



# NFQES

## NFQES Web Signer

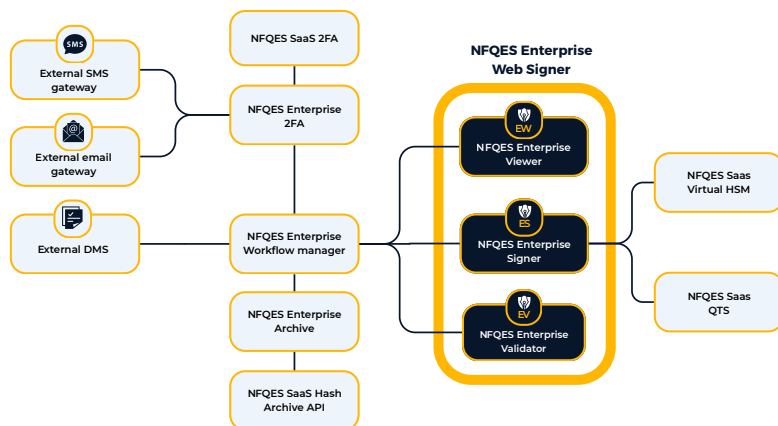
An enterprise e-signature solution designed for deployment directly within the customer's infrastructure

It enables full integration of electronic signatures into existing business processes, internal systems, and workflows

### Benefits

- Full control over data and security (On-Premise solution)
- Flexibility and scalability of the solution
- Fast integration into existing systems (IS, ERP, DMS)
- Reduced operating and maintenance costs through automation

### Scheme visualization





## Use cases

The NFQES solution can be implemented and customized for a wide range of processes for businesses in various fields.

### Finance sector



High legal certainty without the need for a personal meeting.

### Human resources



Streamlining the onboarding process through digitalization.

### Real estate



Acceleration of processes and when working with documents.

### Utility



Paperless contracts and faster processes in energy, water, and telecom.

### Law



Efficiently shifting legal actions to the digital world with 100% legal certainty

### Communication services



Legal certainty in the client zone for changes with the possibility of easier signing.

## Modular architecture

### Signer



A backend component **designed for the actual signing** of documents, supporting all levels of electronic signatures.

### Validator



A backend validation module that **verifies the status and integrity of documents.**

### Viewer



A frontend module used to **operate the Signer and Validator.**

#### It enables signing using:

- digital signatures,
- certificates stored on QSCD devices / ID cards,
- remote certificates via the NFQES Virtual HSM API,
- the customer's own HSM (on-premise).

#### It verifies:

- whether the document is signed,
- the level of the signature,
- the validity of the signature,
- the integrity of the document (whether it has been altered).

- User interface for signing and validating documents
- Ability to create a graphical signature that is visually embedded into the document.
- Intuitive operation for end users
- Customizable design aligned with the customer's visual identity.

*The solution can be extended with signature tablets for use in customer service centers.*



## Signature tablets

Signature tablets provide a fast and easy way to sign applications, forms, and contracts without the need for paper and printing at branches.

- Suitable for tablets
- Android, iOS, and dedicated devices (e.g. Wacom).
- **Legal certainty** of electronic signatures with easy deployment across branches.
- Elimination of costs related to printing, paper, and archiving.



### Improved UX



Improved user experience for signers.

### Optimization of processes



Optimization of processes related to contracts, forms, etc..

### Easy integration



Easy integration into the customer's infrastructure and via APIs (contracts, web forms, etc.).

### 2FA option



FA option via SMS or email.



## Selected references



### Bratislavská vodárenská spoločnosť - comprehensive signature solution



- Digitalization of customer communication
- Online access to forms, applications and contracts.
- Electronic signing deployed in customer infrastructure and API.

Signature tablets and a web application provide a quick and easy way to sign applications, forms, and contracts without the need for paper and printing at branches or from the comfort of home.



### Okte - company that operates in Slovakia as a regulated entity responsible for the operation of the energy market.



- A system covering the complete management of signature processes
- Qualified electronic signature
- Long-term storage of documents in a qualified archive

The delivered solution also included integration with the customer's external DMS and virtual HSM hardware security model.



# Characteristics

**Support for Qualified Electronic Signatures (QES)**

**Access to functionalities via standardized APIs (REST/SOAP)**

**Compatibility with QSCD and certified HSM devices**

**Wide support for document formats** – signing and verification of PDF, DOCX, ODT, XML, and others

**Security in compliance with eIDAS and Slovak legislation** – the application meets the requirements of Regulation (EU) No. 910/2014 (eIDAS)

**OCSF protocol support** – real-time certificate validation according to RFC 6960

**Robust integration** – the solution can operate with any certification authority

**Multi-instance support** – high availability and reliability through a scalable architecture.

Supported Qualified Electronic Signature Formats	Supported Cryptographic Standards	Supported Cryptographic Algorithms
CAeS: CAeS-B, CAeS-T, CAeS-LT, CAeS-LTA	CMS Advanced Electronic Signatures	RSA, DSA, EC, ECDSA MD2, MD4, MD5, SHA-1, SHA-224, SHA-256, SHA-384, SHA-512
	XML Advanced Electronic Signatures	
XAdES: XAdES-B, XAdES-T, XAdES-LT, XAdES-LTA	PDF Advanced Electronic Signatures	MD2, MD4, MD5, SHA-1, SHA-224, SHA-256, SHA-384, SHA-512
	JSON Advanced Electronic Signatures	
PAeS: PAeS-B, PAeS-T, PAeS-LT, PAeS-LTA	Support for time stamps and Trusted Lists (EUTL)	RIPEMD128, RIPEMD (128, 160, 256, 320)
	RFC 5280 – X.509 Public Key Infrastructure	
JAeS: JAeS-B, JAeS-T, JAeS-LT, JAeS-LTA	Support for time stamps and Trusted Lists (EUTL)	

## Supported documents and formats

- .PDF
- .DOC
- .DOCX
- .XLSX
- .XLSM
- .JPEG
- .PNG

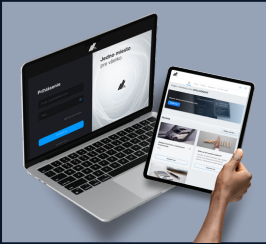
Other formats can be supported based on customer requirements.



# NFQES

## Case studies

### Tatral leasing



**Reduced workload**, lower hardware requirements, time and cost savings, and **high legal certainty**.

### BVS



**Digitalized communication**, online forms and contracts, electronic signing via infrastructure or API.

### Medante



**Digital signatures** for medical documentation and contracts, implemented in the existing MEDANTE system.

The NFQES solution can be implemented and customized for a wide range of processes for businesses in various fields.

## Contact:

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