Abaxis Data Manager
User Manual
Introduction

The Abaxis Data Manager (ADM) is a 32 bit Windows® application that saves Blood Chemistry Analyzer and VetScan HM5 Analyzer results as files on a 32 or 64 bit PC.

Using the Abaxis Data Manager you will:

- Save Abaxis Blood Chemistry Analyzer results as files on a Windows® PC.
- Save VetScan HM5 Analyzer results as files on a Windows® PC.
- Save Piccolo Classic, Piccolo xpress, VetScan and VetScan VS2 results in PDF format.
- Save VetScan HM5 /HM5c results in PDF format.
- Save Blood Chemistry Analyzer and VetScan HM5 results as a Combined report in PDF format.
- Automatically print PDF reports and text results.
- Send results from the Blood Chemistry Analyzer and / or VetScan HM5 Analyzer directly to Abaxis Data Manager and PMS applications at the same time.
- Upload results from Blood Chemistry Analyzer and VetScan HM5 Analyzer for remote diagnostics.
- Automatically establish a connection with up to eight (8) Abaxis Analyzers simultaneously.

Installation

The Abaxis Data Manager is available for download from the Abaxis website https://supportsoftware.abaxis.com/adm2. The section Installation Instructions provides an installation guide, with pictures that describes how to install, configure and use the Abaxis Data Manager. User Manual, Help File and Release Notes can also be viewed and downloaded from the same website location.

Supported Operating Systems

Windows® 7 SP1 (x86 and x64), 8.1 (x86 and x64) and 10 (x86 and x64), Professional

Computer Requirements

2GB or more of RAM is recommended
High Speed Internet Connection
Administrator Privileges

Cables

Piccolo Classic and VetScan Classic: Serial cable with Male / Female Connectors.
Piccolo xpress and VetScan VS2: USB cable with Type A / Type B Connectors.
VetScan HM5 /HM5c: USB cable with Type A / Type B Connectors.

**Analyzer Software**

Piccolo xpress and VetScan VS2 require software version 2.1.33 or greater. Piccolo Classic and VetScan Classic have no minimum software version requirement. VetScan HM5 require software version 1.40 or greater. VetScan HM5c require software version 2.0 or greater.
# Table of Contents

- Installation Instructions ....................................................................................................... 6
- Download Abaxis Data Manager .......................................................................................... 7
- Download Abaxis Data Manager Pictures ........................................................................... 8
- Install Abaxis Data Manager Prerequisites ........................................................................ 9
- Install Abaxis Data Manager Prerequisites Pictures ......................................................... 11
- Install Abaxis Data Manager ............................................................................................ 22
- Install Abaxis Data Manager Pictures .............................................................................. 23
- Update Abaxis Data Manager ............................................................................................ 24
- Update Abaxis Data Manager Pictures .............................................................................. 25
- Configure Abaxis Data Manager ...................................................................................... 26
- Configure Abaxis Data Manager Pictures .......................................................................... 29
- Connect the PC and Analyzer – Piccolo xpress and VetScan VS2 .................................. 30
- Connect the PC and Analyzer – Piccolo xpress and VetScan VS2 Pictures .................... 31
- Connect the PC and Analyzer – Piccolo Classic and VetScan Classic ............................ 32
- Connect the PC and Analyzer – Piccolo Classic and VetScan Classic Pictures ............... 33
- Connect the PC and Analyzer – VetScan HM5 / HM5c ................................................... 34
- Connect the PC and Analyzer – VetScan HM5 Pictures .................................................. 35
- Connect the PC and Analyzer – VetScan HM5c Pictures ................................................ 35
- Configure Analyzer – Piccolo xpress and VetScan VS2 .................................................. 36
- Configure Analyzer – Piccolo xpress and VetScan VS2 Pictures .................................... 37
- Configure Analyzer – Piccolo Classic .............................................................................. 38
- Configure Analyzer – Piccolo Classic Pictures .................................................................. 39
- Configure Analyzer – VetScan HM5 ................................................................................ 40
- Configure Analyzer – VetScan HM5 Pictures .................................................................... 41
- Configure Analyzer – VetScan HM5c .............................................................................. 42
- Configure Analyzer – VetScan HM5c Pictures ................................................................ 43
- Connect the Abaxis Data Manager and Abaxis Analyzers ............................................... 44
- Connect the Abaxis Data Manager and Abaxis Analyzers Pictures ................................. 45
- Transmit Results – Piccolo xpress and VetScan VS2....................................................... 47
- Transmit Results – Piccolo xpress and VetScan VS2 Pictures ......................................... 48
- Transmit Results – Piccolo Classic and VetScan Classic ................................................. 49
- Transmit Results – Piccolo Classic and VetScan Classic Pictures .................................... 50
- Transmit Results – VetScan HM5 .................................................................................... 51
- Transmit Results – VetScan HM5 Pictures ....................................................................... 52
- Transmit Results – VetScan HM5c .................................................................................. 53
- Transmit Results – VetScan HM5c Pictures .................................................................... 54
- Locate Abaxis Data Manager Result Files ....................................................................... 55
- Locate Abaxis Data Manager Result Files Pictures .......................................................... 56
- Summary ........................................................................................................................... 58
- Appendix A - Supported File Formats .............................................................................. 59
- Appendix B - Application Settings ..................................................................................... 60
- Appendix C - Application Updates .................................................................................... 62
- Appendix D - File Naming Conventions ............................................................................ 64
- Appendix E - Uninstall Abaxis Data Manager Windows 8.1 ............................................ 66
- Appendix F - Uninstall Abaxis Data Manager Windows 7 ................................................ 69
Installation Instructions

In this installation guide you will install and configure the Abaxis Data Manager, connect Analyzers to the PC and finally transmit results from the Analyzers to the Abaxis Data Manager.

You will have successfully completed the Abaxis Data Manager installation when you can transmit data from the Abaxis Analyzer, view Analyzer result files stored on the local PC and generate PDF reports.

Before starting this installation guide you will need:

- PC running Windows 7 SP1 (x86 or x64) or 8.1 (x86 or x64) or 10 (x86 or x64) professional with 2GB or more of RAM, administrator privileges and high speed Internet connection.

- Piccolo xpress or VetScan VS2 with software version 2.1.33 or greater and USB Cable with type A / type B adapters.
  OR
- Piccolo Classic or VetScan Classic and serial cable with male / female adapters.
  AND / OR
- VetScan HM5 with software version 1.40 or greater and USB Cable with type A / type B adapters.
  OR
- VetScan HM5c with software version 2.0 or greater and USB Cable with type A / type B adapters.

USB and serial cables are available from Abaxis Technical Support 1-800-822-2947.

The screen shots in these instructions are from a typical Windows 7 installation. Dialog boxes shown may vary slightly in other versions of Windows.
Download Abaxis Data Manager

In this step you will download Abaxis Data Manager from a website.

Steps

1. Open Internet Explorer.
2. Navigate to: https://supportsoftware.abaxis.com/adm2
3. Click on the Abaxis Data Manager Download link to download the software on to your computer
4. Links are available to download Installation Instructions, User Manual, Release Notes and Help File. Feel free to download all of them.
5. If Adobe Reader is not installed on your PC select the Get Adobe Reader® logo.
   a. Follow the onscreen instructions to download and install Adobe Reader®.
6. The software AbaxisDataManager_v2.x.x.exe downloads and saves on the user computer. Save the file before running it.
7. If you have Abaxis Data Manager version 1.2.1 installed in your computer, you need to uninstall version 1.2.1 before installing Abaxis Data Manager version 2.2.2. Follow the instruction to uninstall Abaxis Data Manager version 1.2.1 here.
Download Abaxis Data Manager Pictures

ABAXIS DATA MANAGER SOFTWARE DOWNLOAD

The Abaxis Data Manager is a Windows® application designed to save Abaxis Blood Chemistry Analyzer and Hematology Analyzer results as files on a Windows® PC. Using the Abaxis Data Manager application version 2.2.2 and up you will:

- Automatically connect with up to eight (8) Analyzers including both Abaxis Blood Chemistry Analyzers and VetScan HM5 simultaneously.
- Save individual Blood Chemistry Analyzer results as files on a Windows® PC.
- Save individual VetScan HM5 Analyzer results as files on a Windows® PC.
- Save Piccolo, Piccolo Xpress, VetScan, VetScan VS2 and VetScan HM5 results as formatted PDF reports.
- Save Abaxis Blood Chemistry Analyzer and VetScan HM5 Analyzer results as formatted Combined PDF reports.
- Automatically print PDF reports and text files to your default printer.
- Transmit results from Abaxis Blood Chemistry Analyzer and / or VetScan HM5 to PMS software simultaneously.
- Supports localization

Thank you for your interest to download Abaxis Data Manager. Please click the link below to start your download.

- [Abaxis Data Manager Download](#) ③ Download
- [Abaxis Data Manager Installation Instructions](#) ④ Download Instructions
- [Abaxis Data Manager Help File](#) ④ Download Help File
- [Abaxis Data Manager Release Notes](#) ④ Download Release Notes
- [Download Uninstall file](#) ⑦ Download Uninstall file
- [Download Adobe Reader](#) ⑤ Download Adobe Reader

The Abaxis Data Manager creates PDF documents. If you do not have PDF viewer, click the logo to download a viewer.
Install Abaxis Data Manager Prerequisites

In this step you will install prerequisite software required by the Abaxis Data Manager. This step is important because the Abaxis Data Manager cannot run without the prerequisite software.

The Abaxis Data Manager relies on Microsoft® .NET Framework, PDF Printer, Serial Port Splitter, Microsoft® SQL Server LocalDB, and Report Viewer to operate. The installer will prompt you to install the required software, if needed.

Steps

1) **Run** AbaxisDataManager_v2.x.x.exe **as an Administrator**. The installation files get extracted here in this folder.

   *Note: If you have already installed any of the prerequisite software you will not be prompted to install the software again.*

2) User Account Control > **Yes**

3) The installation files start extracting.

   *Note: Depending on your specific computer configuration you may not be prompted with all of the dialog boxes listed below.*

4) Abaxis Data Manager Setup – Microsoft .NET Framework 4.6.1 Agreement & Terms window pops up.

5) **Accept**.

6) Abaxis Data Manager Setup – SQL Server 2014 Express LocalDB Agreement & Terms window pops up.

7) **Accept**.

8) Abaxis Data Manager Setup – EULA window pops up.

9) **Accept**.

10) Abaxis Data Manager Setup - **components will be installed** window pops up

11) **Install**.

12) Abaxis Data Manager Setup – **Copying required files...** window pops up.

13) Abaxis Data Manager Setup - **Installing Microsoft .NET framework 4.6.1 (x86 and x64)** window pops up

14) Abaxis Data Manager Setup – **Setup must reboot before proceeding** window pops up.

15) **Yes**

16) Abaxis Data Manager Setup - **Installing SQL Server 2014 Express LocalDB...** window pops up

17) User Account Control > **Yes**
18) Abaxis Data Manager Setup -- **Installing Serial Port Splitter 4.4.9** window pops up
19) User Account Control > Yes
20) Abaxis Data Manager Setup -- **Installing Abaxis Data Manager Database Installer** ...window pops up
21) A command prompt for **Abaxis Data Manager Database setup** is displayed with status messages and closes once done.
22) User Account Control > Yes
23) Abaxis Data Manager Setup -- **Installing Abaxis Data Manager PDF Printer** ...window pops up
24) User Account Control > Yes
25) User Account Control > Yes
26) User Account Control > Yes
27) Abaxis Data Manager Setup -- **Installing Abaxis Data Manager PDF Printer** ...
28) User Account Control > Yes
29) Installation of the **Abaxis Data Manager** begins.
30) Click **Ok** to the Abaxis Data Manager message box to reboot the computer.
31) **REBOOT** the computer.
32) **Abaxis Data Manager** launches
33) Abaxis SQL Database update scripts will run.
34) Abaxis Data Manager shortcut icon 🌟 is placed on the desktop
35) Abaxis Data Manager **starts** at Startup
Install Abaxis Data Manager Prerequisites Pictures

1) Run AbaxisDataManager_v2.x.x.exe

2) Yes
3) Start Extraction

4) Microsoft .NET Framework 4.6.1

5) Accept
For the following components:

**SQL Server 2014 Express LocalDB**

Please read the following license agreement. Press the page down key to see the rest of the agreement.

**MICROSOFT SOFTWARE LICENSE TERMS**

**MICROSOFT SQL SERVER 2014 EXPRESS LOCALDB**

These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft:

- updates,
- supplements,
- Internet-based services, and
- support services

for this software, unless other terms accompany those items. If so, those terms

**Do you accept the terms of the pending License Agreement?**

If you choose Don’t Accept, install will close. To install you must accept this agreement.

[Accept] [Don’t Accept]

6) SQL Server 2014 Express LocalDB

7) Accept
8) Abaxis End User License Agreement
9) Accept

10) Installing components
11) Install
12) Copying required files

13) Installing Microsoft .NET Framework

14) reboot before proceeding
15) Yes
16) Installing SQL Server 2014 Express Local DB

17) Yes

18) Installing Serial Port Splitter 4.4.9
19) Yes

20) 21) Installing Abaxis Data Manager Database Installer
22) Yes

23) 27) Installing Abaxis Data Manager PDF Printer

24) 25) 26) Yes
28) Yes

29) Installation of Abaxis Data Manager

30) OK
After reboot Abaxis Data Manager shown on desktop
35) Abaxis Data Manager Starts
Install Abaxis Data Manager

In this step you will install the Abaxis Data Manager. This step is important because it will make the Abaxis Data Manager application available on your PC.

Steps

1.) **Install.**
2.) **Ensure** that no Analyzers are running or transmitting data. > **OK.**
3.) The software has finished installing when the Abaxis Data Manager automatically starts.
Install Abaxis Data Manager Pictures

1. Installing

2. OK

3. Installation Complete
Update Abaxis Data Manager

In this step you will update the Abaxis Data Manager. This step is important because it will make the Abaxis Data Manager application up to date on your PC.

Steps

1.) Database update scripts runs. This update script runs only once.
2.) An Update is available. Would you like to update the application now? > OK
3.) Ensure that no Analyzers are running or transmitting data. > OK.
4.) The software has finished updating when the Abaxis Data Manager automatically starts.
Update Abaxis Data Manager Pictures

1. Installation of Abaxis Database Setup

2. OK

3. OK
Configure Abaxis Data Manager

In this step you will configure the Abaxis Data Manager with your clinic information, specify a save folder path and select the file formats for both Blood Chemistry Analyzer and VetScan HM5 Analyzer. This step is important because you will specify clinic information that will be included in the PDF report, the directory where the results from the Abaxis Data Manager will be stored on your PC and how results will be saved and printed.

Steps

1.) Enter your clinic information.
   a) Name         d) State / Province     g) Phone
   b) Street       e) Postal Code        h) Clinic Logo
   c) City         f) Country

2.) Select output formats:
   2.1) Blood Chemistry Analyzer
         a) Save XML / TXT       d) Print One Page XML / TXT PDF
         b) Save PDF            e) Print TXT
         c) Print All XML / TXT PDF   f) Print Error Report
   2.2) HM5 Analyzer
         a) Save TXT             d) Print TXT
         b) Save PDF
         c) Print PDF
   2.3) Combined Report
         a) Save PDF
         b) Print PDF
         c) HM5 Result Period

3.) Specify a Save Folder Path.
    Note: The Save Folder Path is the directory where files created by the Abaxis Data Manager will be saved; Save Folder Path is a required setting. Specify three folder paths, one for Blood Chemistry Analyzer reports, one for VetScan HM5 reports and one for Combined Reports.

4.) Specify the period to look for VetScan HM5 Result from the current date on the PC.
    Note: ADM looks for a VetScan HM5 result within this time period specified whenever a Blood Chemistry Analyzer result is transmitted. Blood Chemistry Analyzer result is the trigger for generating a combined report. If a match in HM5 is found, the HM5 result will be shown in combined report. Otherwise only Chemistry result is shown in combined report. Available periods are 1 day, 1 week and 1 month. Combined Reports option is available ONLY when the Analyzer Protocol is set to ASCII TEXT.
5.) **Specify** how often the Abaxis Data Manager should check for Updates.  
Note: The Abaxis Data Manager will automatically check the Abaxis website for updates **At Startup, Every 7 Days, Every 30 Days, or Never**.

6.) **Save.**

<table>
<thead>
<tr>
<th>Preference</th>
<th>Description</th>
<th>Preference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinic Name</td>
<td>Name of the clinic requesting the analysis.</td>
<td>Blood Chemistry Analyzer:</td>
<td>Prints one page of the PDF report to the Windows default printer.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Print One Page XML / TXT PDF</td>
<td></td>
</tr>
<tr>
<td>Clinic Street</td>
<td>Street address of the clinic requesting the analysis.</td>
<td>Blood Chemistry Analyzer: Print TXT</td>
<td>Prints TXT files to the Windows default printer.</td>
</tr>
<tr>
<td>Clinic City</td>
<td>City location of the clinic requesting the analysis.</td>
<td>HM5 Analyzer: Save Folder Path</td>
<td>Directory where all files created by the VetScan HM5 Analyzer are saved.</td>
</tr>
<tr>
<td>Clinic State / Province</td>
<td>State or Province of the clinic requesting the analysis.</td>
<td>HM5/Analyzer: Save TXT</td>
<td>Saves HM5 results in the format received from the Analyzer.</td>
</tr>
<tr>
<td>Clinic Postal Code</td>
<td>Postal Code of the clinic requesting the analysis.</td>
<td>HM5 Analyzer: Save PDF</td>
<td>Saves HM5 Analyzer ASCII results as PDF reports.</td>
</tr>
<tr>
<td>Clinic Country</td>
<td>Country of the clinic requesting the analysis.</td>
<td>HM5 Analyzer: Print PDF</td>
<td>Prints entire PDF report to the Windows default printer.</td>
</tr>
<tr>
<td>Clinic Phone</td>
<td>Phone number of the clinic requesting the analysis.</td>
<td>HM5 Analyzer: Print TXT</td>
<td>Prints HM5 TXT files to the Windows default printer.</td>
</tr>
<tr>
<td>Clinic Logo</td>
<td>The path of image used as logo shown in PDF report</td>
<td>Blood Chemistry Analyzer: Print Error Report</td>
<td>Prints PDF error report to the Windows default printer.</td>
</tr>
<tr>
<td>Blood Chemistry Analyzer: Save Folder Path</td>
<td>Directory where all files created by the Blood Chemistry Analyzer are saved.</td>
<td>Combined Reports: Save Folder Path</td>
<td>Directory where all combined reports created by the Blood Chemistry Analyzer and VetScan HM5 Analyzer are saved.</td>
</tr>
<tr>
<td>Blood Chemistry Analyzer: Save XML / TXT</td>
<td>Saves Analyzer results in the format received from the Analyzer: ASCII Text or XML.</td>
<td>Combined Reports: Save PDF</td>
<td>Saves Blood Chemistry Analyzer and HM5 Analyzer combined results as PDF reports.</td>
</tr>
<tr>
<td>Blood Chemistry Analyzer: Save PDF</td>
<td>Saves Analyzer XML / TXT results as PDF reports.</td>
<td>Combined Reports: Print PDF</td>
<td>Prints entire combined PDF report to the Windows default printer.</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>--------------------------------------------------</td>
<td>-----------------------------</td>
<td>-------------------------------------------------------------</td>
</tr>
<tr>
<td>Blood Chemistry Analyzer: Print All XML / TXT PDF</td>
<td>Prints entire PDF report to the Windows default printer.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Configure Abaxis Data Manager Pictures

1. Your Clinic Information
2. Blood Chemistry Analyzer Output
3. Change Save Folder Path for Blood Chemistry Analyzer
4. HM5 Analyzer Output
5. Change Save Folder Path for HM5 Analyzer
6. Combined Report (TXT Only)
7. Change Save Folder Path for Combined Report
8. Select HM5 Result Period
9. Check for Updates
10. Save Changes
Connect the PC and Analyzer – Piccolo xpress and VetScan VS2

*Piccolo Classic and VetScan Classic customers skip this step.*

In this step you will connect the PC and Piccolo xpress or VetScan VS2 Analyzer. This step is important because it will allow the Abaxis Data Manager to communicate with your Blood Chemistry Analyzer.

**Steps**

1.) **Ensure** that the Analyzer is **not running** a rotor analysis.
2.) **Connect** the **USB Cable** to the **Analyzer**.
3.) **Connect** the **USB Cable** to the **PC**.
4.) **Turn ON** the Analyzer, if it is not already on.
Connect the PC and Analyzer – Piccolo xpress and VetScan VS2 Pictures

Connect the small end of the USB cable to the Analyzer.

Connect the large end of the USB cable to the PC.

The small end of the USB Cable must be plugged into the Analyzer.
Connect the PC and Analyzer – Piccolo Classic and VetScan Classic

Piccolo xpress and VetScan VS2 customers **skip this step.**

In this step you will connect the PC and Piccolo Classic or VetScan Classic. This step is important because it will allow the Abaxis Data Manager to communicate with your Blood Chemistry Analyzer.

**Steps**

1.) **Ensure** the Analyzer is **not running** a rotor analysis.
2.) **Connect** the **Serial Cable** to the **Analyzer**.
3.) **Connect** the **Serial Cable** to the **PC**.
4.) **Turn ON** the Analyzer, if it is not already on.
Connect the PC and Analyzer – Piccolo Classic and VetScan Classic Pictures

1. Connect the serial cable to the Analyzer. The serial cable plug will have 9 pins.

2. Connect the serial cable to the serial port on the PC. The serial port will have nine 9 pins.

3. Analyzer

4. PC
Connect the PC and Analyzer – VetScan HM5 / HM5c

In this step you will connect the PC and VetScan HM5 Analyzer. This step is important because it will allow the Abaxis Data Manager to communicate with your VetScan HM5 Analyzer.

Steps

1.) **Ensure** that the VetScan HM5 Analyzer is **not running** an analysis.
2.) **Connect** the **USB Cable** to the **Analyzer**.
3.) **Connect** the other end of the **USB Cable** to the **PC**.
4.) **Turn ON** the Analyzer, if it is not already on.
Connect the PC and Analyzer – VetScan HM5 Pictures

Connect the small end of the USB cable to the Analyzer.

Connect the large end of the USB cable to the PC.

Connect the PC and Analyzer – VetScan HM5c Pictures

Connect the small end of the USB cable to the Analyzer.

Connect the large end of the USB cable to the PC.
Configure Analyzer – Piccolo xpress and VetScan VS2

VetScan Classic and Piccolo Classic customers skip this step.

In this step you will configure the Blood Chemistry Analyzer to communicate with the Abaxis Data Manager. This step is important because it will allow the Abaxis Data Manager to receive results from your Blood Chemistry Analyzer.

Important: The transmission protocol must be set to either ASCII Text or XML to create PDF Reports.

Steps

1.) Home Screen > Hand.
2.) More Options.
3.) Analyzer.
4.) ASCII Text / XML > Home.
Configure Analyzer – Piccolo xpress and VetScan VS2 Pictures

1. Home
2. Hand
3. Analyzer Settings
4. Set Protocol

- Home
- More Options
- XML
- ASCII
- None
- ASCII Text
- ASTM 1394-97
- XML
- Back
- Home
Configure Analyzer – Piccolo Classic

Piccolo xpress, VetScan VS2 and VetScan Classic customers skip this step.

In this step you will configure the Piccolo Classic to communicate with the Abaxis Data Manager. This step is important because it will allow the Abaxis Data Manager to receive results from your Piccolo Classic.

Steps

1.) Press Menu four (4) times > Analyzer setup menu is displayed on the screen.
2.) Enter.
3.) Press Menu two (2) times > set data format is displayed on the screen.
4.) Enter.
5.) Right Arrow until ASCII Text Dump is displayed on the screen.
6.) Enter > Press Exit two (2) times.
Configure Analyzer – VetScan HM5

In this step you will configure the VetScan HM5 Analyzer to communicate with the Abaxis Data Manager. This step is important because it will allow the Abaxis Data Manager to receive results from your HM5 Analyzer.

Steps

1.) Click **Utilities** key
2.) Select **5. Settings > 2. Customize > 1. General Settings**
   a. Set PCLink to **USB**
   b. Set Serial Protocol Version to **3.1**
   c. Set VSx Link to **Offline**
3.) Click on **Accept**
Configure Analyzer – VetScan HM5 Pictures

Settings

Accept
Configure Analyzer – VetScan HM5c

In this step you will configure the VetScan HM5c Analyzer to communicate with the Abaxis Data Manager. This step is important because it will allow the Abaxis Data Manager to receive results from your VetScan HM5c Analyzer.

Steps

1.) Touch **Settings**
2.) Touch **Measurement**
3.) Touch **Settings**
   a. Set PC Link to **Enabled**
   b. Set Auto Send to **Enabled**
   c. Set VSx Link to **Disabled**
   d. Set PC Link Baud Rate to **9600**
Configure Analyzer – VetScan HM5c Pictures

(Refer to your VetScan HM5c User Manual PDF for any details)
Connect the Abaxis Data Manager and Abaxis Analyzers

In this step you will establish a connection between the Blood Chemistry Analyzer, VetScan HM5 Analyzer and Abaxis Data Manager. This step is important because it will allow the Abaxis Data Manager to collect results from the Analyzer.

Note for Piccolo Classic and VetScan Classic Customers:

The Analyzer display screen must read “Open drawer to run a rotor/disc” to establish a connection with the Abaxis Data Manager. Press Exit until the screen reads “Open drawer to run a rotor/disc.”

All Customers:

The Abaxis Data Manager will search for Analyzers when the application is started. Ensure that no Analyzers are running an analysis or transmitting data before searching for Analyzers. The Abaxis Data Manager can connect with up to eight (8) Abaxis Analyzers simultaneously.

Steps

1.) Ensure the Analyzer is not running an analysis or transmitting data.
2.) Maximize the Abaxis Data Manager > Refresh.
3.) OK.
4.) Locate your Blood Chemistry Analyzer and VetScan HM5 in Analyzers list.
Connect the Abaxis Data Manager and Abaxis Analyzers Pictures

2. Search for new Analyzers

3. OK
4 Current Analyzers
Transmit Results – Piccolo xpress and VetScan VS2

Piccolo Classic and VetScan Classic customers skip this step.

In this step you will manually transmit results from the Blood Chemistry Analyzer to the Abaxis Data Manager. This step is important because results stored on the Blood Chemistry Analyzer will be stored as files on the PC.

*Important: Abaxis Blood Chemistry Analyzers automatically transmit results at the end of each rotor analysis. Start the Abaxis Data Manager before the rotor analysis to automatically store rotor results as they are created.*

**Steps**

Transmit One Result

1.) Home Screen > **Folder**
2.) **Last Disc/Rotor**
3.) **Print**
4.) **Xmit > Results**

Transmit All Results

5.) Home Screen > **Folder**
6.) **Transmit All**
Transmit Results – Piccolo xpress and VetScan VS2 Pictures

1. Home
2. Recall
   - Last Disc
   - Search
   - Browse
   - Transmit Date Range
   - Transmit All
   - Service Archive
3. View Result
   - piccolo xpress
   - Demonstration Software
   - Lipid Panel
   - Date: 09 Mar 2009
   - Time: 02:05 PM
   - Sample Type: Patient
   - Patient ID: 655812
   - Disc Lot Number: 25496X5P
   - Serial Number: 90804P0922
   - Cholesterol: 211 mg/dL
   - HDL: 38 mg/dL
   - Triglycerides: 135 mg/dL
   - LDL: 130 mg/dL

4. Select Report
   - All
   - Results
   - iQC
   - Error Report

5. Home

6. Recall
   - Last Disc
   - Search
   - Browse
   - Transmit Date Range
   - Transmit All
   - Service Archive

Folder

Xmit

Print

Back

Home
Transmit Results – Piccolo Classic and VetScan Classic

Piccolo xpress and VetScan VS2 customers skip this step.

In this step you will manually transmit results from the Piccolo Classic or VetScan Classic to the Abaxis Data Manager. This step is important because results stored on the Abaxis Blood Chemistry Analyzer will be transferred to the PC and stored as files.

Important: Abaxis Blood Chemistry Analyzers automatically transmit results at the end of each rotor analysis. Start the Abaxis Data Manager before the rotor analysis to automatically store rotor results as they are created.

Steps

Transmit One Result

1.) Recall > Press Enter two (2) times.
2.) 1 (1 - Single Result Card) > Enter
3.) 2 (2 - Transmit Patient) > Enter

Transmit All Results

4.) Recall > Press Enter two (2) times.
5.) 2 (2 - All Patients) > Enter > Enter
Transmit Results – Piccolo Classic and VetScan Classic Pictures

1. Recall
2. Enter

3. Two
4. Enter

5. Two
6. Enter

One
Enter

Recall
Enter
Transmit Results – VetScan HM5

In this step you will manually transmit results from the VetScan HM5 Analyzer to the Abaxis Data Manager. This step is important because results stored on the VetScan HM5 Analyzer will be stored as files on the PC.

*Important:* VetScan HM5 Analyzers has the ability to automatically transmit results at the end of each analysis. Start the Abaxis Data Manager before the analysis to automatically store rotor results as they are created.

**Steps**

1.) Click on **Database** key  
2.) Select the result to **Transmit** by using arrow keys  
3.) Click **OK** key  
4.) Click on **Menu-> 4 Manage selected records-> 1 Send selected records**
## Transmit Results – VetScan HM5 Pictures

<table>
<thead>
<tr>
<th>Date</th>
<th>StrpID</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/21</td>
<td>3/01</td>
<td>00:00:2000</td>
<td>11:26</td>
</tr>
<tr>
<td>3/22</td>
<td>3/02</td>
<td>00:00:2000</td>
<td>11:20</td>
</tr>
<tr>
<td>3/23</td>
<td>3/03</td>
<td>00:00:2000</td>
<td>11:20</td>
</tr>
</tbody>
</table>

HMUT HEL HEL
Transmit Results – VetScan HM5c

In this step you will manually transmit results from the VetScan HM5c Analyzer to the Abaxis Data Manager. This step is important because results stored on the HM5c Analyzer will be stored as files on the PC.

Steps

- Touch Database key
- Touch the result to Transmit
- Touch Manage
- Touch Send
- Touch PC
Transmit Results – VetScan HM5c Pictures

(Refer to your HM5c User Manual PDF for any details)
**Locate Abaxis Data Manager Result Files**

In this step you will locate the results transferred from the Blood Chemistry Analyzer and VetScan HM5 to the PC. This step is important because it confirms that the Abaxis Data Manager is working correctly.

**Steps**

1.) **Locate** Save Folder Path in the Abaxis Data Manager Settings.
2.) **Windows Explorer** (Windows Key + E) > **Navigate** to the Save Folder Path.
3.) **Open** a file created by the Abaxis Data Manager.
Locate Abaxis Data Manager Result Files Pictures

Settings*

Clinic Information
Clinic Name: Clinic Name
Street: 3240 Whipple Road
City: Union City
State / Province: CA Postal Code: 94587
Country: USA Phone: 510-675-6500
Clinic Logo

Blood Chemistry Analyzer Output
☑ Save XML / TXT
☑ Save PDF
☑ Print All XML / TXT PDF
☐ Print One Page XML / TXT PDF
☐ Print TXT
☐ Print Error Report
Select the folder path where you want to save the VS2 / Piccolo files:
C:\ADM\ChemistryReport

HM5 Analyzer Output
☑ Save TXT
☑ Save PDF
☐ Print PDF
☐ Print TXT
☐ Print Error Report
Select the folder path where you want to save the HM5 files:
C:\ADM\HM5

Combined Report (TXT Only)
☑ Save PDF HM5 Result Period: 1 month
☐ Print PDF
Select the folder path where you want to save the combined report files:
C:\ADM\CombinedReport

Update
At Startup ▼ Save Cancel

Save Folder Path

998-5086F 56
Success: If there are files created by the Abaxis Data Manager in the Save Folder Path directory you have successfully completed the installation.
Summary

In this installation guide you have:

- Requested a copy of the Abaxis Data Manager.
- Downloaded the Abaxis Data Manager.
- Installed the Abaxis Data Manager.
- Configured the Abaxis Data Manager.
- Physically connected the Abaxis Blood Chemistry Analyzer and PC using a Serial or USB cable.
- Physically connected the Abaxis VetScan HM5 Analyzer and PC using a USB cable.
- Configured the Abaxis Blood Chemistry Analyzer.
- Configured the Abaxis VetScan HM5 Analyzer.
- Established a connection between the Abaxis Data Manager and Abaxis Analyzers.
- Transmitted results from the Abaxis Blood Chemistry Analyzer to the Abaxis Data Manager.
- Transmitted results from the Abaxis VetScan HM5 Analyzer to the Abaxis Data Manager.
- Located the results stored on the PC by the Abaxis Data Manager.
Appendix A - Supported File Formats

The table describes the file formats supported by the Abaxis Data Manager.

<table>
<thead>
<tr>
<th>Analyzer</th>
<th>Abaxis (ASCII)</th>
<th>Abaxis (XML)</th>
<th>PDF Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piccolo xpress or VetScan VS2</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Piccolo Classic or VetScan Classic</td>
<td>✔️</td>
<td></td>
<td>✔️</td>
</tr>
<tr>
<td>VetScan HM5 / HM5c</td>
<td>✔️</td>
<td></td>
<td>✔️</td>
</tr>
</tbody>
</table>

- The Abaxis Data Manager will communicate with Piccolo xpress and VetScan VS2 Analyzers configured to transmit in XML or ASCII Text.
- Piccolo Classic and VetScan Classic Analyzers transmit results in ASCII Text.
- VetScan HM5 / HM5c Analyzers transmit results in ASCII Text.
- The Abaxis Data Manager will create PDF Reports only when Piccolo xpress and VetScan VS2 Analyzers are configured to transmit in XML or ASCII Text.
- The Abaxis Data Manager will create PDF Reports when Piccolo Classic and VetScan Classic Analyzers are configured to transmit in ASCII Text.
- The Abaxis Data Manager will create PDF Reports when VetScan HM5 / HM5c Analyzers are configured to transmit in ASCII Text.
## Appendix B - Application Settings

The table provides a description of each Abaxis Data Manager setting.

<table>
<thead>
<tr>
<th>Preference</th>
<th>Description</th>
<th>PDF Report Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinic Name</td>
<td>Name of the clinic requesting the analysis.</td>
<td>Yes</td>
</tr>
<tr>
<td>Clinic Street</td>
<td>Street address of the clinic requesting the analysis.</td>
<td>Yes</td>
</tr>
<tr>
<td>Clinic City</td>
<td>City location of the clinic requesting the analysis.</td>
<td>Yes</td>
</tr>
<tr>
<td>Clinic State / Province</td>
<td>State or Province of the clinic requesting the analysis.</td>
<td>Yes</td>
</tr>
<tr>
<td>Clinic Postal Code</td>
<td>Postal Code of the clinic requesting the analysis.</td>
<td>Yes</td>
</tr>
<tr>
<td>Clinic Country</td>
<td>Country of the clinic requesting the analysis.</td>
<td>Yes</td>
</tr>
<tr>
<td>Clinic Phone</td>
<td>Phone number of the clinic requesting the analysis.</td>
<td>Yes</td>
</tr>
<tr>
<td>Clinic Logo</td>
<td>The clinic logo shown in PDF report. If no entry will show Abaxis logo.</td>
<td>Yes</td>
</tr>
<tr>
<td>Blood Chemistry Analyzer:</td>
<td>Save Folder Path</td>
<td>No</td>
</tr>
<tr>
<td>Blood Chemistry Analyzer:</td>
<td>Save XML / TXT</td>
<td>No</td>
</tr>
<tr>
<td>Blood Chemistry Analyzer:</td>
<td>Save PDF</td>
<td>No</td>
</tr>
<tr>
<td>Blood Chemistry Analyzer:</td>
<td>Print All PDF</td>
<td>No</td>
</tr>
<tr>
<td>Blood Chemistry Analyzer:</td>
<td>Print One Page PDF</td>
<td>No</td>
</tr>
<tr>
<td>Blood Chemistry Analyzer:</td>
<td>Print TXT</td>
<td>No</td>
</tr>
<tr>
<td>Blood Chemistry Analyzer:</td>
<td>Print Error Report</td>
<td>No</td>
</tr>
<tr>
<td>VetScan HM5 Analyzer:</td>
<td>Save Folder Path</td>
<td>No</td>
</tr>
<tr>
<td>VetScan HM5 Analyzer:</td>
<td>Saves HM5 Analyzer results in</td>
<td>No</td>
</tr>
<tr>
<td>Save TXT</td>
<td>ASCII Text.</td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>---</td>
</tr>
<tr>
<td>VetScan HM5 Analyzer: Save PDF</td>
<td>Saves Analyzer ASCII results as PDF reports.</td>
<td>No</td>
</tr>
<tr>
<td>VetScan HM5 Analyzer: Print PDF</td>
<td>Prints PDF report to the Windows default printer.</td>
<td>No</td>
</tr>
<tr>
<td>VetScan HM5 Analyzer: Print TXT</td>
<td>Prints TXT files to the Windows default printer.</td>
<td>No</td>
</tr>
<tr>
<td>Combined Report: Save Folder Path</td>
<td>Directory where Abaxis Blood Chemistry Analyzer and VetScan HM5 Analyzer combined PDF reports created by the Abaxis Data Manager are saved.</td>
<td>No</td>
</tr>
<tr>
<td>Combined Report: Save PDF</td>
<td>Saves Abaxis Blood Chemistry Analyzer and VetScan HM5 Analyzer combined results as PDF reports.</td>
<td>No</td>
</tr>
<tr>
<td>Combined Report: Print PDF</td>
<td>Prints Abaxis Blood Chemistry Analyzer and VetScan HM5 Analyzer combined PDF report to the Windows default printer.</td>
<td>No</td>
</tr>
</tbody>
</table>
Appendix C - Application Updates

Updates to the Abaxis Data Manager are published on the internet. The application can be set to automatically check for updates At Startup, Every 7 days, Every 30 days, or Never.

To specify the update interval:

1.) Select an update interval: At Startup, Every 7 days, Every 30 days, or Never.

2.) Save.
## Appendix D - File Naming Conventions

The table below describes the Abaxis Data Manager file naming convention for each type of report (Patient, Control, iQC, Error, Flags or Archive), transmission protocol and analyzer.

<table>
<thead>
<tr>
<th>Transmission Protocol</th>
<th>Report Type</th>
<th>File Naming Convention</th>
</tr>
</thead>
<tbody>
<tr>
<td>XML – Piccolo xpress or VetScan VS2</td>
<td>Control</td>
<td>Control ID-CONTROL-Analyzer S/N-Rotor Name-Run Date</td>
</tr>
<tr>
<td>XML – Piccolo xpress or VetScan VS2</td>
<td>Error</td>
<td>Patient/Control ID-ERROR-Analyzer S/N-Rotor Name-Run Date</td>
</tr>
<tr>
<td>XML – Piccolo xpress or VetScan VS2</td>
<td>Patient</td>
<td>Patient ID-PATIENT-Analyzer S/N-Rotor Name-Run Date</td>
</tr>
<tr>
<td>ASCII – Piccolo xpress or VetScan VS2</td>
<td>Control</td>
<td>Control ID-CONTROL-Analyzer S/N-Rotor Name-Run Date</td>
</tr>
<tr>
<td>ASCII – Piccolo xpress or VetScan VS2</td>
<td>Error</td>
<td>Patient/Control ID-ERROR-Analyzer S/N-Rotor Name-Run Date</td>
</tr>
<tr>
<td>ASCII – Piccolo xpress or VetScan VS2</td>
<td>iQC</td>
<td>Patient/Control ID-IQC-Analyzer S/N-Rotor Name-Run Date</td>
</tr>
<tr>
<td>ASCII – Piccolo xpress or VetScan VS2</td>
<td>Patient</td>
<td>Patient ID-PATIENT-Analyzer S/N-Rotor Name-Run Date</td>
</tr>
<tr>
<td>ASCII – Piccolo xpress or VetScan VS2</td>
<td>All</td>
<td>Analyzer S/N – Archive – Current Date</td>
</tr>
<tr>
<td>ASCII – Piccolo Classic or VetScan Classic</td>
<td>Control</td>
<td>Control ID-CONTROL-Analyzer S/N-Rotor Name-Run Date</td>
</tr>
<tr>
<td>ASCII – Piccolo Classic or VetScan Classic</td>
<td>Error</td>
<td>Patient/Control ID-ERROR-Analyzer S/N-Rotor Name-Run Date</td>
</tr>
<tr>
<td>ASCII – Piccolo Classic or VetScan Classic</td>
<td>iQC</td>
<td>Patient/Control ID-IQC-Analyzer S/N-Rotor Name-Run Date</td>
</tr>
<tr>
<td>ASCII – Piccolo Classic or VetScan Classic</td>
<td>Flags</td>
<td>Patient/Control ID-FLAGS- Analyzer S/N-Rotor Name-Run Date</td>
</tr>
<tr>
<td>ASCII – Piccolo Classic or VetScan Classic</td>
<td>Patient</td>
<td>Patient ID-PATIENT-Analyzer S/N-Rotor Name-Run Date</td>
</tr>
<tr>
<td>ASCII or XML</td>
<td>Archive</td>
<td>Analyzer S/N – Archive – Current Date</td>
</tr>
<tr>
<td>Transmit Date Range</td>
<td>Patient ID-Analyzer S/N-Run Date</td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td>----------------------------------</td>
<td></td>
</tr>
<tr>
<td>ASCII – VetScan</td>
<td>Patient ID-Analyzer S/N-Run Date</td>
<td></td>
</tr>
<tr>
<td>HM5 or HM5c</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Combined Report</td>
<td>Patient ID-Archive-Analyzer S/N-Rotor Name-Run Date Combined</td>
<td></td>
</tr>
<tr>
<td>Combined Report</td>
<td>Patient ID- PATIENT-Analyzer S/N-Rotor Name-Run Date Combined</td>
<td></td>
</tr>
</tbody>
</table>

Analyzer S/N = Last six characters of the Analyzer Serial Number.
Appendix E - Uninstall Abaxis Data Manager Windows 8.1

The Abaxis Data Manager is uninstalled from the Windows Control Panel.

To uninstall the Abaxis Data Manager:

1.) Control Panel > Uninstall a program > Abaxis Data Manager > Uninstall/Change > OK.

2.) Uninstall a program in following order
   > novaPDF 9 Printer Driver
   > novaPDF 9 SDK
   > novaPDF 9 SDK (x64)
   > novaPDF 9 SDK (x86)
   > Uninstall > Yes > OK.

3.) Windows Explorer > Navigate to the folder path
   C:\Users\<Username>\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup\Abaxis Data Manager > Right click delete > Yes.

4.) Uninstall a program > Serial Port Splitter > Uninstall > Yes > OK.
1. Uninstall
2. Yes
3. OK
Appendix F - Uninstall Abaxis Data Manager Windows 7

The Abaxis Data Manager is uninstalled from the Windows Control Panel.

To uninstall the Abaxis Data Manager:
1.) Control Panel > Uninstall a program > Abaxis Data Manager > Uninstall/Change > OK.
2.) Uninstall a program in the following order
   - novaPDF 9 Printer Driver
   - novaPDF 9 SDK
   - novaPDF 9 SDK COM (x64)
   - novaPDF 9 COM (x86)
   - Uninstall > Yes > OK.
3.) Start > Program Menu > Startup > Abaxis Data Manager > Right click delete > Yes.
4.) Uninstall a program > Serial Port Splitter > Uninstall > Yes > OK.
Uninstall

Yes

OK
Appendix G - Uninstall Abaxis Data Manager Windows 10

The Abaxis Data Manager is uninstalled from the Windows Control Panel.

To uninstall the Abaxis Data Manager:

1.) Control Panel > Uninstall a program > Abaxis Data Manager > Uninstall/Change > OK.

2.) Uninstall a program in following order
   > novaPDF 9 Printer Driver
   > novaPDF 9 SDK
   > novaPDF 9 SDK COM (x64)
   > novaPDF 9 SDK COM (x86)
   > Uninstall > Yes > OK.

3.) Windows Explorer > Navigate to the folder path
   C:\Users\<Username>\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup\Abaxis Data Manager > Right click delete > Yes.

4.) Uninstall a program > Serial Port Splitter > Uninstall > Yes > OK.
Uninstall

Programs and Features

Are you sure you want to uninstall SPS Core Setup?

Yes

OK
Appendix H - Uninstall Abaxis Data Manager version 1.2.1

To completely remove Abaxis Data Manager version 1.2.1 from your computer, first you need to uninstall from Control Panel. Secondly download AbaxisDataManagerUninstaller.exe at https://supportsoftware.abaxis.com/adm2/ and right click on the file to select Run as administrator. Third reboot your computer.
C:\Users\ahaxis\Downloads>ECHO OFF
After you have uninstalled the Abaxis Data Manager from the Control Panel, this
will until the other components used by the program
Please wait while we uninstall the pre-requisites of the previous versions of Abaxis Data Manager software......DO not close this window
C:\Users\ahaxis\Downloads>CD C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012
C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\SQLServer2012>Setup.exe /Action=Uninstall /FEATURES=SQL /INSTANCENAME=AbaxisADM /Q
Restart your computer.