



xsens

Firmware Updater Manual

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Xsens Technologies B.V.

Pantheon 6a
P.O. Box 559
7500 AN Enschede
The Netherlands

phone +31 (0)88 973 67 00
fax +31 (0)88 973 67 01
e-mail info@xsens.com
internet www.xsens.com

Xsens North America, Inc.

10557 Jefferson Blvd,
Suite C
CA-90232 Culver City
USA

phone 310-481-1800
fax 310-416-9044
e-mail info@xsens.com
internet www.xsens.com



Revisions

Revision	Date	By	Changes
A	December 2008	PRI MMI	First version.
B	February 2009	PRI MMI	Added update for standalone MTs, Xbus Master, Xbus Master MTs and Xbus Kit
C	February 2009	HBE	Editorial changes
D	April 2009	HBE	Name change to MVN
E	May 2009	MHA	Added preferable mode Xbus system New corporate design
F	August 2009	PRI	Number of update options reduced to 3
G	October 2010	MHA	Minor editorial changes
H	November 2011	CMO	Added update for MTw/Awinda System
I	7 May 2013	MHA	Updated for MT SW Suite 4.1.5
J	27 February 2015	MHA	Updated for MT SW Suite 4.3
K	23 December 2015	MHA	New FW Updater online v4.0.4

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1 Introduction

Using the Firmware Updater, it is possible to update the firmware of your Xsens product. Always follow the instructions shown in the Firmware Updater very carefully.

NOTE: Do NOT run other programs while updating MT firmware. Do NOT run the Firmware Updater in a Windows emulation environment or virtual PC environment. Do NOT disconnect the device during an update in progress.

When updating the firmware in your device, please make sure to use the latest Firmware Updater, which is available at our website www.xsens.com. Not using the latest Firmware Updater can render your sensor inoperable in which case the sensor may need to be returned to Xsens for recovery.

To start the Firmware Updater, go to Start → All Programs → Xsens → Firmware Updater 4.0.4 → Firmware Updater 4.0.4.



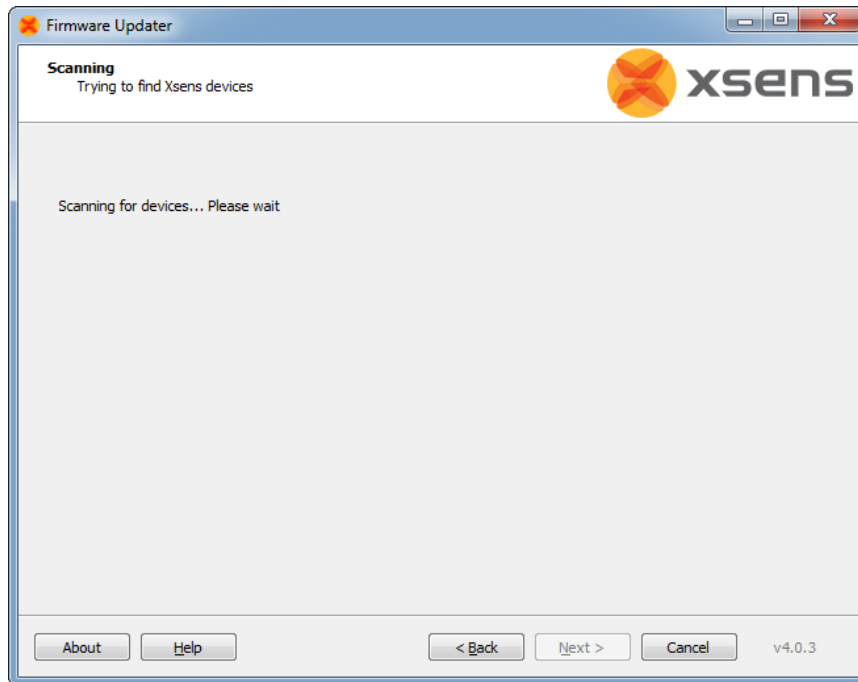
2 Firmware Updater functionality

Firmware Updater with version 4.0.4 and above downloads the latest released firmware by connecting to the Xsens server. A connection with internet is required at some point to perform a firmware update. It is possible to download firmware onto e.g. a laptop for updating the firmware of a Motion Tracker on a remote location.

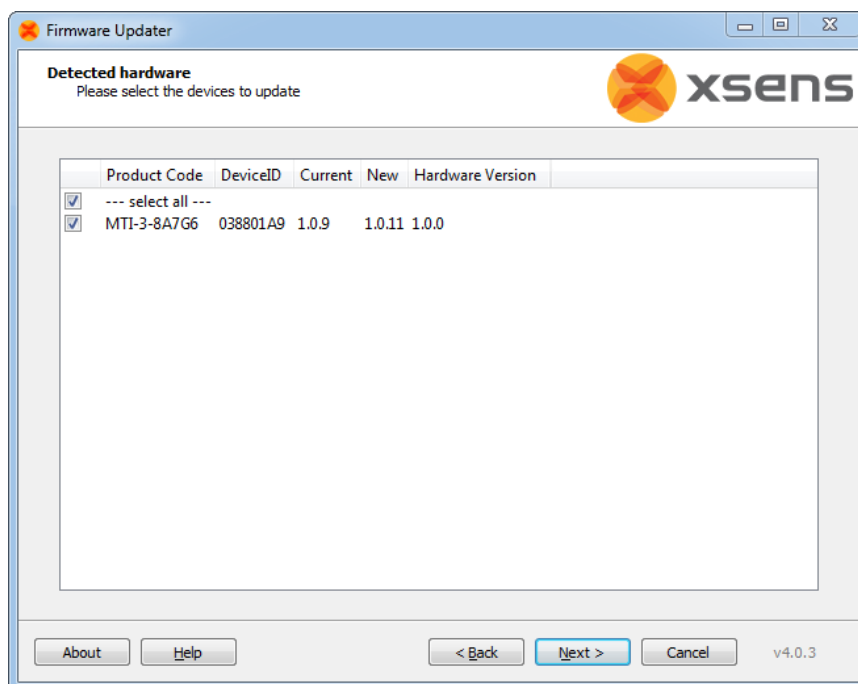


2.1 Standard firmware update process

When starting the Firmware Updater, click Next to Scan for devices.

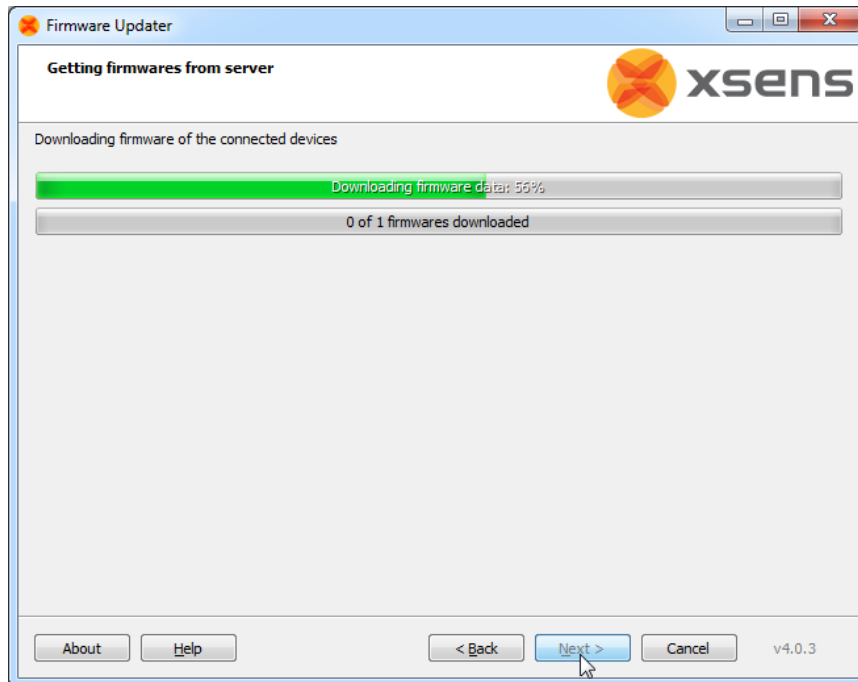


When devices are found, select the devices you want to update.

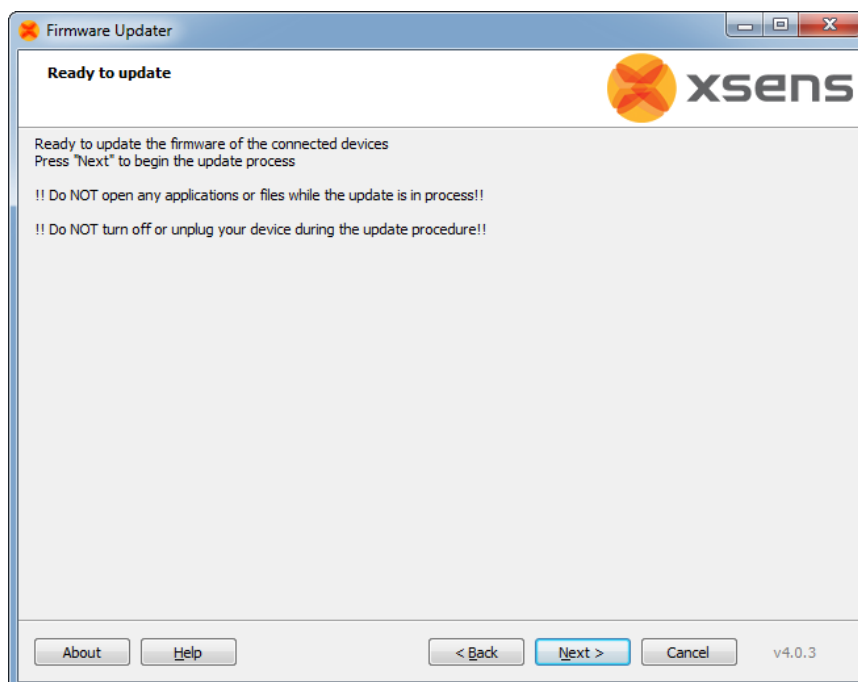




Click Next to download the firmware (if not already downloaded to cache before).

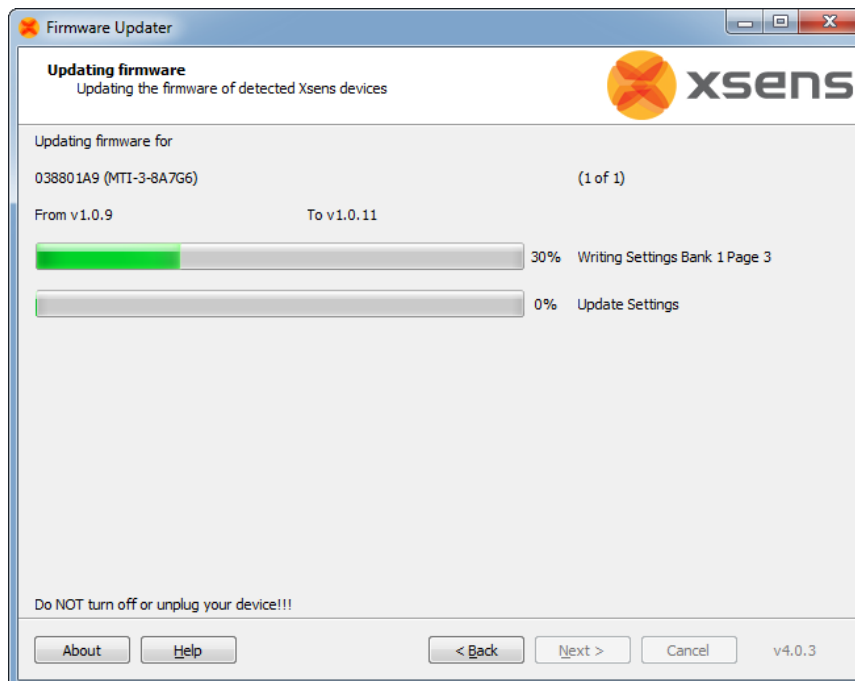


The Firmware Updater will indicate that the firmware can be updated.

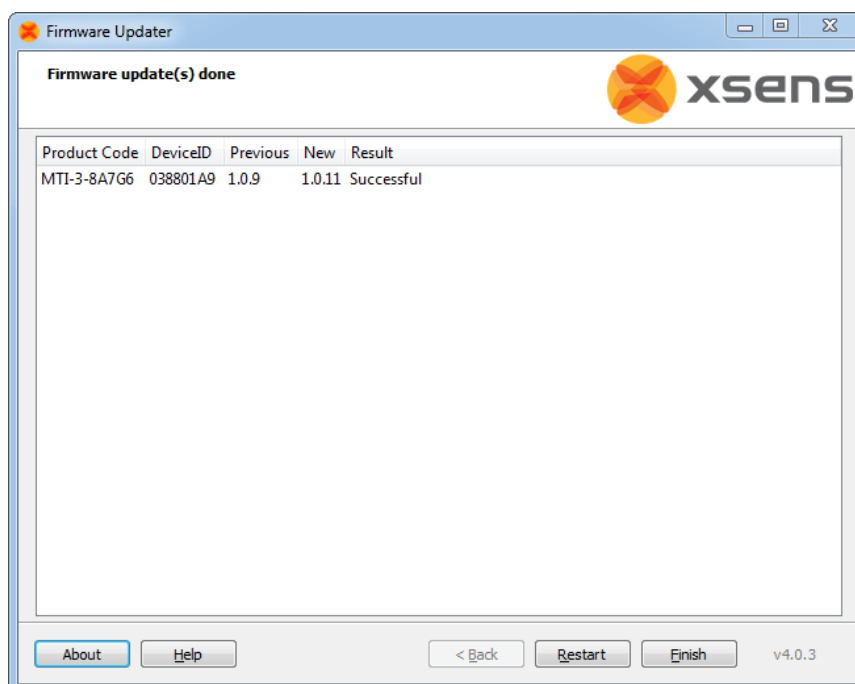




Pressing next will start the Firmware Update process.



When the firmware update process is finished, the Firmware Updater provides a summary of the updated devices and firmware versions.



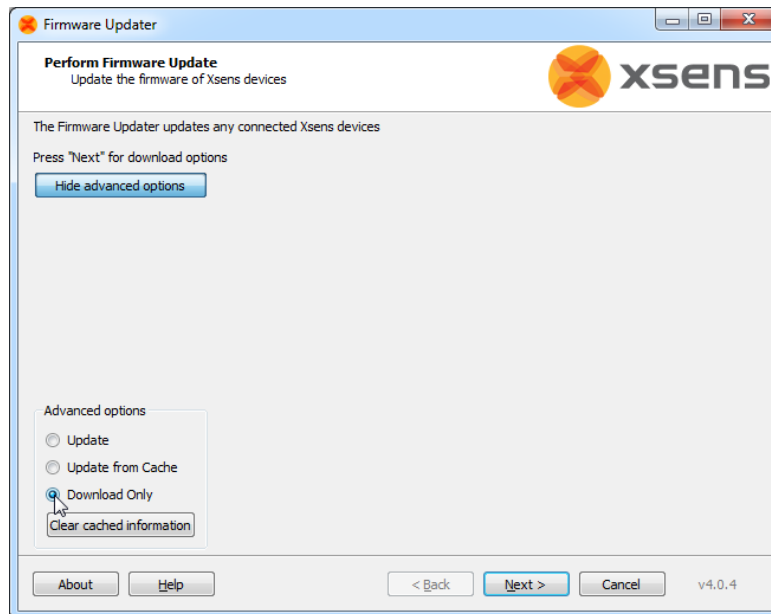


2.2 Updating Motion Trackers in offline mode

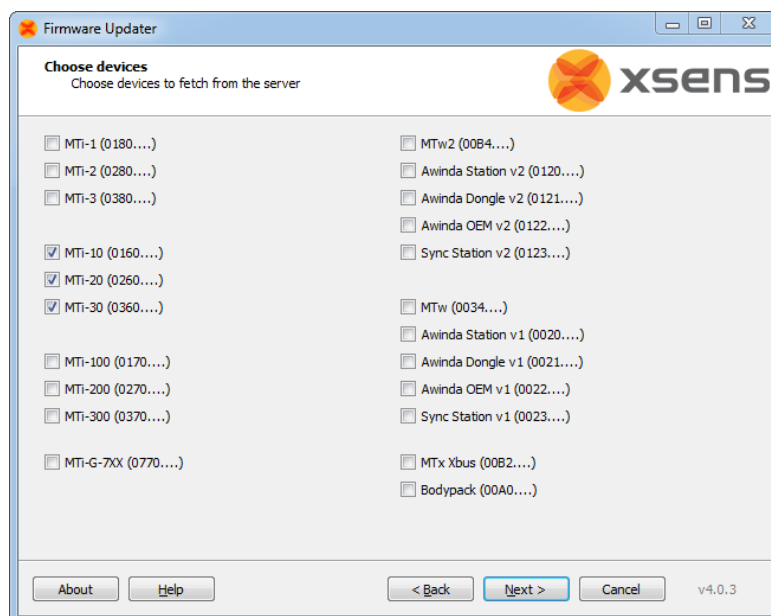
This feature can be used where there is no possibility to connect to internet, when the Motion Tracker is connected to the Firmware Updater. This is a two-step procedure:

2.2.1 Download Only

This section details the 'Download Only' feature that downloads firmware files to cache, in order to update Motion Trackers. First, click Show Advanced Settings and select "Download Only"

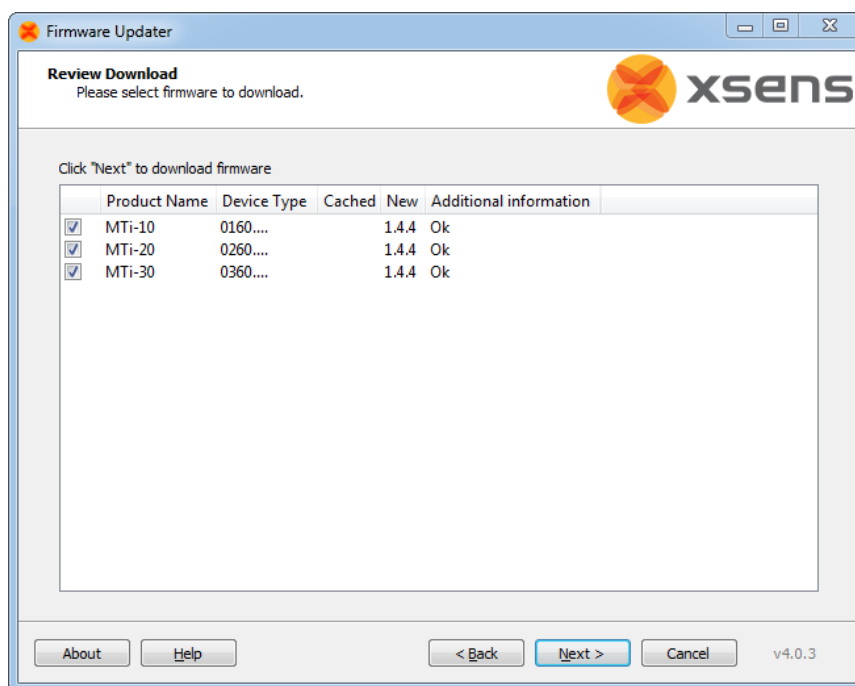


Click "Next" to make a selection of the firmware files to download. The number between brackets are the first digits of the DeviceID. In this case, the firmware files for all products of the MTi 10-series are selected. Click Next to download the firmware.

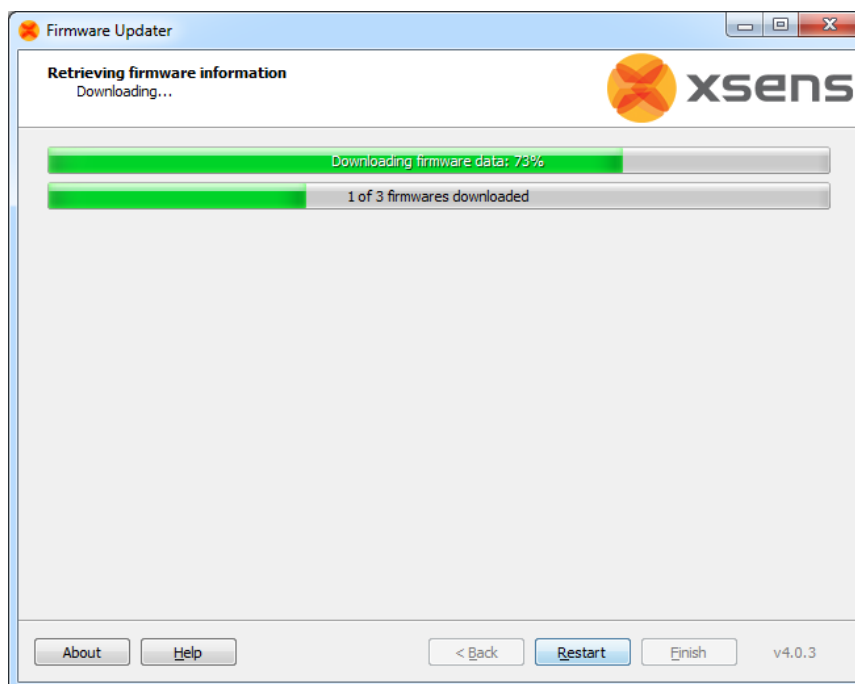




It is now possible to review the firmware files that will be downloaded. You can also review if the firmware files are newer than those already in cache.

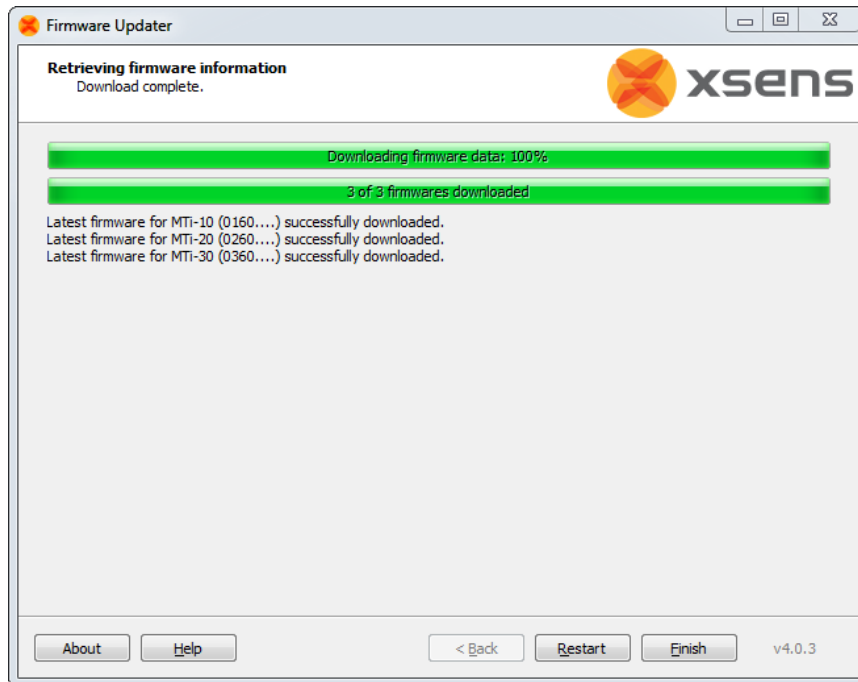


Click Next to download the firmware files.





When all firmware files are downloaded, the Firmware Updater shows the following log.

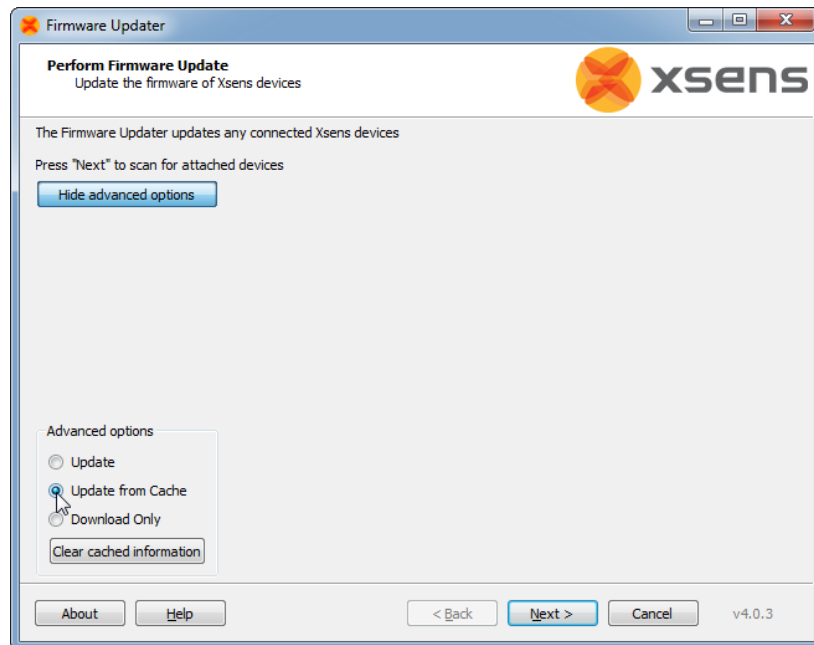


Now it is possible to update Motion Trackers from cache (see section 2.2.2).

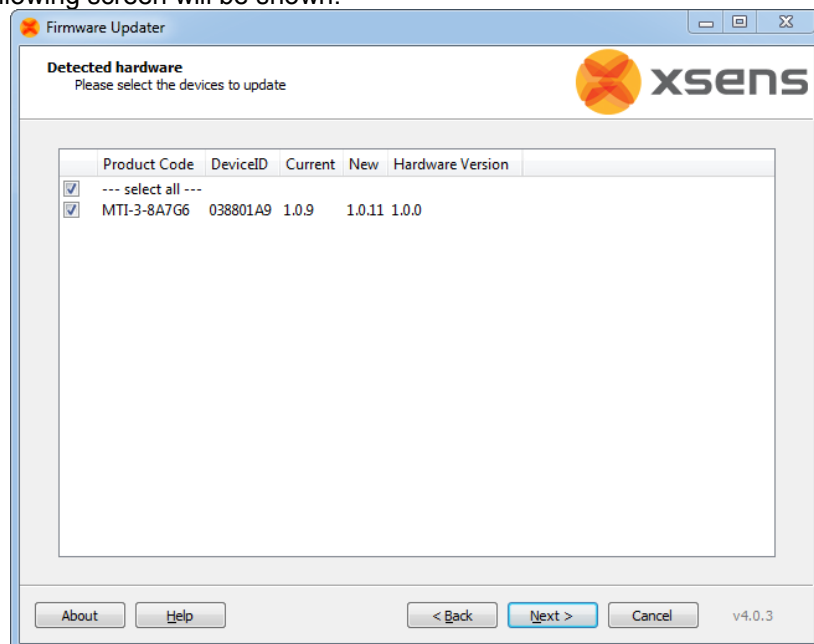
2.2.2 Updating firmware from cache

Firmware files are downloaded to cache with the “Download Only” step (as described in section 2.2.1). Firmware files are also downloaded to cache when performing a standard firmware update (see section 2.1), but this cache file may not contain settings for all the Motion Trackers. Always download firmware to cache manually (section 2.2.1) before updating from cache.

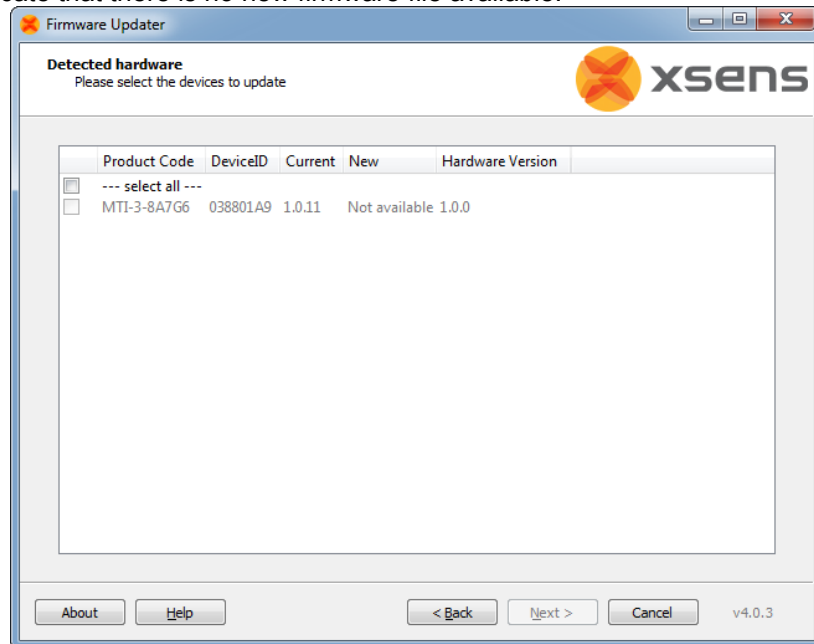
Click Show Advanced Options and select “Update from Cache”. Click Next to start scanning for devices.



The Firmware Updater will check whether the firmware is available in cache. If the firmware is available, the following screen will be shown:



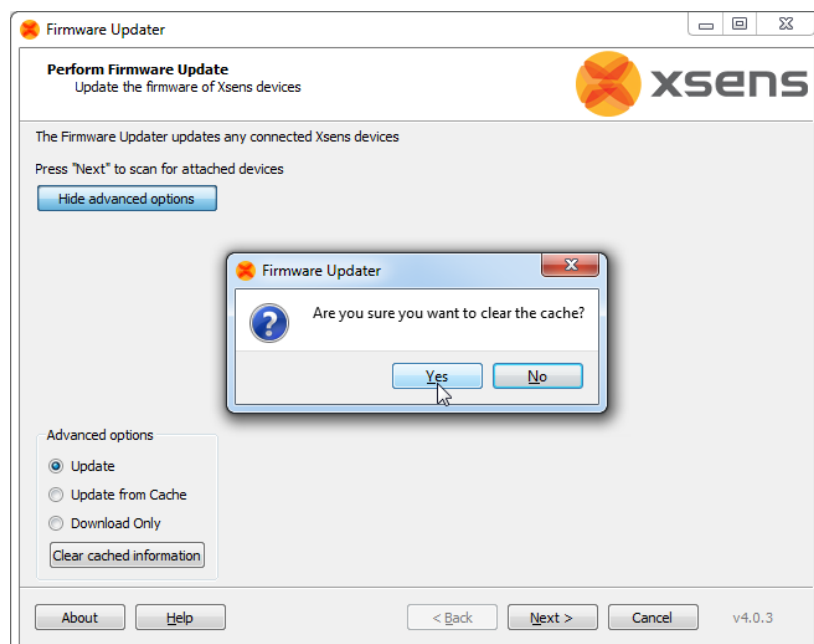
When the firmware file for the connected Motion Tracker is not present in cache, the Firmware Updater will indicate that there is no new firmware file available.



If the firmware file is available in cache, the remainder of the firmware update process is identical to the standard firmware update process, as described in section 2.1.

2.3 Clearing cache

It is possible to clear cache. In most cases, this will not be necessary though. Press “Show Advanced Options” and press the button “Clear cached information”. Confirm by pressing Yes.





3 Technical Support

Xsens Technologies B.V. is glad to help you with any questions you may have about the firmware updater or about the use of the technology for your application. Please contact Xsens' Support Team:

- ➔ by e-mail: www.xsens.com/support
- ➔ telephone: Xsens HQ +31 88 97367 00 / Xsens US office 310-481-1800

To be able to help you, please mention your **Firmware Updater version number** (shown at the lower right corner of the Firmware Updater window) and **software license registration number** in your e-mail.

In case of an Xsens MVN system please mention the **8-digit number** on the Xsens Sticker, you can find at the handle of the Suitcase or backpack.