

Cloud Services for Document Processing & Blockchain

Sphereon

An innovative platform that enables organizations to use APIs for Document Processing and Blockchain to quickly build powerful solutions.



Digital Disruption

Cloud Services for
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The application of new digital technologies causes seismic upheavals in all markets: retail, services, healthcare, manufacturing and even public and non-profit organizations.

The exponential growth of technology in mobility, wearables, video, cloud, analytics, and other technologies radically transforms the ways we live, work and play.

Agile IT

IT companies and departments have adapted by embracing Agile/Scrum as the preferred method for development and implementation of projects.

It allows them adaptive planning, evolutionary development, early delivery, and continuous improvement. And it encourages rapid and flexible response to change.

The New API-driven Economy

Organizations are increasingly turning to the API economy to invent new existing business models and channels. Co-creation is the name of the game.

APIs are the tools for agile innovation. They provide organizations the ability to adapt quickly to market changes and new competitors.

APIs make it easier to integrate and connect people, places, systems, data, things and algorithms.

You can use APIS to capture and share data and information and to enable transactions.

Agility – the ability to adjust and adapt quickly to changes – is key to survival in this new, brave business world.

APIs enable you to leverage your internal data, or third-party data and algorithms to create new products, services and business models.

Sphereon, an API-driven cloud platform

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Sphereon offers a innovative cloud platform that allows organizations to use APIs for Information Management and Document Processing.

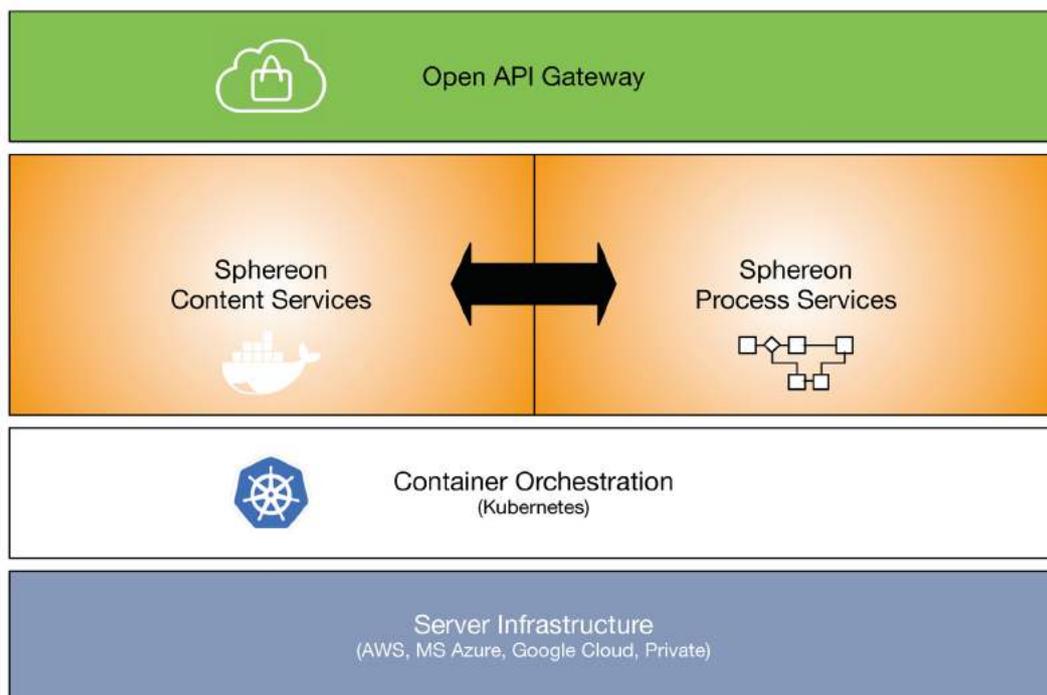
APIs to capture and extract data from digital objects, such as documents, emails, photos, files, images, and video. APIs to classify these objects, photos and documents. Or use our Blockchain APIs to digitally sign any document or set of documents.

These APIs are exposed through an OpenAPI gateway and can be consumed as a individual service or as a combination of services, a Process.

Sphereon is based on a modern micro-services architecture, using Docker containers and Kubernetes for orchestration.

This architecture offers a very high scalability and dynamic workload balancing.

Because of the inherent abstraction, the Sphereon platform is available for any server infrastructure, such as AWS, MS Azure, Google or a private cloud.



Sphereon APIs and Content Services

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Sphereon offers APIs via standard plug-ins (Alfresco, MS SharePoint, Xillio) as well as via SDKs for all modern development frameworks.

Some examples that Sphereon will provide are:

- **Capture** to capture emails with attachments, posts, images, multimedia and scans.
- **Automatic Classification** using AI/Deep Learning to assign the right content type
- **Data Extraction** using rules to extract data and tags from unstructured content
- **Barcode Detection and Recognition** to detect if a document has barcodes and extract their values
- **Multi-engine OCR** using multiple OCR engines to get the best OCR results
- **Handwriting Recognition** to recognize and extract handwritten data from documents
- **Vision Recognition** using AI to recognize and auto-tag images, photos and videos
- **Migration** of content from different types of legacy ECM or DMS systems and Enterprise Files Shares to other platforms, such as Alfresco, SharePoint and Office 365
- **Blockchain Authentication** to register and verify data, records and objects on a Blockchain
- **Blockchain Audit Trail** to create, browse and verify transaction audit trails using Blockchain
- **Cloud Storage** provides cloud storage on AWS, Azure, Google or private storage
- **Mail-merge** to create documents from a data source and a MS Word template
- **Template Processor** to create data files from a JSON data source and a FreeMarker template
- **PDF/A Conversion** to convert MS Office documents, images, AutoCAD to PDF/A
- **Digital Signature** to digitally sign a PDF with an EIDAS-compatible electronic signature

All Content Services are available through our API Gateway.

Sphereon

Use cases

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One of the main benefits of an API platform approach is that it enables you to choose, use and pay for only the specific APIs that you need.

Look at your specific situation and use your own creativity and available APIs to create an optimal solution.

And Agility. Content Services and APIs also give you the flexibility you need to quickly adjust to changes. Both in scalability as well as the functionality.

Some examples of use cases are:

- **Proof of Process**

Use Sphereon Content Services for Blockchain to create a complete audit-trail that is tamper-proof and independently verifiable by all stakeholders.

Use cases are Record Management, Compliance and providing Transparency for external stakeholders

- **Proof of Authenticity**

Our Blockchain Service allows you to register any object or process on a Blockchain for independent, tamper-proof, Proof of Authenticity.

Use cases are Certification for digital objects, such as statements, titles, claims, registrations, certificates, diplomas and file transfers.

- **Classification**

Automatically determine the correct Content Type by using our AI-driven, self-learning, automatic classification service.

Use cases are streamlining Human Resources, Student Administration, implementing a Digital Mailroom or Migrations

- **Data extraction**

Extract meta-data and tags from documents using our superior OCR, Barcode, QR-code, and handwritten data recognition services.

Use cases are on-boarding, create search-able archives, streamlining document processing and indexing content stores.

- **KYC - On boarding**

Combine capture, classification, data extraction of all kind of documents to quickly and efficiently bring new customers, suppliers, students or employees on board.

- **Digital Preservation**

Convert Microsoft Office documents, emails, Auto-CAD, pdfs, text files and images to the ISO-standard PDF/A archive format.

Use cases are Archives, Record Management and Compliance or Migration.

Sphereon sets a new standard

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API DRIVEN



The world's first API-driven Smart Data Capture and Document Processing cloud platform

Sphereon offers the world's first API-driven cloud platform that allows organizations to use APIs for Information Management, Document Processing and Blockchain.

Sphereon offers its APIs via standard plug-ins for Alfresco, MS SharePoint, Office 365 and Xillio.

We also provide SDKs for all modern development frameworks.

API STORE



All Sphereon APIs can be licensed individual and are fully documented, including sample code

Our APIs are public and published online in our API Store.

A pay-as-you-go API Store, fully documented, with SDKs, sample-code and free SharePoint Add-ins.

All APIs are documented extensively with up-to-date technical documentation, an API Console for live-try-outs and sample-code.

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MICROSERVICES



Highly scalable through microservices using Docker containers and Kubernetes

Microservices offer scalability and flexibility that is required for an API-platform. It allows developers the agility to quickly develop and adapt APIs.

A big benefit for the user is the scalability for a varying workload: as workload for a certain API increases, the system can automatically add processing resources.

MACHINE LEARNING



Document Classification and Data Capture APIs using advanced AI and Machine Learning

Sphereon offers functions that use or combine multiple technologies, such as Recognition, Classification, Categorization, Extraction, Text Analytics, Semantics, Document Analysis and Machine Learning.

All these terms describe the application of software algorithms to mimic the human abilities to read a document, understand its meaning and draw conclusions. We also call these abilities the human cognitive capabilities.

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BLOCKCHAIN



The world's first solution for Proof-of-Existence using Blockchain technology for Alfresco and SharePoint

Sphereon offers an easy to use Blockchain API leveraging the open source Blockchain APIs but hiding away the complexities of Factom and its protocol.

Using our Blockchain API it is possible to publish information on a shared ledger that is fully immutable, since it is backed by the Bitcoin network.

SHAREPOINT ADD-INS



SharePoint Add-ins and SDKs for most development languages and frameworks with free open source integration code

The Sphereon APIs can be implemented as a standard SharePoint Add-in.

The Sphereon Add-in fits into SharePoint and Office 365 as Workflow actions or commands that extend the standard SharePoint ribbons and menus for lists, documents, and more.

We also provide SDKs for easy integration with most modern programming languages like Java, C#, PHP and many more.

Sphereon Features

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SUPERIOR FUNCTIONS

Sphereon offers superior functions for processing information, documents and data:

- Multi-channel import of information
- Blockchain object and process registration and verification
- Best-in Class 3rd party engines
- Deep-learning for classification and extraction
- Combining results of multiple OCR engines for best results
- Proprietary barcode detection algorithm
- Proprietary blank-page detection algorithm
- Event-driven, dynamic exception handling
- Native SharePoint & Office 365 integration

ENTERPRISE-GRADE ARCHITECTURE

Based on a modern microservices architecture:

- Docker containers based Microservices
- Kubernetes Container Orchestration
- Dynamic workload balancing
- OpenAPI gateways
- Fail-safe: redundant services
- A solid BPMN-compliant workflow engine
- All data stored in a NoSQL Graph database

API-DRIVEN APPROACH

Sphereon offers a API Store:

- Pay-as-you-use, every API can be licensed individually
- Fully documented, including try-it and samples
- Free SDKs and plug-ins

PROCESS APPROACH

Besides API integration you can also use Sphereon by building processes:

- A open BPMN-compliant workflow engine
- Graphical workflow designer
- Tasks, Conditions, Rules and Human steps

SECURE

Sphereon is as secure as can be:

- Sphereon does not store data, it just processes data
- Any data temporary stored is encrypted
- Communication over secured, two-way verification, connections
- Azure, AWS or ISO 27001 certified data center
- Detailed on-line audit-trails

Co-creation in a Partner Ecosystem

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In today's hyper-connected world, no single organization will thrive just by itself.

Organizations will need to be part of an ecosystem of a network of vendors, partners, contract workers – and even customers – that will work together to create new products, services and business models faster and smarter.

The best partners have a deep, industry-specific expertise across technologies and markets, creating the crucial ability to provide not only IT solutions, but also business knowledge and consulting assistance.

Each partner will benefit from the “network effect” of the other organizations’ knowledge, experience and efforts.

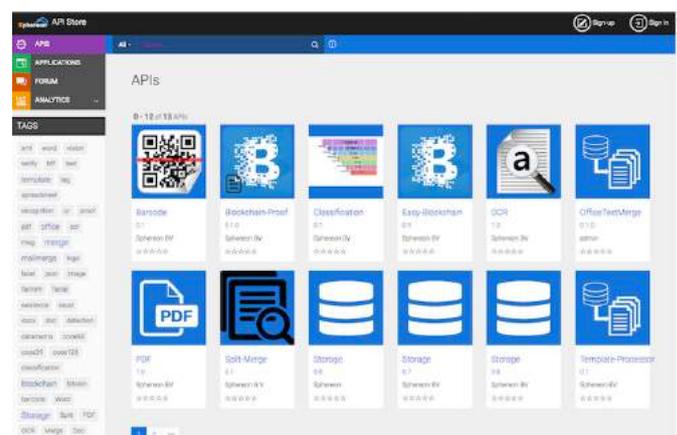
Sphereon is committed to always put our partner first. We will help you with the technical enablement and realization of the solutions that you build.

We will support you in the sales process by providing pre-sales support and offering special Proof-of-Concept licenses.

store.sphereon.com

Our APIs are public and published online in our API Store.

All APIs are accompanied by documentation, live-try-outs, sample-code and SDKs for all modern programming languages like Java, C#, PHP and many more.



About Sphereon

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Sphereon provides the smartest API-platform for Information, Document Processing and Blockchain.

APIs are a crucial building-block in today's API economy. Where it is all about agility and co-creation is the name of the game. Adapt or Die.

Based on our experience and the feedback from our partners and customers, we developed the Sphereon API-driven software platform.

This allows us to offer our customers a very tight integration with their applications and adapt quickly to their needs.

Our success is a result of the solutions we build together with you, our customers.

You have the knowledge and experience in your market domains. We provide the software platform and together we build the best possible solution.

*It is our mission to help you quickly build specific document-oriented solutions that are relevant to your needs.
Adopt, Adapt, Improve.*



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