



AcraDyne Gen IV ACE Controller Firmware Upgrade Instructions

NOTE: Always save PSet and IP address information before upgrading controller.

Upgrades to the AcraDyne Gen IV ACE Controller platform is simple and easy to perform. AcraDyne continually works to improve the product and add new features as requested by our customers. These improvements get transferred to controllers in the field using upgrades.

The chart to the right shows the history of Application Software and Firmware of the Gen IV platform. It is recommended to upgrade the Application and Firmware from the past year's final release until the most current Application and Firmware is reached. For example, if your controller currently has 3R15, Application 1.11 and Firmware 1.06, you would first upgrade to 5R15B2 and then upgrade to 3R16B7, continuing with the final release of each year until the most current version available on AIMCO's website. **NOTE: Any controller with Firmware of SysREL 2R20 or newer can be updated to the newest revision in one update. No need to go year by year for updates.**

AcraDyne identifies the Upgrade files under a term known as SYSREL. SYSREL stands for System Release and carries an identifier that clearly denotes the year of its release. For example, 1R17 would denote: 1R = 1st release of a given year, 17 = Year of the release, B1 = The first edit to the release.

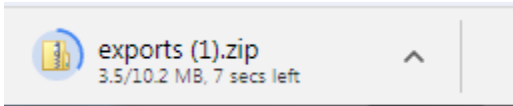
To identify the existing Application Software and Firmware in your controller:
Home -> Diagnostics -> Controller Overview. The information will appear as shown below.

Controller Overview	
General	
Model Number	iEC4
Serial Number	Engineering
Type	IPC4
Software Versions	
Application	01.53
Firmware	01.26

Any controller with Firmware of SysREL 2R20 or newer as noted below can be updated to the newest revision in one update. No need to go year by year updates after 2R20!		
2020		
Release	Date	Component
2R20	9/24/2020	Software: 1.119.0 Firmware: 1.73 Linux OS: 1.12

SysRel	Application	Firmware
2019		
3R19	1.114.3 - 1.115.0	1.62 - 1.63
2R19B2	1.113.0	1.59
2R19	1.104 - 1.113.0	1.56 - 1.59
1R19B2	1.98 - 1.107	1.50 - 1.55
2018		
3R18	1.81 - 1.95	1.38 - 1.48
2R18	1.75 - 1.79	1.34 - 1.37
1R18	1.74	1.34
2017		
2R17	1.63 - 1.71	1.27 - 1.32
2R17B1	1.53 - 1.54	1.26
1R17B1	1.53	1.26
1R17	1.52 - 1.53	1.26
2016		
3R16B7	1.47	1.24
3R16	1.38 - 1.47	1.20 - 1.24
2R16	1.34	1.17
1R16	1.29 - 1.33	1.16 - 1.17
2015		
5R15B2	1.25	1.12
5R15	1.22 - 1.25	1.11 - 1.12
4R15	1.12 - 1.17	1.07
3R15	1.11	1.06
2R15	1.09	1.04
1R15	1.07	1.01
2014		
1R14	1.01 - 1.02	1.00 - 1.01

To update your controller, you will need to download the GEN IV Controller Firmware from the AIMCO Website - Resources/Software /Gen IV iEC and iAC Firmware Update. Double click on link.

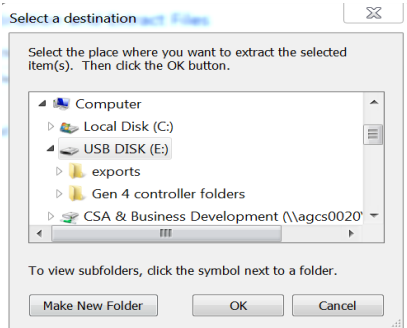


Once exports.zip is downloaded, open by double clicking on file.

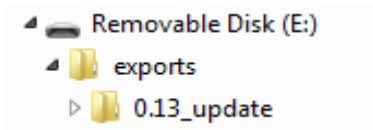
Right click on “exports” file, select “copy”



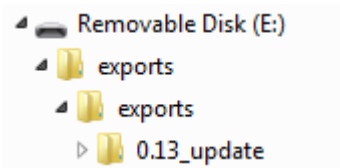
Locate USB drive on your computer, right click and select “paste”.



If unable to Import file from USB, check directory structure. The files on the USB drive should be in the following directory structure:



Correct Structure



Incorrect Structure

Remove the USB memory stick from laptop or PC and insert into any open USB port on the controller.

Using the Touch Screen or a System Port browser session, navigate to the “Advanced” menu. Click “Update Controller” and select the Available Update. See example below:



Figure 1 Controller Upgrade Notification

Click the green checkmark when ready. Click the green checkmark to disable the tool.

After the controller restarts, the user should see the messages.

Updating System
Do not unplug USB
Do not Power Off Controller
This may take a few minutes...

Once complete, re-power the controller.

When the controller has finished, navigate to Diagnostics → Controller Overview to view any changes to the "Software Versions". System settings (Ethernet IP address, PSets, Jobs, etc.) will remain unchanged.