# CIV in a Box / CIV as a Service

## Standards-based secure access

CertiPath
www.certipath.com

### What are CIV cards?

A CIV card is a Commercial Identity Verification card, also known as a PIV-compatible card. This means that it meets the PIV specifications, technology requirements and data model without the need for cross-certification and can therefore be issued by any enterprise.

CIV cards are used by organizations that do not need the same level of federated trust as a full PIV-compliant solution, but still wish to benefit from using interoperable components and best practice business processes for securing physical (e.g. building access) and logical (e.g. network logon) access to corporate resources.

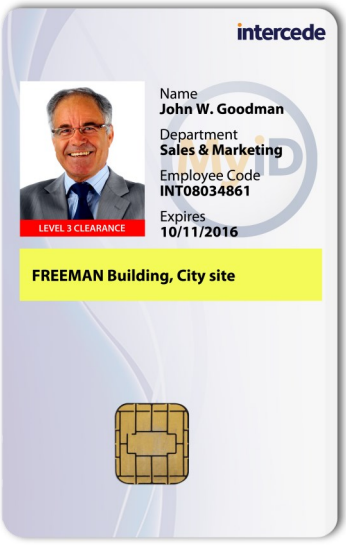
### What are the benefits of CIV?

Many organizations wish to step up to two-factor authentication: something I have (the card) and something I know (the PIN) as they realise the security benefits that this can bring. However, they are faced with a bewildering choice of components from which to build a solution. A CIV solution combines proven interoperable components from the FIPS 201 approved product list with a management solution pre-configured to deliver practical yet secure business processes focused on the needs of commercial organizations.

Using standards-based proven interoperable technology means that employees can use their CIV cards to logon to PCs and networks, access cloud resources and enter secured buildings. Strong card authentication using cryptographic functions guarantees that a CIV card is authentic and can therefore be trusted, and the CIV process provides an organization with enhanced security, improved data protection, more secure networks and physical facilities, increased cost savings and improved efficiency.

### CIV as a Service

For organizations who don't have the manpower, the time or the on-site expertise to set up and maintain a CIV system, opting for our CIV as a Service package takes away all the hassle.




Using the market-leading MyID® identity and credential management system from Intercede® to provide enrolment and card management functionality, the system leverages the company's experience of deploying PIV, PIV-I and CIV cards for large Federal government and commercial customers.

CertiPath hosts the infrastructure for you and you access servers in the cloud, which means there are no on-site maintenance or security worries because that is all handled for you. You also save money because you don't have to buy servers or employ engineers to run the infrastructure. The CertiPath CIV as a Service solution can also include the smart cards, printing stations and the management station software required to complete the full system.

### Key features

- Choose the package that best suits your organization
- Maintain control over issuance policy
- Workstations shipped ready to issue CIV cards
- Save time and the development costs of defining and deploying your own issuance standard
- Increase security combined with a reduced total cost of ownership

As policy experts, CertiPath controls the security policy and supplies the certificate authority (CA) that issues digital certificates. This ensures that only trusted individuals are issued with the correct credentials for access to meet a defined business process. Role-based access and role separation can also be implemented to define who can carry out which function and ensure that multiple people have to be involved in a process if required.

Organizations control their own issuance policy, which defines both the content and issuance rules around each type of device. Controls include who can issue a device, who can receive it, whether it needs a second person to verify it before it is issued, keys swap at issuance and PIN policy, such as maximum and minimum length.

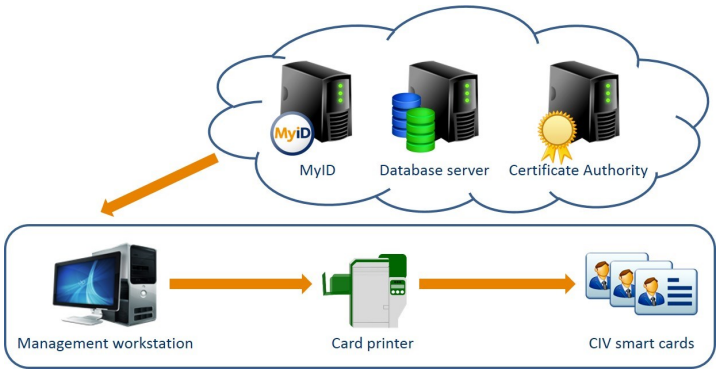
### CIV in a Box

For larger organizations with an in-house IT capability, our CIV in a Box solution offers a complete system that contains everything you need to start issuing CIV cards. MyID servers are deployed on-site rather than in the cloud, which means that you have tighter controls on infrastructure, badge issuance and use.

As with the CIV as a Service model, CertiPath manages the security policy for the CIV in a Box offering, while the end customer controls the issuance policy. The server, software licenses, smart cards, printing stations and management station software can all be included as part of a deployment on request. MyID and the CertiPath certificate authority (CA) come preconfigured, with a pre-integrated set of components to make it quick and easy for organizations to get started.

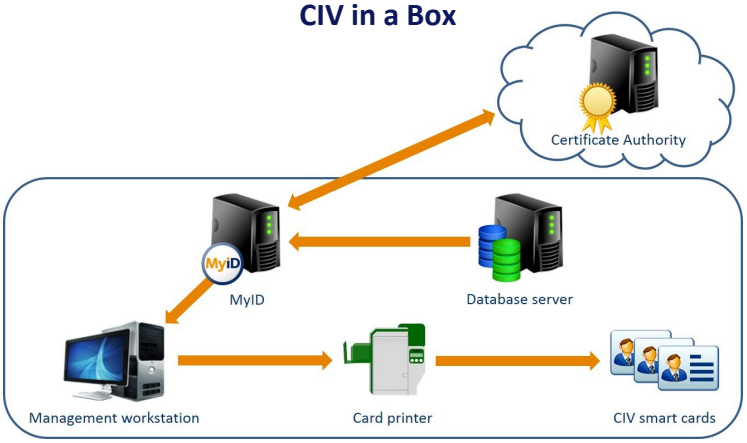
*Powered by...* MyID

## CIV as a Service




- CertiPath cloud-hosted infrastructure
- CertiPath manages the security policy
- Organization controls the issuance policy
- Shipped workstations, ready to issue

## CIV in a Box




- Locally hosted infrastructure
- CertiPath manages the security policy
- Organization controls the issuance policy
- Shipped workstations, ready to issue

## How does it work?

1. An employee needs a smart card to enable them to log on to the network and gain entry to company premises. Depending on the organization's policy, this may have to be requested by an employee who has been designated as a 'sponsor'. This is typically a supervisor who will check that the request is valid before proceeding further.
2. Information about the person requesting the card is entered into the card management system (MyID). This can include biographic details such as name and address, work-related information such as department or job title, and a photo.
3. If the organization's policy specifies, the system can be set up to require proof of identity. This is usually in the form of trusted documents such as a birth certificate, passport or driving license. Alternatively, an employee's profile can be imported from an existing database, such as the company's HR records or a directory.
4. If the applicant passes the identity checks that are conducted, they can be issued a CIV smart card according to company policy. This policy defines both content and issuance rules for each card. Content definition provides control over what is written to each card (i.e. certificates, applets, keys, data and printed layouts), while issuance methods control how a card is physically provided to the end user (e.g. face-to-face, self-service or centrally in batches).
5. The Intercede MyID credential management system communicates with the smart card to generate key pairs and certificate requests. The certificate requests are forwarded to the CertiPath PKI certificate authority (CA).
6. The trusted CertiPath CA generates the certificates.
7. MyID retrieves the certificates and writes them to the smart card. MyID can also provide Global Platform compliant applet management and personalization. The card is printed using designs created with the built-in card layout editor, which can be a mix of static data (e.g. company name) and dynamic data (e.g. cardholder's name). Cards can be locked for activation later if desired.

Once a card has been issued, you can use MyID to perform lifecycle management tasks. This could be updating personal information, requesting new credentials to replace expired ones, or issuing a temporary or replacement card when one is forgotten or lost.

## About CertiPath

CertiPath provides externally portable organization and individual identity assurance by certifying that your organization's credentials – and those of your employees – meet globally accepted standards. CertiPath maps your policy to the CertiPath policy to ensure adherence to these standards, essentially giving your company a "seal of approval".

A joint venture of ARINC, EXOSTAR and SITA, CertiPath provides the only commercial Public Key Infrastructure (PKI)-based communications bridge where partners, suppliers and customers can share information widely, securely, effectively and affordably – regardless of the size and scope of the supply chain.

CertiPath

## About Intercede

The MyID identity management platform from Intercede enables global organizations and governments to create trusted digital identities for employees and citizens on secure devices such as smart cards, smartphones and tablets. MyID enables the protection of IP, assets and digital content, delivering trusted digital identities as the cornerstone of cyber security strategies for government, defense, financial services and other industries.

Intercede has been developing identity management systems since 1992 and MyID is currently deployed by end customers in 24 countries.

intercede

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**CertiPath: (703) 793 7870 • info@certipath.com • www.certipath.com**
**Intercede: info@intercede.com • www.intercede.com • @intercedeMyID**