At the time of writing, BIP-77 is still being finalized, and payjoin adoption is relatively low. However the payjoin team has been hard at work on impressive new tools and docs. There's no time like the present to implement it and improve base layer tx!

Payjoin is an elegant solution for increasing scalability and preserving privacy. It saves block space (lower fees for all!) and weaken blockchain surveillance heuristics. Even those that don't use it benefit, but it's a team effort! The advantages are proportional to the level of adoption. Everyone stands to gain from widespread payjoin use.

Thanks for reading! Ready to learn more? Want free copies of this and other zines? Visit:

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. มีข้อนำเสนอที่พล็สำหรับเพย์จอยน์สามข้อ

1. BIP-79: Bustapay (2018)

BIP-78: Payjoin (2019)
BIP-77: Payjoin V2 (2023)

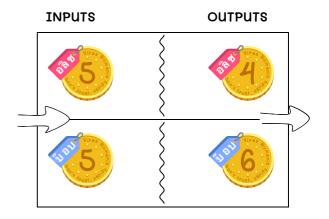
BIP-77 makes using payjoin easier than ever. Previously, you had to run a secure server -- a high barrier to entry! Now, web clients are used to access untrusted, 3rd directory servers. servers support many users so individuals don't need to run their own. An Oblivious HTTP relay proxy server sits in front to protect user IPs. Participants can even work asynchronously (not being online at the same time) because the directory server buffers messages. BIP-77 also has authenticated encryption, allowing users to advantage of this optimal architecture without compromising privacy or security.





นิตยสารกะทัดรัดเรื่องเพย์จอยน์: มันคืออะไร ทำไมเลิศ และทำงานอย่างไร @satsie ☆ https://satsie.dev/zines อัปเดตล่าสุด: JULY 2024

With payjoin, the receiver also contributes an input. Let's say Bob already has 5 BTC in his wallet and he wants to use that in a payjoin tx. It would look like this:



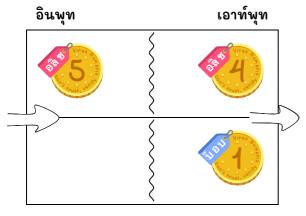
So why is this good? The first benefit is **scalability.** By definition, payjoin does some tx batching. In both scenarios, Bob ends up with a total of 6 BTC, but there's a slight difference in how it's represented. In the 1st example, he has 1 BTC from Alice and the 5 BTC he already had. With payjoin, he has a single 6 BTC.

เพย์จอยน์คือวิธีการรวบมัดธรกรรม bitcoin แบบรักษาความเป็นส่วนตัว และประหยัดพื้นที่บล็อก

หวนนึกว่า:

- 1. **bitcoin** ใช้ระบอบเอาท์พุทธุรกรรมทอน (UTXO) และ
- 2. เหรียญ (ข้อมูลป้อน และข้อมูลผลลัพธ์จาก ธุรกรรม) สามารถมีค่าเท่าไรก็ได้

สมมติว่าอลิซมีบิทคอยน์จำนวน 5 BTC ใน บัญชี่ และสร้างธุรกรรมส่ง 1 BTC ให้กับบ็อบ ธุรกรรมที่ถูกสร้่าง (tx) จะมีหน้าตาเช่นนี้:



หน้า ๒ (2)

The way the 1 BTC from Alice was combined with Bob's existing 5 BTC is an example of coin consolidation More coins = more fees. so it's best to minimize the number of coins in your wallet. Instead of using one tx to transfer BTC, and another to consolidate coins, payjoin lets you do both at once, increasing tx throughput! That's not all. What if Bob wants to use the BTC from Alice to pay his friend Charlie? Or maybe he wants to open a Lightning channel? Using a tx for extra stuff like this is called a tx cut-through. By allowing additional inputs and outputs, payjoin lets you pack more activity into a tx. Alice was already going to send BTC to Bob. Payjoin is just a way to raise the tx throughput and save on fees that would have gone to creating additional txs. It's the simplest way to do transaction batching between two people.

BIP-77 ทำงานอย่างไร



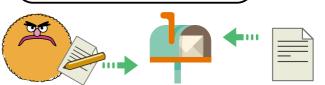


Bob: I want to start using payjoin. Can I have a mailbox?

Directory Server: Sure! Here's your address

Bob: Hey Alice, anytime you want to send me BTC, use my mailbox so we can make a payjoin

Alice: Ok. I want to send you BTC. I've started a transaction, and am putting it in your mailbox. Add your input and it will be a



Bob: Look! I have a payjoin transaction in my mailbox! Let me add my input and put it back in the mailbox

Alice: My turn to check the mailbox. The payjoin transaction is in there and it's complete. Now I can broadcast it to the



🖈 ความเข็นส่วนตัว 🛠

Blockchain surveillance uses heuristics to make assumptions about the nature of a tx. including how much BTC was transferred, how much the sender got back as change, and who owns which coins. The most common heuristic for tracking users is the assumption that all inputs belong to the sender.

Payjoin lets senders and receivers work together in a way that breaks one or more of these heuristics. After Alice and Bob used payjoin, the assumption that all inputs came from Alice is no longer true. The tx looks the same as if Alice provided multiple inputs.

In this regard, payjoin instantly brings privacy to on-chain transactions, right

at the moment of payment.