ImageRight 6.9 Hardware Map: Basic Structure

**ImageRight Installer**
- Server/Service and Database
  - Supports ImageRight automated upgrades.

**ImageRight Browser Server**
- Vertafore Image Service

**ImageRight Core**
- Database Server
  - ImageRight Database
- Master Application Server
  - Redaction Recognition (Optional)
  - Requires Event Store Service and Text Extractor Service
- Storage
  - Primary Image Storage
  - Cache Device (Optional)

**Shared Resources**
- RetroEventer
- Event Store Service (Optional)
- Text Extractor Service (Optional)
- Search Service & Elasticsearch (Optional)

**Audit Service**
- (Optional)
  - Note: If Event Store Service is already installed as part of the Full Text Search module, it can be reused for Audit Service. Otherwise, it needs to be installed specifically for Audit Service.

**Full Text Search**
- (Optional)
  - Requires Event Store Service, Text Extractor Service, and Search Service & Elasticsearch

**Business Process Analytics**
- (Optional)
  - Data is extracted on a nightly basis, zipped and transferred to the Vertafore data center via SFTP.

**Master Utility Servers**
- (Optional)
  - Email receiver service
  - Delivery service (outgoing fax)
  - Import service
  - Burner service
  - Web service

**User**
- Scanning stations
- Client workstations
# ImageRight 6.9 Hardware Map: Detailed specifications

## User PCs
- Windows 10 – 32/64-bit
- 2.0 GHz processor
- 4 GB RAM
- 128 MB video card (1024x768 min. resolution, 1280x800 min. resolution if using Browser Client)
- Microsoft Office 2019 (64-bit and 32-bit), Office 365 (64-bit and 32-bit), 2016 (32-bit), 2013 (32-bit)
- Adobe Reader DC; Acrobat Pro/Standard DC
- 19” dual monitors recommended
- Microsoft .NET Framework 4.7.1
- Browser Client-compatible web browsers: Internet Explorer 11, 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 10 – 32/64-bit
- Microsoft .NET Framework 4.7.1
- ImageRight Installer Service required for automated upgrades

## Certified Scanners
### Kodak
- All scanners shown below support:
  - Windows 10 32/64-bit, Intel Core 2 Duo processor, 3-4 GB RAM, USB 2.0
  - i2620
  - i3200
  - i3400
  - i4250
  - i4650
  - i4850

### Fujitsu
- All scanners shown below support:
  - Windows 10 32/64-bit, no VRS, USB 2.0
  - P4-3.2 GHz, 3-4 GB RAM, USB 2.0
  - fi5950
  - fi6400
  - fi6670
  - fi6800
  - fi7180

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ImageRight 6.9 Hardware Map: Detailed specifications

**ImageRight core**
250 or fewer users

**Database server**
- Windows Server 2016
- Windows Server 2012 R2
- 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 4.7.1

**Databases**
- Oracle 12c (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 2016
- Windows Server 2012 R2
- Quad Xeon 2.2 GHz CPUs
- 8 GB RAM
- Physical or VM server
- 100-200 GB available hard drive storage
- Microsoft .NET Framework 4.7.1
- Microsoft Message Queuing
- 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 2016
- Windows Server 2012 R2
- Intel Xeon 2.66 GHz processors (2x quad core)
- 32 GB RAM
- RAID controller
- C:/ partition for operating system
- Second partition 200-500 GB (RAID 5) available for database storage
- Microsoft .NET Framework 4.7.1

**Databases**
- Oracle 12c (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 2016
- Windows Server 2012 R2
- Intel Xeon 2.83 GHz CPUs (2x quad core)
- 8 GB RAM
- Physical or VM server
- 100-200 GB available hard drive storage
- Microsoft .NET Framework 4.7.1
- Microsoft Message Queuing
- 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 SAN device
- 1 Gbps
- Size dependent on initial image storage estimates
- Initial 1 TB minimum recommended
### ImageRight 6.9 Hardware Map: Detailed specifications

#### ImageRight Browser Server
- Windows Server 2016, 2012 R2
- Quad Core Xeon 2.2 GHz Processor
- 8 GB RAM
- 100 GB available hard drive storage
- RAID Controller, RAID 5
- Microsoft .NET Framework 4.7.1
- Windows Identity Foundation 3.5 (on the web 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 2012 R2
- ADFS 2.1
- 8 GB RAM
- 160 GB available hard drive storage
- Dual Xeon GHz CPUs
- Microsoft .NET Framework 4.7.1
- Windows Identity Foundation 3.5

#### ImageRight Installer Server/Service
Supports ImageRight Upgrades
- Windows Server 2016, 2012 R2
- IIS 7.5 and later – ASP .NET
- Microsoft .NET Framework 4.7.1
- WCF Activation enabled
- User with administrator rights
- Supported browsers for Administration Console: Internet Explorer 11 and 10, Firefox, Google Chrome
- Microsoft SQL Server 2017, 2016, 2014
- Oracle 11g and later, ODAC 12c Release 3 and latest version JDK

May be installed on the Business Process Intelligence Server.

#### Shared Resources (Optional)
- Text Extractor Service
  - Version 19.1
  - Windows Server 2016, 2012 R2
  - 8 Cores, 4 Processors
  - 32 GB RAM
  - 200 GB Hard Drive

- Event Store Service
  - Version 19.1
  - Windows Server 2016, 2012 R2
  - Intel Core i3 - 4130 3.4 GHz (3MB cache)
  - Dual gigabit LAN
  - Single CPU, 240 GB SSD
  - 32 GB RAM
  - 2 TB 7200rpm HDD

- Search Service & Elasticsearch
  - Version 19.1
  - Windows Server 2016, 2012 R2
  - Intel Xeon or equivalent (4 processors)
  - 16 GB RAM
  - 500 GB Hard Drive
  - 8 Core, 4 Processors

- Audit Service (Optional)
- Windows Server 2016, 2012 R2
- 8 Cores, 1 Processor
- 16 GB RAM
- 200 GB Hard Drive

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**RetroEventer**
- RetroEventer is a one-time use application that populates the historical foundation of Event Store and must be run prior to using Audit Service, Full Text Search, and Redaction Recognition.
- It can be installed and run on any ImageRight Server assuming it can connect to the ImageRight production database and the Event Store.
- Running RetroEventer during business hours can cause performance issues. It should only be run after business hours.

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**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 install needs a minimum of “Log on as a service” local security policy permission.
- The user account running the install and scheduled task needs full permissions to the install directory by default (C:\ProgramData\ImageRight) as well as the subfolder (C:\ProgramData\ImageRight\ProcessAnalytics).
- 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.

**Non-ImageRight Components**

**Fully Integrated Fax Solutions**
- OpenText RightFax (formerly Captaris)
- FacSys
- OpenText FaxPress (formerly Castelle)
- ZetaFax

**E-Mail Receiver Service**
- Requires: POP3/Secure POP3 on Microsoft Exchange or Lotus Notes.

**Digital Signatures**
- Supported with Topaz SigLite e-Signature pad.

**Master Utility Servers**

*Optional*

- Windows Server 2016, 2012 R2*
- Dual Xeon 2 GHz CPUs
- 8 GB RAM
- 120 GB hard drive storage
- Microsoft .NET Framework 4.7.1
- Latest Windows updates
- Burner Service (CD/UDO)
  - If upgrading to ImageRight 6.9, Centera is no longer supported.
- **Delivery Service (outgoing fax)**
- **E-Mail Receiver Service – Secure POP3 required, PDF reader.**
- **Import Service – PDF reader.**
- **Web Service – Microsoft IIS, v. 6 compatible**
- ImageRight Installer Service required for automated upgrades

* Server 2012 is not certified for Burner Service
** Microsoft Office 2016 (64-bit), 2013 (64-bit)
• 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.

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 install, a UAC prompt will allow proper credentials to be input.

For the applications below, the installation process can be initiated from an elevated command prompt or the ImageRight splash screen can be used.

- AMS360 Data Sync
- Sagitta Data Sync
- Browser Server
- Email Receiver
- Import Service
- Delivery Service
- Device Merge Utility
- PreMigration Analyzer
- Migration Utility
- ReConversion Utility
- iCon