

APECS 4500 Firmware Release

**Explanation of Software Changes
5418-2578, 5418-3065, 5418-2580, 5418-2579**

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(5418-2578, 5418-3065, 5418-2580, 5418-2579)

General

Woodward has released application firmware as an upgrade to SD-0162 for the APECS 4500. This application note describes the changes made. Refer also to product manual 36752 for product details.

Description of Firmware Changes

The new firmware is based on the existing firmware (SD-0162), with changes as listed in this document.

Parameter List

The parameter list has been reviewed and has been changed. Some unused parameters have been removed from the list. The memory map of the parameter area inside the unit has been changed as well. The functionality of the APECS 4500 has not been changed.

Compatibility with Existing Controls

Due to parameter changes in the firmware, configuration files created for previous firmware revisions are not compatible with the latest revisions (5418-2578, 5418-3065, 5418-2580, 5418-2579) and will require re-entering of values. Likewise, configurations for the latest revisions are not compatible with the older firmware (SD-0162). The ACT Tool provides functionality to perform the calibration file conversion operation.

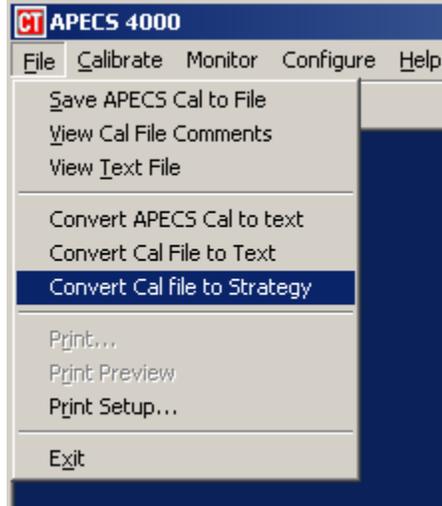
How to Upgrade

The previously prepared calibration files can be converted. The following procedure describes how to perform this operation. The example is based on R08 strategy, but this procedure is applicable for any other strategy.

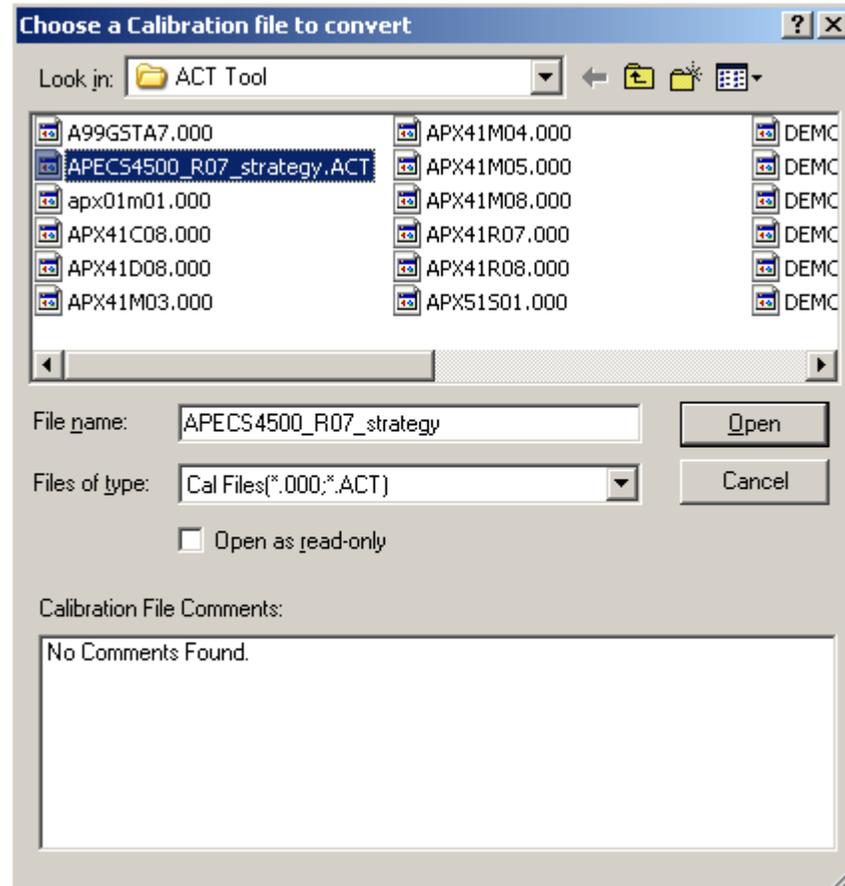
1. Connect the APECS 4500 controller to a computer (PC) via a serial cable. Run the ACT Tool application. Make sure that the APECS 4500 controller has been programmed with the appropriate strategy version.



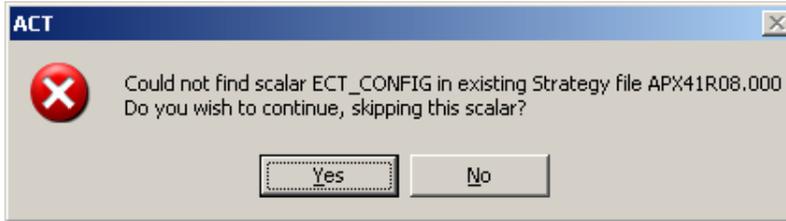
- Select the “File->Convert Cal File to Strategy” option from the main menu.



The program will ask you to choose a file that should be converted. Select the appropriate calibration file and click the “Open” button.

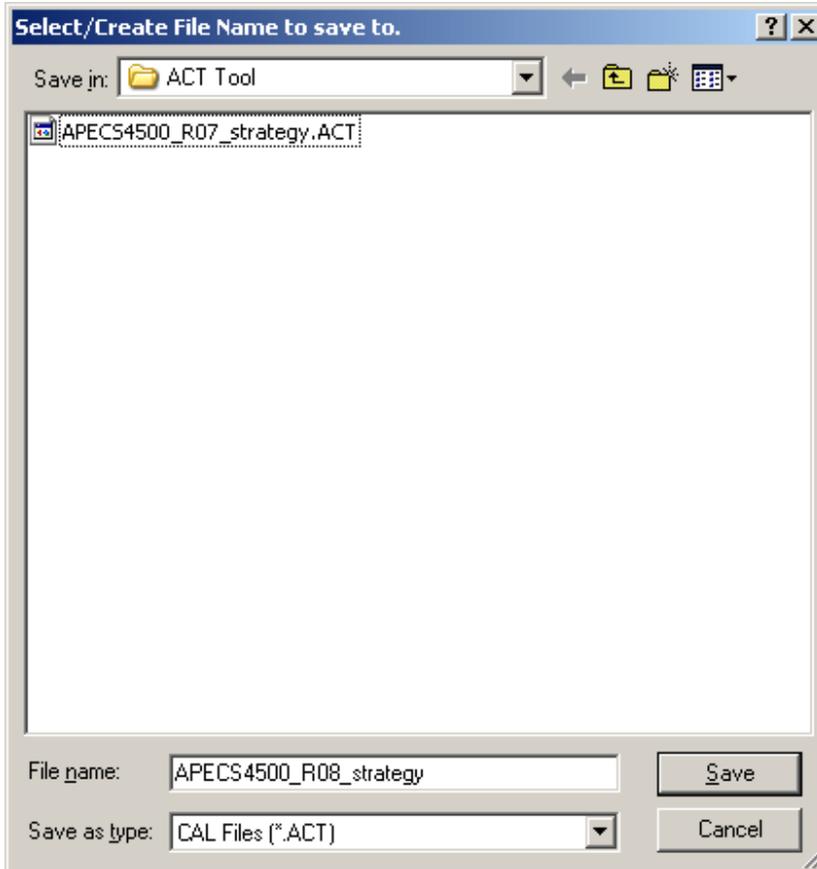


During the conversion process, the ACT Tool will recognize that some parameters in the new strategy are missing. This is a normal situation if the parameter list has been changed and some parameters have been removed. For strategies where the parameter list has not been changed, this situation does not occur.



Click the "Yes" button for each removed parameter. Parameters which were removed could be different for different strategies.

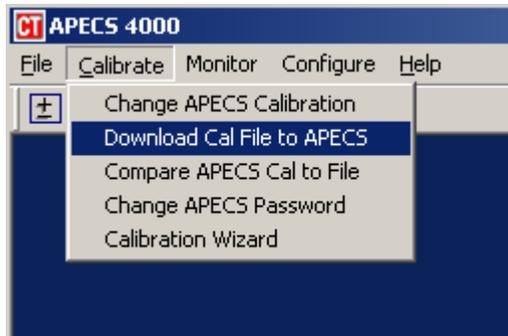
- Next, the ACT Tool will ask for a name of the file after conversion.



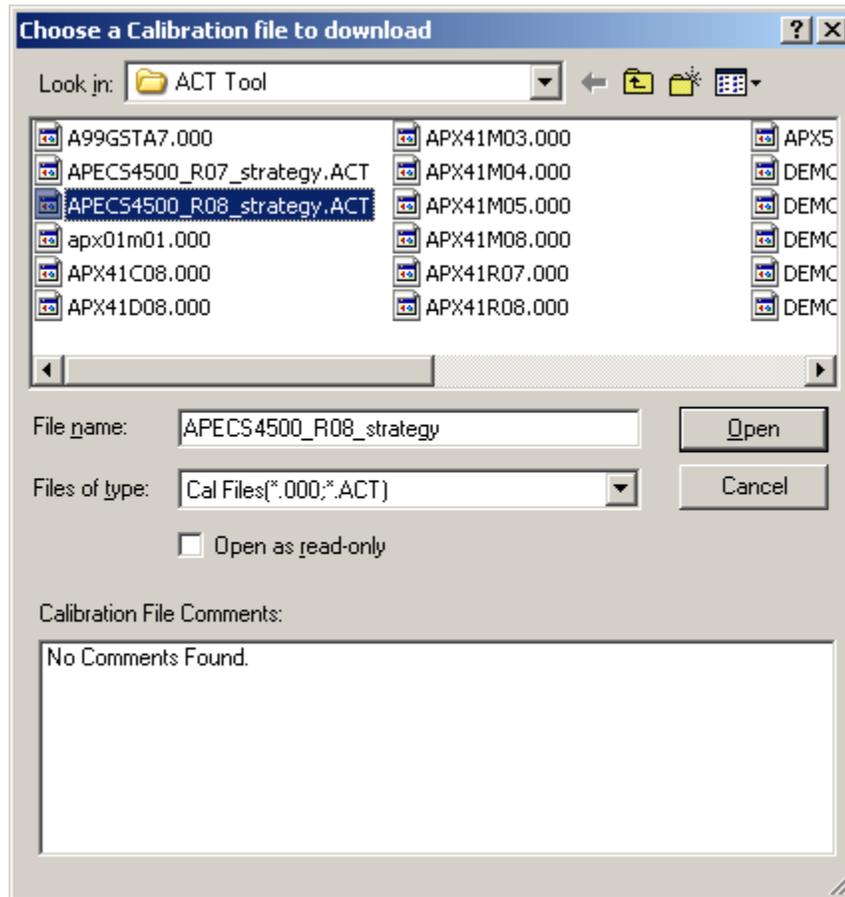
Provide a name and click the "Save" button. The file is saved.

- Programming the APECS 4500 controller.

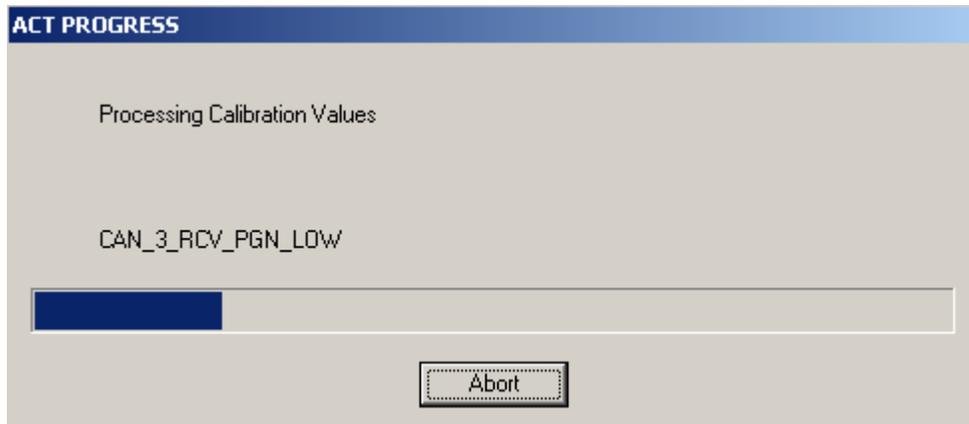
Select the "Calibrate->Download Cal File to APECS" option from the main menu.



The program will ask which file should be downloaded to the APECS controller. Select the file you prepared in the steps above. Click the “Open” button.



The download process will start. If everything is OK, a notification window will pop up.



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