Release Notes

English

Karat Update for 1-Bit TIFF Support

Upd_Brisque 41_74 Karat version 4.1.76.9.

739-00108A-EN

www.creo.com

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Introduction

We are pleased to send you the Karat Update for 1-Bit TIFF Support kit on Brisque version 4.1 (Creo P/N 518-00808A).

What Is in These Release Notes

The release notes include the following sections:

Who Should Load This Update Kit

What This Update Kit Includes

Software and Hardware Requirements

Loading Instructions

1-Bit TIFF Workflow for the 74Karat Press

Guidelines for the 1-Bit TIFF Workflow on the 74Karat Press

Who Should Load This Update Kit

74Karat customers, who want to image and print 1-bit TIFF files on the 74Karat U/I station, should install the Karat Update for 1-Bit TIFF Support update on Brisque version 4.1.

What This Update Kit Includes

The update kit includes two CDs and this document. The first CD includes the Upd_Brisque41_Output.obj package (version 4.1.76.5, Creo P/N 633-00307A). This CD must be installed first.

The second CD includes the Upd_Brisque41_74karat.obj package (version 4.1.76.9, Creo P/N 651-00177A). This CD should be installed after the Upd_Brisque41_Output.obj package is installed.

Software and Hardware Requirements

Handling 1-bit TIFF files requires the following:

Software Requirements

- Brisque version 4.1.76, where the JoBit operation converts 1-bit TIFF files to a Brisque Job format.
- Karat Update for 1-Bit TIFF Support kit on Brisque version 4.1(Creo P/N 518-00808A). This kit contains the following Brisque updates:
  - Upd_Brisque41_Output.obj (version 4.1.76.5, Creo P/N 633-00307A)
  - Upd_Brisque41_74karat.obj (version 4.1.76.9 Creo P/N 651-00177A).
- 74Karat User Interface released version 1.05.77 (Creo P/N 501V52191K).

Hardware Requirements

The 74Karat U/I station hardware configuration must include the latest imaging kit configuration, namely Ebox series II and the SBC 566MHz board (Creo P/N 503C2L434) with 512MB RAM memory.



Note: This requires an additional 256 MB memory on top of the existing memory (KIT, 256MB DIMM for 1 BIT TIFF, Creo P/N 512-00165A).

Loading Instructions



Important: After you have installed the **Upd_Brisque41_74Karat** update, to install additional Brisque updates you must contact the Creo Service Center.

The update can be installed via the new Load Update feature of Brisque version 4.1. The Load Update feature allows you to install updates to your Brisque software from a CD, and to start the installation process without having to log off from the Brisque applications.

For more information please refer to the Brisque version 4.1 What's New document (Creo P/N 399Z3R897A).

Installation of Karat Update for 1-Bit TIFF Support kit, includes the following:

1. Installation of Upd_Brisque41_Output.obj (version 4.1.76.5, Creo P/N 633-00307A).
2. Installation of Upd_Brisque41_74karat.obj (version 4.1.76.9 Creo P/N 651-00177A).

Installation of Upd_Brisque41_Output.obj (version 4.1.76.5, Creo P/N 633-00307A)

1. From the Launch Pad, open the **Services** menu and double-click the **Load Update** icon.

2. Type `root`, enter your password [`ripro`] and press ENTER.

   The Load Update application is activated after several seconds.

3. Insert the **Upd_Brisque41_Output** package (version 4.1.76.5, Creo P/N 633-00307A) CD.

4. Select the **Install** tab.

5. Select the **CD** button.

   The Upd_Brisque41_Output appears on the list.

6. From the list, select Upd_Brisque41_Output.obj (Version 4.1.76.5, Creo P/N 633-00307A) and click **Install**.

   The system reboots before & after the loading of the update.

7. After rebooting, log in as `cdesci` and go to **Station Info**>**More Info** to confirm that the following update is listed: Upd_Brisque41_Output.obj (Version 4.1.76.5, Creo P/N 633-00307A).

8. Remove the CD.

Installation of Upd_Brisque41_74Karat.obj (Version 4.1.76.9 Creo P/N 651-00177AD)

1. From the Launch Pad, open the **Services** menu and double-click the **Load Update** icon.

2. Type `root`, enter your password [`ripro`] and press ENTER.

   The Load Update application is activated after several seconds.

3. Insert the **Upd_Brisque41_74Karat** package (version 4.1.76.9, Creo P/N 651-00177A) CD.

4. Select the **Install** tab.

5. Select the **CD** button.

   The Upd_Brisque41_74Karat appear on the list.

6. From the list, select Upd_Brisque41_74Karat.obj (version 4.1.76.9 Creo P/N 651-00177A) and click **Install**.

   The system reboots before & after the loading of the update.

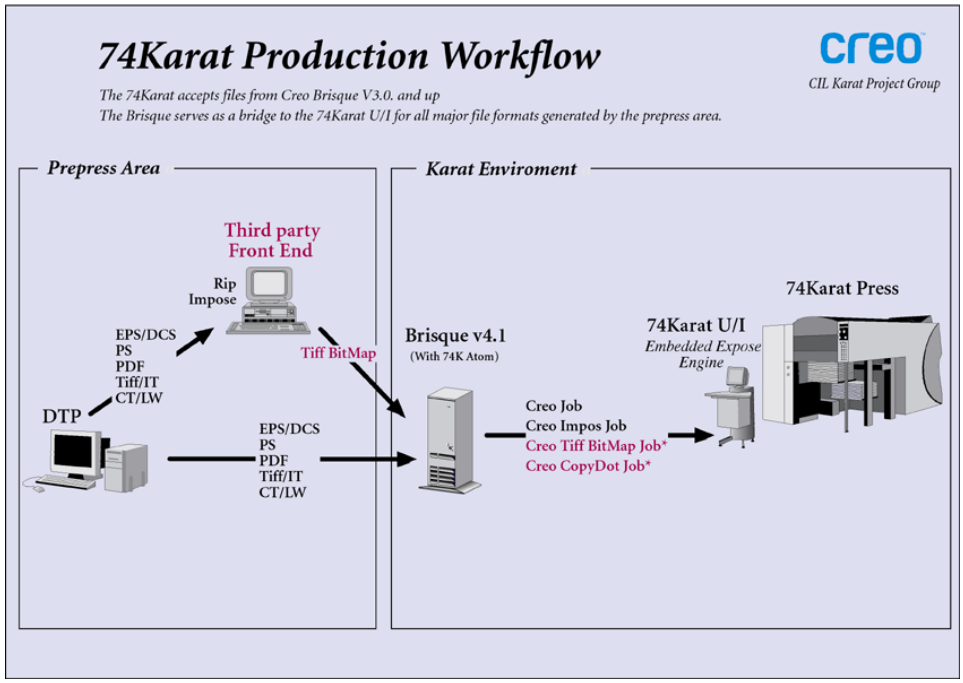
7. After rebooting, log in as `cdesci` and go to **Station Info**>**More Info** to confirm that the Upd_Brisque41_74Karat.obj (version 4.1.76.9 Creo P/N 651-00177A) update is listed.

8. Remove the CD.

1-Bit TIFF Workflow for the 74Karat Press

All 1-bit TIFF files from a third-party front end must be processed by the Brisque station (version 4.1.76) and translated to a Brisque Job format via the JoBit operation, before they are copied to the 74Karat U/I station.

The file preparation for the 74Karat workflow is shown below:



Note: Since the 1-bit TIFF file format is a device-independent format, it is very important for the file creator to define the size, resolution, orientation, screen set and tone-reproduction curve before the file is sent to the 74Karat press. The Brisque and the 74Karat stations cannot control 1-bit TIFF files as well as they control Brisque CT / LW Jobs

Guidelines for the 1-Bit TIFF Workflow on the 74Karat Press

- Since the 1-bit TIFF file is exposed on the 74Karat press as delivered (WYSIWYG), the 74Karat press has no control over the resolution quality, screen set and tone- reproduction curve on the printout. Selecting a different screen set or tone- reproduction curve (in the Imaging dialog box, **Sep**. & **Exp** tab) will not affect the bitmap data. The 1-bit TIFF file creator is therefore responsible for exporting 1-bit TIFF files that comply with the 74Karat press resolution, screen set and tone- reproduction curve.
- **Screen format selection**: Different screen formats can result in varying print qualities, and each vendor uses a different method of screening algorithm. When preparing the 1-bit TIFF file in a third-party RIP process, selecting the correct screen format before exporting the file to the Brisque station is essential. Printing quality can be ensured by testing and using the most appropriate vendor screen set for the 74Karat press, as provided by Creo.
- **Tone-reproduction curve**: Quality results on the 74Karat press can only be ensured by using an appropriate correction tonal curve (dot gain correction table) during the 1-bit TIFF file preparation.
- **File resolution**: The 74Karat press can image file resolutions of 2540dpi (100dpm) or 2400dpi (94.88dpm) only.
- **File compression**: The 74Karat press can image uncompressed 1-bit TIFF files, as well as G4 1-bit TIFF files. The 1-bit TIFF G4 format is a very powerful lossless compression scheme for bitmaps, and in most cases has a much smaller file size than the equivalent 2-bit TIFF Uncompressed format. However, for cases where the bitmap image is very noisy and has a poor compression ratio, it may be better to use the 2-bit TIFF Uncompressed format for imaging.



Note: To ascertain the customer's expectation of the quality achieved when printing 1-bit TIFF files on the 74Karat press, consider checking the customer's TIFF sample files beforehand.

- **File dimension**: The job dimensions can be up to 735mm x 510mm.
- **File orientation**: The 1-bit TIFF file can be rotated in Brisque using the 74Karat operation, but this process creates a heavy processing load. It is therefore recommended that the 1-bit TIFF file creator be responsible for exporting 1-bit TIFF files from the RIP station that comply with the 74Karat press orientation. Therefore, it is recommended to prepare full format 1-bit TIFF files in Portrait orientation.
- **Mixed Job**: Imaging of a 1-bit TIFF job, after selecting **Registration Marks** or **Gray Scale Bar** labels (in the 74Karat Imaging dialog box, **Label** tab) will behave as a mixed job, and therefore it might not be exposed in full performance.
- **Separation mode**: 1-bit TIFF jobs can contain up to 4 separations, CMYK only.