

MOSEK Release notes

Release 11.2.9

MOSEK ApS

20 November 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.

Operating systems

Table 1.1: Operating systems

Platform	Minimal OS version	Specific library dependencies
linux64x86	RHEL 8, Ubuntu 20.04 or compatible	`GLIBC 2.17`, `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 11	

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	3.9-3.14	1.6	1.59
win64x86	Yes	C++11	1.8	4.5	netstandard2.0	3.9-3.14	1.6	1.59
linuxaarch64	Yes	C++11	1.8	–	netstandard2.0	3.9-3.14	1.6	1.59
osxaarch64	Yes	C++11	17	–	netstandard2.0	3.9-3.14	1.6	1.59

API for MATLAB, Rmosek and other MOSEK tools

Table 1.3: Other APIs and tools.

Platform	API for MATLAB	Rmosek	OptServer	OptServerLight	lmgrd	Toolbox (old)
linux64x86	R2021a	3.6	Yes	Yes	Yes	R2019b
win64x86	R2021a	3.6	Yes	Yes	Yes	R2019b
linuxaarch64	–	4.1	–	Yes	Yes	–
osxaarch64	R2023b	4.1	–	Yes	Yes	R2022b

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

Other remarks

- Numpy is required in Python Fusion.

Chapter 2

Major changes

Specific information regarding particular APIs, parameters and portability of code from version 10 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 11.2

This minor release is due to upgrades.

- Upgrade of TBB on `linuxaarch64`.
- Upgrade of BLASFEO.
- Upgrade of Rmosek making it compatible with R 4.6. (Patch contributed by Balasubramanian Narasimhan)

2.2 Release notes for 11.1

2.2.1 New features

Platform support

- Support for Python 3.14.
- `linuxaarch64` distribution is RHEL8 compatible.
- Official support for Rmosek on `linuxaarch64`.

Optimizers

- The rule for selecting default number of threads is now `minimum(number-of-cores, 32)` instead of the previously used `number-of-cores`.
- The graph partitioning based ordering method employed by the interior-point optimizer has reduced memory consumption when employing more than 8 threads.

Fusion

- Efficiency improvements for models with repeating subexpressions and different power cones (see *Interface changes* in the *Fusion* API manual).

2.3 Release notes for 11.0

2.3.1 New features

Mixed-integer optimizer

- Major performance improvement of the mixed-integer optimizer.
- Restarts can now be initiated at any point during the solution process if the solver estimates the remaining search space to be large (`MSK_IPAR_MIO_MAX_NUM_RESTARTS`).
- If a problem can be split into independent components the solver can exploit this structure by solving them in parallel (`MSK_IPAR_MIO_INDEPENDENT_BLOCK_LEVEL`).
- Improved separator for clique cuts
- Enhanced large neighborhood search heuristics and new rounding heuristics
- Increased presolve speed, particularly for large problems

New API for MATLAB

- A new **MOSEK** API for MATLAB, which supports linear and conic problems and their mixed-integer versions.
- The new API has a convenient syntax and allows for building the optimization problem in chunks in an intuitive way.
- See https://docs.mosek.com/11.0/matlabapi/index.html

Optimizers

- The interior-point optimizer can exploit folding for linear problems to reduce problem size.

Interface

- Introduced an option to write the dual of the current problem to a file (command-line tool, Optimizer API).

Platform support

- Python support is now 3.9-3.13.

Licensing

- FLEXlm is at version 11.19.6. Upgrade of floating license servers is required to use clients from **MOSEK** 10.1 or older.

2.3.2 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.

2.3.3 Removed features

Platform support

- Dropped support for `osx64x86` (Apple Intel).
- Dropped support for `win32x86` (Windows 32bit).

Chapter 3

Known issues

Chapter 4

Bug fixes

11.2.9

- Fixed 32bit integer overflows affecting huge linear problems.
- Fixed a stability issue which could lead to OptServerLight crashing.
- Upgraded the version of Go used to build OptServerLight.

11.2.8

- Fixed a rare assert in presolve.

11.2.7

- Fixed a potential 32 bit integer overflow when using the interior-point optimizer for solving certain large problems.

11.2.6

- Fixed an issue leading to an assert for some numerically unstable problems in the mixed-integer optimizer.
- Fixed a potential segfault in the mixed-integer presolve related to block decomposition.

11.2.5

- Fixed an issue in PTF writer which could affect more complicated semidefinite terms.
- Internal licensing updates.
- Fixed a possibly leaking exception during file reading.

11.2.4

- Fixed a bug that caused a 32 bit interger overflow when solving certain large problems with the interior-point optimizer.
- Fixed a bug that could cause a segfault after solving a problem with many power cones in rare cases.
- Fixed methods in the Julia API which have a task as return value.

11.2.3

- Numerical improvements to prevent the mixed-integer solver incorrectly declaring some badly scaled problems as infeasible.
- Shortened waiting times after solve in OptServerLight in some circumstances.
- Fixed the setup script for the Rust API.
- Fixed a crash which could occur in some versions of MATLAB when terminating a **MOSEK** session.
- Fixed a bug in saving a MATLAB API model to a file using `model.write`.

11.2.2

- Fixed an assert occurring for certain problems containing exponential cone constraints.

11.2.1

- Improve numerical stability for some cases of outer approximation in the mixed-integer optimizer.

11.2.0

- Upgrade of TBB on `linuxaarch64`.
- Upgrade of BLASFEO.
- Fix of Rmosek for compatibility with R version 4.6.
- Fixed a potential 32 bit integer overflow.

11.1.11

- Fixed a potential 32 bit integer overflow.

11.1.11

- Improvements in the JNI library loading mechanism.
- Fixed a bug in CBF writer which could be triggered in the presence of affine conic constraints with SVEC_PSD domain.

11.1.10

- More general JNI library loading mechanism.

11.1.9

- Fixed a bug in the presolve leading to incorrect results for certain problems with power cone constraints.
- Fixed a rarely occurring bug in the interior-point optimizer.

11.1.8

- Fixed a rarely occurring bug in the interior-point optimizer.
- Fixed a bug that could trigger an assert in the basis identification.
- Fixes in the JNI library loading mechanism.

11.1.7

- Fixed a bug that could trigger an assert in presolve.
- Fixed a rare bug in *Fusion* related to multiplication by a sparse matrix.

11.1.6

- Improved the JNI library loading mechanism.

11.1.5

- Improved numerical stability for a class of mixed-integer problems.

11.1.4

- Fixed an issue with setting an initial solution for conic problems in C++ *Fusion*.

11.1.3

- A parameter was not transfered to presolve when called from the simplex optimizer.

11.1.2

- Fixed a numerical issue leading to an assert in the simplex optimizer.
- First stable release of **MOSEK** 11.1.

11.1.1(BETA)

- First beta release of **MOSEK** 11.1, see release notes.

11.0.30

- Fixed a bug that could cause a segfault in the mixed-integer optimizer.

11.0.29

- Fixed a bug that could trigger an assert in rare cases.

11.0.28

- Fixed a bug that could trigger an assert on some problems.
- Fixed in issue with limiting the number of threads for OptServerLight.

11.0.27

- Fixed a bug that could trigger an assert on some cone problems.

11.0.26

- Fixed a bug that could trigger an assert on some power cone problems.
- Some improvements in documentation.

11.0.25

- Further efficiency improvements of the new MATLAB API, especially for models including many domain objects.

11.0.24

- Fixed a bug that could trigger an assert on some exponential cone problems.

11.0.23

- Bug fixing upgrade of `mimalloc` potentially improving memory release management.
- Fixed a bug that in rare cases can cause the `install.py` script on `osxaarch64` to fail on `*.mexmaca64` files.
- Improved efficiency of the new MATLAB API, especially for models including many domain objects.

11.0.22

- Fixed a bug that could trigger a memory overwrite when solving an semi-definite optimization problem.

11.0.21

- Improved peak memory usage for problems with symmetry and block-decomposable in the MIP solver.
- Fixed possible leaks in the MIP solver.
- Fixed a bug in presolve on conic MIP problems.
- Fixed an issue where incorrect solution could be returned if problem was detected infeasible in the root cut loop.

11.0.20

- Internal license related updates.
- Fixed an issue leading to excessive memory consumption in the mixed-integer symmetry detection.
- Fixed a minor issue in a get function.

11.0.19

- Internal license related updates.

11.0.18

- Fixed an ignored parameter when writing LP files.
- Fixes related to numerical stability in the mixed-integer optimizer.

11.0.17

- Fixed a bug in the post solve that could cause an invalid dual solution to be reported.
- Fixed a bug causing an issue for some problems containing exponential cone constraints.
- Fixed some issues related to block decomposition in the mixed-integer optimizer.
- Fixed an issue related to perspective reformulation in the mixed-integer optimizer.

11.0.16

- Fixed a block decomposition bug in the mixed-integer optimizer.
- Fixed incorrect behavior when filenames are passed as string parameters.

11.0.14

- Fixed a bug in the MPS reader handling *INTORG* sections incorrectly (the manual recommends not to use this feature).
- Fixed a block decomposition bug in the mixed-integer optimizer.

11.0.13

- Fixed a bug causing a crash in the mixed-integer optimizer.

11.0.12

- Fixed a rare bug in the infeasibility report printer.

11.0.11

- Improved efficiency of updating parameterized problems in Python *Fusion*.
- Added a missing error for unsupported problem type combinations.

11.0.10

- Dropped redundant `execstack` flag.
- Fixed a log leak in the mixed-integer optimizer.

11.0.9

- Fixed an issue leading to an internal error in the mixed-integer optimizer.

11.0.8

- Fixed an issue with converting solution formats by OptServer and OptServerLight.

11.0.7

- Fixed a bug causing a crash in the mixed-integer optimizer.

11.0.6

- Fixed an issue causing crashes in the post solve in rare cases.
- Fixed a log issue.

11.0.5

- Internal updates.
- Fixed an issue causing crashes in the latest MATLAB R2024b.

11.0.4

- First stable release.
- Fixed a memory leak in Python `writedatastream`.

11.0.3(BETA)

- Fixed a rare bug caused by constraint removals in *Fusion*.
- Fixed a bug in the retrieving the infeasible subproblem.
- Fixed minor bugs in the conic optimizer.
- Fixes and improvements in the new API for MATLAB.
- Fixed an issue with comments in parameter files.

11.0.2(BETA)

- Fixes in remote optimization, simplified client protocol, fixes in OptServerLight.
- Removed unneeded library dependencies on Windows.
- Fixed bug that incorrectly triggered an assert on some ill-posed conic problems.
- Fixes in the Optimzier API for Rust.
- Syntax change in `Var.repeat` in *Fusion*.
- Fixed a bug in task file reader.

11.0.1(BETA)

- Fixed an issue with an assert.
- OptServer upgrade, reorganization and documentation.
- Various small updates.
- Fixed an error allowing incorrect names in LP files.

11.0.0(BETA)

- First beta release.