Thales Gemalto
iSeries Intelligent Document Readers
A new way of connecting to the Cloud
About iSeries Readers

Product Use
Thales Gemalto Intelligent Document Readers (known as iSeries) are cloud ready and come with high-onboard-performance processing which inspect, authenticate or capture data from electronic travel and identity documents quickly and reliably in cloud and virtual computing environments.

Designed for organizations requiring architectural deployment flexibility, support for mobile / thin client devices and ability to have multiple individuals interact with a single document reader.

iSeries connects directly to Enterprise cloud applications such as Customer Relationship Management (CRM), Electronic Medical Record (EMR), Property Management Systems (PMS) and Point of Sales (POS) to name a few. Connect via Web Service for easy web page integration.

Data and Cyber Security
Security is key in connecting edge devices directly to SaaS applications.
iSeries Readers provide:

**Data at rest:**
- Passport data is never stored on device, it is only in memory during a transaction
- Diagnostic data is limited in scope and can only be sent to pre-designated addresses

**Data in flight:**
- Data is protected in flight with a symmetric AES-256 cipher (Uses Diffie Hellman key exchange)
- Reader authenticates with the customer’s back-end system
- WiFi protected by WPA/WPA2 protocols

**Secured updates:**
- During updates the reader authenticates with the update server
- All update images are digitally signed by Thales and the image’s signature is validated by the reader prior to installation
- No user logins are allowed
- Regular updates with CVE (Common Vulnerabilities and Exposures) security patches
Use Cases and Design Implementations

Thales iSeries Intelligent Document Readers are network attached devices that provide flexibility for your deployments. The network connected readers provided several ways to integrate your solution such as:

- Direct connection to iSeries Reader
- Multi-user connection to iSeries Reader
- Cloud Based Connection to iSeries Reader
- Cloud Based Integration to Identity Verification Services with your iSeries Reader

The network connect iSeries Readers provides you a solution that is flexible and always available to integrate easily with your current systems. iSeries Readers can adapt to your current workflow and systems.

Direct Connection to iSeries Reader

A direct connection to our iSeries Reader provides a secure connection directly to our Document Reader and its High-level API. The iSeries Reader supports JSON Web Style messaging to communicate and deliver data to your client device. Additionally we provide APIs in several programming languages to provide customers familiarity with their own codebase. These APIs are provided in:

- C#
- Swift
- Java
- JavaScript

A Direct connection to our reader allows full control of the reader and to run captures of documents. A client device can include a PC, Tablet, Phone, or something as simple as a Web Browser.

![CLIENT DEVICE DIRECT CONNECTION](image)

1. Initiate Capture
2. Captured Images

Client Device
Multi-user Connection to iSeries Reader

A multi-user scenario allows for your iSeries Reader to be shared to several clients. The iSeries Reader may only be controlled by one Client Device at a time to perform captures but when that client is finished, another client can easily take over the iSeries Reader to perform their own capture. This situation is perfect for a use case where you need to perform only periodic scans of documents. Traditionally with a USB-based reader you would need one Document Reader per PC. iSeries Readers provides the flexibility of using a centralized device by many users.

Cloud Based Connection to iSeries Reader

A cloud based connection to iSeries Readers provide flexibility of connecting to your Reader from anywhere. The iSeries Reader establishes a secure connection to a cloud based service, called the Enterprise Service Framework, where you have a centralized control of all your iSeries Readers. The Client Device will connect to the Enterprise Service Framework in order to manage and control your iSeries Readers. This scenario provides flexibility to easily manage your data and to connect with our service such as Identity Verification Services and other Services such as PMS, CRM and BMS as well managing reader updates.
Identity Verification Integration

Having access to the Internet provides possibilities to integrate with Identity Verification Services (IDVS) and similar back-office or SaaS systems. The iSeries Reader can communicate directly to IDVS and provide the Client Device Verification Results shortly after completing a Document Scan. Checking for Document Verification and Integrity has never be easier.
Integrating iSeries Readers

iSeries Readers offer versatility when it comes to connecting directly into a current environment and provides users with multiple connection methods.

Our iSeries Reader uses encrypted JSON messages to configure the read sequence and retrieve data and events from the reader. High level data and control methods are provided, similar to our Traditional Document Reader SDK. A developer can communicate using the JSON messages, or use one of our provided APIs that will write the messages for you. We provide this API in several languages that include, Swift, C#, Java, and JavaScript.
Device Management Console

The iSeries Readers provide a web-based management console to control specific settings for controlling your device. It provides device & certificate management, provisioning, configuration, and reader testing with simple document data and image capture. This is also where a user can configure network settings. After setting up the reader and getting the iSeries Reader onto your network, these settings will not need to be changed frequently.
Development Environments

Development starts with determining what supported language you plan to use. We provide APIs to communicate with our iSeries Readers. These APIs include C#, Java, Swift, and JavaScript. This allows developers to create apps in any environment. Developers have the ability to create iOS and Android Apps, Web Apps, and Windows Applications that can be supported on Phones, Tablets, and Desktops.

The provided APIs handle required cryptography to communicate with our reader. We also provide a Message file that includes all messages and protocols the iSeries Readers support when communicate directly to the device.

Enterprise Services Framework

The Enterprise Services Framework is our cloud infrastructure deployment which allows customers to manage your device from one easy console. All of your devices securely connect to the Enterprise Service Framework and provides details of all your iSeries Readers.

The Enterprise Services Framework provide many Key benefits:

- Centralized management of all your iSeries Readers
- Ability to roll out Firmware updates to your iSeries Readers
- Allows control of iSeries Reader Settings and Key Management
- Certificate management for Passive Authentication, Chip Authentication Terminal Authentication and Extended Access Control

**Easy to use - contact or contactless mode**

**Document reader connected directly to SaaS application**

**No information retained**
Our Demo Web App

We provide an easy to use demo application that can be used on any device and accessed anywhere. The deployment of a Web App shows the flexibility of our iSeries Readers. A Web App provides a unique application experience by providing:

- The ability to support any modern tablet, phone, and PC that has a modern Web Browser
- An easy access to the application from anywhere
- The fastest way to roll out updates to your client devices
- The ability to take advantage of Progressive Web Application features