Color Management in EFI ColorProof XF (version 2.6.2):

The Color Management engine is very straight forward. However there are a few exceptions worth mentioning.
First of all the EFI ColorProof XF uses the Adobe PS engine. The internal Adobe CPSI color conversion (PS CM) is not overridden by the applications color management module, so color management works differently for Raster files and PS/PDF files.

For Raster files the application works like a fully functioning Color Server.
Source Profile > **Destination** Profile > **Paper** Profile
(Including an optional black point compensation)

For PostScript files the CPSI CM comes into play. With PS/PDF files there is only one conversion taking place.
Source or Destination Profile > **Paper** Profile (Color Server properties are ignored).

If only a source profile is specified in the application, it will be used as a **source** profile and will be converted to the **paper** profile using the application color management.
If there is no source profile specified in the application, however destination is specified, then the destination profile will be used as a **source** profile.
If there are both source and destination profiles specified the source profile will be ignored and the PS will use the destination profile as a **source** profile. This means the destination will always knock out the source.

Embedded profiles in PS/PDF
If a source profile is embedded in a PS/PDF it will be used instead of specified source profile, or in case of specifying both destination and source profile it will be used instead of the destination profile (source profile is ignored). If there are no profiles specified the CPSI will do an internal color conversion to a "imagesetter" profile.
If source and destination profiles are embedded they will be used instead of both specified source and destination profiles (the only option for a full color server with PDF files is a PDF/X-3 workflow).

RGB in PS/PDF - Internal CPSI CM:
In case of a RGB image/vector in the PS/PDF file the CPSI will make an internal color conversion with an unknown and very bad **source** profile for RGB. The source profile specified will be used as a **destination** profile. If however, a destination profile and a source profile are specified (or a source is not specified

at all), the source profile will be ignored and the destination profile will be used as a **destination** profile.

If the RGB element has an embedded profile, it will be used as a **source** profile for the internal color conversion made by the CPSI. The **destination** will be the same as mentioned above.

<u>Device Link Profile instead of Paper Profile:</u>
Raster Files:
Source profile is ignored; however color management must be activated.
If source profile and destination profile are specified they are both ignored.
PS/PDF Files:
Not Tested Yet

- Both Device Link Profile and Paper Profile are patched:
  Not Tested Yet

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