

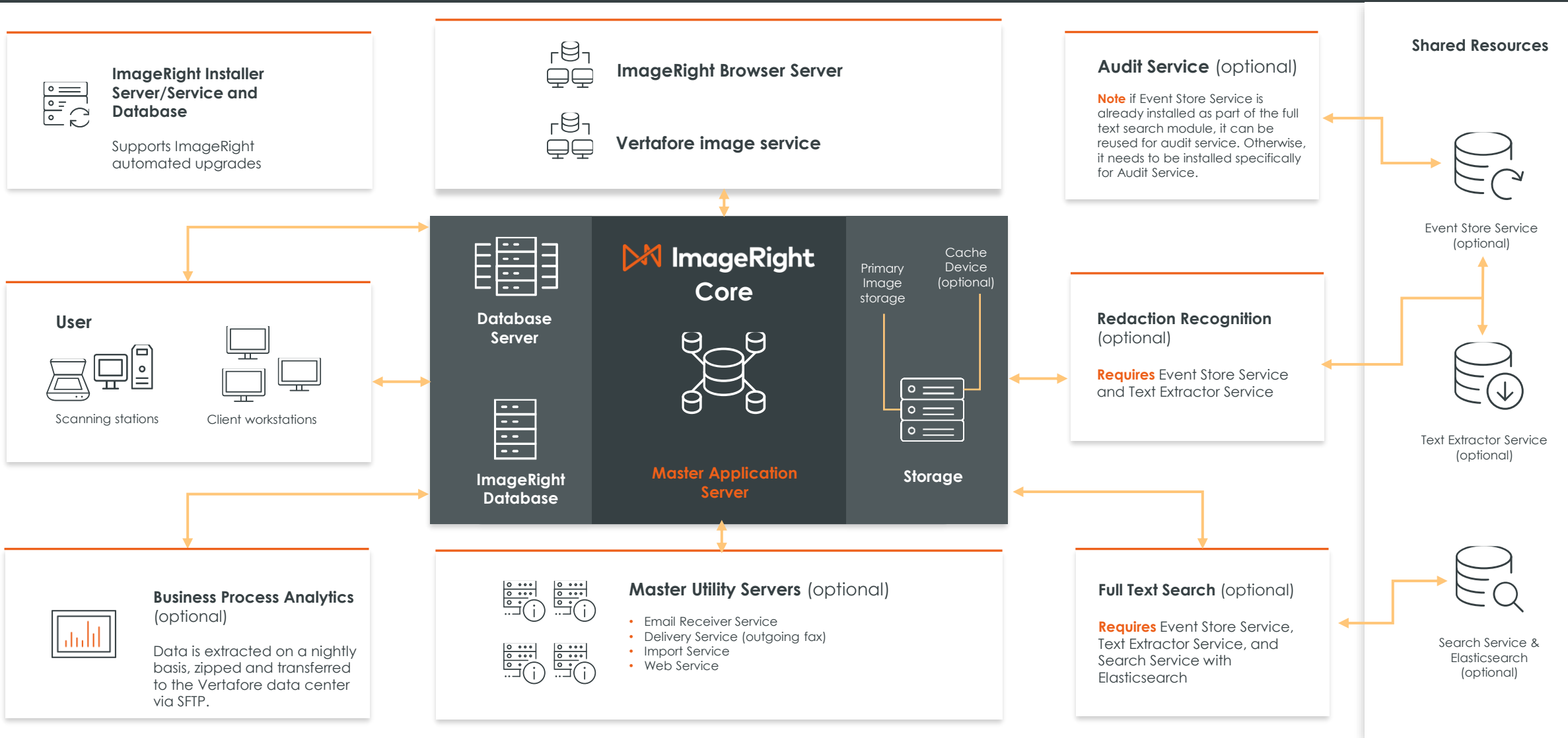


# Vertafore

## ImageRight 7.1 Hardware Map

December 2022

# ImageRight 7.1 Hardware Map: Basic Structure



# ImageRight 7.1 Hardware Map: Detailed Specifications

## User PCs

- Windows 11 – 64-bit
- Windows 10 – 32/64-bit
- 2.0 GHz processor
- 128 MB video card (1024x768 min. resolution, 1280x800 min. resolution if using browser client)
- Microsoft Office 2019, Microsoft Office 365, Microsoft Office 2016 (32-bit only)
- Adobe Reader 11, DC; Acrobat Pro/Standard DC
- 19" dual monitors recommended
- Microsoft .NET Framework 4.8
- Browser client compatible web browsers: Firefox, Google Chrome, Microsoft Edge
- Latest Windows updates
- ImageRight Installer Service on each computer required for automated upgrades

## Scanner PC

- One PC required per scanner
- Physical connection to scanner required
- Direct, real-time access to Application Server (Virtual desktop, terminal server, or Citrix cannot be used)
- 120 GB available hard drive space
- 4 GB RAM — minimum RAM recommended
- Windows 11 – 64-bit
- Windows 10 – 32/64-bit
- Microsoft .NET Framework 4.8
- ImageRight Installer Service required for automated upgrades

## Certified Scanners

### Kodak

All scanners shown below support:

Windows 11 or Windows 10 32/64-bit, Intel Core 2 Duo processor, 3-4 GB RAM, USC 2.0

- I4250
- I4650
- I4850

### Ricoh

All scanners shown below support:

Windows 11 or Windows 10 32/64-bit, no VRS, USB 2.0  
P4-3.2 GHz, 3-4 GB RAM, USB 2.0

- Fi-7600

# ImageRight 6.8 Hardware Map: Detailed Specifications

## ImageRight core 250 or fewer users

### Database server

- Windows Server 2019
- Windows Server 2016
- Intel Xeon 2 GHz processors
- 8 GB RAM
- RAID controller
- C:/ partition for operating system
- Second partition 200-500 GB (RAID 5) available for database storage
- Microsoft .NET Framework 4.8

### Databases

- SQL Server 2019, 2016, 2014
- Oracle 19c (follow Oracle hardware recommendations)
- ImageRight database
  - ImageRightDW — optional business process intelligence data warehouse (30 GB minimum required for BPI DB)
- ImageRight installer database required for upgrade service

### Master application server

- Windows Server 2019
- Windows Server 2016
- Quad Xeon 2.2 GHz CPUs
- 8 GB RAM
- Physical or VM server
- 100-200 GB available hard drive storage
- Microsoft .NET framework 4.8
- Microsoft message queing
- ImageRight Installer Service required for automated upgrades
- NOTE: may have locally attached, high-speed, hard drives for optional cache device storage

### Primary Storage Device

- RAID 5 device
- Size dependent on initial image storage estimates
- Initial 200 GB minimum recommended

## ImageRight core 250-3000 users

### Database server

- Windows Server 2019
- Windows Server 2016
- Intel Xeon 2 GHz processors
- 32 GB RAM
- RAID controller
- C:/ partition for operating system
- Second partition 200-500 GB (RAID 5) available for database storage
- Microsoft .NET Framework 4.8

### Databases

- SQL Server 2019, 2016, 2014
- Oracle 19c (follow Oracle hardware recommendations)
- ImageRight database
  - ImageRightDW — optional business process intelligence data warehouse (30 GB minimum required for BPI DB)
- ImageRight installer database required for upgrade service

### Master application server

- Windows Server 2019
- Windows Server 2016
- Quad Xeon 2.2 GHz CPUs
- 8 GB RAM
- Physical or VM server
- 100-200 GB available hard drive storage
- Microsoft .NET framework 4.8
- Microsoft message queing
- ImageRight Installer Service required for automated upgrades
- NOTE: may have locally attached, high-speed, hard drives for optional cache device storage

### Primary Storage Device

- RAID 5 device
- Size dependent on initial image storage estimates
- Initial 200 GB minimum recommended

# ImageRight 7.1 Hardware Map: Detailed specifications

Optional components, additional servers might be required

## ImageRight Browser Server

- Windows Server 2019, 2016
- IIS 10 – Windows Authentication
- IIS 8 – Windows Authentication
- Quad Core Xeon 2.2 GHz processor
- 8 GB RAM
- 100 GB available hard drive storage
- RAID Controller, RAID 5
- Microsoft .NET Framework 4.8
- Windows Identity Framework 3.5 (on both Browser Server and Application Server)
- Wildcard certificate if exposing Browser Server outside of VPN/domain

### ADFS Server (optional)

- Active Directory Federation Services with Active Directory Authentication
- Windows Server 2019, 2016
- ADFS 2.1, 2.0
- 8 GB RAM
- 160 GB available hard drive storage
- Dual Xeon 2.2 GHz CPUs
- Microsoft .NET Framework 4.8
- Windows Identity Foundation 3.5

## ImageRight Installer Server/Service

- Supports ImageRight Upgrades
- Windows Server 2019, 2016
- IIS 8.0 or later – ASP .NET
- Microsoft .NET Framework 4.8
- WCF Activation enabled
- User with administrator rights
- Supported browsers:
  - Firefox, Google Chrome, Microsoft Edge
- Microsoft SQL Server 2019, 2016, 2014
- Oracle 19c or later, ODAC 12c Release 3 and latest version JDK
- May be installed on the Business Process Intelligence Server

## Shared Resources

### Text Extractor Service (optional)

- Version 21.1.3.3
- Windows Server 2019, 2016
- 8 Cores, 4 Processors
- 16 GB RAM
- 200 GB Hard Drive

### Event Store Service (optional)

- Version 18.3.100.48
- Windows Server 2019, 2016
- Intel Core i3-4130 3.4 GHz (3 MB cache)
- Dual Gigabit LAN
- Single CPU, 240 GB SSD
- 32 GB RAM
- 2 TB 7200 RPM HDD

### Search Service & Elasticsearch (optional)

- Version 21.1.1.1
- Windows Server 2019, 2016
- Intel Xeon or equivalent (4 processors)
- 16 GB RAM
- 500 GB Hard Drive
- 8 Core, 4 Processors

## Vertafore Image Service

- Windows Server 2019, 2016
- 8 Core Processor
- 32 GB RAM
- 200 GB Hard Drive
- ImageRight Installer Service required for automated upgrades

## Audit Service (optional)

- Windows Server 2019, 2016
- 8 Cores, 1 Processor
- 16 GB RAM
- 200 GB Hard Drive
- SQL Server 2019, 2016, 2014

## Master Utility Servers (optional)

- Windows Server 2019, 2016
- Dual Xeon 2 GHz CPUs
- 8 GB RAM
- 120 GB Hard Drive
- Microsoft .NET Framework 4.8
- Latest Windows Updates
- \*\*Delivery Service (outgoing fax)
- \*\*Email Receiver Service – Secure POP3 required
- PDF Reader
- \*\*Import Service – PDF Reader
- \*\*Web Service – Microsoft IIS version 8 or later
- ImageRight Installer Service required for automated upgrades
- \*\*Microsoft Office 2019, 2016

## Non-ImageRight Components (optional)

### Fully Integrated Fax Solutions

- RightFax 20.2

### Email Receiver Service

- POP3/Secure POP3 on Microsoft Exchange
- POP3 OAuth 2.0 MS
- Microsoft Graph
- EWS 2019, 2016

## Business Process Analytics Extract (optional)

- Powershell 3.0
- The Powershell execution policy must be set to a minimum of Unrestricted
- The user account running the scheduled task created by the initial install and scheduled task needs full permissions to the install directory by default (C:\ProgramData\ImageRight) as well as the subfolder (C:\ProgramData\ImageRight\Process Analytics)
- SQL client tools

*Data is extracted on a nightly basis, zipped, and transferred to the Vertafore data center via SFTP. The data is loaded to a customer-specific database and accessed through a shared application.*

# ImageRight 7.1 Hardware Map: Notes

- Detailed hardware specifications shown are the minimum recommended. Server hardware specifications should be modified to meet the customer's needs.
- A test system (PC capable of virtualizing the servers/services and up to five Desktop/Scanner licenses) is recommended for customers running imports or integration services.
- Windows Communication Foundation (WCF) is used for image retrieval. The effectiveness of WAN optimization and network acceleration technologies may be affected resulting in reduced compression capabilities and higher bandwidth utilization.
- ImageRight Application Server, Desktop, Web Client, ImageRight Enterprise Management Center (IEMC), IR Connect, Installer Server, Image Service, Workflow Studio, and Vault service require Certificate Authority issued SSL certificates.

# ImageRight 7.1 Hardware Map: User Access Control (UAC)

## Installing Applications with UAC Enabled

With recent ImageRight releases, we have worked to ensure our applications install and interact with UAC properly.

All the ImageRight client application installation files can be initiated by a user or administrator. The account installing the application must have administrator rights to continue. If a non-administrator initiates the installation, a UAC prompt will allow proper credentials to be entered.

For the following applications, the installation process can be initiated from an elevated command prompt or from the ImageRight splash screen:

- AMS360 Data Sync
- Sagitta Data Sync
- Browser Server
- iCon