



MOSEK Release notes
Release 12.0.0(BETA)

MOSEK ApS

29 September 2026

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Chapter 1

Supported platforms

Below are the **minimal requirements** for various **MOSEK** interfaces and operating systems.

In some cases using **MOSEK** with older versions of the software will be possible, but is neither actively supported nor tested.

Releasing new updates of **MOSEK** 12 may be discontinued for platforms / tool versions which reach their end of life during the support cycle of **MOSEK** 12.

Operating systems

Table 1.1: Operating systems

Platform	Minimal OS version	Specific library dependencies
linux64x86	RHEL 8, Ubuntu 20.04 or compatible	GLIBC 2.26, GLIBCXX 3.4.21
win64x86	Windows 10, Server 2016	
linuxaarch64	RHEL 8, Ubuntu 20.04 or compatible	GLIBC 2.27, GLIBCXX 3.4.22
osxaarch64	macOS 14.0	

Optimizer API and Fusion API

Table 1.2: Optimizer API and Fusion API (where available).

Platform	C	C++(Fusion)	Java	.NET	.NET Core	Python	Julia	Rust
linux64x86	Yes	C++11	1.8	–	netstandard2.0	3.11-3.15	1.10	1.85
win64x86	Yes	C++11	1.8	4.5	netstandard2.0	3.11-3.15	1.10	1.85
linuxaarch64	Yes	C++11	1.8	–	netstandard2.0	3.11-3.15	1.10	1.85
osxaarch64	Yes	C++11	17	–	netstandard2.0	3.11-3.15	1.10	1.85

API for MATLAB, Rmosek and other MOSEK tools

Table 1.3: Other APIs and tools.

Platform	API for MATLAB	Rmosek	OptServer	OptServerLight	Imgrd	Toolbox (old)
linux64x86	R2021a	4.1	Yes	Yes	Yes	R2019b
win64x86	R2021a	4.1	Yes	Yes	Yes	R2019b
linuxaarch64	–	4.1	–	Yes	Yes	–
osxaarch64	R2023b	4.1	–	Yes	Yes	R2023b

Other distribution channels

- pip package. <https://pypi.org/project/Mosek/>
- NuGet package. <https://www.nuget.org/packages/Mosek/>
- Julia package. <https://github.com/MOSEK/Mosek.jl>
- Rust package. <https://lib.rs/crates/mosek>
- Maven package. <https://central.sonatype.com/artifact/com.mosek/mosek>

Other remarks

- Numpy is required in Python Fusion.

Chapter 2

Major changes

Specific information regarding particular APIs, parameters and portability of code from version 11 can be found in the section *Interface changes* towards the end of the respective manual. This section lists general changes throughout **MOSEK**.

2.1 Release notes for 12.0

2.1.1 New features and improvements

Preprocessing

- Improved handling of slightly infeasible problems in presolve.
- For linear problems folding is employed if deemed worthwhile even if a basic solution is required.

New simplex optimizers

- The simplex optimizers have been completely rewritten to improve speed and robustness.
- The free simplex optimizer will run dual and primal simplex concurrently in a deterministic mode by default in multithreaded mode. If only one thread is available, then dual simplex is employed.

New linear interior-point optimizer and basis identification

- The interior-point optimizer for linear problems has been rewritten.
- The basis identification procedure has been rewritten from scratch to improve speed and stability. In particular the speed improvement can be significant for large and massively degenerate linear problems.
- The basis reoptimization step employs the parametric primal-dual simplex algorithm which improves robustness vastly when the initial interior solution is inaccurate. In particular, it is less sensitive to degeneration than using either the primal or dual simplex optimizer.

Mixed-integer optimizer

- Improved version of conflict analysis and better conflict handling in general.
- Improved symmetry reduction through better propagation algorithms and in some special cases the detection of orbitopes.
- Improved space and time efficiency of symmetry handling.
- Added heuristics that are not dependent on the existence of a solution to the root node relaxation.
- Improved detection of implied integer variables.

Packaging

- A cross-platform Maven Java artifact is available from <https://central.sonatype.com/artifact/com.mosek/mosek>. See the installation instructions for the Java Optimizer API or Fusion API for details.

Interfaces

- A simple API for constructing a problem with fixed integer variables, useful for computing shadow prices for mixed-integer models, is introduced in the Optimizer, Fusion and MATLAB APIs.

2.1.2 Major breaking changes

Optimizer

- The interior-point optimizer for linear problems will by default *only return the basic solution*, as opposed to the previous versions where both the interior-point and basic solution were returned. To get the old behavior the parameter `MSK_IPAR_REQUEST_INTPNT` must be set to `MSK_ON`.

Java

- The **MOSEK** package is now `com.mosek.mosek`, uniformly in the Maven artifact and the JAR file contained in the distribution.

2.1.3 Deprecations

- Conic constraints restricted to $x \in \mathcal{K}$ for a variable x are deprecated and will be removed in a future major version. Use affine conic constraints instead. This affects mainly the Optimizer API.
- The OPF file format for conic problems is deprecated in favor of PTF.
- The old **MOSEK** Optimization Toolbox for MATLAB remains supported, but will eventually be phased out and replaced by the new API.
- The `conda` package is deprecated and may be dropped in a future release. Consider `pip` instead.
- The optimizers with `DEPRECATED` in their name will be removed in version 13.

2.1.4 Removed features

Chapter 3

Known issues

Chapter 4

Bug fixes

12.0.0(BETA)

- First beta release of **MOSEK** 12.0. See release notes and the *Interface changes* section of your API manual for relevant information.