

Application Note – Remote download to Unistream

This procedure can be used to download a new program to a Unistream controller without the risk of the controller crashing mid transfer. The program is transferred to the SD card using FTP and then transferred to the USB stick after which the application can be upgraded.

Initial requirements

A Unistream controller, configured to operate as an FTP server, fitted with an SD card and a USB stick (DOK – disk on key). An Ethernet connection to the Unistream controller. This can either be via the Internet or Intranet.

An SD card with a preset directory structure which should include Media/Video/UserApp from the root directory.

A USB stick with a directory on the root directory called Unistream_Files/UserApp. Formatted to FAT32.

An FTP client program installed on the PC where the changes are being made. This PC needs to have a USB stick fitted. Formatted to FAT32.

A VNC viewer installed on the PC where the modifications are to be made.

Unilogic operations

Make the required changes to the program using Unilogic.

Save the upgraded program to a USB stick, this is accomplished by selecting PLC > Download > Export project to a USB storage device. The file is saved to Unistream_Files\UserApp\UserApps_104.zip, where the 104 refers to the type of Unistream controller, ie 10.4”.

Note UserApps_104.zip is for a 10.4” PLC, this will be 156 or 070 for other screen sizes.

Prepare the Controller

Establish a VNC connection to the controller and go into Uniapps > Memory > SD Browser. Select the video folder and navigate into ‘UserApp’. Delete the old UserApps_104.zip file in this directory. On the DOK (USB) side of the browser navigate to Unistream_Files/UserApp and MOVE the old .zip file to the SD card, return to the SD card side of the browser and delete this file. We do this because the OVERWRITE function DOES NOT WORK.

Transfer new program

Connect to the controller using FTP and transfer the directory ‘UserApp’ from the USB stick in the PC, together with its contents, to the SD card. Put the ‘UserApp’ directory into Media/Video.

Using the VNC connection navigate to Media/Video/UserApp and transfer the new UserApps_104.zip file to the DOK UserApp directory.

Upgrade the Application

Now using VNC navigate to System > Upgrades > User App Upgrade and Import the new program.

The operation is now complete.