-account-type">http://windows.microsoft.com/en-us/windows7/Change-a-users-account-type</a>   |

<sup>3</sup> The ‘run application as administrator’ option appears by default for Win7, Vista and XP but this default can be disabled, and if it is, it will need to be re-enabled.

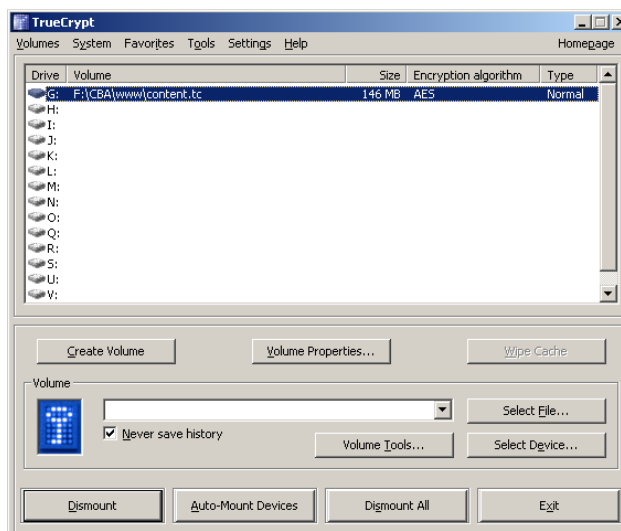
## APPENDIX 2: Dismounting a drive

1. If a local drive does not dismount properly, even after removing the USB and restarting the computer, then the drive must be manually dismounted. To do this, go to the \CBA\TrueCrypt directory in the USB drive. Run the 'TrueCrypt.exe' file. A screen resembling the one below should appear (the appearance of the screen may vary for different operating systems).



**Figure 21: TrueCrypt window when first opened**

2. The drive that did not dismount properly will be shown in the list. Click on it to select it, and the 'Mount' button in the bottom left of the screen in Figure above will change to a 'Dismount' button as shown in Figure below. Click 'Dismount' to dismount the drive, and if you are asked if you want to force dismount, click 'Yes'. Then exit TrueCrypt by clicking 'Exit'. It should now be possible to enter the encryption password and successfully re-load the test at the correct point.



**Figure 22: TrueCrypt window with drive that did not dismount selected**

## APPENDIX 3: Datorresursblankett

### <<Skola>>

Hur många lämpliga datorer som testats med Systemdiagnostik USB finns i ett och samma rum?

datorer kan köra CBA-provet

Provet måste köras från ett konto med administratörsrättigheter.

Hur loggar ni in?

Vi loggar in alla datorer med administratörsrättigheter

Vi kör applikationen med administratörsrättigheter

Vem loggar in på provdagen?

Datoransvarige är närvarande och loggar in alternativt startar applikationen

Provledaren har administratörsrättigheter och loggar in alternativt startar applikationen

Kommentarer

Skicka



