siav connect

SOLUTION OVERVIEW

SIAV

SIAV Connect is an information management platform that enables users to access and use corporate information, automates tasks and activities, manages workflows to execute business processes, interacts with corporate IT ecosystem.

SIAV Connect is cloud-oriented, thanks to its microservices architecture deployed in containers, and it's compatible with both public and private clouds. The architecture of

SIAV Connect is multi-tenant, enabling the management of multiple organizations within a single application instance.

Siav Connect in a nutshell

SIAV Connect is the ideal ECM platform for **large organizations**, **partners** and **system integrators**, thanks to:

A.I. BASED

to enable advanced features such as automatic documents classification, intelligent tagging, NLP and chatbot

A RICH SET OF APIs

for integration with other solutions within the corporate IT ecosystem

THE INTEGRATED BPM ENGINE

for managing workflows and automating processes according to client's requirements

A COMPLETE AND FLEXIBLE CONFIGURATION

to customize application features to meet the specific needs of customers

Document & information management

SIAV Connect provides a comprehensive set of features for document management, and supports the entire information lifecycle, from creation to either discard or perpetual retention, optimizing costs and improving efficiency.
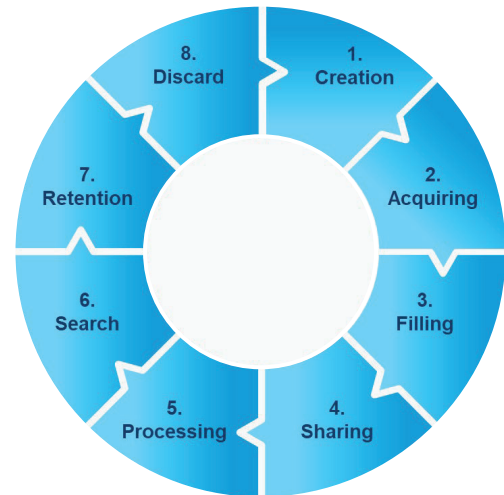
Workflow & collaboration

SIAV Connect provides a comprehensive set of features for document management, and supports the entire information lifecycle, from creation to either discard or perpetual retention, optimizing costs and improving efficiency.

SIAV Connect places the user at the centre to speed-up, automate and facilitate daily activities, through collaboration tools, immediate access to information, and robust security policies. SIAV Connect orchestrates corporate processes, execute automatic activities, and assists users with manual tasks, dramatically reducing errors and related costs.

USER - CENTRIC

User-centric features includes:

- Presenting the information of interest to the user
- Providing an overview of pending tasks
- Highlighting priorities and deadlines
- Sending notifications regarding interactions among stakeholders
- Offering a customizable user interface

TASKS

Task management includes:

- Presenting information of interest to the user
- Providing an overview of pending tasks
- Highlighting priorities and deadlines
- Sending notifications regarding interactions among stakeholders
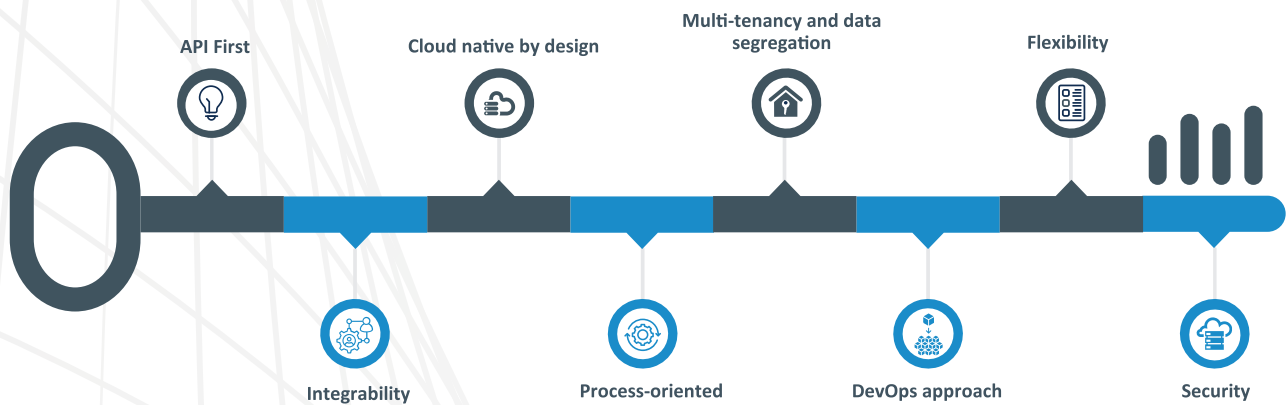- Offering a customizable user interface

WORKFLOW MANAGEMENT

Workflow management includes:

- Automation of activities
- Governance of workflows and document flows
- Data and information processing
- Interaction with other company products

Key success factors

SIAV Connect has been designed and developed for the cloud, offering infrastructural and application resilience, high performance, optimised delivery processes and rapid implementation and integration. The microservices architecture guarantees maximum modularity, flexibility, and efficiency, thus reducing the effort required for integrations and testing, and enhancing the efficiency of the development and distribution model.

API First   Cloud native by design   Multi-tenancy and data segregation   Flexibility

Integrability   Process-oriented   DevOps approach   Security

APIs First

SIAV Connect communicates through RESTful APIs, a widely adopted paradigm that enables interactions with external applications. SIAV Connect RESTful services are documented using OpenAPI standards. Moreover, they are versatile and adaptable to various programming languages and clients types, including UI, external applications, batch or queue-based integrations, ESB, and more.

Cloud native by design

SIAV Connect is developed upon leading open source technologies, adheres to the Cloud Native Computing Foundation* guidelines, and is deployable across all major cloud providers (AWS, Azure, Google, Oracle, etc.) without the concern of vendor lock-in. SIAV Connect's microservices architecture guarantees complete scalability and high reliability, while also simplifying maintenance and upgrades. One of the most significant advantages of embracing a cloud native application is the agility it offers in adapting to changing contexts.

Integrability

One of the key features of SIAV Connect is its ability to integrate with other application within the corporate IT ecosystem: SIAV Connect provides the ability to manage interactions with third-party solutions in various ways, thanks to features like the BPM engine, batch engine, and event manager.

Multi-tenancy and data segregation

SIAV Connect offers a multi-tenant architecture, to manage many organisations within a single instance. This architecture ensures complete data segregation, granting each tenant independent configuration and customization capabilities.

Data segregation is accomplished by using separate storage for each tenant. This approach ensures backup, restore, maintenance, and administrative operations to be performed independently for each tenant.
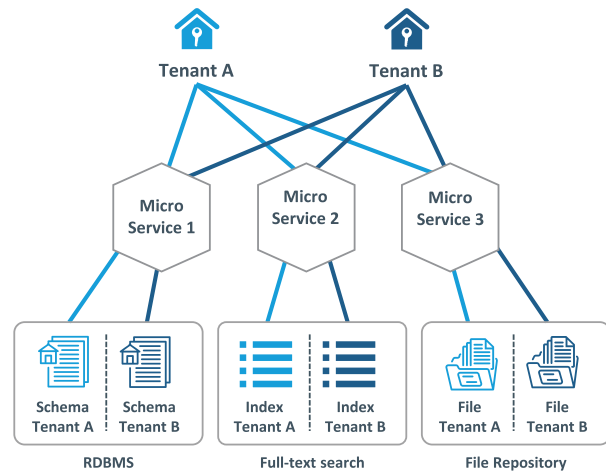
Flexibility

SIAV Connect provides a wide range of configuration parameters, enabling the creation of vertical solutions that are perfectly suited to any domain. A simple example of the platform's flexibility is its capacity to create custom extensions that can be integrated into BPM processes to implement specific business logic. These extensions can then be integrated into existing workflows, to assist users in their day-to-day tasks.

Process-oriented

SIAV Connect integrates a last-gen BPM engine that supports BPMN, a standard notation for visually representing processes, widely adopted by leading Process Management vendors. BPMN is user-friendly, even for non-technical users, making it easy to create and manage business processes. SIAV Connect's BPM engine has been extended with a library of manual tasks, to easily design workflows. As previously mentioned, if the built-in functionality does not cover client's requirements, business logic can be quickly extended through custom modules.

DevOps Approach

SIAV Connect is developed using DevOps methodologies, which promote the adoption of the best development practices and the most advanced automation systems. The DevOps approach encourages closer collaboration between Development (DEV) and Operations (OPS) teams to achieve greater efficiency, monitoring capabilities, speed, repeatability, safety, and accuracy.

Security

Security plays a crucial role in SIAV Connect, starting from the development methodologies. These include continuous training, static code analysis to detect and remove potential security risks, code review supervised by senior staff experienced with OWASP guidelines, vulnerability analysis (CVE scan) of open source components using the National Vulnerability Database. The final stage of the process is product certification through penetration testing by an independent third party.

Vertical Solutions

SIAV Connect provides a comprehensive set of features to build customized ECM vertical solutions, created by configuring, integrating, or extending the functions of the Platform. Vertical solutions are applications that are developed by configuring, integrating, or extending the capabilities of the platform to address specific business requirements. Here are some typical scenarios.

In one possible scenario SIAV Connect provides only back-end platform services: in this case, the user front-end can be developed either from the scratch or by extending existing applications, while the ECM features are accessed through APIs. An example is an ERP that needs to archive documents and make them available to its users.

A second scenario involves the use of the standard front-end. In this case, the vertical solution is created by configuring the Platform UI, thanks to its configuration flexibility, and also by using the customisation functions offered by the integrated BPM engine. As in the previous case, it's also possible to use the back-end services through APIs.

In a third scenario it's possible to modify the platform UI front-end to implement a customised vertical solution. Essentially, this involves creating a fork of the platform UI. This approach can be useful if you want to add specific features not provided by the platform, or modify the user experience to adapt it to specific needs.

Email Manager

The Email manager module provides a complete set of email management functions fully integrated into the platform. This module can be employed to create vertical solutions that involve the use of emails in various business processes, such as orders, invoices, contracts, and more. Thanks to its seamless integration with the platform UI, users can store email in SIAV Connect's repository, start business processes on each message, using all the platform's functionalities to address customer's need.
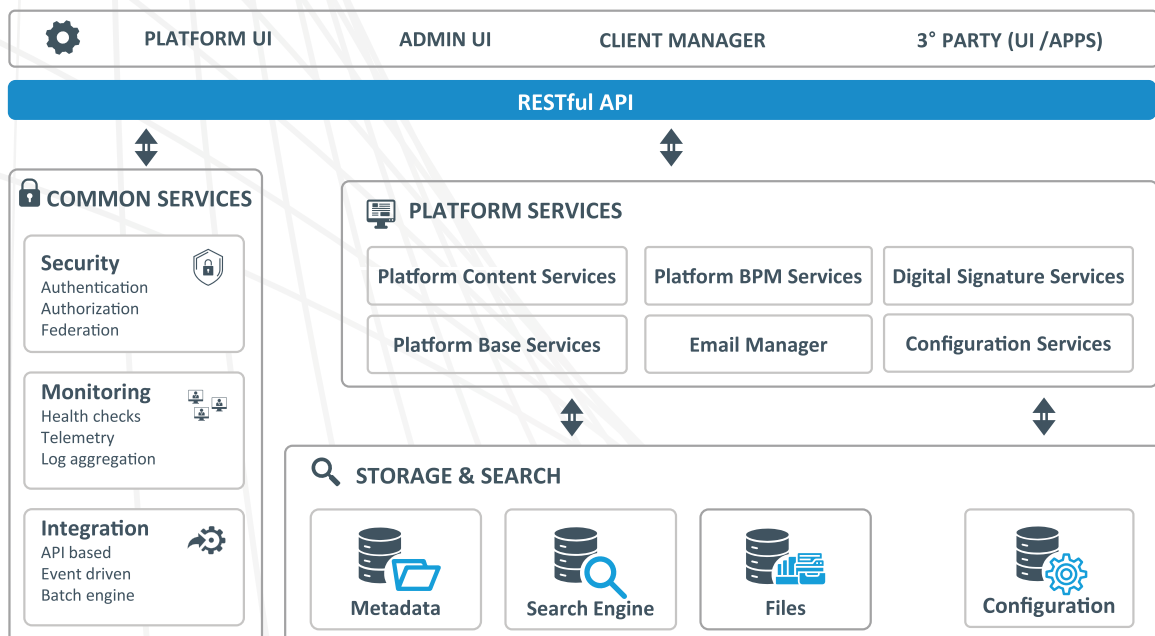
SIAV Frame

SIAV Frame is a web portal that can be customised to provide a dedicated front-end for developing a vertical solution completely independent of the standard platform UI. In this scenario SIAV Connect provides the necessary APIs while the front-end is implemented on top of SIAV Frame. Two examples of vertical solutions that can be built using SIAV Frame are HR portal and Digital Contracts portal. Both of these solutions require a simplified and customised user experience, and don't need to use all the features provided by the platform.

Technology Architecture

In this diagram, SIAV Connect is presented in its primary sense: an open platform that interfaces with other systems or applications. In particular, it emphasises the fact that:

- **the RESTful services** offered by SIAV Connect can be used in various ways (UI, API, third-party applications, batch or queue-based integrations, ESB, etc.);
- SIAV Connect uses **three different storage systems**: a relational database for configurations and operational data, a search engine to support full-text indexing and a storage for files;
- SIAV Connect includes a **Business Process Management component** that is seamlessly integrated into the platform to support the digitisation of business processes and manage the document lifecycle;
- the **common services** include security and identity components, monitoring tools for health checks, event managers, a batch engine and others.

PLATFORM UI	ADMIN UI	CLIENT MANAGER	3° PARTY (UI /APPS)

RESTful API

COMMON SERVICES

Security
Authentication
Authorization
Federation

Monitoring
Health checks
Telemetry
Log aggregation

Integration
API based
Event driven
Batch engine

PLATFORM SERVICES

Platform Content Services	Platform BPM Services	Digital Signature Services
Platform Base Services	Email Manager	Configuration Services

STORAGE & SEARCH

Metadata	Search Engine	Files	Configuration

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