

# identiMetrics Biometric ID Management System Hardware and Network Requirements

All components of the identiMetrics Biometric ID Management System are installed to hardware provided by your school/district.

## identiMetrics Scan Point

Application that manages interaction between the scanner and one of the identiMetrics services to provide identification to your receiving application. Provides management interface for enrolling, managing your enrollment records, your users and service options. (e.g. POS serving line, Attendance station)

**There are two parts the identiMetrics Scan Point:**

1. Scan Manager
2. Enrollment Manager

## System Requirements

- Intel-based CPU processors.
- Applies to Enrollment Station and Admin Station.

<b>RAM</b>	<b>4GB or more with 1GB or more available</b>
<b>Hard Disk Space</b>	1GB (minimum) free space available
<b>Processor</b>	CPU PassMark <sup>1</sup> rating of 700 or greater
<b>USB Ports</b>	2 available ports for identiMetrics
<b>External Speakers</b>	Sound is mandatory for success. Adjust volume to the environment so that users hear audio queues.
<b>Network Connection</b>	Wired or Wireless (see below*)

## Operating Systems Supported

<b>Microsoft Windows®</b>	Windows 10, 11 - 32-bit and 64-bit <i>*excluding Home Edition</i>
<b>Apple MAC</b>	ONLY if using Windows Compatible Software

<sup>1</sup>CPU PassMark ratings are from cpubenchmark.net

## identiMetrics Biometric Engine (BE)

Application that runs as a service to provide identification, enrollment and administrative services to each Scan Point. Where enabled, it synchronizes with a Distributor to manage data movement or with ID Provider to deliver a read only copy of data.

System requirements for the BE are based on the number of enrolled records in the database. Additional significant factors affecting service response times are:

- Speed of the processor
- Amount of memory available
- Number of threads available for each connection. *There should be one thread available for every two connections with a minimum of four threads. If there are more than two connections per thread, then the overall performance will be negatively affected.*

### System Requirements

- Intel-based CPU processors.
- Applies to the ID Provider.

Enrolled Records	Minimum CPU PassMark Rating	Memory	Available Memory
<b>1-2000</b>	850 e.g. Intel Core2 Duo T8300	2GB	1GB
<b>2000-5000</b>	1100 e.g. Intel Core i3-370M	4GB	2GB
<b>5000-12,000</b>	3900 e.g. Intel Core i5-4590T	8GB	4GB
<b>12,500-25.000</b>	9500 e.g. Intel Core i7-4930K	16GB	8GB
<b>Greater than 25,000</b>	Please Contact Us		

### Operating Systems Supported

<b>Microsoft Windows®</b>	Windows 10,11 - 32-bit and 64-bit <i>*excluding Home Edition</i>
<b>Microsoft Windows Server®</b>	Windows Server 2012, 2012 R2, 2016, 2019, 2022

## identiMetrics Distributor (DT)

Application that runs as a service to manage the data centrally across multiple Biometric Engines. Runs a daily synch to each of its associated Biometric Engines.

### System Requirements

- Intel-based CPU processors.
- System requirements for the DT are based on the desired synchronization speed for specified number of enrolled records.

CPU PassMark Rating	Synch Time per 1000 records (up/down)
1100 e.g. Intel Core i3-370M	3:20/2:30
3900 e.g. Intel Core i5-4590T	1:55/1:18
9500 e.g. Intel Core i7-4930K	0:44/0:29

### Operating Systems Supported

Microsoft Windows Server®	Windows Server 2012, 2012 R2, 2016, 2019, 2022
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### Disk Space Requirements for Service Locations<sup>1,2</sup>

Enrollment Size	Required for Database	Required for Backups
1 enrollment	50 KB	750 KB
1000 enrollments	5 MB	75 MB
20,000 enrollments	1 GB	15 GB

1 – Assumes 15 backups- 5 scheduled and 10 requested.

2 – Service locations include DT, BE and ID Provider.

## identiMetrics Network Requirements

- All identiMetrics components must run on the same network
- A stable wired or wireless network connection is required
- identiMetrics uses TCP/IP
- Wired minimum requirement is 1000 Mbps
- Wireless minimum must support 802.11n router and cards
- Scan managers need to know the address of their associated service. This can be a static or reserved IP or a FQDN. Services include Biometric Engines and ID Providers.
- identiMetrics services running on a Windows domain will need their log on properties set to an appropriate domain account.
- Network exceptions for ports 47060, 47070 and 47080 should be made.
- Antivirus exceptions should be made for Distributor.exe, BioEngine.exe and IDProvider.exe.

## **Running in a Virtual Environment**

When using a virtual environment (VE) to run a Distributor, Biometric Engine or ID Provider, the guest computer must meet the minimum hardware requirements. In addition, care must be taken when running more than one VE at a time to make sure there are enough threads and memory to match the guest's requirements. For example, if the host has four threads and there are three guests running each defined with two threads, then each guest is not getting real-time use of two threads and computer performance will be affected.