

7 JULY 2025

# Claris FileMaker 2025

System Requirements

CONFIDENTIAL

**Under Embargo until July 8, 2025**





## QA Testing Specifications:

Platform	Version	FM Pro 22.0.1	FM Server 22.0.1
macOS	macOS Sequoia 15 - Apple Silicon & Intel	Install Certify	Install Certify
	macOS Sonoma 14 - Apple Silicon & Intel	Install Certify	Install Certify
Windows	Windows 11 Enterprise and Pro Editions (64-bit only) (24H2)	Install Certify	Not Tested
	Windows 10 Enterprise and Pro Editions (64-bit only) (22H2)	Install Certify	Not Tested
	Windows Server 2022	Not Tested	Install Certify
	Windows Server 2019	Not Tested	Install Certify
Linux	Ubuntu 24.04 LTS Server (ARM, AMD)	NA	Install Certify
	Ubuntu 24.04 LTS Desktop* (ARM, AMD)	NA	Install Certify
	Ubuntu 22.04 LTS Server (ARM, AMD)	NA	Install Certify
	Ubuntu 22.04 LTS Desktop* (ARM, AMD)	NA	Install Certify

\*Ubuntu Desktop is compatible with FileMaker Server 22, but has not been fully tested.



## Languages and regions/data centers supported

FileMaker 22 Clients - Pro, Go, WebDirect	FileMaker Server 22	Claris Customer Console (CCC)	FileMaker Cloud 2.22.x
Worldwide English, French, Italian, German, Swedish, Japanese, Dutch, Spanish, Simplified Chinese, Korean, and Brazilian Portuguese.	Worldwide English, French, Italian, German, Spanish, and Japanese.	Replicate same country-language comdo as Store (57 country-language combo's across 12-languages  Chinese   Dutch   English   French   German   Italian   Japanese   Korean   Portuguese   Spanish   Swedish   <a href="#">Canadian French</a>	Worldwide English  CAC: Worldwide English, French, Italian, German, Japanese, Spanish, and <a href="#">Canadian French</a>  CCC: Worldwide English, French, Italian, German, Swedish, Japanese, Dutch, Spanish, Simplified Chinese, Korean, Brazilian Portuguese, and <a href="#">Canadian French</a>  CID: Worldwide English, French, Italian, German, Swedish, Japanese, Dutch, Spanish, Simplified Chinese, Korean, Brazilian Portuguese, and <a href="#">Canadian French</a>  <b>Regions/Data Centers</b>  US East (N.Virginia) US West (Oregon) Ireland Frankfurt Tokyo Sydney <a href="#">Canada</a>



## Network Compatibility (Interoperability)

- Some features may not be fully backward compatible
- License certificate types can influence behavior between client and server versions
  - See the [FileMaker 22 License Certificates and License Keys](#) for more information

Host	FileMaker Pro	FileMaker Go/iOS App SDK	FileMaker WebDirect
FMS 22.0.1	22.x, 21.x		FMS 22.0.1
FM Pro 22.0.1	22.x, 21.x		N/A
FM Cloud 2.22.0.1	22.x, 21.x		FM Cloud 22.0.1

## Upgrade Paths

Pro 22.0.1 - Upgrade path(s) Sparkle (Mac/Win)	21.x
Pro 22.0.1 - Upgrade path(s) (Mac standalone updater)	21.x
Pro 22.0.1 - Upgrade path(s) (Win standalone updater)	21.x
Pro 22.0.1 - Paid Upgrade (Win installer)	20.x, 21.x
Pro 22.0.1 - Paid Upgrade (Upgrade with FG license from previous version in trial)	20.x, 21.x
Server 22.0.1	18, 19, 20, 21.x
Go 22.0.1	Any Go 21 customer
Cloud 2.22.0.1	2.21.x





## Operating System by Platform

		22.0	
Product	Platform	Supported OS	Dropped
Pro	Mac	macOS Sequoia 15 macOS Sonoma 14	
	Windows	Windows 11 (24H2) Windows 10 (22H2)	
Go	iPad	Minimum - iOS 17 and iPadOS 17	
	iPhone	iOS 18 and iPadOS 18 <a href="https://support.apple.com/en-us/HT213411">https://support.apple.com/en-us/HT213411</a>	
iOS App SDK		Xcode version: Xcode 16	
Server	Mac	macOS Sequoia 15 macOS Sonoma 14	
	Linux	<a href="#">Ubuntu 24.04 LTS AMD, ARM</a> Ubuntu 22.04 LTS AMD, ARM	<a href="#">Ubuntu 20.04 LTS</a>
	Windows	Windows Server 2022 Datacenter (with Desktop Experience)* Windows Server 2022 Standard Edition (with Desktop Experience) Windows Server 2019 Datacenter (with Desktop Experience)* Windows Server 2019 Standard Edition (with Desktop Experience) *Windows Server Datacenter works but isn't fully tested.	
Cloud	Linux Ubuntu	Ubuntu 22.04	



### Browsers

FMP Web-Based Help	Server Admin Console	CCC / CAC	WebDirect Desktop	WebDirect Mobile
Safari 18	Safari 18	Safari 18	Safari 18	Safari on iOS 18
Chrome 135 Edge Chromium 135	Chrome 135 Edge Chromium 135	Chrome 135 Edge Chromium 135	Chrome 135 Edge Chromium 135	Chrome 135 on Android

### Hardware Requirements

FileMaker Pro		
	Minimum	Recommended
Windows	<b>CPU:</b> Intel or AMD, <b>RAM:</b> 2 GB	<b>CPU:</b> Intel or AMD, <b>RAM:</b> 4 GB or more
macOS	<b>CPU:</b> Intel/Apple Silicon, <b>RAM:</b> 4 GB	<b>CPU:</b> Intel/Apple Silicon, <b>RAM:</b> 8 GB or more

FileMaker Server for Mac - Primary Machine		
Minimum - Mac mini	Better - Mac Studio	Best - Mac Pro
<ul style="list-style-type: none"><li>• <b>CPU:</b> Apple Silicon Chip with 8-Core CPU or Intel Core i5</li><li>• <b>RAM:</b> 8 GB or more</li><li>• <b>Hard Drive:</b> 512 GB Solid State Drives (SSD) Storage or more, with a minimum of 20% of free drive space.</li><li>• <b>Network:</b> Gigabit Ethernet</li></ul>	<ul style="list-style-type: none"><li>• <b>CPU:</b> Apple Silicon Chip with 12-Core CPU</li><li>• <b>RAM:</b> 32 GB or more</li><li>• <b>Hard Drive:</b> 512 GB Solid State Drives (SSD) Storage or more, with a minimum of 20% of free drive space.</li><li>• <b>Network:</b> 10 Gigabit Ethernet</li></ul>	<ul style="list-style-type: none"><li>• <b>CPU:</b> Apple Silicon Chip with 24-Core CPU</li><li>• <b>RAM:</b> 64 GB or more</li><li>• <b>Hard Drive:</b> 1 TB Solid State Drives (SSD) Storage or more, with a minimum of 20% of free drive space.</li><li>• <b>Network:</b> 10 Gigabit Ethernet</li></ul>

Note: Laptops are not recommended with FileMaker Server.



FileMaker Server for Windows and Linux - Primary Machine		
Minimum	Better	Best
<ul style="list-style-type: none"><li>• <b>CPU:</b> 4 Core</li><li>• <b>RAM:</b> 8 GB or more</li><li>• <b>Hard Drive:</b> 512 GB Solid State Drives (SSD) Storage or more, with a minimum of 20% of free drive space.</li><li>• <b>Network:</b> Gigabit Ethernet</li></ul>	<ul style="list-style-type: none"><li>• <b>CPU:</b> 8 Core</li><li>• <b>RAM:</b> 16 GB or more</li><li>• <b>Hard Drive:</b> 512 GB Solid State Drives (SSD) Storage or more, with a minimum of 20% of free drive space.</li><li>• <b>Network:</b> Gigabit Ethernet</li></ul>	<ul style="list-style-type: none"><li>• <b>CPU:</b> 16 Core</li><li>• <b>RAM:</b> 32 GB or more</li><li>• <b>Hard Drive:</b> 1 TB Solid State Drives (SSD) Storage or more, with a minimum of 20% of free drive space.</li><li>• <b>Network:</b> Gigabit Ethernet</li></ul>

Note: Laptops are not recommended with FileMaker Server.

FileMaker Server for Linux Ubuntu 22.04 using Nginx - Secondary Machine*		
Minimum	Better	Best
<ul style="list-style-type: none"><li>• <b>CPU:</b> 2 Core</li><li>• <b>RAM:</b> 8 GB or more</li><li>• <b>Hard Drive:</b> 256 GB Solid State Drives (SSD) Storage or more</li><li>• <b>Network:</b> Gigabit Ethernet</li><li>• <b>Number of WebDirect Connections:</b> 50</li></ul>	<ul style="list-style-type: none"><li>• <b>CPU:</b> 4 Core</li><li>• <b>RAM:</b> 8 GB or more</li><li>• <b>Hard Drive:</b> 256 GB Solid State Drives (SSD) Storage or more</li><li>• <b>Network:</b> Gigabit Ethernet</li><li>• <b>Number of WebDirect Connections:</b> 120</li></ul>	<ul style="list-style-type: none"><li>• <b>CPU:</b> 8 Core</li><li>• <b>RAM:</b> 16 GB or more</li><li>• <b>Hard Drive:</b> 512 GB Solid State Drives (SSD) Storage or more</li><li>• <b>Network:</b> Gigabit Ethernet</li><li>• <b>Number of WebDirect Connections:</b> 150</li></ul>

FileMaker Server for Windows or Mac using IIS or Apache - Secondary Machine*		
Minimum	Better	Best
<ul style="list-style-type: none"><li>• <b>CPU:</b> 2 Core</li><li>• <b>RAM:</b> 8 GB or more</li><li>• <b>Hard Drive:</b> 256 GB Solid State Drives (SSD) Storage or more</li><li>• <b>Network:</b> Gigabit Ethernet</li><li>• <b>Number of WebDirect Connections:</b> 50</li></ul>	<ul style="list-style-type: none"><li>• <b>CPU:</b> 4 Core</li><li>• <b>RAM:</b> 8 GB or more</li><li>• <b>Hard Drive:</b> 256 GB Solid State Drives (SSD) Storage or more</li><li>• <b>Network:</b> Gigabit Ethernet</li><li>• <b>Number of WebDirect Connections:</b> 100</li></ul>	<ul style="list-style-type: none"><li>• <b>CPU:</b> 8 Core</li><li>• <b>RAM:</b> 16 GB or more</li><li>• <b>Hard Drive:</b> 512 GB Solid State Drives (SSD) Storage or more</li><li>• <b>Network:</b> Gigabit Ethernet</li><li>• <b>Number of WebDirect Connections:</b> 100</li></ul>

\*Requirements are per installation environment of FMS



Text generation model support requirements

Text Generation Models with Tool Calling:

Supported	Dropped
<div>OpenAI</div> <ul style="list-style-type: none"><li>gpt-4o</li></ul> <div>Cohere</div> <ul style="list-style-type: none"><li>command-r-plus</li></ul> <div>Anthropic</div> <ul style="list-style-type: none"><li>claude-3-7-sonnet-latest</li><li>claude-3-5-haiku-latest</li></ul> <div>Open Source</div> <ul style="list-style-type: none"><li>google/gemma-3-12b-it</li></ul>	

Text Generation Models:

Supported	Dropped
<div>OpenAI</div> <ul style="list-style-type: none"><li>gpt-4o</li></ul> <div>Cohere</div> <ul style="list-style-type: none"><li>command-r-plus</li></ul> <div>Anthropic</div> <ul style="list-style-type: none"><li>claude-3-7-sonnet-latest</li><li>claude-3-5-haiku-latest</li></ul> <div>Open Source</div> <ul style="list-style-type: none"><li>google/codegemma-7b-it</li><li>google/gemma-3-12b-it</li></ul>	



## Vector embeddings and semantic search support requirements

### Text Embedding Models:

Supported	Dropped
OpenAI <ul style="list-style-type: none"><li>text-embedding-3-small</li><li>text-embedding-3-large</li></ul> Open Source <ul style="list-style-type: none"><li>all-MiniLM-L12-v2</li><li>multi-qa-MiniLM-L6-cos-v1</li></ul> Cohere <ul style="list-style-type: none"><li>embed-english-v3.0</li><li>embed-multilingual-v3.0</li></ul>	text-embedding-ada-002

### Text & Image Embedding Models:

Supported	Dropped
Open Source <ul style="list-style-type: none"><li>clip-ViT-L-14</li><li>clip-ViT-B-32</li><li>clip-ViT-B-32-multilingual-v1</li></ul>	

Note: Normalized vector embeddings are required. All embeddings must be generated from the same model to ensure compatibility and performance; mixing embeddings from different models is not supported.



AI Model server minimum hardware

	Windows & Ubuntu	macOS
Text/Image Embedding	<b>CPU:</b> Intel Xeon or AMD Zen 4, 5 series, with AVX2, or AVX512 <b>RAM:</b> 16 GB	<b>CPU:</b> Apple Silicon <b>RAM:</b> 16 GB
Text Generation/Fine-tuning*	<b>CUDA GPU required</b> <b>CPU:</b> Intel Xeon or AMD Zen 4, 5 series, with AVX2, or AVX512 <b>GPU:</b> Nvidia RTX 4090 or Nvidia A10, with combined VRAM of 32 GB or more <b>RAM:</b> 32 GB	<b>CPU:</b> Apple Silicon Ultra <b>RAM:</b> 64 GB

Note: Fine-tuning only available on Apple Silicon. Running more than one fine-tuning job may affect system performance.

Desktop supported keyboard input

Windows	macOS
<ul style="list-style-type: none"><li>• For Japanese Microsoft IME, and ATOK Pro 5</li><li>• For Korean and Simplified Chinese, Microsoft IME</li><li>• built-in Microsoft keyboard for other languages not specified above</li></ul>	<ul style="list-style-type: none"><li>• For Japanese, Japanese input method, and ATOK 2024</li><li>• For Korean, 2-Set Korean input method</li><li>• For Simplified Chinese, Pinyin - Simplified Chinese input method</li><li>• built-in Input method keyboard for other languages not specified above</li></ul>



## Web Publishing Recommended Hardware Configurations

Number of FileMaker WebDirect User Connections clients	Recommended FileMaker Server configuration
1-100*	Single-machine deployment for macOS or Windows.
1-120*	Single-machine deployment for Linux.
101-1000*	Multiple-machine deployment, each secondary machine serves a maximum of 150 FileMaker WebDirect clients for Linux.

\*Connections may be limited by hardware, custom app design, license, and other variables.

## WebDirect Mobile hardware requirements

Platform	Supported Device	Dropped
iPad	Memory: 2 GB RAM or greater CPU: 2.39 GHz hexa-core 64-bit	Note: matches <a href="https://apple.com">apple.com</a>
iPhone	Memory: 2 GB RAM or greater CPU: 2.39 GHz hexa-core 64-bit	Note: matches <a href="https://apple.com">apple.com</a>
Android	Memory: 3 GB RAM or greater CPU: 2.1GHz Quad-Core processor or greater	Note: matches <a href="https://apple.com">apple.com</a>



## WebDirect Mobile supported keyboard input

- For Japanese Google IME (Android) and ATOK (Android & iOS)
- For Korean and Simplified Chinese, Google IME (Android)
- built-in iOS keyboard for other languages not specified above
- built-in Android keyboard for other languages not specified above

## FileMaker WebDirect mobile hardware accessories

- Smart Keyboard support for iPad Pro
- Apple Pencil support for iPad Pro

## Mobile Network Requirements

Supported mobile networks			
Wi-Fi	LTE	4G	5G





## Capacities

The table below lists the tested and theoretical maximum simultaneous connection limits for FileMaker Server 22. Tested maximums reflect the test configuration and do not represent a guarantee of performance.

FileMaker Server 22***		
Client	Tested**	Maximum Allowed**
Pro	500	2000
Go	500	500
Custom Web Publishing (CWP)*	500	2000
WebDirect	See below table	1000
Data API / OData	500	1000
ODBC/JDBC	50	Unrestricted



Web Server	Tested	Maximum Allowed
macOS (Apache)	500	500
Windows (IIS)	500	500
Ubuntu (NginX with Load Balancer)	1000	1000

FileMaker Cloud 2. 21.1.1 ***		
Client	Tested**	Maximum Allowed**
Pro	250	2000
Go	100	100
WebDirect	100	100
Data API / OData	100	100



## Instance Types

Instance types vary depending on the amount of processing power, memory, and networking capacity needed to run your custom apps. Here are the available options:

Essentials plan (5-10 Users)*					
Number of users	Type	CPU	Memory	EBS	Hosting Limit
5 to 10 Users	Large (t3a.large)	2	8 GB	2 GB of FileMaker Data Storage per user/per year	3 apps

\* No upgrades available

Standard plan (5-99 Users)					
Number of users	Type	CPU	Memory	EBS	Hosting Limit
5 to 9 Users	Large (t3a.large)	2	8 GB	6 GB of FileMaker Data Storage per user/per year	125 apps
10 to 39 users	x Large (t3a.xlarge)	4	16 GB	6 GB of FileMaker Data Storage per user/per year	125 apps
40 to 99 users	2x Large (t3a.2xlarge)	8	32 GB	6 GB of FileMaker Data Storage per user/per year	125 apps
100+	2x Large (t3a.2xlarge)	8	32 GB	6 GB of FileMaker Data Storage per user/per year	125 apps



## Additional Requirements

Technology	Requirements	Dropped
Java*	<u>JDK 17</u>	
Miniforge*	<a href="#">24.11.3-2</a>	
Networking	TCP/IP Each FileMaker Pro client requires a licensed copy of the software. Mobile clients support WiFi, LTE, 4G, and 5G	
<b><u>Supported ESS Data Sources</u></b>	<ul style="list-style-type: none"><li>• MS SQL Server 2019</li><li>• <a href="#">MySQL Community Server 8.4.2 LTS</a> (GPL)</li><li>• Oracle 19c</li><li>• IBM i 7.3 (AS/400) (via Actual Technologies Adapter)</li><li>• IBM DB2 11.5.8 (via Actual Technologies Adapter)</li><li>• <a href="#">PostgreSQL 16.4</a> (via Actual Technologies Adapter)</li></ul> <p>A new page is created and updated by the team for every release for Marketing use: <a href="#">FM 19.4 and higher ESS/ODBC List of Certified Drivers</a></p>	



<b>ODBC Drivers*</b>	<p><b>macOS</b></p> <ul style="list-style-type: none"><li>• Actual SQL Server 5.1.12</li><li>• Actual Open Source Databases 5.1.12</li><li>• Actual Oracle 5.1.12</li><li>• Actual Technologies Adapter version 1.7.1 for use with:<ul style="list-style-type: none"><li>◦ Actual ODBC Driver for Open Source Databases 5.1.12 (PostgreSQL)</li></ul></li></ul> <p><b>Windows</b></p> <ul style="list-style-type: none"><li>• Recommendation is to use the up-to-date Driver due to security updates</li><li>• Microsoft ODBC Driver 18 for SQL Server (version 18.2.1.1, 64-bit)</li><li>• MySQL ODBC 8.0 Unicode Driver (version 8.4.0, 64-bit)</li><li>• Oracle Instant Clients ODBC 19</li><li>• Actual Technologies Adapter version 1.7.1 for use with:<ul style="list-style-type: none"><li>◦ IBM iSeries Access ODBC Driver 13.00.01.00</li><li>◦ IBM DB2 ODBC Driver 11.5.8000.317</li><li>◦ PostgreSQL ODBC Driver (Unicode) 16.00.0000 (Latest)</li></ul></li></ul> <p><b>Ubuntu</b></p> <ul style="list-style-type: none"><li>• SQL Server: Microsoft ODBC 18</li><li>• MySQL: Connector/ODBC 8.4</li><li>• Oracle: Instant Clients ODBC 19</li></ul>	
<b>ODBC - Third-party client</b>	<p><u>First Priority</u></p> <p>MS Excel 365 for Win/macOS</p> <p>MS Word 365 for Win</p> <p><u>Second Priority</u></p> <p>Pyodbc</p> <ul style="list-style-type: none"><li>◦ <a href="https://github.com/mkleehammer/pyodbc">https://github.com/mkleehammer/pyodbc</a></li></ul>	
<b>JDBC - Third-party client</b>	<p>Squirrel SQL</p> <p>DBSchema</p>	



<b>Security</b>	<p>Supports AES-256 encryption of data at rest when the database files are encrypted by FileMaker's encryption functionality. Sharing, reading from, and writing to AES-256 encrypted files is supported by all products in the FileMaker 19 Platform.</p> <p>Supports SSL with AES-256 encryption of data in transit when the database files are hosted with FileMaker Server 19.6.4 or later.</p> <p>Supports SSL ciphers</p> <p>TLS v1.2:</p> <ul style="list-style-type: none"><li>• TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256(secp521r1)</li><li>• TLS_ECDHE_RSA_MITH_AES_256_GCM_SHA34(seco521P1)</li><li>• TLS_ECDHE_RSA_NITH_AES_256_CBC_SHA384(secp521r1)</li><li>• TLS_RSA_WITH_AES_128_GCM_SHA256 (rsa 2048)</li><li>• TLS_RSA_MITH_AES_256_GCM_SHA384 (rsa 2048)</li></ul> <p>Supports third-party Certificate Authority (CA) SSL certificate vendors.</p>	
<b>Microsoft .NET</b>	For Windows, FileMaker Pro requires Microsoft .NET framework version 4.8 or later.	
<b>Supported email</b>	<p><b>macOS</b></p> <ul style="list-style-type: none"><li>• (Apple) Mail</li><li>• Microsoft Outlook</li></ul> <p><b>Windows</b></p> <ul style="list-style-type: none"><li>• Microsoft Outlook</li></ul>	
<b>Supported Customizable OAuth Identity Providers</b>	In addition to the predefined providers (Amazon, Google, Microsoft Azure AD, Apple ID), FileMaker Server allows you to add a customizable provider.	



## Deprecated and Removed Technologies

### Features removed in 22.0 (publicly deprecated)

- Ubuntu 20
- FileMaker Server Web Data Connector

### Features deprecated 22.0

- mWPE ☒ [FMPD-48140](#) - announce deprecation of MWPE with 22.0 release **CLOSED**