

# digitalmind SigningServices



**SigningServices is a software solution that provides convenient and accessible tools to integrate digital signing in daily operations of any organisation.**



**Cost-efficient and fast processes**



**Differentiation from competition**



**'Fully Digital' customer journey**



**Secure and works within your firewall**

## Multi-sided software solution to integrate digital signing:



### Easy

Connect your systems and channels to one solution that serves as signing processes broker.



### Flexible

Don't worry about end-user preferences. Instead, be agile in your systems, channels & processes.



### Efficient

Focus on core functions and leave the signing complexity to us.



### Fast ROI

At ~5000 hand-signed standard contracts



### Micro-services

(APIs and embeddable component)

Allows flexible deployment of required components and integrations in various use-cases with multiple leading applications.



### Support

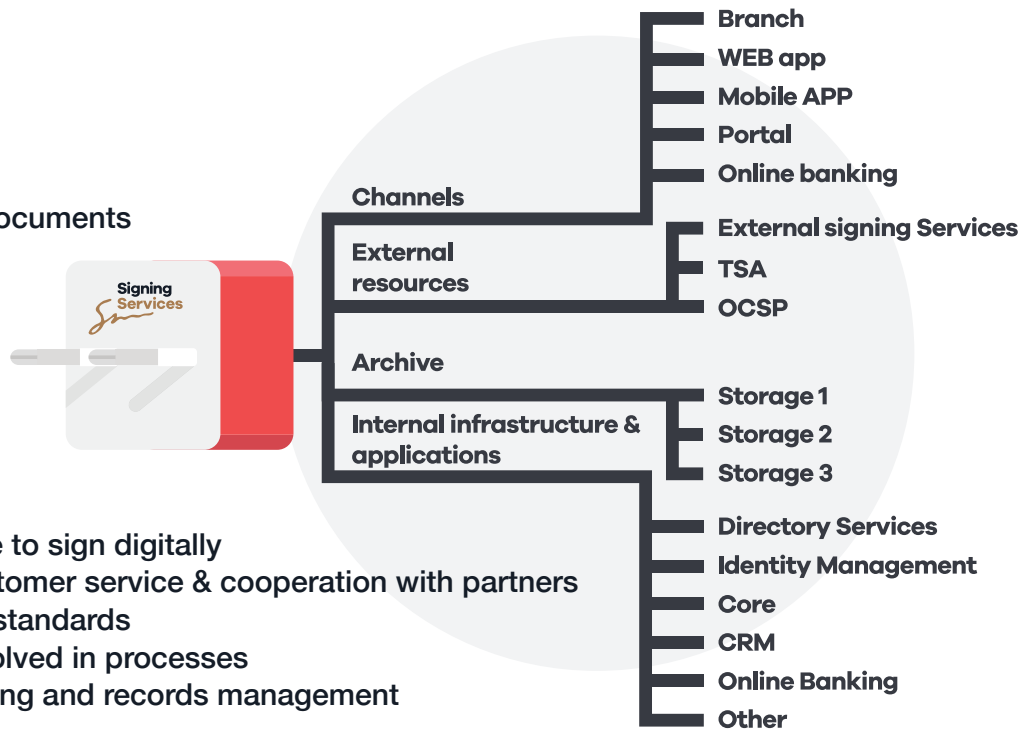
Supports EU signing standards and widely used signing means - ID cards, Mobile IDs', 3rd party solutions.

**Find out more: [tiny.cc/signingservices](https://tiny.cc/signingservices)**

## Implementation of digital signing

**Records** that **require** physical or advanced digital **signature**:

- Industry specific regulatory documents
- Governance documents
- Applications
- HR records
- Contracts
- ...



Typical **aspects** to consider:

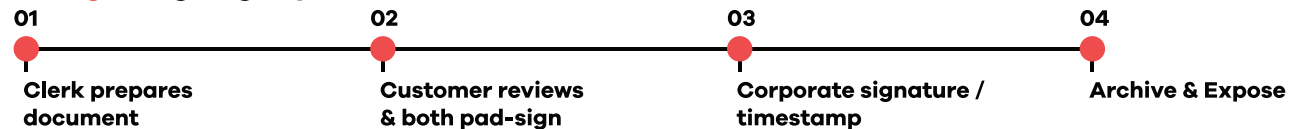
- User willingness & experience to sign digitally
- Various **channels** used in customer service & cooperation with partners
- Different **signing means** and standards
- **Internal systems** that are involved in processes
- **Compliance** regarding archiving and records management

## Use case samples

### Remote Signing



### 'Light' signing in person



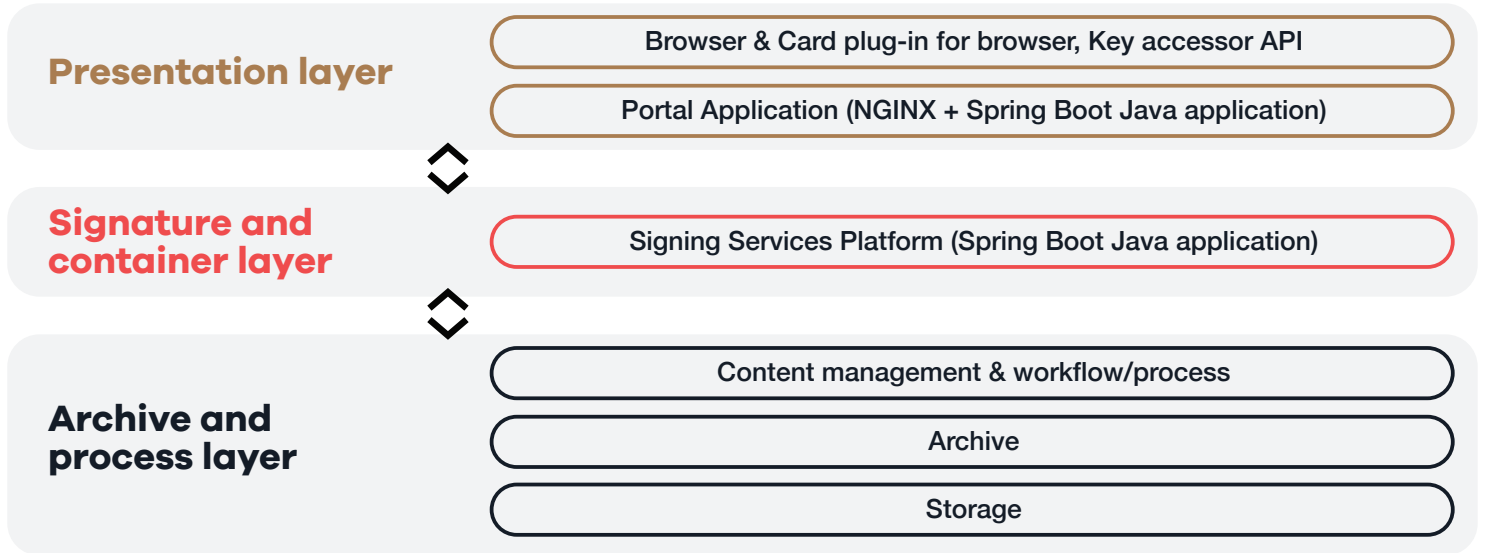
### Qualified signing in person



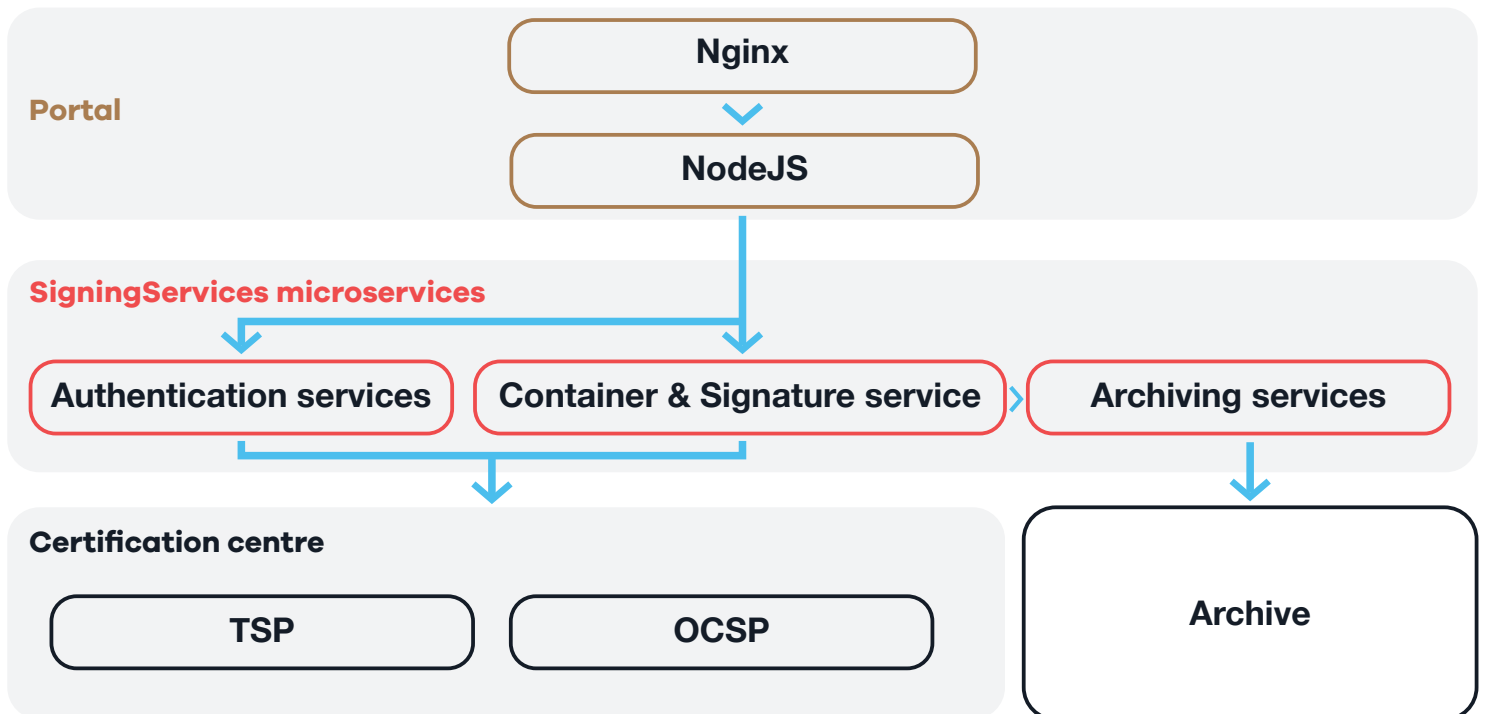
### Online signing



## SigningServices architecture



## Digital Mind SigningServices (DMSS)



Blue arrows on schema represents HTTPS(s) connection between services (separate ports, if hosted on same machine)

## Digital Mind Signing Services (DMSS)

### Portal

Web-application for user interaction. Portal served by Nginx web-server ([https://nginx.org/en/download.html?\\_ga=2.180172390.351252917.1537503943-1267336693.1537503943](https://nginx.org/en/download.html?_ga=2.180172390.351252917.1537503943-1267336693.1537503943)) and NodeJS Javascript runtime (<https://nodejs.org/en/>). Solution tested with Nginx 1.15.0. and NodeJS version 8.12.

### DM Signing Services Microservices

Three java webapplications:

1. **DMSS Archive Service** – Microservice for interaction to Content Server (archiving and retrieving documents)
2. **DMSS Container and Signing Services** – Microservice for signing containers and a Proxy service between Portal application and archive services
3. **DMSS Authentication Services** – Microservice for authentication (OCPS request for authentication certificate), supported eIDs, MobileIDs; 3rd party services.

DMSS Microservices are spring boot applications. Services require Java 1.8. Can be executed on any java execution environments. Tested on two environments:

1. **Execute jar as services (Windows service, Linux command at startup using systemd) on server like:**
  - a. „java -jar dmss-archive-services.jar --spring.config.location=application.yml“
  - b. „java -jar dmss-archive-services.jar --spring.config.location= application.yml“
  - c. „java -jar dmss-authentication-service.jar --spring.config.location=application.yml“
2. **Run spring boot application on container orchestration environment. Solution tested on Kubernetes. Can be provided Kubernetes sample configurations.**

## Sample architecture on Kubernetes environment

