



MAINTENANCE & INSPECTION

TRACE AND CERTIFY INSTRUMENTS, MACHINERY AND COMPONENTS
OPERATIONS

IMPROVE REPORTS AND ENSURE PROPER EXECUTION

PROBLEM

- Reports are still paper-based and hand-written making them difficult to read and clumsy to store and recover.
- There's still a lack of media records (such pictures, audio or video files) uniquely linked to the data reported.

A lot of time is wasted.

ARMILIS AUTHENTICATOR

ENHANCING MAINTENANCE & INSPECTION REPORTS

To each asset, a unique QR-code is created that will store the signatures of all maintenance records.

EXECUTION

Scan QR-code identifier and choose the data (sensor data, text record and/or media files). Hit sign. Record is now certified through blockchain. All data is then transmitted to the company's DB or Cloud service along with the unique signatures.

VERIFICATION

Scanning the QR-code with any smartphone shows the complete, blockchain-certified list of unique record signatures. A search into the company's DB or Cloud will return all data related to them.

From totally public to completely private our **privacy configuration feature** covers a full range of options to protect your data. For example, you can choose to make public an inspection record or just the signature, or the signature and the encrypted data,

HOW IT WORKS

EXECUTION

The Authenticator app generates a unique pair of Secret and Public keys. The Secret key never leaves your device and the Public key allows others to verify your signature (but not to forge it). Public key can be shared to a specific group of entities or people directly, or uploaded in the company's server to make it available to anyone who has the link to it.

The QR-code created by our system is combined with the Secret key and the asset reported information (sensor data, media file, text record ...) to generate a unique attributable signature proving its authenticity.

BLOCKCHAIN SIDE

When the reported data is signed, a timestamp record is inserted into blockchain. Depending on the privacy level chosen, also the data or the encrypted version and the url of the Public key can be added to this record.

VERIFICATION PROCESS

Scanning the asset QR-code with any smartphone will re-direct to Armilis' online Verificator which:

- Pulls all the blockchain records associated to the QR-code
- To verify their authenticity, the Public key is needed. Depending on the privacy level this operation will be done automatically or manually.
- For a better user experience and marketing purposes this process can be incorporated in your company's app.

This passage can also be custom-implemented by your company since both the blockchain and the signature scheme are public.
