

# System Requirements

# Windows Server

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Version 7.4

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### Presentation

Orange table rows show, which values have changed since last version.

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# 1 Application Server

The application server provides the BrandMaker functionality. Except of the BrandMaker application and the additional application components no other applications are allowed to be installed.

If your system does not fulfil the following requirements, you may experience functional limitations in the BrandMaker application.

<b>Server</b>	*.yourdomain.com (Only one URL is supported.)
<b>Certificate</b>	SSL Certificate to secure the communication (mandatory)
<b>Standard Ports</b>	Incoming: HTTPS-Port 443   HTTP-Port 80 redirected to Port 443 Outgoing: SMTP 25 Outgoing: HTTP and HTTPS requests, direct or via transparent proxy server (no auth. proxy) Incoming internal: Application Server Debug-Port 64123 Incoming internal: JMX Incoming internal: SNMP Incoming internal: Elasticsearch-Port 9200 Incoming internal: CIFS Ports 137, 138, 139, 445 Outgoing internal: MySQL 3306, MS SQL 1433 Outgoing internal: BrandMaker Rendering-Port 5500+n (instances)
<b>Supported operating mode</b>	Virtual machine or hardware-based server
<b>Supported operating systems</b>	Windows Server 2016
<b>Processor</b>	CPU: 4 Cores, 2,5 GHz or higher
<b>Main memory</b>	at least 20 GB RAM
<b>Memory requirement</b>	at least 100 GB for applications and log files
<b>Local data base</b>	Additionally at least 16 GB RAM Additionally at least 100 GB HDD for database files
<b>Network connectivity</b>	1 GBit/s
<b>Internet connection</b>	at least 100 MBit/s

## 2 Rendering Server

Rendering Server is only required for Adobe InDesign and document conversion support. Brand Template Builder and Rendering-Performance depend on hardware performance of rendering server. At most 3 Adobe InDesign rendering instances are supported with described system requirements.

<b>Supported operating mode</b>	Hardware-based server
<b>Supported operating systems</b>	Windows Server 2016
<b>Processor</b>	CPU: 4 Cores, 2,5 GHz or higher
<b>Memory requirement</b>	at least 16 GB RAM; plus 2-8 GB per additional instance
<b>HDD requirement</b>	at least 100 GB for applications and log files
<b>Standard ports</b>	Outgoing internal: CIFS Ports 137, 138, 139, 445 Incoming internal: BrandMaker Rendering-Port 5500+n (instances)
<b>Througput</b>	ca. 100 rendering jobs/400 pages per hour
<b>Network connectivity</b>	1 GBit/s
<b>Adobe InDesign Server</b>	CS 6, CC 2014 (10.x), CC 2015 (11.x), CC 2017, CC 2018, CC 2019, CC 2020, CC 2021
<b>Adobe Flash Player</b>	Not supported
<b>Microsoft Office</b>	Microsoft Office 2013 (Word, Excel, PowerPoint) installed and licensed
<b>Internet connection</b>	Internet connection and registration are required for software activation, membership validation, and access to online services.

### 3 Dedicated Database Server

<b>Supported operating mode</b>	Hardware-based server
<b>Database</b>	MS SQL Server 2016 SP2, MS SQL 2019
<b>Processor</b>	CPU: 4 Cores, 2,5 GHz or higher
<b>Memory requirement</b>	at least 16 GB RAM
<b>HDD requirement</b>	at least 100 GB for database files
<b>Network connectivity</b>	1 GBit/s
<b>Standard ports</b>	Incoming internal: MS SQL 1433
<b>MS SQL – JDBC – Driver</b>	8.4.0.jre8

### 4 Media Asset File Share

<b>Storage requirement</b>	at least 250 GB
<b>Network connectivity</b>	1 GBit/s respectively at least 80 MB/s transfer speed
<b>Network connection mode</b>	SMB (/CIFS) 3.0 or local files system
<b>Files/Folder</b>	Support of at least 1 billion files/folder (like NTFS: $2^{32} - 1$ )

Please calculate the storage capacity generously, because the system stores preview data and cache files in addition to the media data. Please consider: Previews of files requires additional storage (image files +30 % and Office documents up to +150 %).

### 5 SMTP Server

The BrandMaker server needs access to a SMTP server. The e-mail distribution with specified e-mail sender address must be enabled.

## 6 Additional Application Components

The BrandMaker Marketing Efficiency Cloud has been developed and tested with below listed components and versions. No other versions or combinations are supported.

Component	Version
<b>Operating system</b>	Windows Server 2016
<b>Web Server</b>	Apache 2.4
<b>Application Server</b>	WildFly 10.1.0
<b>JDK</b>	Java 8 (OpenJDK Runtime Environment 1.8 from AdoptOpenJDK)
<b>Document Convertor</b>	Neevia Document Converter Pro 6.8
<b>Video Transcoding</b>	FFmpeg 2.5.2
<b>Image Processing</b>	ImageMagick 6.8.9
<b>PostScript Interpreter</b>	GhostScript 9.06
<b>PDF-to-X</b>	poppler-utils 0.26.1 (pdftocairo)
<b>Content Management System</b>	Magnolia EE 6.2.2
<b>Metadata Processing</b>	ExifTool 12.30
<b>Adobe InDesign Server</b>	CS 6, CC 2014 (10.x), CC 2015 (11.x), CC 2017, CC 2018, CC 2019, CC2020, CC2021
<b>Reporting</b>	Jaspersoft Enterprise Server 7.1.0
<b>Reporting</b>	Tableau Server, Version 2020.4.0 Linux Note: for on-premises please contact BrandMaker
<b>Web Page Preview Service</b>	wkhtmltopdf 0.12.5
<b>Web Processing</b>	PhantomJS 2.1.1 Puppeteer 4.0.0
<b>Search Engine</b>	Elastic Search 1.7.3
<b>Language Center</b>	Across 6.4
<b>Web Text Editor</b>	CKEditor 4.7.2 (embedded)
<b>Docker Runtime</b>	18.x. For running containers

<b>Component</b>	<b>Version</b>
<b>Workflow Engine Container</b>	Camunda 7.17
<b>Media System Service</b>	FileProcessor 1.4.0
<b>Media System Service</b>	FileUploadService 1.1.0
<b>Product Container</b>	Wildfly
<b>HTTP Server Container</b>	Apache HTTP
<b>Search Container</b>	Elastic Search
<b>Message Broker</b>	Artemis 2.11.0
<b>Identity and Access Management Container</b>	KeyCloak 16.1.0
<b>Service Adapter</b>	Mediasystem Service Adapter 1.1.1