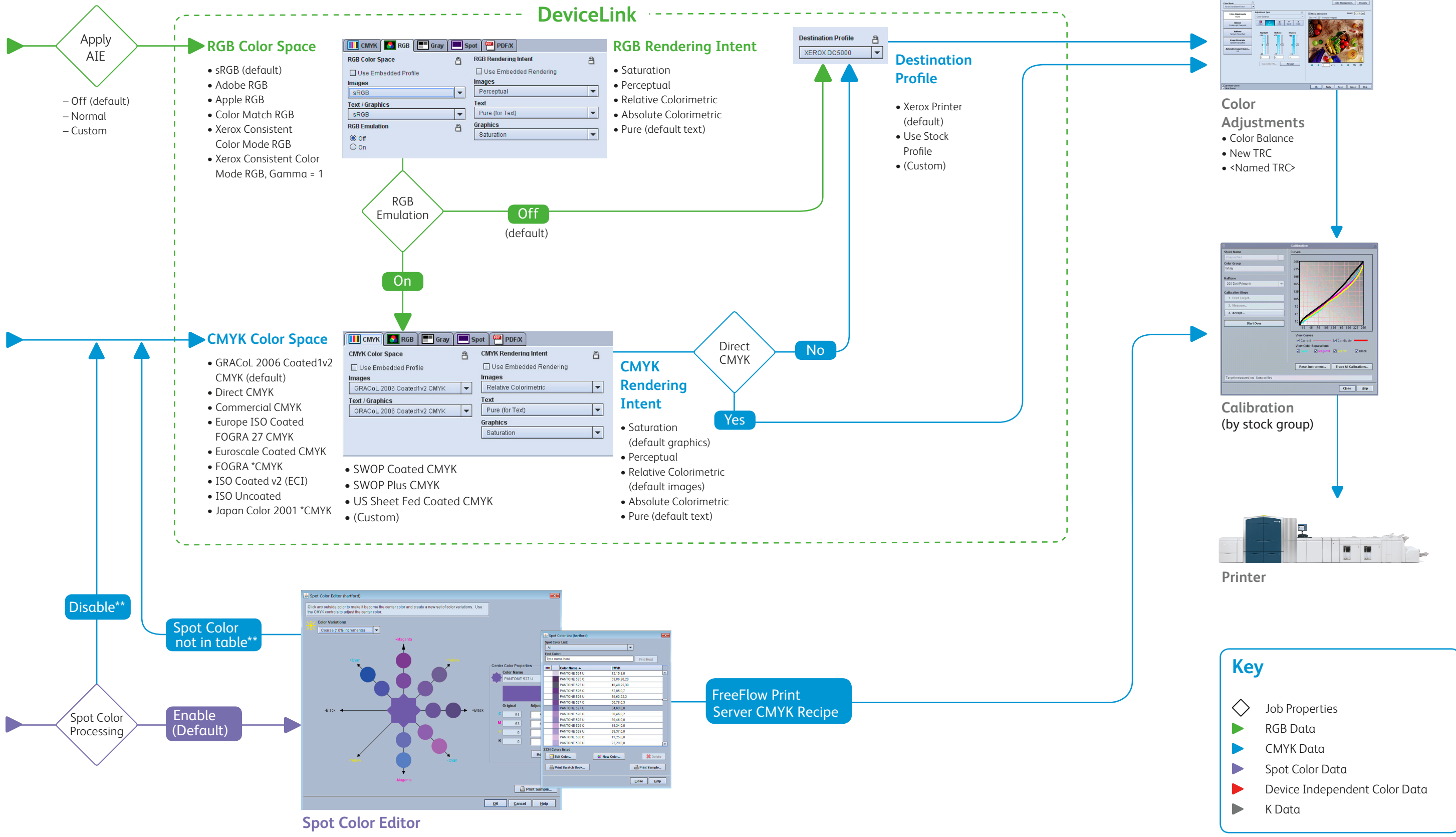
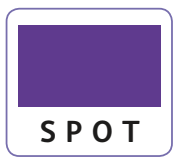


Input RIP Process Post-RIP Process



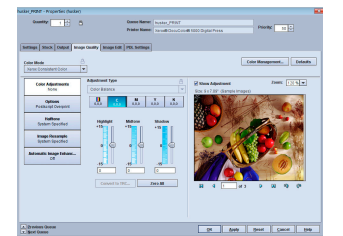
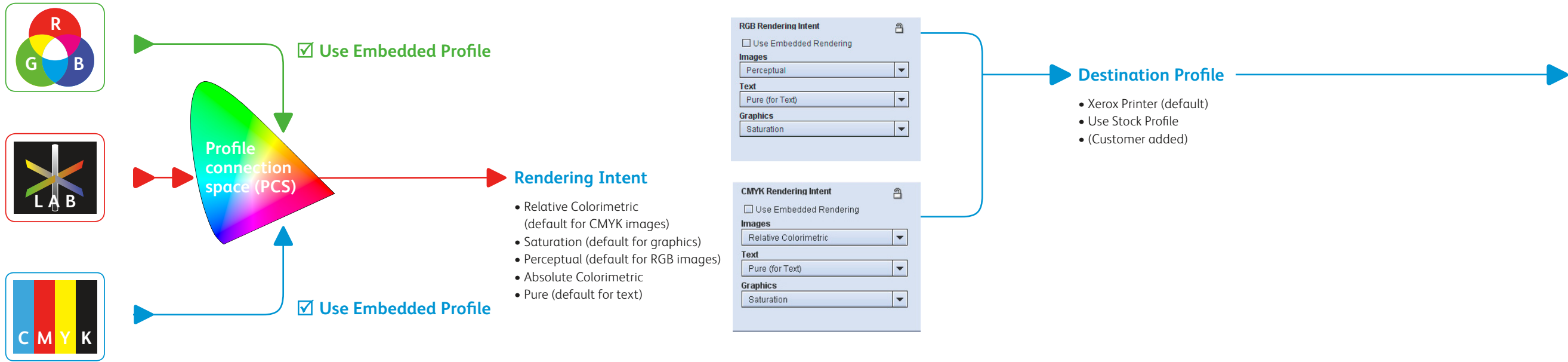
Key

- ◇ Job Properties
- ▶ RGB Data
- ▶ CMYK Data
- ▶ Spot Color Data
- ▶ Device Independent Color Data
- ▶ K Data

**Several variants for coating type

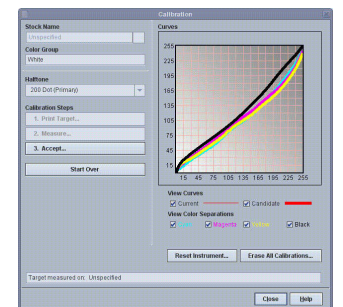
**Alternative color definition is used. CMYK (shown) is commonly used.

Input RIP Process Post-RIP Process



Color Adjustments

- Color Balance
- New TRC
- <Named TRC>



Calibration (by stock group)



Printer

Maximize Your Color Workflow

RGB Workflow (DeviceLink)

- Default: **sRGB**, optimal for office applications and direct photo printing. **Adobe RGB** is often used by designers working in the Adobe Creative Suite.
- **Use Embedded Profile** (default on iGen4): This option honors the intent of designers who associate profiles with their photo/images.

Rendering Intents

CMYK: **Relative Colorimetric (RC)**: best mapping from source CMYK to printer CMYK while adjusting for paper white. **Absolute Colorimetric**: required when evaluating against CGATS standards. **Saturation**: offers RC matching but preserves 100%K (rather than emulating pure black of the source space). **Pure**: same as Saturation.

RGB: **Perceptual**: optimized for photo reproduction, maintains rich hues while bringing out detail in dark and saturated areas. **Saturation**: delivers maximum saturated primary colors for graphics, while maintaining reasonable color balance and tone for images. **Pure**: same as Saturation except for PostScript/Legacy PDF, ensures that R=G=B is printed K only.

- **RGB Emulation** processes RGB objects through the defined **CMYK Color Space**. When **On**, RGB and CMYK output emulates the look of the specified CMYK device or print standard. When **Off**, RGB renders to the full gamut potential of the printer.
- **Automatic Image Enhancement (AIE)**, works best on sRGB images, and adds value to consumer photography applications.
- For RGB black/grays, use **Pure** rendering intent to force printing with K only.

CMYK Workflow

- **Direct CMYK**
 - Uses the full printer gamut with no color management. This can be used to achieve the richest color (especially for text and graphics).
 - Supports a workflow where color management is applied upstream.
- Default: **GRACoL (v7)**, provides optimal color balance for traditional CMYK workflows and offset press emulation. Additional common CMYK standards are built-in for regional and shop-specific preferences.
- Add new CMYK profiles via the **Color Manager** to emulate specific devices and the system dynamically creates Device Link.
- DeviceLink technology insures black preservation.

PDF/X Compatibility

- Simply check **Process as PDF/X** to honor standardized PDF/X-1a and PDF/X-3.
- Option for RGB to bypass emulation.
- Files which do not contain PDF/X Output Intent will not be processed as PDF/X.

Grayscale Processing (not illustrated)

- If **Color Mode → Grayscale** is selected, all ldata (grayscale and full color) is rendered with K only.
- In **Color Mode → Normal**, grayscale input data is printed as K. Grayscale Color Space options adjust the contrast level.

Spot Color Processing

- Named spot colors in a print file will print using built-in CMYK recipes for PANTONE® PMS and GOE colors which are fully customized and PANTONE licensed.
- Spot colors can be fine tuned with the visual **Spot Color Editor**. Custom named colors can also be added.
- **Spot Color Processing** is not impacted by any other color controls, except for calibration to ensure consistency.

- Solution available to map “RGB” spot colors from office applications
- If the spot color name is not found in the table, or the feature is **Disabled**, the alternative color definition is used.**

Using embedded color management (embedded profiles)

- To honor embedded profiles, check the **Use Embedded Profile** box for the applicable **Source Color Space**.
- Black channel is not preserved.

Xerox Consistent Color (XCC) Mode minimizes differences between printers by forcing the following settings:

- **RGB Emulation “On”**
- **Spot Color Processing “Disabled”**
- Default **RGB** and **CMYK color spaces**
- **Color Adjustments “None”**

**Alternative color definition is used. CMYK (shown) is commonly used.