

nnection	Port	Status	SeaGuardII	
nartGuard	USB ActiveSync		Connection Details	Statistics
aGuardII	USB Serial COM16	0	Port Status Open Connection Status Connected Name USB Serial COM Baud Rate 115200 Data Format AADI Real Time Connected Clients 0 Device Information ID 5650H-1505 Description Seaguard II Platform More info Advanced • Notifications There are no unread device notification	Records received 0 Records lost 0 6 Bytes received 1.49 KB Bytes sent 56 bytes Reset Data Visualization Data Visualization ()) ()) ()) ()) ()) ()) ()) ()
			<u>Close Port</u> <u>S</u> ettings	Connection Logs Control Pane

Windows Mobile Device Center(WMDC) replacement

Since the introduction of SmartGuard and SeaGuardII Aanderaa has used Windows Mobile Device Center for connection between logger and PC. This WMDC has been a part of Windows until Windows10, and in March 2022 Microsoft removed the software from their download list. Based on this Aanderaa has developet a replacement for WMDC called USB Serial

This document decribes the different alternatives for how to configure a SeaGuardII/SmartGuard via our AADI Real-Time Collector software.either using the old WMDC if allready installed on your PC or using USB Serial

You may download the latest version of or software image from our webpage <u>https://www.aanderaa.com/</u> or use the link below.

AADI- Real-Time Collector:

https://aanderaa1.xyleminc.com/AADI%20Real-Time%20Collector/

SeaGuardll Image:

https://www.aanderaa.com/media/software/seaguardii-latest-firmware.zip

SmartGuard Image:

https://www.aanderaa.com/media/software/smartguard-latest-firmware.zip



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1.1 Version Dependencies

What alternatives you may use depends on your image version and if you have WMDC available.

1.1.1 SeaGuardII

Image older than 3.0.224

- AADI Real-Time Collector version older than 7.0.11.0
 - WMDC(ActiveSync)
- AADI Real-Time Collector version 7.0.11.0 or newer
 - Use USB ActiveSync

Image 3.0.224 or newer

- AADI Real-Time Collector version 7.0.11.0 or newer
- Use USB Serial
- Use USB ActiveSync

1.1.2 SmartGuard

Image older than 2.1.224

- AADI Real-Time Collector version older than 7.0.11.0
 - WMDC(ActiveSync)
- AADI Real-Time Collector version 7.0.11.0 or newer
 - Use USB ActiveSync

Image 2.1.224 or newer

- AADI Real-Time Collector version 7.0.11.0 or newer
 - Use USB Serial
 - Use USB ActiveSync

Please note that there may also be a version dependency if you have older sensors installed.



1.2 Installing or updating AADI Real-Time Collector

If you already have an older version of AADI Real-Time Collector installed. You need to remove this before you install the newest version





Select AADI Real-Time Collector from the list an press Uninstall.

← Settings	
命 Home	Apps & features
Find a setting 0	Microsoft Corporation 16.09.2022
Apps	Windows Mobile Device Center 27.4 MB 28.01.2021
IΞ Apps & features	Windows Mobile Device Center Driver Update 44.4 MB 28.01.2021
⊟ Default apps	WinZip 26.0 322 MB 14.01.2022
印_ Offline maps	Xml Config Document Generator 09.11.2022
Apps for websites	Xylem ISS Info 189 KB 24.08.2020
□ Video playback	Xylem Reset Installer Account 26.0 KB 24.08.2020
	Zoom Outlook Plugin 31.8 MB 24.10.2022
	Zoom Skype for Business Plugin 3.64 MB 01.09.2020
	Zoom(32bit) 247 MB 05.01.2023
	AADI Real-Time Activation Key Generator 4.35 MB 08.11.2021
	AADI Real-Time Collector 28.7 MB 08.11.2021 6.0.90
	Modify Uninstall
	Aanderaa Data Studio 20.9 MB 28.08.2020

A new window will show up and the disappear when the older version is removed.



Select the new installation file from link and then



Aande AADI	eraa Instruments AS Real-Time Collector
Name:	AADI Real-Time Collector
Version:	7.0.11.35

Publisher:	Aanderaa	Instruments	AS
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The following prerequisites are required:

Microsoft .NET Framework 4.8 (x86 and x64)

If these components are already installed, you can \underline{launch} the application now. Otherwise, click the button below to install the prerequisites and run the application.

Install

Press on Install to start the installation.

Application Install - Security Warning	×
Do you want to install this application?	€
Name: AADI Real-Time Collector From (Hover over the string below to see the full domain): aanderaa1.xyleminc.com Publisher: Xylem Inc.	<u>D</u> on't Install
While applications from the Internet can be useful, they can potentially harm your you do not trust the source, do not install this software. <u>More Information</u>	computer. If

Press Install again



(32%) In	stalling A	ADI Real-Time Collector —	
Installir This duri	n g AADI may tak ing the in	Real-Time Collector e several minutes. You can use your computer to do other task istallation.	e e e e e e e e e e e e e e e e e e e
\mathbf{x}	Name:	AADI Real-Time Collector	
	From:	aanderaa1.xyleminc.com	
	Downlo	ading: 6.17 MB of 18.7 MB	
			<u>C</u> ancel

Wait until the software are installed. If you are not able to install the new version please contact your administrator or contact <u>Aanderaa.support@xylem.com</u>



2.1 SmartGuard

- Upgrade the SmartGuard Image to version 2.1.235 (or later).
- Upgrade AADI Real-Time Collector to version 7.0.11.0 (or later)

2.1.1 USB as virtual comport

- Create a text file called "StartupConfig.txt" and set following content: "usbfunction = virtualcomport".
- Place the file on the SmartGuard SD Card.
- Insert the SD Card and reboot the SmartGuard.
- Reboot the SmartGuard.

StartupConfig.txt

usbfunction = virtualcomport

After reboot the SmartGuard will appear in Device Manager:

✓	USB Serial Device (COM24) Properties	×
ELTIMA Virtual Serial Port (COM2->COM3)	General Port Settings Driver Details Events	
ELTIMA Virtual Serial Port (COM3->COM2) HHD Software Bridged Serial Port (COM16) HHD Software Bridged Serial Port (COM17)	USB Serial Device (COM24)	
USB Serial Device (COM24)	Property	
,	Bus reported device description	~
	Value	
	Smartguard Datalogger	

In Real-Time Collector, Configure a connection as USB Serial:

Connection Name		
Connection Name	Smartguard	
Port Settings		
Port Settings USB Serial		-
Port Settings USB Serial Port Name	COM24	-
Port Settings USB Serial Port Name Baud Rate	COM24 115200	•



2.1.2 USB as Active Sync (WMDC):

• Create a text file called "StartupConfig.txt" and set following content:

"usbfunction = activesync ".

- Place the file on the SmartGuard SD Card.
- Insert the SD Card and reboot the SmartGuard.
- Reboot the SmartGuard.

StartupConfig.txt

usbfunction = activesync

After reboot the SmartGuard will appear in Device Manager:



Start Windows Mobile Device Center.



In Real-Time Collector, Configure a connection as USB ActiveSync:

Connection Settings	
Connection Name	
Connection Name	Smartguard ActiveSync
Port Settings	
USB ActiveSync	•
Connect automat	ically on application startup



2.2 SeaGuard II

- Upgrade to Image 3.0.224 (or later).
- Upgrade AADI Real-Time Collector to version 7.0.11.0 (or later)

2.2.1 USB as virtual comport

- Create a text file called "StartupConfig.txt" and set following content: "usbfunction = virtualcomport".
- Place the file on the SeaGuardII SD Card.
- Insert the SD Card and reboot the SeaGuardII.
- Reboot the SeaGuardII.

StartupConfig.txt

usbfunction = virtualcomport

After reboot the SeaGuardII will appear in Device Manager:



In Real-Time Collector, Configure a connection as USB Serial

Connection Name		
Connection Name	Segaurd II	
Port Settings		
Port Settings USB Serial		-
Port Settings USB Serial Port Name	COM41	-



2.2.2 USB as Active Sync (WMDC):

• Create a text file called "StartupConfig.txt" and set following content:

"usbfunction = activesync ".

- Place the file on the SeaGuardII SD Card.
- Insert the SD Card and reboot the SeaGuardII.
- Reboot the SeaGuardII.

StartupConfig.txt

usbfunction = activesync

After reboot the SeaGuardII will appear in Device Manager:



Start Windows Mobile Device Center.



In Real-Time Collector, Configure a connection as USB ActiveSync:





3.1 SeaGuardll Image Upgrade

Instructions for uploading SeaGuardII Image and descriptions around the procedures are given below.

3.1.1 Upload SeaGuardII Image and Update New Registry

This section covers the task of upgrading a SeaGuardII image (the main software of the unit) and the instrument database (the Registry).

The Registry is a vital part of the SeaGuardII software. The registry holds information that the Instrument software applies to obtain information about different software components the system loads and unloads during an execution.

There are actually three copies of the Registry in the system. One is stored together with the image and is called the ROM version. Another is stored in Flash and is called the Flash version. None of these are not lost when power is switched off.

When the instrument is switched ON, the operating system first looks for a copy of the Registry in the Flash; this version of the Registry is then copied into RAM and becomes the working Registry. If it does not find a valid Registry in the Flash, it copies the default ROM version (which is always present) into RAM and makes this one the working Registry.

When uploading an image from a SD card, this will erase the Flash version of Registry and force the instrument to use the ROM version that came with the new image.



4.1 Instructions for Uploading SeaGuardII Image

If you already have a SD card with a SeaGuardII Image ready, jump to step 5.

- 1. Use a SD card of at least 64 MB. Preferably use the SD card you received with the instrument.
- 2. Insert the SD Reader into the USB slot. Make sure a disk named *Removable Disk* appears in *Explorer*.
- 3. Erase all content of the SD card. Make sure that the file system is *FAT* in the properties command in *Explorer*. If you prefer to erase the card using the *Format* command, use *FAT* file format (not FAT32 or NTFS).
- 4. Copy the file named *NK.nb0* to the SD card.
 - a) Select the file in the PC directory.
 - b) Right-click and select Copy.
 - c) Move to the *Removable Disk* folder, right-click and select *Paste*.
 - d) It takes some time to transfer the file (32 MB). However, *Explorer* will report *finish* before the complete transfer has taken place. Thus, monitor the yellow light on the SD Reader for blinking. When the blinking stops, wait an additional minute.
 - e) Remove the SD card from the reader.
 - f) Click *Refresh* in *Explorer* (or go to another directory and back to *Removable Disk*) and confirm that there is no card in the reader.
 - g) Insert the SD card again and confirm that the file *NK.nb0* exists on the card.
- 5. Install the SD card in the SeaGuardII SD slot.
- 6. Open the SD card Housing in the SeaGuardII.
- 7. Use a pencil or similar to press and hold down the lower boot button in the SD card Housing; Switch *ON* the SeaGuardII before releasing the boot button.
- 8. Release the boot button.
- 9. Tap the boot button once more.
- 10. Release the boot button once more; the new image is about to be transferred. The image is large and will take approximately 10 minutes to download.
- 11. When the download has finished, Switch *OFF* the instrument using the power switch, and then switch it back *ON* to confirm that the new image has been installed.

To check the image version, connect the SeaGuardII to AADI Real-Time Collector system overview where you will find information about the image version.



5.1 SmartGuard Image update

Procedure to update SmartGuard image:

- Format SD card as FAT (FAT16).
- Copy latest version of the SmartGuard image file, NK.nb0, to SD card.
- Switch OFF the SmartGuard.
- Insert SD card in slot.
- Press and hold both the green and red ring on the SmartGuard keypads while:
 - Switch ON the SmartGuard.
 - Wait for LED to switch from red to green.
- Release the red and green button (retry previous step if green LED goes OFF).
- Press and release green button only. The image is now being installed; the yellow LED is blinking until installation is complete, approximately 3 minutes.
 - (Repress green button if the yellow blinking does not start, check SD card if red LED is blinking).
 - (COM1 and COM2 cables may disturb installation of new image; disconnect cable if so happens).
- Wait until the main menu is shown in the display.
- Insert the SD card cover.





To check the image version, connect the SmartGuard to AADI Real-Time Collector system overview where you will find information about the image version. Or check using the display.

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