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Improved Image Extraction for Visual Face Credentials

- Affected Version: BioStar 2.9.0 or above

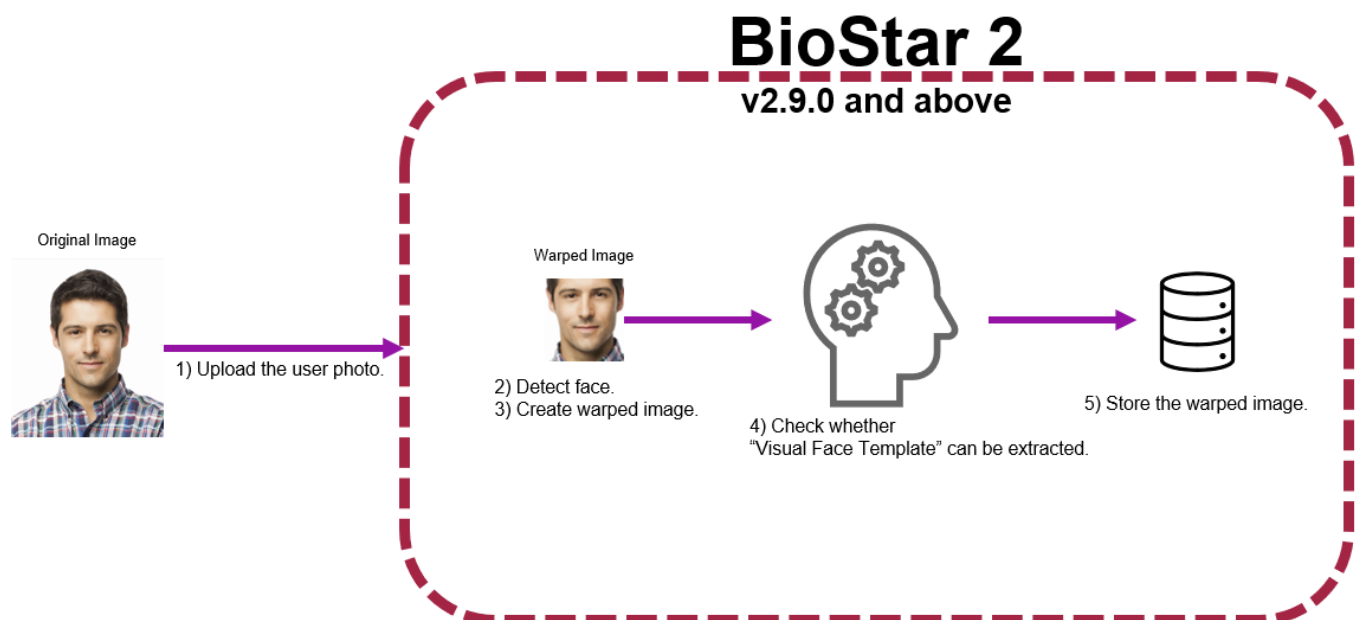
This article guides you about improved image extraction for Visual Face Credentials in BioStar 2 and algorithm comparison.

Suprema has applied improved algorithms to FaceStation F2 v2.x.x and BioStation 3 so that customers can experience improved Visual Face performance. At the same time, in the BioStar 2 server, the method of extracting images for Visual Face credentials in v2.9.0 has been improved to increase the convenience of customers.

1. Improved Image Extraction for Visual Face Credentials on BioStar 2

BioStar 2 v2.9.0 or above: NEW

- 1) The user photo for the Visual Face credential is uploaded to BioStar 2.
- 2) According to the algorithm in BioStar 2, the face part to be used as the Visual Face credential is extracted, and the original photo is cropped with the Warped Image.
- 3) Check if devices can extract the Visual Face Template from the cropped Warped Image on BioStar 2.

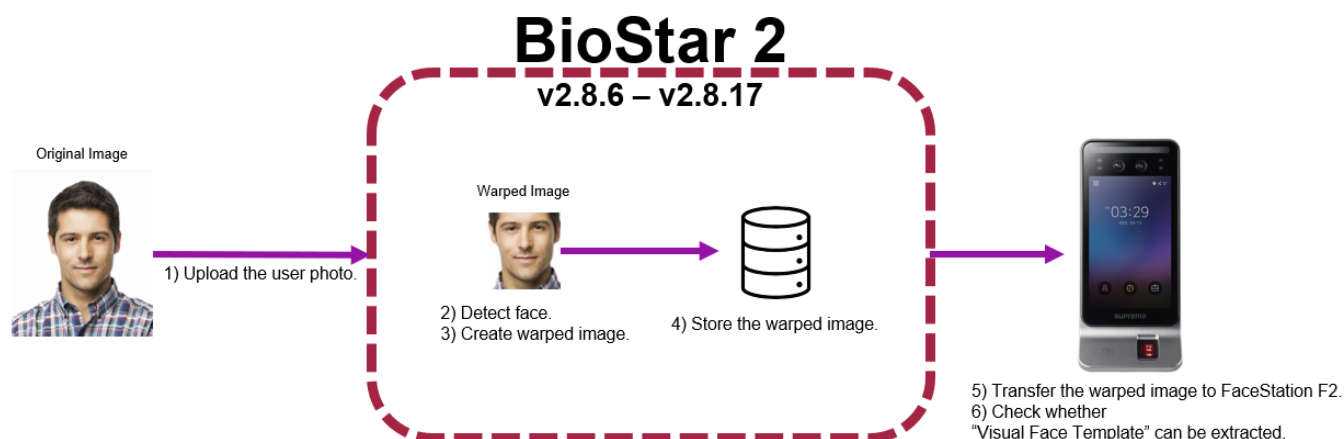


BioStar 2 v2.8.6 - v2.8.17: Previous

- 1) The user photo for the Visual Face credential is uploaded to BioStar 2.
- 2) According to the algorithm in BioStar 2, the face part to be used as the Visual Face credential is extracted, and the original photo is cropped with the Warped Image.
- 3) Transfer the Warped Image to the FaceStation F2 device.

4) Check if the Visual Face Template can be extracted from the Warped Image received by the FaceStation F2 device.

- For this reason, in the past, original photos for Visual Face could be registered in BioStar 2 but could not be transferred to the device.



2. Visual Face Algorithm Comparison Table

- “TEMPLATES” of the old algorithm (FaceStation F2 v1.x.x) and the new algorithm (BioStar 2.9.0 and above, FaceStation F2 v2.x.x, BioStation 3) are NOT compatible with each other.
- “WARPED IMAGES” of BioStar 2.9.0 and above, FaceStation F2, and BioStation 3 are compatible.

Algorithm	Equipped On	Detect Face	Generate Warped Image	Extract Template
BioStar 2 Face Detect Algorithm	BioStar 2 v2.8.6 - v2.8.17	Y	N <i>* Just cut the image around the face.</i>	N
Old Algorithm	FaceStation F2 v1.x.x	Y	Y (250 x 250 px)	Y
New Algorithm (for GPU)	BioStar 2 v2.9.0 and above	Y <i>* Same way</i>	Y (112 x 112 px)	Y
	FaceStation F2 v2.x.x			Y
New Algorithm (for NPU)	BioStation 3			Y

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