

Secure, Scalable, Cloud-Native Archive & eDelivery Solution

SOLsearcher™ Cloud (SSC) provides a rapid, easy-to-deploy Microsoft® Azure® cloud architecture optimised specifically for digital workflows and eDelivery, replacing legacy software with a scalable solution built for your cloud initiatives.



CHEMISTRY™ CUSTOMER COMMUNICATIONS
MANAGEMENT PLATFORM.
POWERED BY SOLIMAR™



SOLSEARCHER™
CLOUD

The Future of Electronic Document Delivery

SOLsearcher™ Cloud (SSC) is our enterprise-class eDelivery and archive solution built for the Microsoft® Azure® cloud ecosystem. It is designed to augment or replace traditional printing processes by providing a highly secure, intuitive platform for distributing and accessing critical transactional information via web browsers. Whether you are a commercial print service provider hosting multiple clients or an enterprise streamlining internal workflows, SSC provides rapid deployment, comprehensive search capabilities, and robust API integration.

Key Benefits



Cost-Effective Delivery:

Significantly lowers the cost of delivering transactional reports, including consumer communication and internal corporate data.



Rapid Search and Retrieval:

Provides an electronic repository, enabling fast online search and retrieval for customer service and end-users.



Scalability & Performance:

Features a highly scalable "N-tiered" architecture that expands and contracts in real-time based on workload, ensuring you only pay for the resources you use.



Simplified PDF Archiving:

Ingests finalized PDF outputs from existing Solimar® Print Director™ Enterprise (SPDE) and iCONVERT™ systems, allowing secure storage and presentation of digital documents once the production print phase is complete.



Enhanced Security:

Highly flexible, role-based security managed in a third-party identity provider (like Microsoft® EntraID) supporting OpenID® Connect/OAuth. Secure index data can be applied at the report or field value levels.

Why Choose SOLsearcher Cloud?



Automated Deployment

Say goodbye to complex infrastructure setups and open-ended IT projects.

Simplified Pre-Setup

The intuitive SSC Deployment Wizard handles all the Azure cloud resource creation and configuration.

Containerised Architecture

Configure server sizes and deployment regions locally, and the wizard deploys the containerised setup to Azure in minutes.

Automated Workflow

SOLfusion™ runs locally to automate the ingestion, indexing, and splitting of files into the cloud without manual intervention.



Enterprise-Grade Security

Protecting sensitive transactional data is built into the architecture.

Modern Authentication

SSC utilises OpenID® Connect and integrates with Microsoft® Entra ID, separating authentication from the core application.

Zero Trust & Isolation

Virtual Networks and Resource Groups securely isolate multi-tenant environments, ensuring data is separated for different customers or departments.

Centralised API Gateway

Dedicated API Gateway is the secure, single point of entry for all requests, handling backend routing and security enforcement.



Dynamic Scalability & Efficiency

SSC intelligently balances top-tier performance with cost-effectiveness.

Auto-Scaling Resources

Indexing and API servers automatically scale out to handle peak document processing and scale back in when not needed, so you never pay for idle hardware.

Minimised Retrieval Costs

Indexing and splitting records during ingestion into Azure Blob Storage and Cosmos DB removes the need to parse files at retrieval, significantly reducing document retrieval costs.

Tiered Storage Management

Easily specify file lifecycles to automatically move older documents to less expensive storage over time, reducing long-term retention costs.



Flexible Integration

Deliver an intuitive e-presentation experience tailored to your users.

API-First Design

Integrate SSC's search and retrieval capabilities directly into your existing internal or customer-facing websites using a REST-based API.

Custom Branding

Easily configure the default logos, labels, and look of the SSC web interface to match your corporate identity.

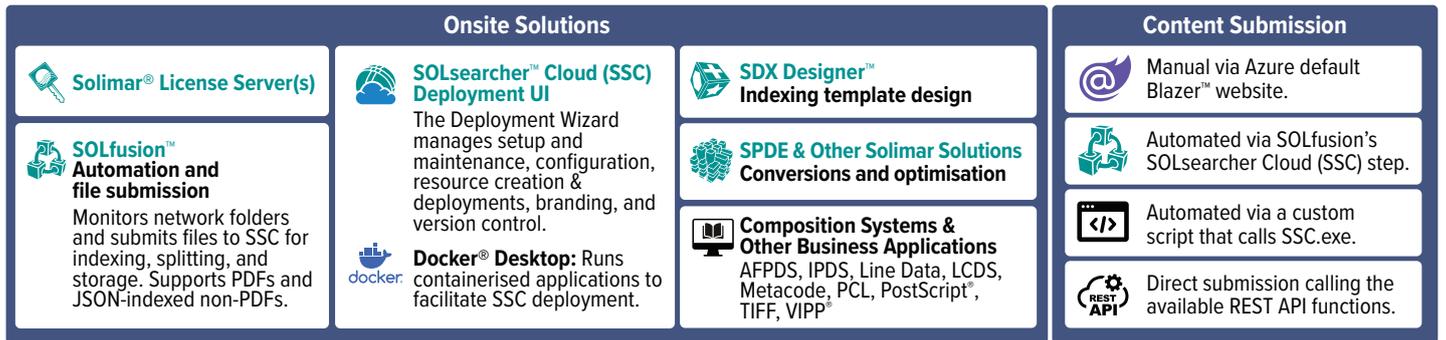
Lightning-Fast Retrieval

Individual records are parsed during ingestion, enabling super responsive paging and near-instant display when users search, view, save, or print PDFs.

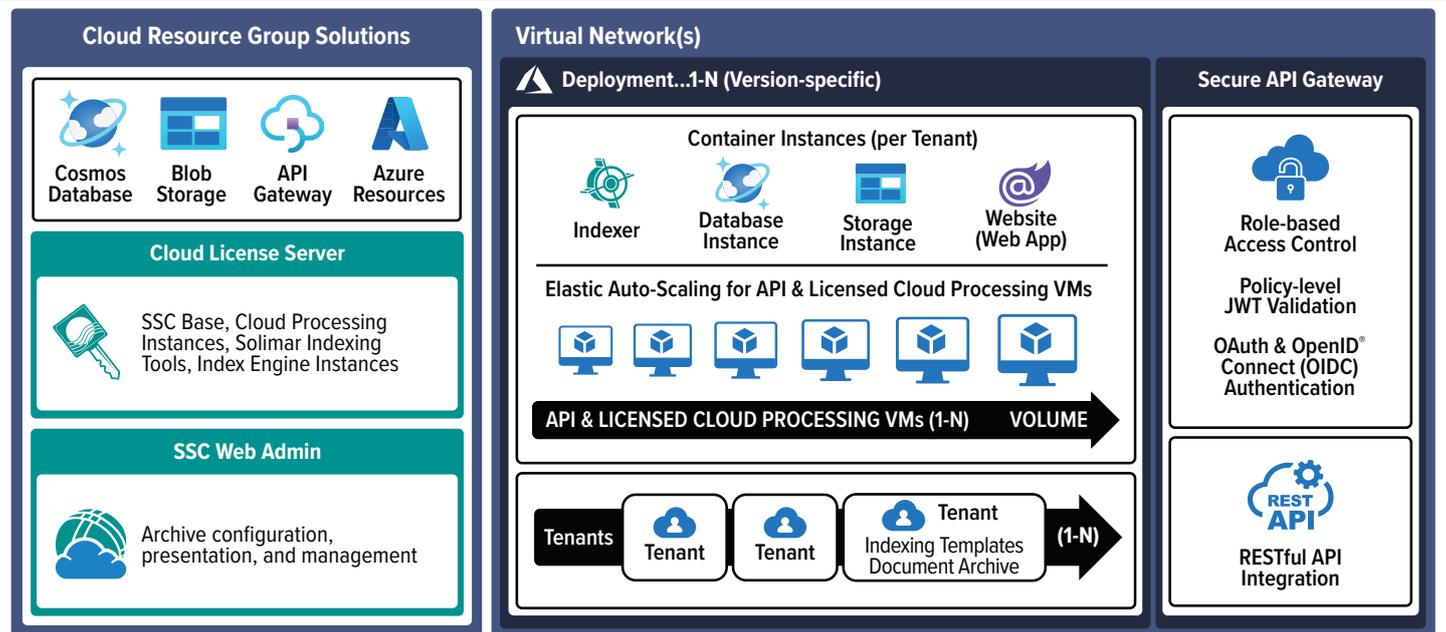
SSC Architecture Overview

SSC provides a scalable, high-performance, and fault-tolerant foundation for your eDelivery needs. Comprised of software modules and server components, the architecture leverages industry-standard technologies to integrate into existing CRM and web presentment infrastructures. The core of the system relies on a central API Gateway, dynamic API and Indexing Servers that scale as needed, and highly secure backend data management using Azure Cosmos database and Blob storage. This flexible, horizontally deployable framework ensures that the document archiving is reliable, cost-effective, and simple to manage and support.

SYSTEMS ENVIRONMENT



CLOUD ENVIRONMENT (MICROSOFT® AZURE®)



USER ENVIRONMENT

Standard and Custom Interfaces



SSC leverages a modular design with each component playing a specific role to ensure the document archive is secure, scalable, and highly responsive. SSC's core technologies include:



Licensing Server (Local and Cloud):

Dedicated Azure VM that manages cloud deployment licensing. The Deployment Wizard automatically creates the Solimar License Server VM during the initial deployment. Administrators manage licenses via Remote Desktop or Azure Bastion™, while local applications like SOLfusion™ and Solimar® Indexing Tools rely on a separate, local Licensing Server.



SSC Deployment UI:



An intuitive, local administrative tool that eliminates manual pre-setup by automatically configuring essential Azure resources—including Resource Groups, Virtual Networks, and Subnets. Additionally, it manages ongoing cloud deployments, server sizing, and software updates.



SOLfusion & Indexing Tools:



Local workflow automation and indexing applications that watch network folders and automatically submit PDF and non-PDF files to the Azure cloud for processing. It acts as the bridge between local production environments and the SSC cloud, initiating the indexing, splitting, and storage tasks.



API & Indexing Servers:

Dynamic VMs that handle parallel file processing and results delivery. Indexing Servers parse ingested files and extract metadata, automatically scaling based on the volume of queued files. API Servers process user queries and deliver document views, scaling out dynamically based on incoming HTTP requests.



Cosmos DB & Blob Storage:

Azure's fault-tolerant storage and database solutions. Individual PDF records and other file formats are securely saved in Blob storage. An arbitrary indexing schema enables the indexing and archiving of any file type by submitting file and JSON pairs to SSC. This metadata is converted to JSON and stored within the Cosmos DB.



API Gateway:

An API management resource that serves as the strict, single point of entry into the SSC system. It aggregates backend service APIs and routes all client requests to the appropriate processing servers. This provides a vital layer to enforce security policies and perform SSL termination.



SSC Website (Cloud Client):

A browser-based HTML application that serves as the out-of-the-box portal. It allows administrators to securely manage archives and configure document lifecycles. For standard users, it acts as a branded search interface to retrieve and view indexed documents.

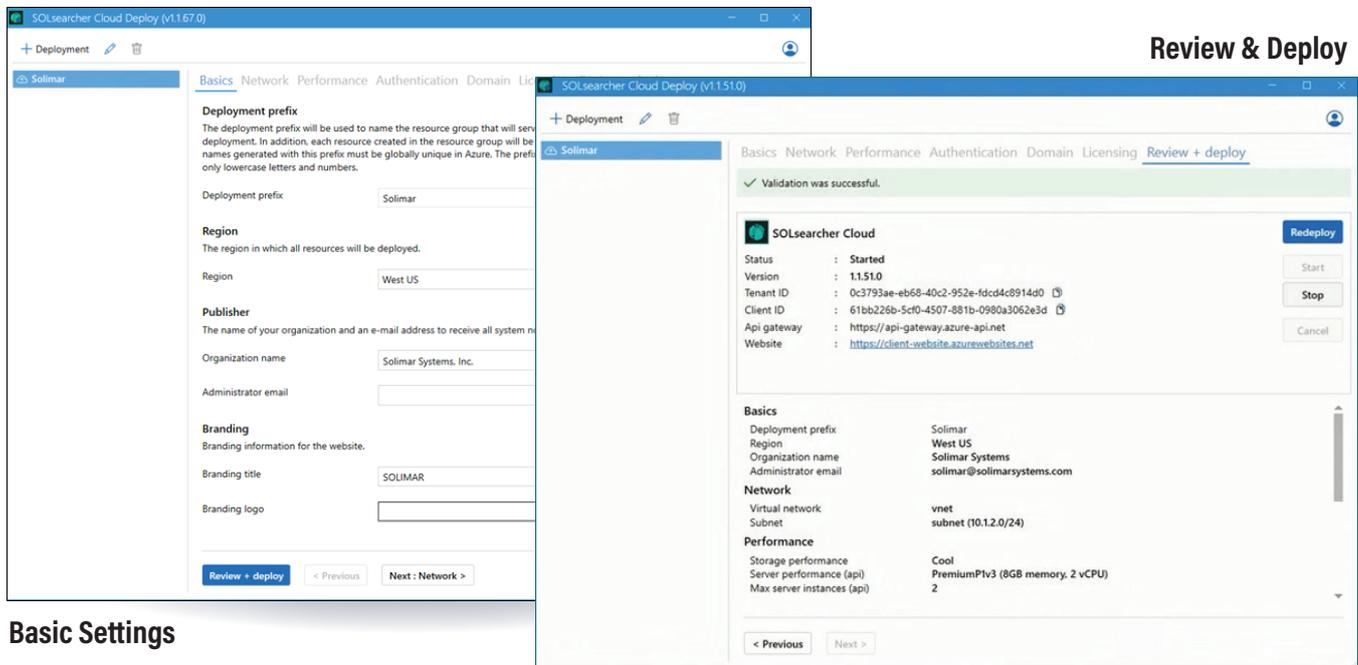


Custom Portals:

Existing internal or customer-facing websites integrated with SSC. Using the REST-based API and web services, documents are delivered directly through your own corporate web portals. Users authenticate via existing network methods, and SSC works invisibly in the background to serve up specific document records and summary information.

Effortless Azure Cloud Deployment

Deploying enterprise-class software to the cloud is typically a complex, time-consuming IT project, but SSC completely changes the paradigm. With the SSC Deployment Wizard, building a secure archiving environment in the Azure cloud is fully automated and exceptionally simple.



The Power of the SSC Deployment Wizard

Think of the Deployment Wizard as an automated cloud engineer. It handles the heavy lifting, allowing organisations to focus on business outcomes rather than infrastructure management.



Simplified Pre-Setup:

The Deployment Wizard minimises tedious pre-installation tasks. Simply install Docker® Desktop and configure your preferred Virtual Network and Subnet parameters. From there, the Wizard manages the creation and deployment of your cloud resources. After deployment, finalising the setup is as easy as installing the license server software and applying the license packet.



Guided, Comprehensive Configuration:

The Deployment Wizard walks you through what is needed for setup. While the defaults are fine for many users, the interface walks you through setting server performance, configuring elastic scaling, and setting up your Identity provider alongside any custom domains. Before deploying your architecture to Azure, simply select an existing Cloud License Server or have the Wizard create a new one.



Automated Resource Creation:

The deployment application does all the necessary back-end setup automatically. Operating in the background, it intelligently builds and connects all the required Azure resources, including Resource Groups, Virtual Networks, Subnets, and API gateways.



Containerised Rollout:

Once all of the options are reviewed and confirmed, the wizard pushes the fully containerised setup to Azure. An initial deployment takes about an hour to stand up completely, while subsequent software updates or redeployments take just a few minutes because the infrastructure is already in place.

Seamless Integration & Presentment

Integrating SSC into an existing CRM or customer-facing portal is straightforward. Using the REST-based API and web services, users can deliver documents within their own branded environment. Users benefit from immediate, ad hoc search capabilities, responsive paging, and the ability to view, print, or save exact replicas of their physical documents.

The image shows two side-by-side screenshots of the SSC interface. The left screenshot, labeled 'Standard SSC Website', shows a search page with a header 'SOLsearcher Cloud' and a search bar. Below the search bar are several input fields: 'Archive' (with 'SOLibank Statements' selected), 'Name' (with 'SEAN CONNERY' entered), 'Address', 'Statement Date' (with a date format 'mm/dd/yyyy --:-- --'), 'Account Number', and 'Balance'. The right screenshot, labeled 'Custom Website', shows a branded interface for 'Corp Air'. It features a 'Customer Information' section with fields for Name, Account#, Statement Date, Balance, Minimum Payment, and Payment Date. A 'Frequent Flyer Status' section shows 'Points: 10698' and 'Status: Platinum'. An 'Available Statements' section shows 'March 16, 2012' and options to 'View Statement', 'Export Data', and 'Export to CSV'. Below this is a 'Transaction Breakdown (Platinum Members - ONLY)' bar chart showing spending across categories: Restaurants, Gas, Groceries, Phone & Utilities, Recreation, and Shopping. A 'Payment Information' table shows a payment received on 2/28/2012. A 'Transaction Detail' table lists transactions with columns for Date, Merchant, City, Reference, and Amount.

Standard SSC Website

Custom Website



Intuitive Search & Fast Retrieval

Exact Renditions:

Users can quickly search large amounts of information to display the exact document that was printed.

Ad Hoc Queries:

Internal users, such as customer service representatives, can perform ad hoc searches to retrieve documents and find information exactly when it is needed.

Optimised Data Transfer:

To accelerate retrieval and minimise data costs, SSC splits bulk, multi-record PDFs into individual PDFs, transferring only the specific record requested.

Flexible Document Interaction:

Users can view the entire document, see a summary of the indexed content, and choose to save or print only the relevant pages.



Robust API Integrations

Customisable Web Interface

SSC provides a customisable sample site featuring robust search capabilities. This website acts as a template that can be easily rebranded with your company's logo.

RESTful Architecture:

How information and documents are presented is highly flexible and easily integrated with existing portals using SSC's Web Services API. It utilizes a RESTful API, allowing it to be called from any programming language.

Invisible Background Processing:

For business-to-consumer hosting, users typically log into your current corporate web portal for authentication. SSC uses their account identification to query the database and runs in the background, automatically serving up their specific documents and summary information directly to the website.

Choosing the Right Solution



When to Choose SOLsearcher Enterprise (SSE)

SSE is best suited for full-featured, on-premises environments. Choose SSE when you require:

Complete on-premises control, IT oversight, and data sovereignty over your infrastructure.

Integration with production print infrastructure, specifically including connection to SOLitrack.

Advanced production capabilities such as piece-level tracking, reprints, and both push and pull delivery.

Access to mature, premium features like Document Assembly, data export, linked fields/related reports, full-text indexing, and the ability to add notes.

The ability to store entire jobs as single PDFs with file-level user and group rights.



When to Choose SOLsearcher Cloud (SSC)

SSC is best suited for cloud-first, scalable deployments. Choose SSC when you require:

A resilient, cloud-based solution built on Azure that guarantees high uptime and automatic data replication.

Streamlined deployments with automated, elastic scaling that effortlessly manages resources without requiring dedicated server maintenance.

A modern RESTful API to easily integrate archives into custom web portals.

Workflows that are strictly optimised for streamlined archiving and eDelivery.

A flexible Azure-based pricing structure aligned to consumption and usage.

Discover the power of SSC's cloud-native archive & eDelivery.

Connect with us to get started!
solichat@solimarsystems.com

We're Here to Help!

- ✓ Online demos of our solution suites.
- ✓ File testing of AFP, IPDS, Metacode, PCL, PDF, PostScript® & VIPP®.
- ✓ On-site assessments & evaluation systems.
- ✓ 24/7 on-demand training content. Register at: suo.solimarsystems.com
- ✓ **Diego:** Our AI-powered assistant helps you quickly find information about our solutions, workflows, technology, and services on the Solimar and SUO websites.



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