



usBIM.blockchain - User Manual

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| Ed. | 1 |
| Rev. | 2 |
| Date | 07/10/2025 |

usBIM.blockchain

User Manual



INDEX

Summary

| | | |
|-------|--|---|
| 1 | usBIM.blockchain | 4 |
| 1.1 | REGISTERING A DOCUMENT | 4 |
| 1.2 | REPORT LOGGING AND CONSULTATION | 6 |
| 1.3 | USER GUIDE..... | 8 |
| 1.3.1 | <i>Document registered</i> | 8 |
| 1.3.2 | <i>Document not registered or awaiting certification</i> | 9 |



| | |
|------|------------|
| Ed. | 1 |
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| Date | 07/10/2025 |

TABLE OF FIGURES

| | |
|---|----|
| Figure 1. Start usBIM.blockchain | 4 |
| Figure 2. Registering a document..... | 5 |
| Figure 3. Download the (temporary) attestation | 6 |
| Figure 4. Verified registration and consultation of the certificate | 7 |
| Figure 5. Instructions for verifying registration with third-party tools opensource | 8 |
| Figure 6 Document not registered | 9 |
| Figure 7 Document awaiting certification..... | 10 |

| | | |
|---|---------------------------------------|---------------|
|  | usBIM.blockchain - User Manual | Ed. 1 |
| | | Rev. 2 |
| | Date 07/10/2025 | |

1 usBIM.blockchain

usBIM.blockchain is a service, integrated into the usBIM ecosystem of ACCA software, which uses blockchain technology to guarantee security, traceability and legal validity to documents and information managed in BIM (Building Information Modeling) processes such as files, 2D models, 3D models, etc.

This technology creates a distributed and immutable digital register, where each transaction or information is recorded in a secure and unchangeable way and therefore ensures transparency and security to the parties involved (clients, designers, companies, etc.).

1.1 Registering a document

To start **usBIM.blockchain** and register a file uploaded to usBIM, click on the contextual menu of the document (arrow 1 Figure 1) and select the "Blockchain" item (arrow 2 Figure 1).

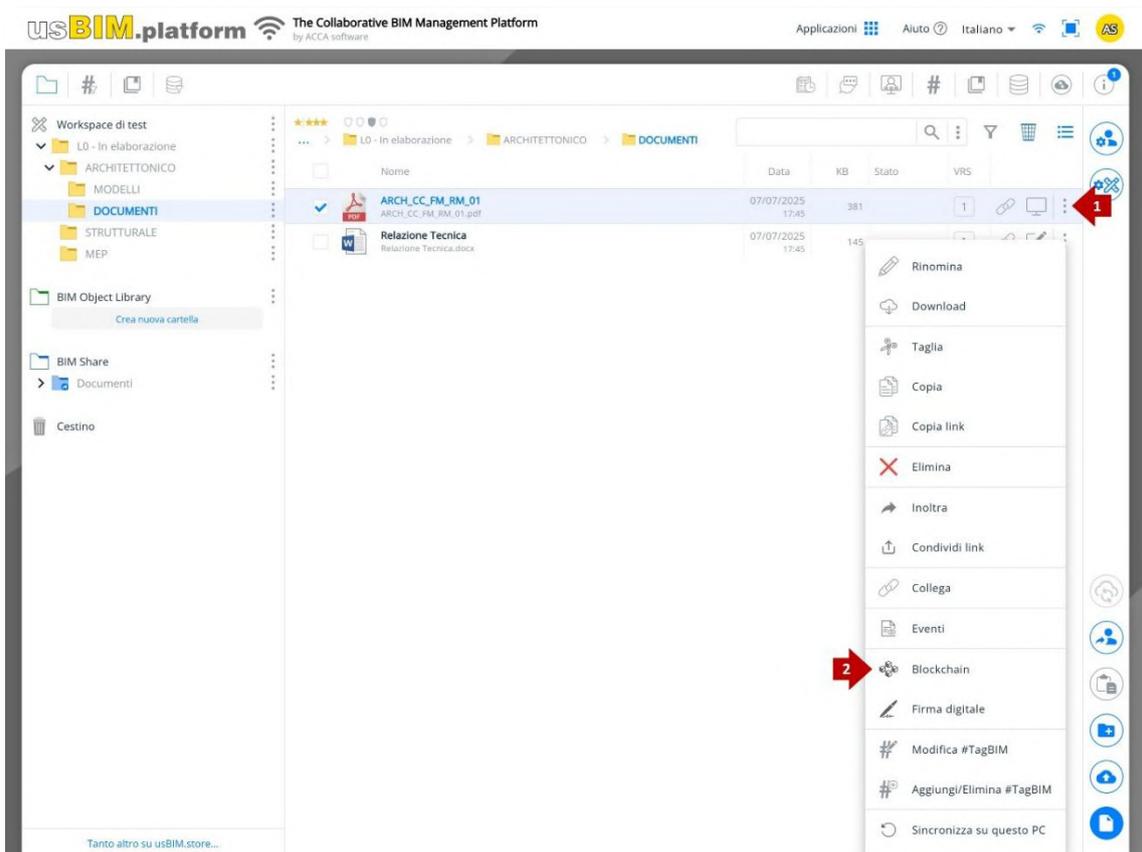


Figure 1. Start usBIM.blockchain

From the opened modal window, selecting the "Register File" button (arrow 1 Figure 2), the marking procedure starts.

Registration on the blockchain is not immediate, therefore the service issues a temporary certificate certifying that it has been sent.

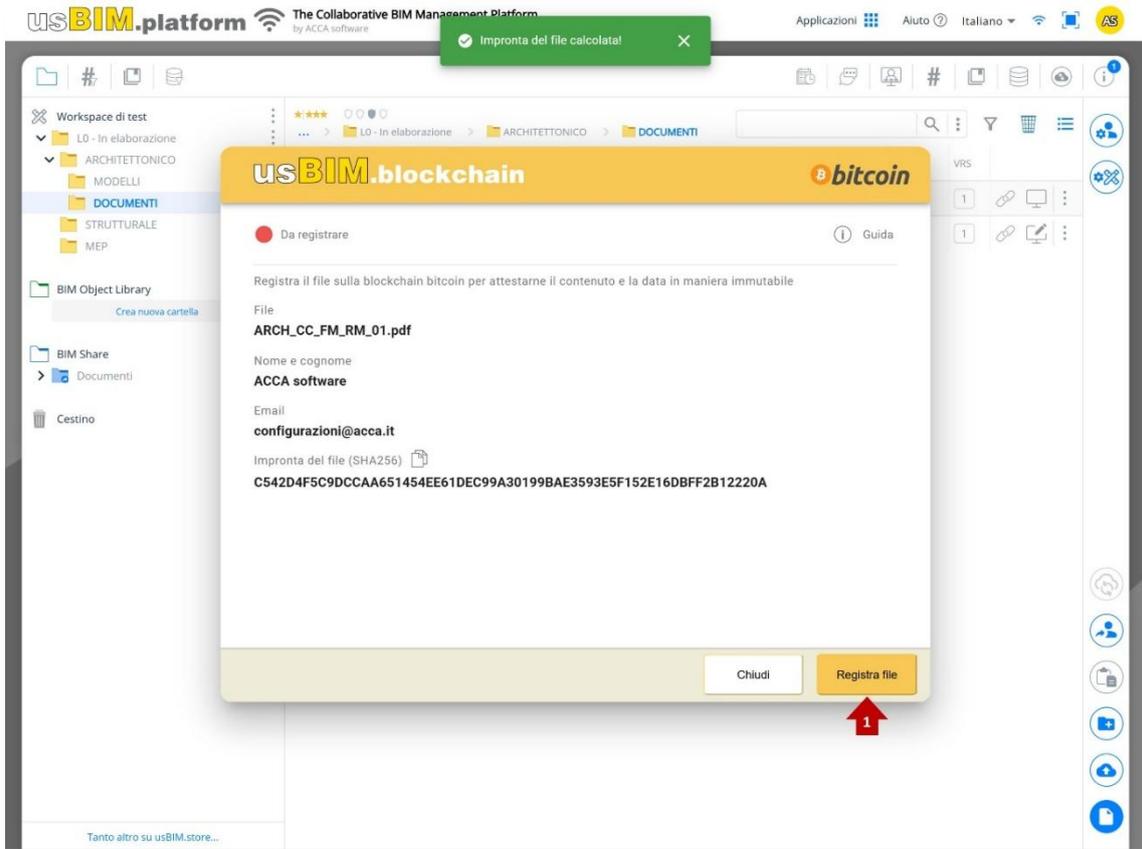


Figure 2. Registering a document

The temporary certificate can be downloaded by clicking on "Download Certificate" (arrow 1 Figure 3).

In addition, you can check the registered document (arrow 2 Figure 3) and download the final registration data at the end of the registration operations.

| | | |
|---|---------------------------------------|---------------|
|  | usBIM.blockchain - User Manual | Ed. 1 |
| | | Rev. 2 |
| | Date 07/10/2025 | |

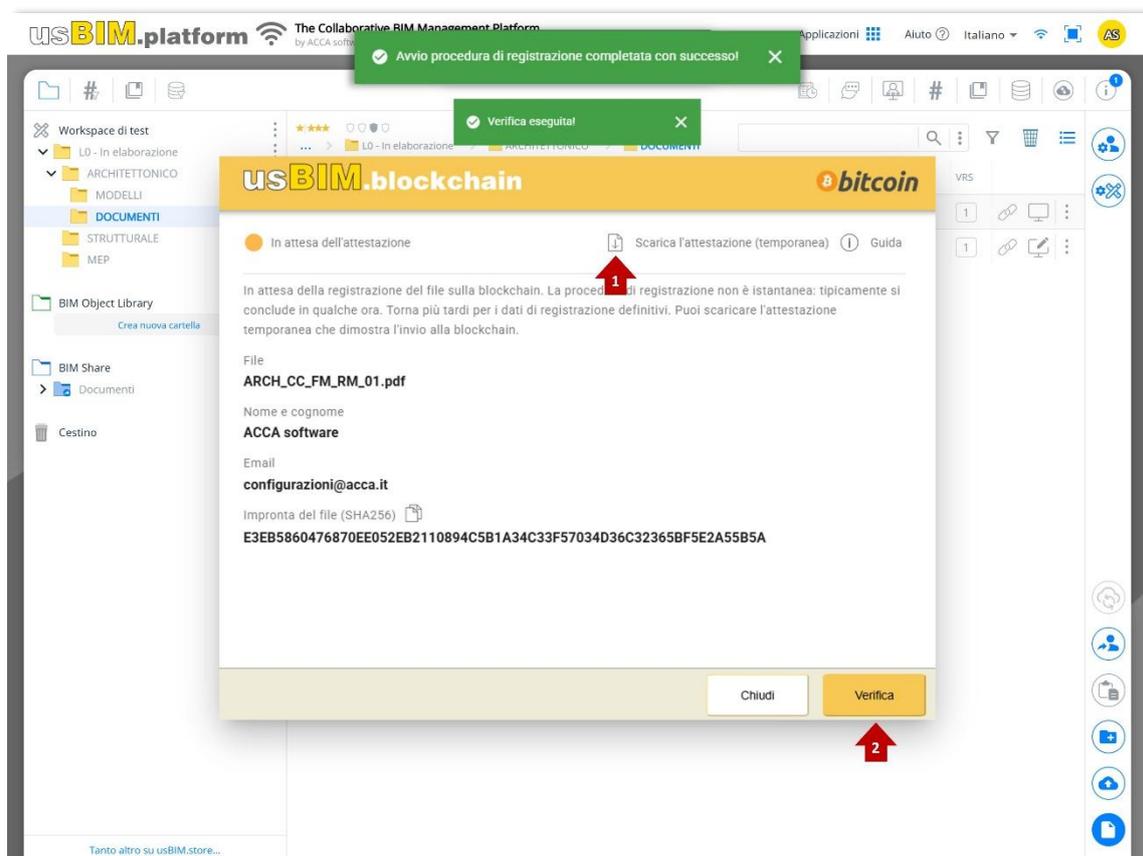


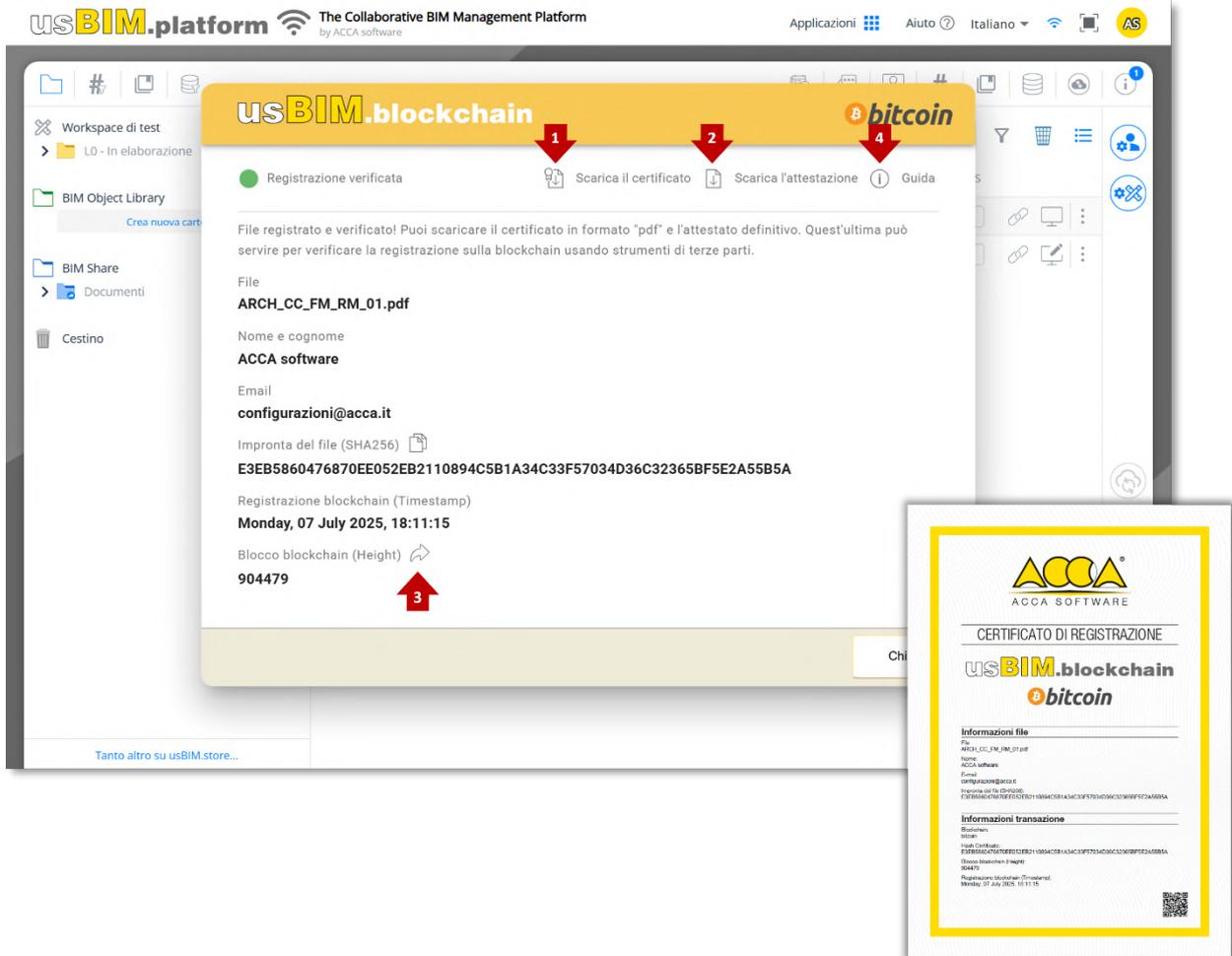
Figure 3. Download the (temporary) attestation

1.2 Report logging and consultation

At the end of the registration, the following data are visible in the modal window:

- Name of the registered file;
- Name, surname and email of the user who registered;
- Imprint of the registered file (SHA256);
- Registration timestamp on the blockchain;
- Reference block on the blockchain (height);

Once the registration has been completed, from this window you can download the certificate (arrow 1 Figure 4) and the final certificate (arrow 2 Figure 4) in PDF format. By clicking on the dedicated icon (arrow 3 Figure 4), the service automatically opens the link to the Bitcoin network explorer, where you can consult all the details of the registration.



The screenshot displays the usBIM.blockchain interface. At the top, the header includes the usBIM.platform logo and the text 'The Collaborative BIM Management Platform by ACCA software'. The main content area shows a 'Registrazione verificata' status with a green checkmark. Below this, there are buttons for 'Scarica il certificato' (1), 'Scarica l'attestazione' (2), and 'Guida' (4). The file details listed are: File: ARCH_CC_FM_RM_01.pdf; Nome e cognome: ACCA software; Email: configurazioni@acca.it; Impronta del file (SHA256): E3EB5860476870EE052EB2110894C5B1A34C33F57034D36C32365BF5E2A55B5A; Registrazione blockchain (Timestamp): Monday, 07 July 2025, 18:11:15; Blocco blockchain (Height): 904479 (3). An inset window shows the certificate details, including the ACCA SOFTWARE logo, the title 'CERTIFICATO DI REGISTRAZIONE', and the usBIM.blockchain and bitcoin logos. The certificate contains two sections: 'Informazioni file' and 'Informazioni transazione', both listing the file name, user name, email, and SHA256 hash.

Figure 4. Verified registration and consultation of the certificate

| | | |
|---|---------------------------------------|---------------|
|  | usBIM.blockchain - User Manual | Ed. 1 |
| | | Rev. 2 |
| | Date 07/10/2025 | |

1.3 User Guide

1.3.1 Document registered

The **usBIM.blockchain** service provides instructions for timestamp verification through open source third-party tools, as well as for displaying the Bitcoin timestamp block. In the modal window displayed, select the "i" Help icon (arrow 4 Figure 4).

In the central box it is possible to verify the marking of the registered document using the STAMP & VERIFY services available at the following addresses

- <https://opentimestamps.org>
- <https://dgi.io>

To view the block of the Bitcoin blockchain that contains the hash associated with the time stamp, enter the value reported as "Blockchain Block" in the following blockchain explorers:

- <https://blockstream.info>
- <https://www.blockchain.com>
- <https://btc.com>
- <https://www.blockcypher.com>

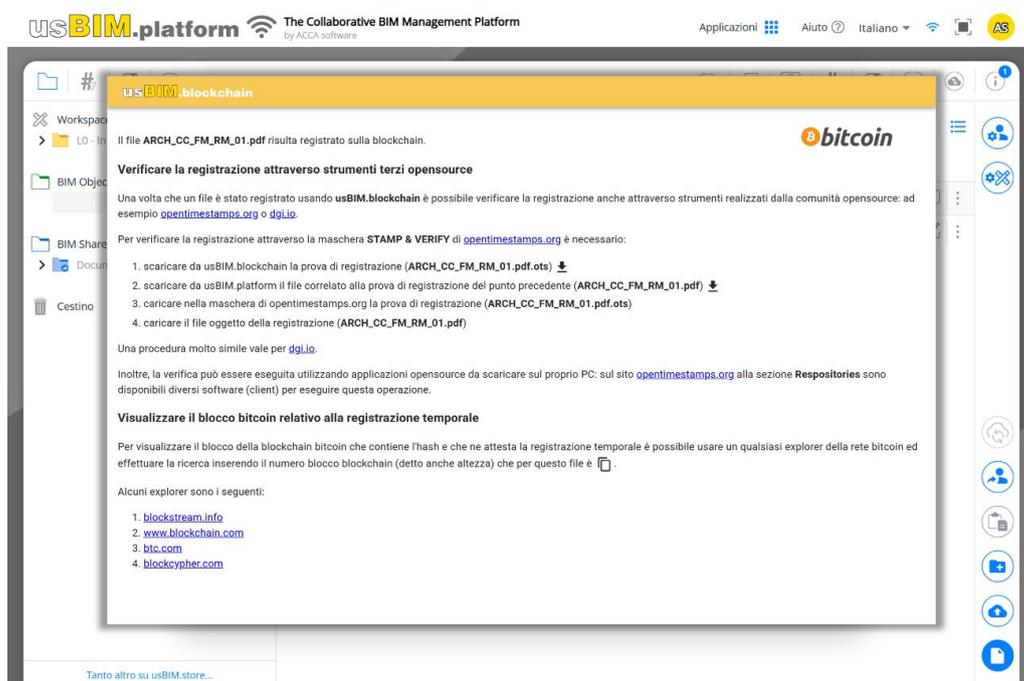


Figure 5. Instructions for verifying registration with third-party tools opensource

| | | |
|---|--------------------------------|-----------------|
|  | usBIM.blockchain - User Manual | Ed. 1 |
| | | Rev. 2 |
| | | Date 07/10/2025 |

1.3.2 Document not registered or awaiting certification

In case of document not registered or waiting for attestation, the help provides some information on the operation of the blockchain.

The registration on the blockchain certifies the precise moment in which the file was "stored" without any subsequent modification.

The registration procedure is not instantaneous: it typically ends in a few hours. In this time interval, prior to the conclusion (waiting for the attestation), it is possible to download the temporary registration attestation: a file with the extension "ots" that certifies the beginning of the file registration procedure and the sending to the blockchain.

Returning to the form after a few hours, if the registration procedure is completed, you can download the certificate in "pdf" format and the final registration certificate (the updated "ots" file). The latter can be used to verify registration through third-party tools opensource.

usBIM.blockchain

The file has not yet been registered on the blockchain
File not found

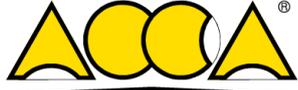


Blockchain registration of a file
Registration on the blockchain certifies the exact moment when the file was "stored" without any subsequent modification.

The registration procedure is not instantaneous: it typically completes within a few hours. During this time, before the attestation is finalized, it is possible to download a temporary registration certificate: a file with the extension ".ots" that certifies the start of the registration procedure and the submission to the blockchain.

By returning to this page after a few hours, once the procedure is completed, it will be possible to download the certificate in ".pdf" format - the final registration attestation (the updated ".ots" file). The latter can be used to verify the registration using

Figure 6 Document not registered

| | | |
|--|--------------------------------|--------|
|  ACCA SOFTWARE | usBIM.blockchain - User Manual | Ed. 1 |
| | | Rev. 2 |
| | Date 07/10/2025 | |

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Blockchain Registration of a File: Timing

The registration procedure is not instantaneous: it typically completes within a few hours. During this time, before the attestation is finalized, it is possible to download a temporary registration certificate: a file with the extension ".ots" that certifies the start of the registration procedure and the submission to the blockchain.

By returning to this page after a few hours, once the procedure is completed, it will be possible to download the certificate in ".pdf" format — the final registration attestation (the updated ".ots" file). The latter can be used to verify the registration using third-party open-source tools.

Figure 7 Document awaiting certification