

Bitcoin Core version 0.13.2 is now available from:

<https://bitcoin.org/bin/bitcoin-core-0.13.2/>

This is a new minor version release, including various bugfixes and performance improvements, as well as updated translations.

Please report bugs using the issue tracker at github:

<https://github.com/bitcoin/bitcoin/issues>

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## Compatibility

Microsoft ended support for Windows XP on April 8th, 2014, an OS initially released in 2001. This means that not even critical security updates will be released anymore. Without security updates, using a bitcoin wallet on a XP machine is irresponsible at least.

In addition to that, with 0.12.x there have been varied reports of Bitcoin Core randomly crashing on Windows XP. It is not clear what the source of these crashes is, but it is likely that upstream libraries such as Qt are no longer being tested on XP.

We do not have time nor resources to provide support for an OS that is end-of-life. From 0.13.0 on, Windows XP is no longer supported. Users are suggested to upgrade to a newer version of Windows, or install an alternative OS that is supported.

No attempt is made to prevent installing or running the software on Windows XP, you can still do so at your own risk, but do not expect it to work: do not report issues about Windows XP to the issue tracker.

From 0.13.1 onwards OS X 10.7 is no longer supported. 0.13.0 was intended to work on 10.7+, but severe issues with the libc++ version on 10.7.x keep it from running reliably. 0.13.1 now requires 10.8+, and will communicate that to 10.7 users, rather than crashing unexpectedly.

## Notable changes

### Change to wallet handling of mempool rejection

When a newly created transaction failed to enter the mempool due to the limits on chains of unconfirmed transactions the sending RPC calls would return an error. The transaction would still be queued in the wallet and, once some of the parent transactions were confirmed, broadcast after the software was restarted.

This behavior has been changed to return success and to reattempt mempool insertion at the same time transaction rebroadcast is attempted, avoiding a need for a restart.

Transactions in the wallet which cannot be accepted into the mempool can be abandoned with the previously existing abandontransaction RPC (or in the GUI via a context menu on the transaction).

## 0.13.2 Change log

Detailed release notes follow. This overview includes changes that affect behavior, not code moves, refactors and string updates. For convenience in locating the code changes and accompanying discussion, both the pull request and git merge commit are mentioned.

### Consensus

- #9293 e591c10 [0.13 Backport #9053] IBD using chainwork instead of height and not using header timestamp (gmaxwell)
- #9053 5b93eee IBD using chainwork instead of height and not using header timestamps (gmaxwell)

### RPC and other APIs

- #8845 1d048b9 Don't return the address of a P2SH of a P2SH (jnewbery)
- #9041 87fbced keypoololdest denote Unix epoch, not GMT (s-matthew-english)
- #9122 f82c81b fix getnettotals RPC description about timemillis (visvirial)
- #9042 5bcb05d [rpc] ParseHash: Fail when length is not 64 (MarcoFalke)
- #9194 f26dab7 Add option to return non-segwit serialization via rpc (instagibbs)
- #9347 b711390 [0.13.2] wallet/rpc backports (MarcoFalke)
- #9292 c365556 Complain when unknown rpcserialversion is specified (sipa)
- #9322 49a612f [qa] Don't set unknown rpcserialversion (MarcoFalke)

### Block and transaction handling

- #8357 ce0d817 [mempool] Fix relaypriority calculation error (maiiz)
- #9267 0a4aa87 [0.13 backport #9239] Disable fee estimates for a confirm target of 1 block (morcos)
- #9196 0c09d9f Send tip change notification from invalidateblock (ryanofsky)

### P2P protocol and network code

- #8995 9ef3875 Add missing cs\_main lock to ::GETBLOCKTXN processing (TheBlueMatt)

- #9234 94531b5 torcontrol: Explicitly request RSA1024 private key (laanwj)
- #8637 2cad5db Compact Block Tweaks (rebase of #8235) (sipa)
- #9058 286e548 Fixes for p2p-compactblocks.py test timeouts on travis (#8842) (ryanofsky)
- #8865 4c71fc4 Decouple peer-processing-logic from block-connection-logic (TheBlueMatt)
- #9117 6fe3981 net: don't send feefilter messages before the version handshake is complete (theuni)
- #9188 ca1fd75 Make orphan parent fetching ask for witnesses (gmaxwell)
- #9052 3a3bcbf Use RelevantServices instead of node\_network in AttemptToEvict (gmaxwell)
- #9048 9460771 [0.13 backport #9026] Fix handling of invalid compact blocks (sdaftuar)
- #9357 03b6f62 [0.13 backport #9352] Attempt reconstruction from all compact block announcements (sdaftuar)
- #9189 b96a8f7 Always add default\_witness\_commitment with GBT client support (sipa)
- #9253 28d0f22 Fix calculation of number of bound sockets to use (TheBlueMatt)
- #9199 da5a16b Always drop the least preferred HB peer when adding a new one (gmaxwell)

## Build system

- #9169 d1b4da9 build: fix qt5.7 build under macOS (theuni)
- #9326 a0f7ece Update for OpenSSL 1.1 API (gmaxwell)
- #9224 396c405 Prevent FD\_SETSIZE error building on OpenBSD (ivd-sangen)

## GUI

- #8972 6f86b53 Make warnings label selectable (jonasschnelli) (MarcoFalke)
- #9185 6d70a73 Fix coincontrol sort issue (jonasschnelli)
- #9094 5f3a12c Use correct conversion function for boost::path datadir (laanwj)
- #8908 4a974b2 Update bitcoin-qt.desktop (s-matthew-english)
- #9190 dc46b10 Plug many memory leaks (laanwj)

## Wallet

- #9290 35174a0 Make RelayWalletTransaction attempt to AcceptToMemoryPool (gmaxwell)
- #9295 43bcfca Bugfix: Fundrawtransaction: don't terminate when keypool is empty (jonasschnelli)
- #9302 f5d606e Return txid even if ATMP fails for new transaction (sipa)

- #9262 **fe39f26** Prefer coins that have fewer ancestors, sanity check txn before ATMP (instagibbs)

## Tests and QA

- #9159 **eca9b46** Wait for specific block announcement in p2p-compactblocks (ryanofsky)
- #9186 **dccdc3a** Fix use-after-free in scheduler tests (laanwj)
- #9168 **3107280** Add `assert_raises_message` to check specific error message (mrbandrews)
- #9191 **29435db** 0.13.2 Backports (MarcoFalke)
- #9077 **1d4c884** Increase wallet-dump RPC timeout (ryanofsky)
- #9098 **ecd7db5** Handle zombies and cluttered tmpdirs (MarcoFalke)
- #8927 **387ec9d** Add script tests for FindAndDelete in pre-segwit and segwit scripts (jl2012)
- #9200 **eebc699** bench: Fix subtle counting issue when rescaling iteration count (laanwj)

## Miscellaneous

- #8838 **094848b** Calculate size and weight of block correctly in `CreateNewBlock()` (jnewbery)
- #8920 **40169dc** Set minimum required Boost to 1.47.0 (fanquake)
- #9251 **a710a43** Improvement of documentation of command line parameter ‘whitelist’ (wodry)
- #8932 **106da69** Allow bitcoin-tx to create v2 transactions (btcdrak)
- #8929 **12428b4** add software-properties-common (sigwo)
- #9120 **08d1c90** bug: Missed one “return false” in recent refactoring in #9067 (UdjinM6)
- #9067 **f85ee01** Fix exit codes (UdjinM6)
- #9340 **fb987b3** [0.13] Update secp256k1 subtree (MarcoFalke)
- #9229 **b172377** Remove calls to `getaddrinfo_a` (TheBlueMatt)

## Credits

Thanks to everyone who directly contributed to this release:

- Alex Morcos
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