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Purpose

This document provides the steps for a user to use external fonts with MP2 or MP2+ firmware V1.6.xx/ Windows CE machines. Any devices that are on 1.7 firmware can have the fonts added using the process documented in the user guide.

IMPORTANT: This capability requires PC software V1.7.2.1 or later and for the user to follow these instructions carefully. If the font is not transferred and loaded correctly per the below steps, (beginning at step 7), the user is required to manually reboot the system and begin the process again. If the device is restarted, the font needs to be reloaded.

Required Material and Equipment

N/A

Intended Audience

Scinomix Certified Technician or approved vendors.

Prerequisites

SciPrint MP2 or MP2+ Firmware 1.6.x.x (Windows CE) Unit with new PC software V1.7.2.1 or later installed.

Requires a router with DHCP and a flashdrive to complete this process.

Procedure

Note: When applying these steps to the MP2+, use the MP2+ version of file paths in place of the MP2 paths.

1. Confirm that the crc.dll is placed in the location of the MP2 software:

C:\Program Files (x86)\Scinomix\SciPrint-MP2 Driver\

2. Find the desired font.

Note: Only TrueType fonts (.ttf) are supported. If the font is already installed, make sure it is installed to the default Windows font directory:

C:\Windows\Fonts\.ttf

- a. To use a font that is not currently installed, install the font to the default Windows font directory, **or** copy the font file into one of the MP2 software's font search paths:

- Device ProgramData folder:

C:\ProgramData\Scinomix\Sci-Print_MP2_net_Driver\.ttf

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- Device data folder:
C:\ProgramData\Scinomix\Sci-Print_MP2_net_Driver\Data\.ttf
 - Device fonts folder:
C:\ProgramData\Scinomix\Sci-Print_MP2_net_Driver\Fonts\.ttf
 - Data\Fonts:
C:\ProgramData\Scinomix\Sci-Print_MP2_net_Driver\Data\Fonts.ttf
3. Identify the filename and long name/display name of the font. Also confirm the font is a True Type Font (.ttf).
- a. In the Windows/Fonts folder, right-click on the font and select **Properties**. If the font is part of a family, open the font family first in order to see the individual font files.
 - b. The file name is in the box near the top of the General tab.

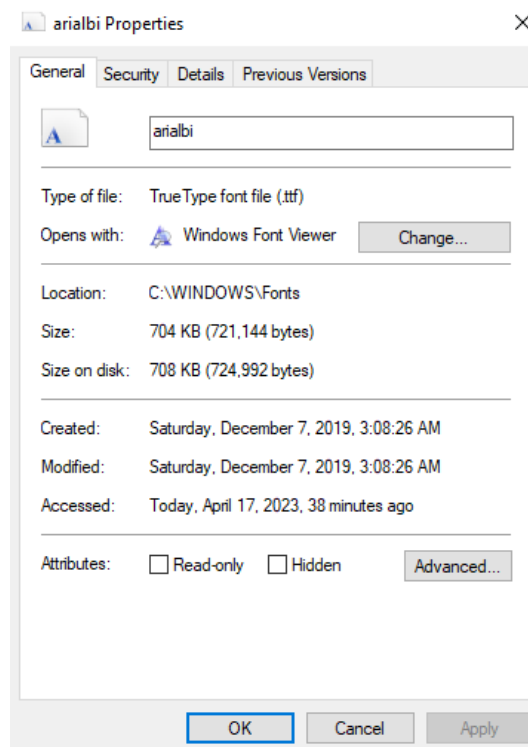


Figure 1.

- c. The display name is the *human readable* name of the font. This property appears in the Details tab labeled **Title**. For example, the display name may be *Calisto MT Italic* and the file name may be *CALISTI.TTF*.

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4. Use this information to add the font to the External Fonts section in *LabelDefinitions.xml*.
 - a. Open the label definitions file:
C:\ProgramData\Scinomix\Sci-Print_MP2_net_Driver\Data\LabelDefinitions.xml in a text editor; for example, Notepad.
 - b. Find the ExternalFonts element. Normally it appears as: <ExternalFonts />
 - c. Replace with with an element with both an opening and closing tag, and insert an ExternalFont element between the tags (it is recommended to copy this string and paste into the file overwriting the External Fonts tags):

```
<ExternalFonts>
  <ExternalFont Name="CALISTI" DisplayName="Calisto MT Italic" FontNo="12" />
</ExternalFonts>
```
 - d. If any external fonts have already been added, create another ExternalFont element with Name, DisplayName, and FontNo attributes following those already existing.
 - **Name:** This must be the file name, **without** the file extension .ttf.
 - **DisplayName:** The human readable name/title of the font
 - **FontNo:** Assign the **FontNo** attribute starting with 12 and incrementing.
5. Launch the MP2/MP2+ software and create a label using the new font, which should now be listed as an option in the **Font** dropdown of the label designer.

Note: The font is not rendered on the preview.

6. Save the label.
7. Add the font to the printer.
 - a. Copy the font onto a USB, insert into the printer. Using the printer screen, copy the font from USB to IFFS.
8. Load the font into the printer's memory.
 - a. From the MP2 Hardware screen, send a command to the printer port to load the font into the printer memory. (Note it is the lowercase letter "l" used following the capital letter "M" and not the number one.):
M l FNT;/iffs/
For example: M l FNT;/iffs/CALISTI
 - b. If successful, no errors should appear on the printer screen. Wait a few seconds to allow the printer to finish loading the font.
 - c. From the MP2 Hardware window, send a query to the printer to confirm the font is loaded:
 - q s;
 - if using a bitmap font, command is q b

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A Y response is expected. If a N response is received, the font did not load or does not exist. A response of C can occur when the printer knows the font exists but has not loaded it. If this happens, repeat step 8a.

9. Determine the font number. Under normal circumstances the font number is set to 12, and can be checked as follows:
 - a. Connect the printer and PC via a DHCP enabled router.
 - a. Use the printer screen to determine the printer's IP address (*Settings > Info > Ethernet: IPv4*) and type that IP into a web browser to access the printer web console.
 - b. Click **Fonts** and review the available fonts.
 - c. Identify the desired font and take note of the font number (*JScript ID*).
10. If the font number determined here is different than originally entered when adding the external font in step 4:
 - a. Update the **FontNo** attribute in the label definitions file.
 - b. Go through the label document using the font and make sure each field still has the external font selected.
 - c. Save the label.

Note: If the printer is rebooted, the font needs to be reloaded, and the font number may change. This step may need to be repeated.

11. Print and apply the label. An error may occur where the newly added font may be too large and has to be reduced. This can be recognized by trying to print but the printer screen shows an error message.

If you need additional assistance, please call our service department at 314-298-9800 or email service@scinomix.com.

Definitions

N/A.

Revision History

Version	Change	Effective Date	Approved by
A	NEW	OCT-06-2023	Sales and Service Manager