

Blockchain Proof of Authenticity for Kofax Capture™

Installation Guide



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INTRODUCTION	3
OVERVIEW	4
1. PRE-INSTALL CHECKLIST:	5
2. DOWNLOAD THE INSTALLATION PACKAGE	5
3. INSTALLATION	5
4. CONFIGURATION PANEL	6
5. CREATE A SPHEREON ACCOUNT	7
6. SUBSCRIPTIONS OVERVIEW PANEL	8
7. CONFIGURE YOUR SUBSCRIPTION KEYS	9
8. INSTALL THE KOFAX CUSTOM MODULE	10
9. ADD THE BLOCKCHAIN PROOF QUEUE	11
10. PUBLISH YOUR BATCH	11
APPENDIX 2: TECHNICAL SUPPORT	12
CONTACT SPHEREON	12

Introduction

Blockchain, best known as the underlying technology for Bitcoin, provides a mechanism to lock in transactional information in such a way that it cannot be changed.

The information is shared in a distributed network, making it independently verifiable and audit-able.

Proof of Authenticity and Existence

With Blockchain there now is a technology that can add indisputable Proof of Authenticity and Existence to all the content you capture, create, store, share and publish.

And to all the transactions you process.

Why is this important?

You will be able to provide indisputable proof of authenticity required by regulators, in audits, discovery demands, and Freedom of Information Act (FOIA) inquiries.

There can, and will be, no doubt about when a document was captured or that it has been somehow tampered with.

This is an essential part of your information- and records management policies.

How does this work for Kofax Capture?

Our Custom Module for Kofax Capture™ installs like any other Kofax Custom Module. Just download, install and configure it in the Kofax Administration Module.

The Blockchain Registration Custom Module will run as the step before a Kofax Release Module.

The Custom Module will process each document in a batch and create a unique hash for each document, digitally sign and anchor this hash on a Factom™ Blockchain.

The document itself will not be stored on a blockchain! Just the hash.

Anyone that has the proper access rights to this document can now verify the authenticity and time-stamp by simply recreating the hash and verify it on the Blockchain.

This can be done using public tools and websites or from your ECM system, like Alfresco, SharePoint and others.

When the document is unchanged and still authentic, the hash will also still be the same and is found on the Factom Blockchain, including the time-stamp of the registration.

Overview



1. SCAN

Documents are scanned and processed with Kofax Capture as before. Scan, Quality Control, Recognition, OCR, Validation, Verification, PDF Conversion can all be scheduled and executed, just as before. The Sphereon Blockchain Proof queue is added just before the Export queue.

2. HASH

Any digital information (a file, transaction, dataset, video, etc.), can be 'hashed' to produce a short, unique identifier; an electronic fingerprint. The Blockchain Proof creates a hash for each document in a Kofax Batch.

3. SIGN

The hash is added to a Blockchain transaction and signed with a Digital Signature.

Note! It is important to know that the document itself will not be stored on a blockchain! Just the hash! The document will not be made public in any way.

4. ANCHOR

The transaction with the unique hash is written and anchored on a Factom™ Blockchain. The Factom protocol is specifically designed to ensure data integrity and secure digital identities using a public blockchain.

Once the transaction is committed to the Factom Blockchain, it cannot be changed or removed. It is immutable. And because the Factom data-layer is public, the transaction time and hash can be verified by the public.

(Again, the public cannot in any way access or read the scanned document itself)

About Factom

Factom is a blockchain publishing platform built specifically for data that enables proof of process and auditing. Every 10 minutes, Factom anchors a so-called merkle-proof into the Bitcoin blockchain.

Factom utilizes the Bitcoin blockchain to ensure that data is immutable; i.e. not reversible. By leveraging the world's most used blockchains to provide the security, Factom is able to maximize the reliability of the protocol. To use an analogy, Factom hires the best, most secure, most trustworthy auditing firm in the world to oversee its data so that everyone knows they can trust it.

<https://www.factom.com/about/faqs>

<https://factomize.com/why-factom-anchors-into-bitcoin/>

Chapter 1: Installation

1. Pre-install checklist:

Installation of the Custom Module requires the following:

- Internet: a connection to the Internet is required.
- Kofax Capture software needs to be installed.

2. Download the installation package

Go to our download using the following url:

<https://sphereon.com/downloads/Blockchain/Kofax%20Capture>

and download the latest installation package.

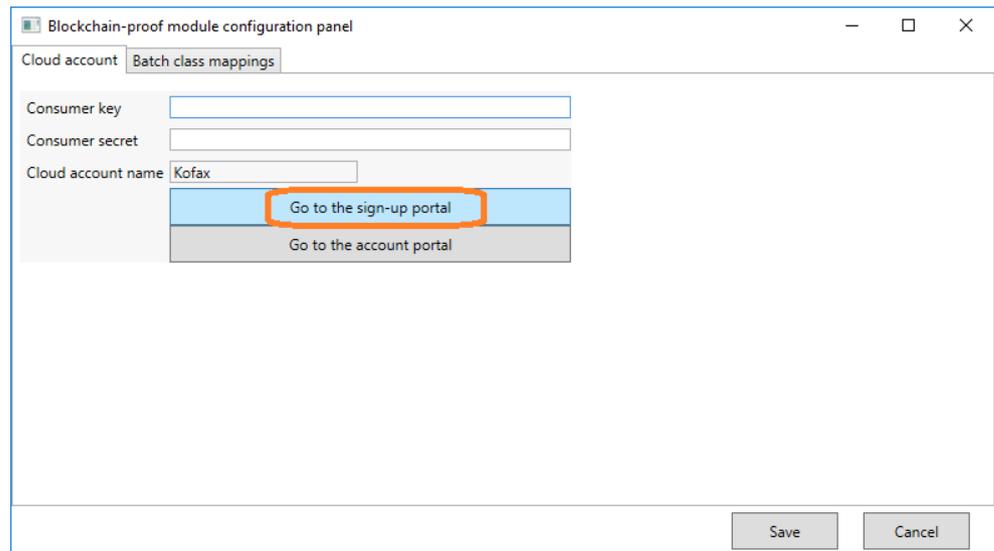
3. Installation

Extract the MSI package from the ZIP file. Execute and wait for it to complete.

4. Configuration panel

After installation the <Blockchain-proof module configuration panel> will open automatically.

If this is your first installation you will need to create an account using the [Go to the sign-up portal] button.



The screenshot shows a configuration window titled "Blockchain-proof module configuration panel". It features two tabs: "Cloud account" (active) and "Batch class mappings". Under the "Cloud account" tab, there are three input fields: "Consumer key", "Consumer secret", and "Cloud account name" (which contains the text "Kofax"). Below these fields are two buttons: "Go to the sign-up portal" (highlighted with an orange circle) and "Go to the account portal". At the bottom right of the window are "Save" and "Cancel" buttons.

If you already have an account, you can click the [Go to the account portal] button and go to **step 6**.

5. Create a Sphereon account

Complete the detail of the sign-up form and click **[REGISTER]** button.

Sphereon Blockchain signup page for Kofax Capture

Please enter your account details

User name	Organisation name
myusername	My organisation
First name	Address
My	Organisation address
Last name	Country
Name	Netherlands
Email address	Phone landline
my-email@mail.com	
Password	Phone mobile

Confirm password	Instant messenger account

REGISTER

Note!

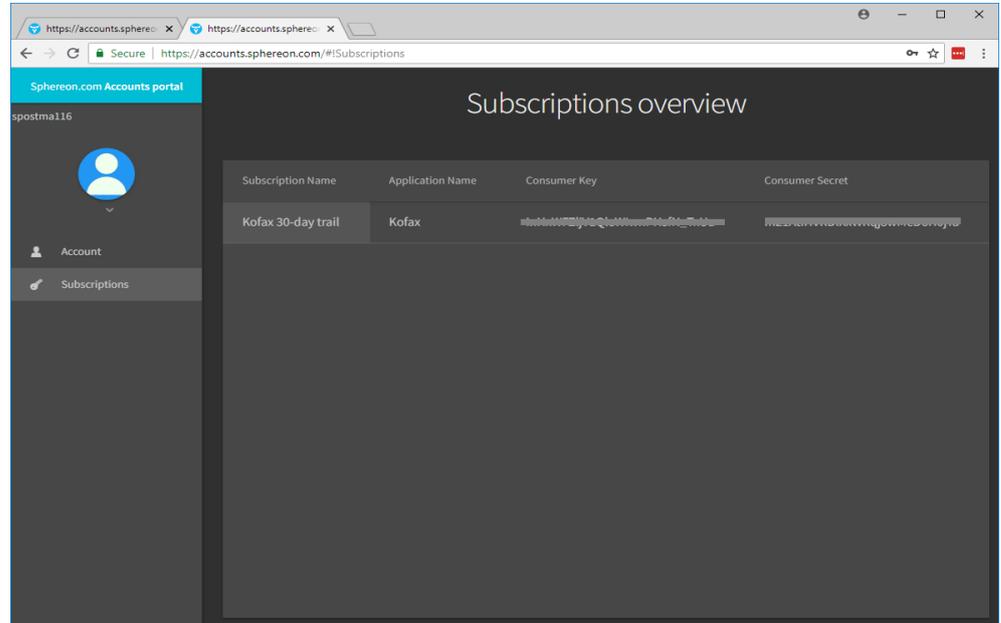
A limitation of the current version is that you can sign up only one user per organization.

For group accounts please contact support@sphereon.com

6. Subscriptions overview panel

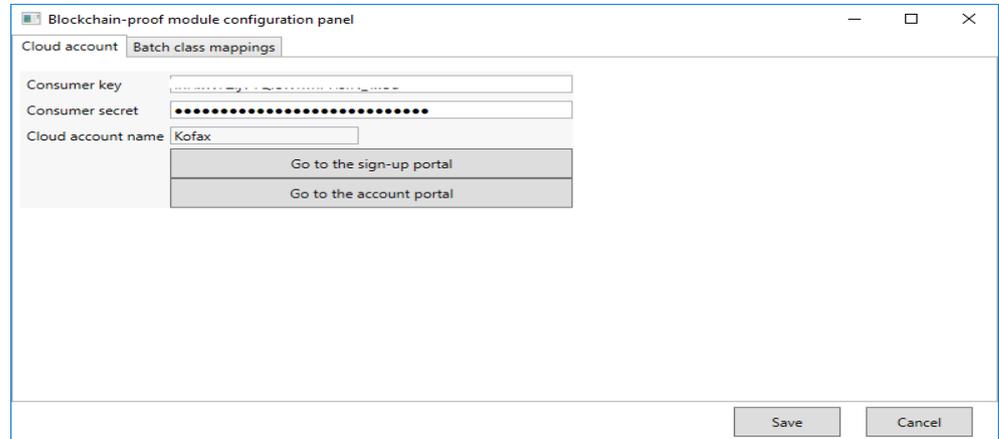
In the Subscriptions menu you will see your current subscription.

You will also see your current consumer key and secret.



7. Configure your subscription keys

Copy the consumer key and secret from the <Subscriptions Overview panel> to the <Blockchain-proof module configuration panel>. Click the **[Save]** button.



The screenshot shows a configuration window titled "Blockchain-proof module configuration panel". It has two tabs: "Cloud account" and "Batch class mappings". The "Cloud account" tab is selected. The form contains the following fields and buttons:

- Consumer key: [Text input field with a dotted mask]
- Consumer secret: [Text input field with a black dot mask]
- Cloud account name: [Text input field containing "Kofax"]
- Go to the sign-up portal: [Button]
- Go to the account portal: [Button]
- Save: [Button]
- Cancel: [Button]

Note!

Leave the batch class mappings tab alone for now. In the current version the default is pre-configured to use the Factom blockchain and our standard sign keys.

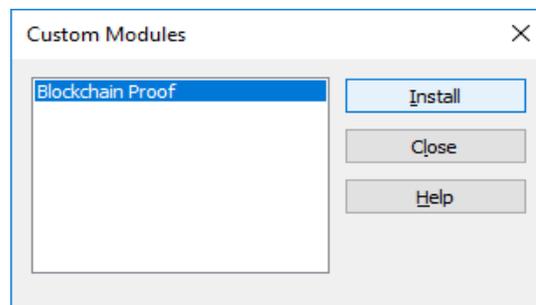
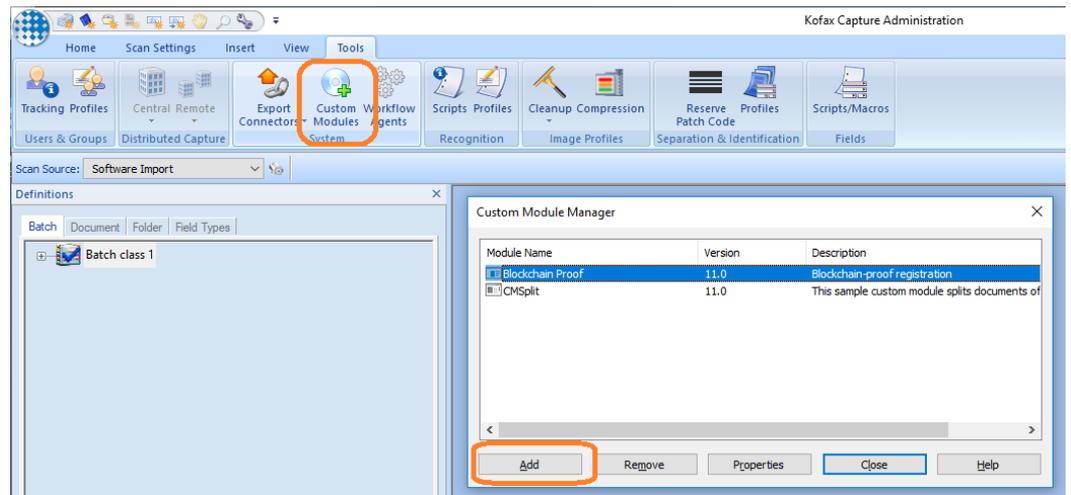
8. Install the Kofax Custom Module

Open the Kofax Capture Administration program.

Click the Custom Modules icon.

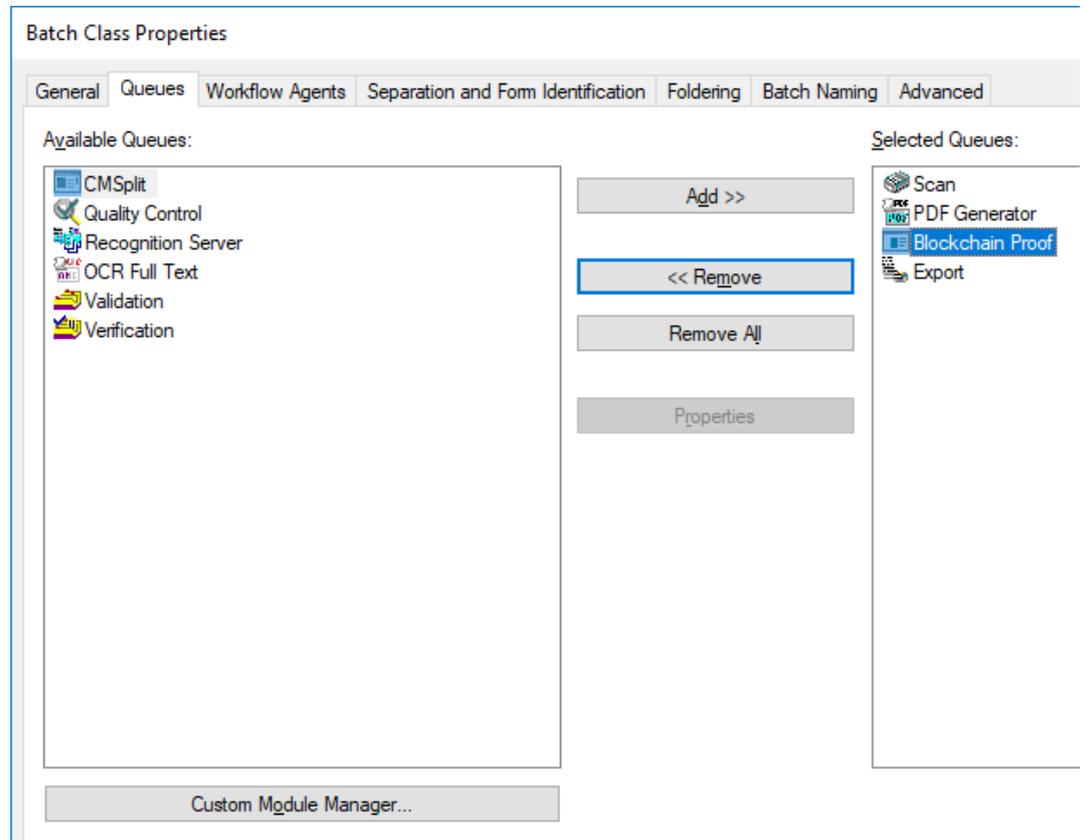
In the <Custom Module Manager panel> select the <Blockchain Proof> Custom Module by selecting:

"blockchain-proof.AEX" in "C:\Program Files (x86)\Kofax\Capture\Bin"



9. Add the Blockchain Proof queue

Go to the <Batch Class Properties panel> for the Batch Class you want to use with the blockchain-proof module and add the "Blockchain Proof" module in the queue *after* "PDF Generator" queue and *before* the "Export" queue.



10. Publish your batch

P

Publish your batch and you can start scanning batches.

APPENDIX 2: Technical Support

Please read and check your configuration by following the instructions in this manual before contacting us for technical support.

Details about the registration process can be found in the log files in C:\ProgramData\Kofax\Capture\Logs

Remote Assistance

You can request Sphereon for remote assistance.

Contact Sphereon for an appointment:

Contact Sphereon

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