ADSS Client SDK

Simplifying integration with ADSS Server

ADSS Server is a well-proven, standards-based product that can be deployed on premise for enterprise use or within a managed service as part of a cloud service. It can meet the most demanding needs by providing high throughput and high availability. As a strategic product for Ascertia, it offers support for the latest Windows and Linux operating systems, databases and HSMs.

Application Integration

Business applications need to provide enhanced security of data, better accountability, traceability and audit to aid compliance with local legislation, regional directives and internal needs. User Identity, system identity and digital signature verification and validation can add significant value to providing trust and traceability within such business processes. Substantial cost savings can be derived by replacing paper-based processes with secure, electronic ones.

The biggest issue is how can new and any existing applications be readily trust enabled. The answer is by using Ascertia's client software, ADSS Client SDK. Ascertia Client SDK also powers Ascertia's Auto File Processor and Secure Email Server applications. Ascertia's web-site also shows live demos.

ADSS Client SDK offers high level APIs that give simple access to the appropriate protocols for various service requests and responses. It supplies all the libraries necessary to easily integrate with business applications. The following diagram shows how ADSS Server can be integrated with high-level calls to the Ascertia Java or .NET based client web-services library:
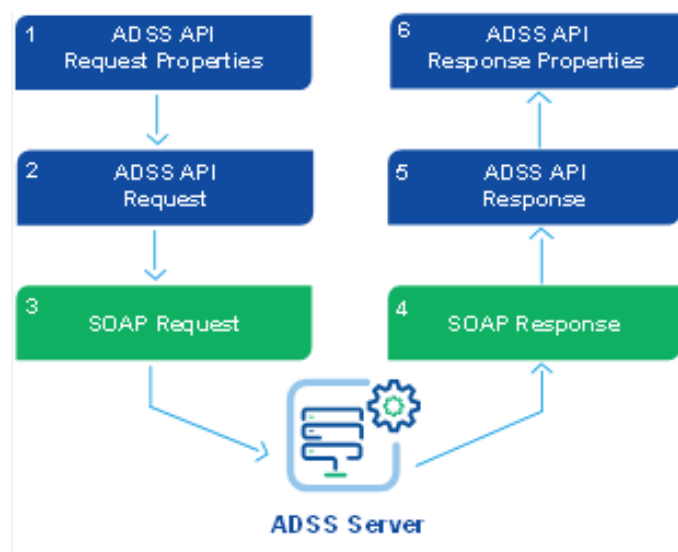
Key Features

> **Simple Licensing:**
> One copy of ADSS Client SDK is licensed for use with each production ADSS Server license that is purchased.

> **Feature Rich SDK:**
> o Signing and verifying PDF, XML data, Files etc., using OASIS DSS and DSS/X protocols
> o Timestamping
> o Validation using SCVP, XKMS (and OASIS DSS)
> o Archiving using ETSI AdES-A and LTANS
> o Decryption using DSS (e.g. used when Go>Sign Client has encrypted in-bound data ideal for tenders, health data, etc.)

> **Signature Standards Support:**
> Supports PDF, XML DSig, PKCS#7, CMS & S/MIME plus ETSI AdES -BES, -T, -C, -X, -X-Long and -A formats

> **Simplified Integration:**
> Facilitates the use of ADSS Go>Sign Client by providing the linkage to ADSS Server for back-end services such as obtaining long-term signature data and verifying/ enhancing any remote Go>Sign Client signatures

> **Developer Convenience**
> Developers are also able to create their own web-service calls to ADSS Server using the supplied WSDL files. It should be noted that the ADSS Client SDK will save considerable development and test time.
> ADSS Client SDK also offers the option of using direct HTTP/S based signing services to save the overheads of handle large documents via web services

ADSS Client SDK at a Glance

ADSS Client SDK provides APIs for signing, verification and encryption, using OASIS DSS, APIs for certificate management using CMC, certificate validation using OCSP, SCVP and XKMS and archiving services using LTANS (as well as ETSI AdES-A signing).

ADSS Server provides high level security services whilst removing all the lower-level complexities from the business environment. ADSS Server administrators define acceptable policies and profiles as well as how they will be applied and how they will be presented. They then permit or deny client applications the right to use these, e.g. the "invoice signing" profile should only be allowed by the specific finance department invoicing application.

ADSS Client SDK enables this interaction and simplifies the task. It is quite possible to get an initial application integrated within just four hours – this is feedback from one of our customers that downloaded our evaluation software and with no prior knowledge added signing to their documents.

The following diagram illustrates how ADSS Client SDK is used to advantage within ERP, ECM CRM applications today for internal and external sign-off and approval, signature verification, bulk document signing and indeed any trust service request made to ADSS Server.
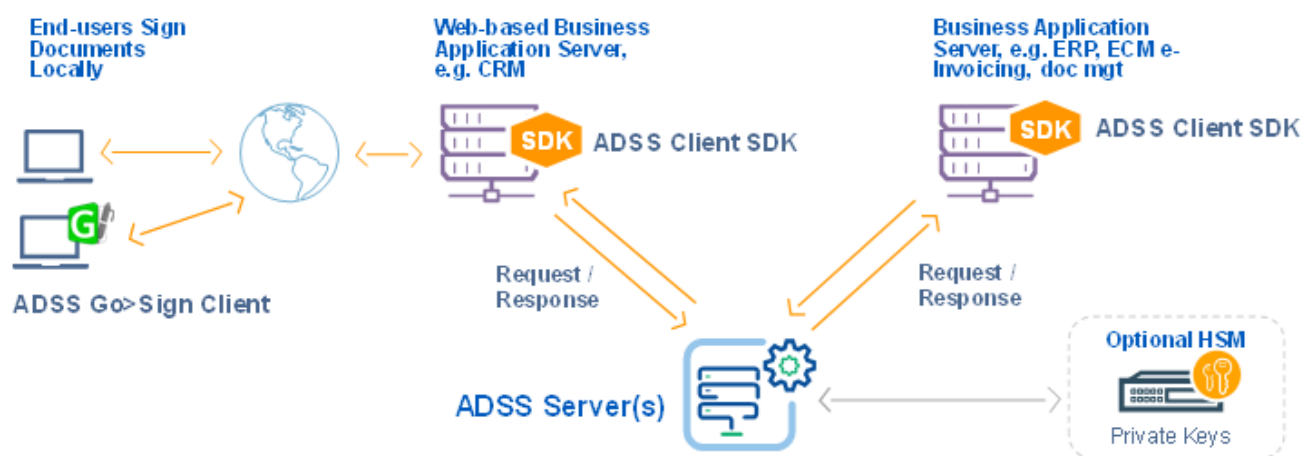
Further Information

With so many options Ascertia and its partners can help to define the best options to meet various business, legislative and regulatory needs and reduce the risks and costs involved in creating, sending, and receiving and storing e-business documents. The many capabilities of ADSS Server can be used to solve today's needs and also offer tremendous investment protection to meet the changing needs of tomorrow.

ADSS Server has been designed to meet the needs of SMEs, large national and multi-national organisations, managed service providers and regional trust schemes. It does this by providing flexibility, resilience, scalability, combined with strong internal security, management, audit logging and reporting.

ADSS Client SDK is a comprehensive solution for developers to PKI enable business applications.

> Supported Operating Systems:
  Microsoft Server 2022, 2019, 2016
  Linux RedHat, SUSE, CentOS, Ubuntu

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Mike Hathaway | Chief Product Officer

About Ascertia

Ascertia provides digital trust for people, devices, data and documents for everybody from individuals to Enterprises and Governments. Ascertia's PKI and digital signature technologies serve a global customer base and partner network via direct and indirect sales channels.

For more info

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