

SegWit2x 8 月份状态更新说明：

团队成员们，大家好！

隔离见证将于今天正式在公链上激活！大家都明白，没有你们的努力，就不会有这样的成果，所以，祝贺各位！

由于隔离见证的激活，所以现在是向外发布快速状态更新的绝佳时刻。你们可能注意到了，SigWit2x 团队最近一直都悄然无息。这向外释放了一个好的信号，因为这表示，代码正如期运行。SegWit2x 的目的是要创建一个简单而稳定的代码库。如果你们在接下来的几周里没有听到来自 SegWit2x 团队的更多消息，那么这是一个好征兆。

虽然如此，我们还是说明一下我们现在的状态，下面是我们现在的几项重要进展：

- [btc1 项目进展良好](#)。如果你们还没有开始运行该客户端节点，你们可以在此 (<https://github.com/btc1/bitcoin/releases>) 找到操作指南，或者[帮助](#)参与我们新的 AMI 的 beta 测试。
- 发布的 #2 备选软件现在正式发布了。该软件如期运转，没有漏洞和问题。
- 我们如期激活了 BIP91，没有问题产生。
- 我们如期解决了 8 月 1 号 [UASF 和 Bitcoin Cash](#) 的分裂。
- 哈希算力继续发出信号表明 SegWit2x 将是[算力最强的链](#)，截至此文写作时，大部分哈希算力 -- >90% 区块发出支持信号 -- 跟随 11 月份的协议升级。

还需要注意的是，比特币核心团队计划发布的 0.15.x 客户端版本会采用新代码，而这将会切断支持 NODE_SEGWIT2X 的所有节点。[但是，这不会对 SegWit2x 造成什么实质性的影响。](#) 参阅下面的技术说明。

一路向前

在这个关键时刻，我们回头看看并了解下为什么纽约共识能够打破扩容僵局，可能会有用。

事实上，2016 年 2 月份就有了 SegWit2x 的路线方案了。当时，比特币核心团队的成员与比特币矿工在香港开会并签署了香港共识。他们提出的方案是，在 2016 年夏季实施隔离见证，随后约在 2017 年 7 月份的时候发布 2MB 硬分叉代码。

但是不幸的是，一年后，隔离见证还没有被激活，而硬分叉甚至也未落实。

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Deleted: SegWit will officially activate on the public blockchain today! Congratulations to everyone on the SegWit2x team, as it is clear this never would have happened without your efforts. .

Deleted: As SegWit activates, this is a good time to send out a quick project update. You may have noticed that the SegWit2x team has been pretty quiet lately. That's a good sign, as it indicates that the code is operating as expected. The goal of SegWit2x is to create a simple and stable codebase that is relatively "boring". If you don't hear much from the SegWit2x development in the coming weeks, it is a good sign. .

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Deleted: <#>帮手

Deleted: <#>Release candidate #2 is now the official release. The software is working as intended and there have been no bugs or faults. .

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Deleted: <#>Hashpower continues to signal that SegWit2x will be the chain with the most hashpower -- >90% blocks signaling as of this writing -- following the November upgrade. .

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2017 年 5 月份，一批新的成员聚集在纽约，讨论如何解决比特币的扩容僵局。这些人又再一次达成了相同的决议：最佳的发展路线就是落实隔离见证，并随后进行 2MB 的硬分叉。

在共识达成后的两个月中，整个比特社区取得了前所未有的共识水平—95%的矿工很快同意部署 SegWit2x 方案中的隔离见证。这一困扰比特币社区 3 年的僵局终于打开了局面。

虽然隔离见证近在眼前，但我们的工作还远未结束。

因为我们在为 11 月份的协议升级做准备，所以现在 SegWit2x 项目进入了静默期。被视为变动的就只有为确保 11 月份协议升级安全而绝对有必要的软件更改了。在这期间，可能看起来什么事都没有发生，或者看起来我们不需要再坚持下去。但是，我们坚持了。

截至写稿时，我们还仍然有超过 90%的矿工支持同意继续 SegWit2x 的路线。SegWit2x 已被正式锁定，而这一计划方案也在正常进行当中。在这一静默期，不难忘记 SegWit2x 的事儿，因为预期发生的事儿并不多。但是我们需要每个人向外界传达，我们正在做什么，以及为什么这些事儿至关重要：我们正在利用比特币长期以来建立的协议升级机制来升级比特币，扩大比特币的容量，走统一的路线来保持比特币网络的一致性以避免分裂。请各位继续告诉所有的人，SegWit2x 对比特币的重要性，并帮手接入更多 SegWit2x 节点。

如果你有关于如何进一步扩大 SegWit2x 支持的建议，请与我们联系。让我们争取 100%共识。

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Deleted: Within 2 months of the agreement, Bitcoiners observed unprecedented consensus levels- with 95% of miners quickly agreeing to deploy SegWit under the SegWit2x proposal. The grip which had choked Bitcoin for over 3 years was finally released. .

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Deleted: The SegWit2x project now enters its quiet period as we prepare for the November upgrade. Only software changes absolutely necessary to ensure a safe November upgrade should be considered as changes. During this time, it may seem like nothing is happening or that we don't need to persist. But we do. .

Deleted: As of this writing, we continue to have over 90% agreement from miners to move forward with SegWit2x. SegWit2x is officially locked in and the plan is working. During this quiet period, it will be easy to forget about SegWit2x as not much is expected to happen. But we need everyone to keep spreading the word of what we're doing and why it matters: we're upgrading Bitcoin using Bitcoin's long established upgrade mechanism, increasing Bitcoin's scalability, and taking the unity path to keep the Bitcoin network united without a chain split. Please continue to tell the world how important SegWit2x is for Bitcoin, and help rollout more SegWit2x nodes. .

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技术说明

1. 量产代码冻结

在激活 BIP91 和 BIP141 期间，btc1 1.14.5 版本没有问题。之前发布的#2 备选软件，现已被复制到 SegWit2x 生产发行版本。根据正常的工程实践惯例，在没有更多的变动之前，发布一个新的备选版本；最后发布的备选版本成为正式发行版本。

segwit2x 部分被冻结。只有有助于 11 月份协议成功升级的漏洞修复和文件变动将会包含其中。目的是实现稳定性的最大化和变动的最小化。

2. NODE_SegWit2x 对等操作

计划于 2017 年 9 月份或者 10 月初发布的比特币核心 0.15 的版本，包含了一项将会切断所有 SegWit2x 节点的变动。假如 0.14.x 版本的节点和其他节点 (btcd/bcoin/BU/BC) 仍然兼容，并充当桥梁过渡的话，预计对 Segw2x 的影响不大。

3. 提出问题的过程

重要技术决议通过邮箱或者在 GitHub 上讨论和记录，很重要。最近的案例就是，社区关于防重放攻击的讨论。考虑到这个问题的重要性，几个月前就在 GitHub 上创建了此问题，以便查询此问题的来龙去脉并找到解决方案。

4. 选择参与交易规避（也称为防重放攻击）

创建 Pull Request #117 是为了实施 Gavin 提出的防重放攻击方法，并得到社区，特别是比特币交易所，更广泛的同行审查。

Issue #34 讨论防 wipeout（已完成）和防重放攻击情况和解决方案。社区关于防重放攻击的方法的争论尤其更多。

有提出一些自愿退出重放攻击保护计划的方案，该方案要求所有的钱包进行升级。因为这些方案将导致我们一直都在尽力避免的链分裂，所以都不成熟。

因此，选择加入重放攻击保护的方案成为首选。选择加入重放攻击保护的方案提供了最多的用户选择，以及与部署的 SPV 钱包兼容性更高。

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Deleted: <#>2. NODE_SegWit2x peering .

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Deleted: Version 0.15 of Bitcoin Core, schedule to be released sometime in September or early October 2017, includes a [change](#) that will disconnect all SegWit2x nodes. This is not anticipated to have much impact on SegWit2x, given that 0.14.x nodes and other nodes (btcd/bcoin/BU/BC) remain compatible and act as bridges. .

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Deleted: [Pull Request #117](#) was created to implement Gavin's anti-replay method and gain wider peer review among the community, especially bitcoin exchanges. .

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5. 开放研发分支

Btc1 项目在 11 月份硬分叉后还将继续运行下去。我们欢迎 btc1 GitHub 上新的开发分支于 SegWit2x 项目范围之外的社区变化。

在接下来的几个月中，那里将会推送好几个让人兴奋的变化，包括一些性能的提升、拓展的钱包功能（比特币钱包技术真的过时了）、扩容功能测试、以及一些有趣的惊喜。

如果你们希望为开发分支做贡献，请用‘outside SegWit2X scope’或类似的语言在 GitHub 上发送请求。

6. btc1 AMI 可以在亚马逊买到

包含完整同步区块链数据和 *leveldb* 索引的 btc1 AMI 现在可以在亚马逊买到。其 EBS 容量是~400 GiB，从 64-位 Ubuntu LTS 16 AMI 复制而来。这是 Bloq 公司赞助和代表 btc1 项目维护的一台公共 AMI。免费使用。

AMI-编号：ami-4b437e30

AMI-名称：btc1-bitcoin-Aug2017

地区：美国—东部—1（维吉尼亚）

操作说明

1. 启动 AMI。
2. 使用你正常的 EC2 keypair 和安全参数来登录。
3. 输入 `cd repo/btc1/bitcoin/src ; ./bitcoind -daemon` 运行。
4. 所有内容都在以 vanilla Ubuntu LTS 16 instance 创建的默认‘ubuntu’账户名下。

备注

这是一个 beta 测试版本。欢迎给我们反馈。我们将吸收所收到的反馈（“在推出之时开始”），于不久之后发布 AMI 的量产版本。量产发行版本的快照将在多个亚马逊地区可以访问。至少，我们计划在美国东部和西部、欧盟地区及韩国首尔发行。

此 AMI 是使用安全指南来编写的，包括在本指南中。

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Deleted: There are several exciting changes that will be pushed there in the coming months, including some performance improvements, expanded wallet capabilities—the bitcoind wallet really is ancient tech—, expanded functional tests, and a few fun surprises. .

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Deleted: An AMI of btc1 *including fully synchronized blockchain data and leveldb indices* is available at Amazon. The EBS volume is ~400 GiB, cloned from a clean 64-bit Ubuntu LTS 16 AMI. This is a public AMI that Bloq sponsors and maintains on behalf of the btc1 project. It is free to use. Details: .

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Also to note, the Bitcoin Core team has new code scheduled for the 0.15.x release that [will disconnect all peers](#) that advertise NODE_SEGWIT2X. Fortunately, we don't anticipate that this has any real bearing on SegWit2x. See below for tech notes.

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At this juncture, it may be useful to take a step back and understand why the New York Agreement was able to break through the scalability gridlock.

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The path to SegWit2x actually began in February 2016, when members of Bitcoin Core met with several Bitcoin miners in Hong Kong and signed the [Hong Kong Agreement](#). Their proposal was to implement SegWit in summer of 2016 followed by a 2MB hard fork to release in approximately July 2017.

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Unfortunately, a year later, SegWit still had not been activated, and the hard fork had not even been implemented.

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[Issue #34](#) discusses anti-wipeout ([done](#)) and anti-replay scenarios and solutions. There has been much debate in the community about anti-replay methods, in particular.

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Some opt-out replay protection schemes have been proposed, that require all wallets to upgrade. These are naive suggestions, as they will exacerbate the chain split we are trying to avoid.

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Opt-in replay protection are therefore preferred. Opt-in replay protection offers the greatest amount of user choice as well as a higher level of compatibility with deployed SPV wallets.

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cd repo/btcl/bitcoin/src ; ./bitcoind -daemon to start up.
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Everything is under the default `ubuntu` account that is created with a vanilla Ubuntu LTS 16 instance.

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This is a beta version. Feedback welcome. We will make a production version of this AMI available soon, incorporating feedback already received ("start at launch"). The production

release snapshot will be made available across multiple Amazon regions; us-east, us-west, EU and Seoul (nearest to Beijing) are planned, at a minimum.

This AMI was prepared using the security guidelines including in [this guide](#).