

HID® ArcID™ Biometric Server

The ArcID™ Biometric Server is part of HID's modular facial recognition system that enables integrators and developers to seamlessly integrate the power of facial recognition into a system.

Designed with speed, accuracy and security in mind, the HID ArcID Biometric Server is a scalable facial recognition server that can be hosted either on-premise or in the cloud. Functionality includes the ability to perform:

- Biometric enrollment into a database
- Biometric image quality checks and template extraction Identification with one-to-many (1:N) matching against all biometric records
- Facial one-to-one (1:1) verification against a specific record
- Custom search tags and groups of templates to improve efficiency and narrow results
- Architected to connect to other identity management applications, trusted secured endpoints and databases

The HID ArcID Biometric Server is easily configured to meet performance, scalability and high-availability thresholds. To ease integration, the servers provide a RESTful API making it possible to support both traditional and mobile applications as well as web-based user experiences.

TOP RANKING, AI-POWERED FACIAL RECOGNITION

Our facial recognition technology is built on the dependable, flexible and secure matching algorithm from our partner, Paravision®, a global leader of computer vision and machine learning.

Paravision's top-performing face matching algorithms have consistently ranked high in the internationally recognized National Institute of Standards and Technology (NIST) Face Recognition Vendor Tests (FRVT) reports, thanks to its advanced AI and machine learning technologies.

In addition, Paravision's face matching algorithm has been trained using an extensive, ethically sourced dataset with millions of images, including a variety of gender, age and racial characteristics, to ensure sufficient diversity of data and defend against matching bias.



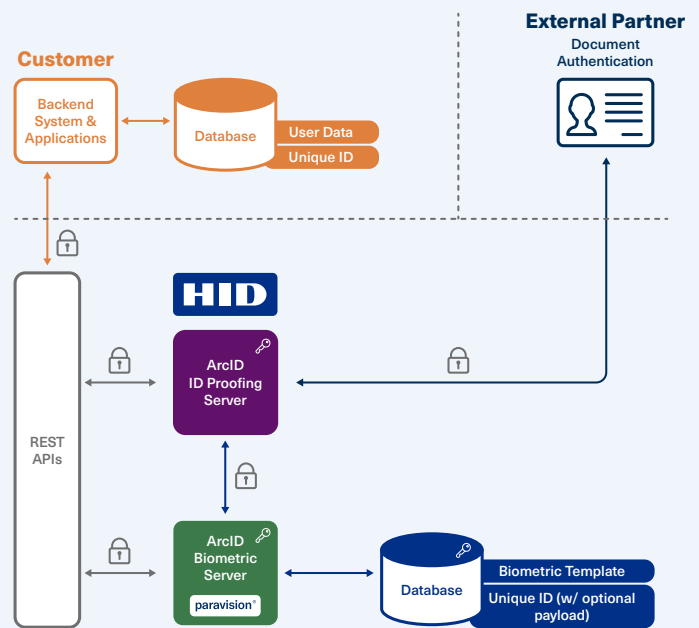
KEY FEATURES:

- Secure deployment using industry standard security protocols
- Facial enrollment management: image quality assessment, record creation, update and deletion
- Facial biometric matching
- Database export, import and synchronization
- Facial biometric verification (1:1)
- Facial biometric identification (1:N)
- Biometric template extraction from JPG or PNG images
- Storage of enrolled images to support future facial recognition algorithm upgrades (optional)
- Database Synchronization With Edge Devices
- End-to-End Security & Encryption
- Disaster Recovery & High Availability

DESIGNED TO FIT YOUR SOLUTION

The HID ArcID Biometric Server is designed for easy deployment as a server-ready Docker container with software components ready off-the-shelf. The ArcID Biometric Server and database are lightweight and work alongside your existing systems and databases.

This unique design eliminates the need to combine data from your existing systems and employs a simple reference between a user's biometric record and your existing customer database. This separation allows your existing systems to easily add biometrics without any change, helping you quickly realize the solution value.



END-TO-END DATA SECURITY AND PRIVACY

Security plays an important role in ensuring biometric databases are not compromised. The HID ArcID Biometric Server supports encrypted databases as well as encrypted communication across every endpoint to prevent man-in-the-middle attacks.

Privacy issues can be dealt with easily as biometric records (and other personally identifiable information) are isolated from your main databases and can easily be managed independently, giving you complete control over the implementation of privacy policies in your organization and as required by law.

HID's ArcID Biometric Server also supports development, testing, production, disaster recovery and high availability configurations to meet your needs.

The HID ArcID Biometric Server is designed using the Secure Software Development Lifecycle (SSDL) methodology to ensure it can be securely integrated into your infrastructure. The SSDL process also gives developers insight into potential security gaps and threats before they occur. In addition, our facial recognition technology is developed using Privacy by Design with ethical data collection for AI algorithm training to reduce bias and increase inclusivity.

HID PROFESSIONAL SERVICES

HID Biometric Professional Services offerings can be adopted to meet your specific needs, ranging from strategic consulting and solution design, to implementation, customized training and on-going maintenance and support. We can provide the technical expertise and skilled resources to help you scope and plan your biometric project from start-to-finish.

Product Name	HID ArcID Biometric Server
API	RESTful API support for mobile, desktop or browser-based applications
Quality & Matching Score	Thresholds are configurable for both quality and matching
Security and Encryption	Required Transport Security Layer: TLS 1.2 or greater
Database	Supports up to 150M+ users
Synchronization	Database synchronization between HID ArcID Biometric Server and edge devices, such as the HID U.ARE.U™ Face Module, via the HID U.ARE.U Face SDK
Operating Environment	Single-host - Supported Linux distribution for on-premise or cloud (AWS, Azure) deployments - Docker version 20.10 or later - Docker-compose version >=1.25, <2.0 Multi-host - Kubernetes cluster of preferred distribution (provided multi-host example has to be configured) - Helm - Some required packages for deployment scripts (see Install Guide)
CPU	Minimum requirements: 4-core Intel® Xeon® Platinum 8275CL CPU @ 3.00GHz, or Amazon Linux 2 AMI (x86_64-base, kernel 5.10)
RAM	8GB minimum, 16GB or more recommended
Disk Space	250GB
Licensing	Perpetual or subscription licensing available
Support and Maintenance	Available
Disaster Recovery and High Availability	Available
NIST Ranking	NIST Face Recognition Vendor Test (FRVT) Top 5 performance in the world and #1 in the United States

Data subject to change without notice.



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