00:26

You.

00:36

All right, so let's get rolling. Got a pretty sizable agenda here today.

00:45

A lot to cover, super active project. I picked this nice little image of two little bubbles marrying reminds we have Stacks and Bitcoin. So, yeah, we're going to be talking a lot about SBTC on this first sync of each Sprint. We're going to start off with our little Em corner with Martan and then go and dive into some core product updates here from Andre with the PM.

01:18

Corner and then try to finish it up. Talking about maybe some of the testing.

01:26

And see if there's any potential overlaps with the Nakamoto work. Not sure how much mileage we'll get out of those sections right at this point in the process, but one thing that we're working on with the testing and hardening team is putting together this stacked blockchain developer survey. So worked on this with the team yesterday and this is very top of mind for Aaron.

01:59

And.

02:02

Basically what we're hoping to do is get everyone on that's an IC that's a part of Stacks Core Engineering to go through this developer survey. Ten questions. We intentionally kept them open ended so that we can just get some initial level setting thoughts from each of you on your developer experience. Working with the blockchain code repo, the.

02:32

Deployment testing documentation, you name it.

02:37

This is going to help set the stage for where that group can focus their efforts so that we can make.

02:44

Sure that we're improving that product experience.

02:48

For you all and then hopefully for others in turn. So I will circulate this. It's just something that we're trying to have done. I'll come back to this again in the call on Tuesday, but we are hoping to get it done by the.

03:05

End of the day, I think Tuesday.

03:09

So that we can level it out and identify some meaningful action items that.

03:15

That group can tee up for the.

03:18

Following for Sprint Three, that will be starting shortly thereafter. The other thing I just wanted to.

03:24

Draw your attention to, I fully aware and appreciate the fact that a lot.

03:32

Of the meeting documents and agendas and stuff, we're still really just trying to coalesce around an easy to follow single source of truth. This is something that we're working on right now. Jesse's been helping out a lot. And Mark, we're getting the github.org and a lot of those repos all set up. So there will be a single README that will point you to all of the evergreen documents for these meetings. So the agendas, the presentations, and any action items that might come out of it. And then also we're working on getting all of the permission settings adjusted so that people have the ability. I'm still limited on my ability to tag people as an assignee on the project board. And then we want to make sure that you're getting those updates and then also able to come in and edit any language or labeling or anything on those project board issues.

04:37

But enough of me.

04:38

We're going to hand it off to MarTea now. Yeah.

04:42

So first I want to show you a bit the has done. I don't know if you're still sharing, you can just click the link, right? I mean, Will has done the Groundwork of the Stacks Core Engine GitHub project and from my perspective, it's getting to a pretty usable state. So what I want to encourage everybody in SPDC to add their issues to this board. We already have some things already added, but yeah, here's the link to it. It's a Kanban board within the project. And if you're adding your issues to the Stack Score Engine project and you're adding it to the SPTC Working Group, then it's going to be visible here and it's a very minimal candle board. You have new backlog in progress, post done. This should be pretty self explanatory, but just talking a bit about the difference between new and backlog. So creating new issues to the left, put them in new.

05:47

If you're working on things, drag them to in progress, right. If you're looking for something to do, then you're looking in backlog. Because the backlog is something that I intend to maintain much more. Keep sort of prioritized. So you should as a contributor, not knowing how to contribute best, go to the backlog, look at the top of it, go down until you find something that suits you.

06:09

Right?

06:09

Now, I've added all the documentation tickets. I added some of the issues or the issues that existed this morning within the Stacks Core repo. But any other issues, especially revolving around the signer and clarity workstream, I would like to have them here on the board. So let's keep a tight dialogue right now. Please just add them. And I will spend a lot of effort to maintain this board and keep it usable and readable. If you don't find this board readable, ping me. I would love to maintain it and have this to be the sort of day to day view of what we're working with. Will, you're raising your hand?

06:48

Yeah.

06:48

I was just going to note this is a really nice place for people to see. Martin and I were just conversing about this earlier. So when I receive your comments, like your action items from this pre planning Sprint survey, or when I pick it up in a meeting, I will add them to the board. And I intentionally want everyone to know that I am not going to rephrase your wording and try to improve upon it because I don't want to mischaracterize anything. So I essentially just dump it in here and I will be assigning these items to you. So whenever I can, I provide as much information so that it links to your thoughts and helps provide the context. But yeah, basically just letting you know that. Feel free to jump in here and take this. The goal is to just get it captured on the board and then allow you to hopefully that just reduces the friction.

07:59

And you can jump in there and put your own words to it and get it assigned or take action on it as you see fit.

08:07

Yeah, and we will maintain and refine this during the sportization session. So we have one tomorrow where we'll continue on this. And that's really perfect. So will act as a sort of catch all. Put it on the board. I'm the sort of next step. I'm working with refining and making sure that asking follow up questions, helping with prioritization, asking, is this necessary? Figuring out what's the highest impact thing is to focus on all of that. But I guess most of us should recognize the flow. So are there any questions on the board so far, or do you want to yeah, let's continue. So, OKRs. Fun stuff, right? So we've started to formulate some initial OKRs for the SPDC Working Stream. And I guess this is something we will sort of maintain and live as we're going on. But the main objectives that we are focusing right now shouldn't come to any surprise to anyone.

09:06

Deliver SPDC mini. We want SPDC mini to be out. For SPDC mini to be delivered, we define it as like, we need documentation. So having the design of SPDC mini documented and completed, first key result, second key result the same. Like, the Signer protocol is actually a subset of the design of SPZ mini. But yeah, having the Signer protocol completed and documented, having the clarity of smart contracts designed and deployed, and having the reference implementation of the Signer binary implemented, it's measured on completion target. Yes. So that's the first objective. SPDC mini. We are refining the plan as we go, of course. Second objective, let me see in the chat if there's something creating an SPDC SDK for developers. So being able to contribute to SPDC, being able to build on that's really important. And this is also internally going to help us implement a lot of these vital pieces for the mini.

10:12

I still have some lack of visibility, but I know, like, if we want to implement the Reveal functionality, we need to be able to construct those transactions. And to construct those transactions, we need a good SDK to deliver those things. So this is a very integral piece of this key result. One, the SPDC operations are supported in the SDK. That's like the most fundamental thing. You can use this SDK to create all operations in the SPD protocol. If we're doing handover, and I know handover is something we need for mini, we need a library to support these transactions.

10:44

Otherwise we're going to is that just.

10:53

Me or is it frozen for everybody?

10:55

Yeah, he's frozen or disconnected. Is he still in the call, by the way?

11:05

No, looks like I'm sorry, my network was up. What was the last thing you heard.

11:12

Me saying, you were just going into key result two.

11:17

Key result two.

11:19

Yeah.

11:19

Okay. That wasn't too much.

11:21

Yeah.

11:21

So broadcasting SBTC operations on Bitcoin super important. So once you're actually creating these operations, you could use your own Bitcoin library. But it's extremely convenient if the SDK supports that. Curiosity number three SDK interface is exposed to exported to Python. Yes, exported. This is not as important, but it's also like having that early on, that sort of cross language bindings that's going to help us very much if we have it early on, because it's much less pain to add it early on than add it later. And so also going to be exposed this to a wider audience.

12:05

Okay.

12:06

Finally, objective number three, engage participation in early SPDC releases. Right. What's the point of a release if no one is using it? So, first of all, we want SPDC is going to be explored on testnet. I don't know if this is rephrased, but yeah, SPDC is being used on testnet. Can we phrase that? Yeah, not even deployed is actually used. Deployed is one result, but like, participation is actually being used, which means that we can see on testnet the number of unique STX addresses who are holding an SPDC variant. And it should be at least 50 unique addresses. Taking from thin air. We'll see if this is realistic or not, but it's like initial goals to help us set future goals to see how we can grow developers are building on SPDC and this is also we can track GitHub repos that we know that are using the SPDC SDK.

13:10

So this is going to give us visibility in who are building things on SPTC. And hopefully we can have a list of applications on SPTC. That would be great. Having ten repos on SPTC, that's a stretch goal, but it's ambitious. We can see it would be amazing if we could get that. And key result number three, of course, like seeing STX holders registering as signers once we have mini deployed, if we have number of distinct I think signers is the wrong terminology here because signers also mean the shares that they have within the protocol. But you know what I mean. Number of distinct public keys registered in SPDC mini as signers, and at least ten there taken from thinner. This could be completely unrealistic. So we can work and iterate on these goals. I think we can have a tighter dialogue, Andre, Will and I, but I think this is a start and these are the first objectives OKRs.

14:05

That we have.

14:09

Yeah.

14:10

Martin, this looks great. I just had a quick question for objective three, key result one. Is there any sort of best practice that you have in mind for how much time we have while being deployed on testnet before going to mainnet or some minimum sort of user experience that we would have while we're in a testing phase on testnet.

14:35

I don't, at the moment, very open to have such a dialogue, but of course I would start tracking this on testnet because we can track that earlier. But of course, we should not deploy anything on Mainet until it's sufficiently used on testnet that we know that things are not going to explode on Mainnet. That's like the bare minimum requirement we should have before moving things on Mainet. And then we can discuss and figure out where we want to set the bar for mainnet. That's not something I have by heart right now and I hope that's okay.

15:13

Cool.

15:14

All right, any other questions on the OKRs before we move on? I interpret silence as oh my God. These OKRs. Also amazing. Okay, some goals for September also for anyone doesn't know September, that's the last day you will see of me. But don't worry, we will have a pretty good handover plan offer me. So there will be people running this project and I'm confident that if we get some sort of initial structure, this is going to be sort of running itself, this project. But yeah, we want to have.

15:59

Oops happened again.

16:07

Martin, blink if you're okay.

16:18

We iterate an update, but I want this to be in a pretty decent state. On next slide, I'm going to show.

16:22

Martin you were disconnected for like 30 seconds.

16:27

30 seconds?

16:27

Yeah.

16:27

My network has been unreliable here. I was talking about the goals. Right. Thank you for having me.

16:34

Yeah, the goals. And maybe just try disabling your video. Maybe it helps a bit.

16:38

I don't know.

16:41

I think I've been having these network surges today. It's new in this apartment where I lose complete connection. So I don't think once it's up, it's good. Okay. Yeah. By September, we want to have a design that we agree on. We can still iterate on that. We want to have roadmaps and OKRs, we will continue iterate on the OKRs, but they should be in a sort of stable state at that point. We want to have a deployment schedule which is a bit more well thought through than dates that we have thrown out of thin air, which the dates that you're going to see on this next page are. Hopefully they are somewhat accurate, but it's hard to make any guarantees at this moment. User guides and a list of applications, that's something we would love to have at that point. And yeah. Finally, SPDC. Alpha, close out.

17:33

SPDC Alpha is up on testnet. We just have a few bug fixes to be done. Otherwise we're going to add some documentation and there's not much more on the engineering side to do. So for anyone who knows, anyone who've been interested in building on this would be a good time to actually start experimenting on SPTC Alpha. As soon as we get some documentation out. That's like the last piece of it. And finally we can have a look on the GitHub discussion on SPTC release names, you will actually see them in the next slide, so we don't have to go through it. But the leading proposal right now is yeah, SPDC. So we're going to use internally version numbers mini is going to be 0.1. Then the subsequent mini release, 0.2. If we do another mini release, that's 0.3. Up until we actually do consensus breaking changes, that's when we change the major version to be 1.0.

18:28

That could be a sort of MVP version that we're releasing with the essential features, but it's going to be consensus breaking and it's going to be SPTC. And that's going to be sort of externally known as SPTC Nakamoto. And we can also have the name SPC mini for the previous releases. But that's the external communication. Internally, we use the version numbers. 1.1 is the Iterative improvement of the Nakamoto release, 1.0 release, where we're sort of closing the loop on everything that's sort of planned in the design. And then beyond that, we might have subsequent releases where we're incorporating even more requirements or changes. But even up until 1.0, we do have some list of requirements and thoughts that we need to iron out and see what we can deliver and what we can rephrase and change. But yeah, not so much more on that. Let's move forward.

19:18

I feel like I'm taking a lot of time already because we have so much to think. So here we have an initial deployment plan. We know that Alpha is sort of closing right now. Signer management tool is being worked on by Jacinta and Sethburn. I anticipated that sort of finalized by end of August, but Jacinta, Sethburn, let me know if that's completely unrealistic. Documentation and documentation is always going to be continuously updated, of course. But we'll have complete documentation by end of August. That's super important stepan is working on SDK. I anticipate that like mid September, that one is in a good state. Again, taking from thin air sign a dashboard end of September. SPDC One mini together with the signer dashboard end of September. That's a very aggressive deadline, but just cautious. I believe that's a high risk deadline, but we will do our best to meet it.

20:17

SPTC mini version two is going to stretch a bit more probably. And Nakamoto end of December, also a very aggressive deadline. Given that we are discovering many critical design questions as we are documenting these things. That's a very good question, andre, would that be for testnet or Mainet? I would say that the releases that we're writing, except for Alpha is on Mainet and testing things on testnet should be we should deploy things on testnet before also because if something is released, it's released on Mainet. That's my attitude. In practice, that's extremely aggressive because then we would have SPDC mini mid September latest on testnet. But two weeks on testnet is too short for that. So again, these are very aggressive deadlines. But yeah, that's all I wanted to say on the deployment plan. My apologies for not being clear on mainnet and testnet and expect us to have I want to have this in the documentation and break this down a bit more and make sure that we can have a dialogue and iterately update this.

21:36

Ideally, we can flag that things are running over before end of September saying, oh, shit, we don't have anything here. We can say end of August that we have more risks in the project. That's why I'm also flagging early right now that these are given the limited visibility that we have right now, these are very aggressive deadlines or targets.

21:57

Okay.

21:57

Are there any questions on this page before we're moving on? I think this is where I'm leaving you to Andre, I think.

22:05

Yeah.

22:05

So, Martin, based off of this timeline, do you think it's more realistic to say that the SPDC mini, like, the 0.1 release would happen on testnet in September, and then the main net would likely be sometime early? Q four call it like October.

22:24

Yeah, I would actually think so. This is me speculating. That's more realistic, but also it's not entirely my call. This is something we need to create more visibility in the working groups and actually break down the plan into some sub. Like SPC mini is a big thing. It has subcomponents that we need to iron out documents and create some initial milestones and see exactly how we can find the best strategy for the SVG mini release.

22:59

If I were to elaborate on this Gantt chart at all, should I highlight a testnet and a main net line for every single item other than the documentation? Documentation, as we know, is just like, sort of an ongoing, well documentation SDK sign.

23:18

I would say only the version releases of SPDC make sense to have on testnet and mainnet.

23:24

Right.

23:24

Mini, mini v two nakamoto like dashboards SDK docs there's no difference. Right?

23:32

Yeah.

23:33

I think that would be a helpful distinction to add to this will.

23:36

Yeah. Okay.

23:37

That's very good. And you're taking that whale?

23:40

Yeah, I will do that.

23:41

Thank you very much for that.

23:44

Okay, so just real quick temperature check, can we do, like I don't know. I would love to just hear sort of red, yellow, green how people feel about these deadlines. If we could just get, like, a quick sampling of the audience just sent that. We'll start with you. Is this a red, yellow, or green?

24:12

This is pretty much for mainnet. It's a red. It's hard to say because when you're dealing with something like money, I would want it very secure. And there hasn't been a I know it's always been on the back burner a little bit. The security considerations and implications of all of our designs. I would want to spend a good amount of time on that before putting something on main net. But in terms of a testnet release for all of these, I would put it as a yellow. It might be hard to get done, especially since we have still not finalized a design, but I think it's doable. I just think mainnet is a bit ambitious, my opinion.

25:00

Cool.

25:03

Sayak, how about you?

25:09

Yeah.

25:09

Sorry.

25:09

I was muted. Basically, I'm just focusing on documentation completely. This Sprint. Yeah, there's a lot of work to be done there to make clear, concise things.

25:22

Okay.

25:24

Yeah. If there's anyone that feels strongly and just wants to kind of shout out, this is just one of those things that we're going to start to plan around the schedule.

25:35

And so speak now or forever hold.

25:38

Your piece type thing.

25:43

Cool.

25:44

If I may share a few thoughts.

25:46

Yeah.

25:47

I think it's important to be more robust in prioritization here. Can we ship a main net without SDK? Yes. Without documentation, probably. I would say SBDC releases that's code that needs to get done. So I would say I would put it as kind of mass ship versus would be nice to have, just so that as we get closer to deadline, we can just put the focus on things that actually make or break our deadline. Other things include I would say there isn't as much, let's say here, visibility into the testing efforts. I know that those are being bundled into a different work stream, but I'm afraid that if we focus just on SBDC 1.11.0, for instance, we may not have testing as infrastructure, as Tubal mind here. And another thing is that we are not accounting for any audit. So it looks like we're just going to ship to a main net with no audit.

27:00

No, there's definitely going to be an audit, and I think that it's worth.

27:07

A conversation about how that I don't.

27:11

Know, Mitchell, if you want to speak to this, but how and when that audit will occur, if that's going to be inclusive of Nakamoto or just SBTC. I know that we're obviously thinking we're going to have to plan one to two months around that, and everyone says it doesn't even make sense to really get in the queue until you're at code completion. So it's very difficult to anticipate starting that early, essentially. Sergey, I see your hand up.

27:50

Yeah, I agree with that.

27:52

Actually.

27:52

It's a little bit disconnect now with testing infrastructure. Could we maybe have some kind of meeting or if you have a documentation about how you deploy it, that we could actually take this task, our testing team, maybe also allocate these contractors to actually do this job as well. But we need to have an idea. What is the most important things from your perspective as BTC team? What would help you move faster for what do you need from testing infrastructure? I'm organizing meeting. Who should be there from SPTC team? Who is best person for deployment now?

28:47

Or Martin?

28:49

Do you know?

28:50

Well, I would love to be involved, but I think also at least jacinta from the signer side, maybe the SDK is not as important, but Stepan is of course, welcome to join. And the clarity contracts their needs from the deployment. So Jose, Marvin, jesus, that's a lot of people, but at least minimal set just in. That was Marvin.

29:25

Yeah. Also other thoughts. I think I shared this with Martin or somebody privately, is that the way that we're focusing this work group is around SBTC, but I think Andre discussed with Andre that SBTC makes perhaps not much sense if we don't land better blocks. And so I think what we have here on the screen is more about the code deliverables. But I would say the product deliverables are closely tied with having actually Nakamoto being shipped. And Nakamoto here is not SPTC, it's my understanding. And so maybe just to also be mindful of integration work that needs to happen there.

30:23

Yeah. And I guess the marketing name for SPDZ 1.0 would be SPDZ Nakamoto as opposed to SPDZ meaning but Nakamoto powered SPDC.

30:34

Yeah. Maybe this is more feedback for about the numbering scheme, but we are introducing SPDC as a product, but SPTC is really part of the blockchain. So why are we not calling it Stack 3.0? And so that's going to maybe FIFA for the combs team.

30:57

And there is an open GitHub discussion on the actual naming and it's never going to be locked in because we can always open it up and change it again. But these are the names that are leading in that discussion right now.

31:12

If we're going to do a hard fork of stacks, what version will it have?

31:17

The hard fork 1.0 is the hard fork, right?

31:20

No, because currently right now it's 2.4, right?

31:23

Yeah, that's Stacks, but SPTC 1.0, it's the 1.0 release of SPDC is coming with the Nakamoto release of Stacks.

31:29

Why are we having two separate things? Which is which is one code base. Right. So one network.

31:35

Yeah.

31:41

It'S part of a component.

31:45

Okay, let's not dive too deep in this issue. We can take this. I think any feedback and thoughts on this is welcome. Again, we have a GitHub issue for this discussion and yeah. Is there any other high level things here? I guess considering audits and deliveries or ironing out? If this is just code deliveries, that's a good consideration for this deployment plan. But this is very much an initial thing to get us started and we'll expand things to cover testnet releases and audits, I guess only makes sense for hard forks. I'm not sure. Maybe we need that for mini. That's something we need to figure out.

32:22

Yeah.

32:22

And that's also we have some sort of initial scope here using the version numbers, the SPDC version numbers. So SPDC one. SPDC 0.1. So that 0.1 alpha. You should be familiar with it. Custodial system 0.1 Decentralized version, but not a hard fork 0.2. This is wrong in the slide, so please ignore it. This is just the Iterative improvement of 0.1, because 0.1 is bare bones and 1.0 is the consensus breaking. SBDC should avoid the MVP name. I'm sorry about this. I should have improved even the small letters. Yeah. Thank you, Jacinta.

33:07

Yeah, so I'll be really quick. The only real updates I have is that my focus for the Sprint personally is just consolidating documentation, whether that be for the actual SBTC doc or from the lower level designs on the readmes and the various repos. But over time, there's been a lot of different ideas about what the signer would entail. But it's really ultimately just four major components. The one is the Signer Library, which is used to create kind of the out of the box signer binary that actually will run a Signer API server, which is also listed as one of the main components. And it's kind of used for devs to create the custom signer binary that enables more fine tuned control of their signer, whether it be the signing logic and configuration, but also that out of the box signer binary that we produce that has limited configuration ability.

34:05

So that's the signer library. There's also the Signer API, which I mentioned the signer binary would be running, but it just enables you to easily view your configuration, update configuration, view transactions, and vote on specific transactions. And that API is what Bern is using to create his Signer Web UI, which is basically just a nice interface for you to see the current state of your running signer and configure it as well if you want to do it via UI instead of a config file or command line. The final other component is the Signer Dashboard, which is being spearheaded by Mike Cohen. So that Web Dashboard is ultimately just a view into mostly smart contract info, so publicly available data. So this would list like all signers within a network. There are corresponding public keys, how many transactions they've validated, things like that. It's meant to be a very much more of an overview of the signer ecosystem and that's pretty much it.

35:06

So that's kind of the major components, major deliverables that we're working on. And that's it for me.

35:16

I believe.

35:16

I forget who. Someone yesterday in Discord mentioned that Hero is going to be adding some SBTC related functionality to their Explorer. Jacinda, is that anything that you're collaborating.

35:28

With them on or I haven't been talking directly with them as much, but Andre has been interfacing with them, making sure that if there's any sort of overlap, that we can make sure we collaborate. I think there's some metrics that they're going to introduce that might have some overlap with the Signer Web Dashboard, but I think their metrics are more related to the amount of funds in the system, a little bit less signer specific, whereas the Signer Dashboard is a bit more specific to mostly like. Let's say someone wants to delegate signing capabilities to a trusted signer. They would probably use the signer web dashboard to find that signer that they want to delegate to in the public key. That's kind of what it's more geared towards. But there is definitely some overlap andre has been good about being up on it and making sure we can collaborate.

36:24

Cool.

36:25

Byrne, anything you want to add on this?

36:30

The biggest item I have to add.

36:32

Is the focus for the web part has kind of shifted away, at least for this sprint away from specific development and more kind of how Andre was mentioning before of development. So really we plan when we give this to customers, to have the documentation up and ready so that way they could look at the documentation quickly, understand exactly how to use it. And so we're upfronting that focus of having the documentation kind of ready before we further on build anything, at least.

37:03

On the signer side.

37:05

Cool.

37:11

Sedze, I dropped this in here. I didn't know if there's anything I.

37:17

Know, Marvin, is time zone ahead.

37:21

Jose Sedze, if there's anything that you want to provide with an update on.

37:25

The Clarity side of things.

37:31

No updates on our end. Continuing working through issues that we have. We've been using the Discord a lot more now, so a lot of our work is in the Clarity Channel. I did talk to Andre yesterday a little bit about what I personally believe is going to happen with deadlines and versions. But again, I'm not the IC head. But yeah, the graph below is just a little something I worked up so that people can have a better idea of what contracts are in there. But no major update on our end for today.

38:08

Cool.

38:08

Jose, anything you want to add on that?

38:13

No, it's fine. I just have one simple question. So if I want to add an issue to the Kanban, so we have a different Kanban on the other repo, how can I add the field working group? I will post the question in the channel because it's something very simple.

38:39

Yeah, because we have some legacy with the old projects within trust machines and GitHub issues support multiple projects. You can actually add an issue to projects. I know that's A hassle to maintain. So I'd love it if you can move them over, but you just add this stack score project and within that one you have F picks. And I'm pretty sure Clarity is actually an epic. I'm not sure about that though. But if that structure doesn't fit you, we can have a dialogue on that.

39:11

We don't have one field that is.

39:13

The working Group or.

39:19

Working Group. And I would like to have us work a bit closer so that we're not styling up in subgroups. So add the SPTC Working Group so then we get visibility on the board, but then you could subslicize it with labels or another field if you want to have, like, a clarity label.

39:37

Okay.

39:37

That would be ideal from my perspective, at least.

39:41

Okay.

39:51

Cool.

39:53

SDK step band. Yeah.

39:57

So let me just open my updates from today. Just remember what I've done. So, yeah, I think I've done a lot of work in the past few days. I moved almost everything that we need for the Stacks core and also for the SPDC core libraries from Block, Stack, clip, and also Stacks Rs. Yeah, also a couple of very fundamental things that are kind of not trivial have also been moved from the Stacks blockchain code base, and that cropport 32 encoding stacks address type, and everything that goes with it is basically on par when it comes to functionality. I've also moved wire formats and parsing logic for deposit, for withdrawal requests and fulfillments. And at the moment, I'm also adding the construction logic. So basically this is a prerequisite for also moving the SBDC CLI into this repo. And that's also almost finished. I think I'll have a PR before I finish today.

41:05

And I've also added a couple of issues to the SBTC repo, just kind of exploring the base forward, and that's about it. I think I have either three or four PRS chained already. So yeah, guys, if you have some free time, feel free to leave some comments and review.

41:25

Great.

41:26

And yeah, thanks for starting that thread with Russ. I will hunt him down and find him. He can be squirrely and hard to get a hold of, but I'll figure it out.

41:39

Yeah, it seems like he responded maybe ten minutes ago.

41:43

Oh, he did?

41:44

Okay, good.

41:44

Yeah.

41:49

Okay, Martin. Back to you, Docs.

41:53

All right. Yeah, for the docs, I've been making some good progress. I mean, initial structure set up with Kenny last week, I've been getting, like, the high level gist of SPTC what it is from non engineers perspective, without getting too much down, know, complex topics and consensus breaking things in the second paragraph. And we're sort of paving the way to get down into these topics. And I've just gotten as yesterday it's been onboarded and started contributing to it. Jacinta and I had a great call today where Jacinta is sort of getting in the signer documentation things. I haven't synced up, so I'm just shouting out now, Marvin's not in the call, but Jesus, I would love to pick your brain and have a session and go through find a home for your knowledge within the documentation. So that's something we'll have to find each other, maybe not in this meeting, but somewhere else.

42:53

I'm hoping that you will be happy to contribute to that, but yeah, that's sort of the phase we're in. We're branching out now, taking the initial working group leads and people with a lot of knowledge to contribute, even if your name is not on this list. If anyone feels like, hey, I want to contribute to documentation, sykes said that to me, this is super important. I want to contribute to this. I'm super happy to have that because then right now we need to scale out a bit because this is very important to create alignment. Thank you. I will DM you and hopefully if you have time tomorrow yeah, but we're not scheduling this. But that's essentially it for the SPTC docs. It's a slow process to write good docs, but right now I'm very happy about the things that we're already having. So I think that we're on a good path.

43:46

That's it for the doc side.

43:48

Cool. Okay.

43:52

PM corner, Andre.

43:55

Cool.

43:55

Yeah, so I'll keep it kind of brief. I've just been keeping a backlog of some of the top product items that I want to make sure to surface in this meeting. So the first one is around Ordinals. I created an issue for this morning and it's something that we discussed early on in the spring. I think that the sense that I'm getting from conversations with developers and the Bitcoin Startup Lab and areas is that Ordinals are definitely an area that are driving developer interest in Bitcoin. I also just posted that some of our competitors are starting to look at this also. So really just want to make sure that this is something that is on our radar. And I know that there was an initial spec created in the original SBDC mini documentation. So just wanted to bring this up again that we should be designing the SBDC architecture in a way that could enable support for Ordinals to be upgraded in the future.

44:55

Second is around using SBDC to pay for transaction fees. So this is a usability question that I get sometimes, and I'm not sure if anyone is owning this particular item. So really, if you're sending SBDC between Wallets or maybe even submitting a peg out request, do you need STX to pay for those transaction fees or how can we kind of abstract that away from users? It's a question that we get a lot. Martin, do you have a comment on that?

45:27

Yeah, quick question. I know that there's been some experimenting on sponsored transactions on the stack side. Do you think that's enough for this or do you want to.

45:38

Yeah, I think that is the leading solution that we've come up with so far. Some more research that needs to be done into it. See if there's anything that's needed. I think especially on the clarity side, it's also not clear to me if that would cover Wallet to Wallet transactions where there isn't really a sponsoring party.

46:03

Okay. Yeah, I don't know the details of that. Okay. But it's good to know there's a dialogue on it.

46:07

Yeah.

46:08

So it's not clear who exactly is going to sponsor all of the transactions. I could see in some applications maybe that would make sense, but essentially like having a marketplace.

46:17

But yeah, we don't have to go down it. But if there's economics incentive for any stakeholder to actually pay for SPC transaction, that's a solution. Yeah, I'm not going to problem solve here, sorry.

46:29

Yeah, but yeah, I'm in the process of creating issues for all of these. So we should continue to keep that as an open item. Sponsored transactions could certainly be a good solution there. Next is just around the liveness ratio. So when the SPDC White paper was published, there's a liveness ratio of I believe 200%, maybe down to 160% at times. I think a lot of the user feedback has shown that is a barrier for especially institutional adoption where there's a cap on the amount of bitcoin that you can peg in. And so we've been looking at ways to remove this liveness ratio. I think one of the ways is really around these high reputation signers. Just really wanted to kind of flag that. That is a core product requirement that I'm not sure has been updated in the original spec or the many documentation so that this group has visibility into that.

47:28

And lastly is around the SBDC bridge. And we're in the process of really defining well, the SBDC bridge is really the primary way that most users will first interact with the SBDC protocol. And so in the process of defining really what these product requirements are going to be for the bridge, if we're going to have a central dashboard where the bridge will live alongside the signer and the signer dashboard and things like that, but just wanted to kind of flag this. It really is in my view like a primary product offering that we're taking to market that users will use to interact with the protocol. And so yeah, in the process of defining what that would look like and just wanted to flag it for this group as right now I've been keeping these in like a notion document but going to be moving all of that into these GitHub issues so that everyone.

48:30

Here can track them and that's it for me.

48:39

Great.

48:40

And then yeah. Were there anything else that we should.

48:47

Know about with that notion document, Andre? I saw it just includes product requirements.

48:53

Is this something that Martin you've seen?

48:59

Is this anything that needs to be socialized with the wider group on the call or anything that you are blocked on there?

49:07

Well, I think the biggest question marks are like the liveness ratio or collateralization ratio for SPDC because having that too low in the current design is going to be a security hazard and having that too high is going to inhibit Usability. So we need to have a closer dialogue on understanding the implications of this because that's an integral part of the current design and if it's not usable that would be a showstopper essentially. If that's not something that we can deliver with the current design, we have to rethink SPDC from scratch. Ordinals could also be one of those. I'm not sure there could be a smart solution for introducing Ordinals, but the current way SPTC is designed, that could beyond an incremental improvement and that's something we need to be humble and aware of. And also we have a lot of smart brains in here, so that means that if someone is cooking on an alternative SPDC design in their head and realize that my design can fix these problems, then it's better to get that out sooner rather than later.

50:10

And Jose previously posted a doc for a time locked BTC peg for Bitcoin, which was a very interesting idea. And there are some very different properties compared to SPDC. But one thing that solves this, for instance, that there's no collateralization ratio, there is not even a centralized wallet that holds a reserve of Bitcoin. People actually lock their own bitcoin and you create sort of more yeah, let's not get into those details, but it was a very interesting yeah, agreed.

50:39

It's also not clear to me.

50:42

If.

50:43

The current SBDC design to what extent it can support this ordinance functionality or if it would be like an adjacent product. I know it was included in the spec, so there might be a way, but requires a lot more thinking to kind of dig into that. And at least with the liveness ratio, that's currently how we're thinking about the signer functionality, especially because we have these high reputation signers where if we can basically confirm that more than 30% of the supply is held by these signers, it provides this additional security guarantee. So there are kind of these downstream product requirements. That's one sort of interim step that we could use to kind of remove the liveness ratio. Think there's some more work that needs to be done, maybe on the economic side and maybe a few additional analysis there, but other than that, just wanted to socialize it so we can all start collectively thinking about how it fits into these designs.

51:58

Jose, I had put this here. Not sure if this is something you saw or want to give thought to. We talked about this a little bit yesterday. I just know that it seems as if Jude flagged you as someone that might have some previous experience or knowledge about. I see you as a bridge between the Nakamoto group and the SBTC group and just wanted to kind of put that out there if there's anything that comes to mind in terms of how to leverage different resources between the two efforts to help them sync up better or move along faster. Just wanted to put this here and you can speak to it or yes.

52:52

So I'm reviewing the nakamoto sip the improvement proposal. So, yeah, it should be like a person able to answer questions about Nakamoto improvement, in particular about the BDF implementation. Yeah, but in general it's going to be most of the parts are transparent in terms of SBDC, so it's not going to affect much SBDC.

53:35

Great.

53:38

And then lastly, Sergey with testing, just.

53:42

Wanted to see where you're at on.

53:47

That front, if you've had a chance to connect with the critical bounty team, what the plans are for getting them.

53:54

Onboarded and if you're blocked on anything there.

54:01

Actually, I'm currently asking for SBTC team to help me to provide what they need, and then from that I will.

54:11

To.

54:16

Connect resources from.

54:24

So that's still ongoing.

54:29

So I'm still working on testing infrastructure and I not ready yet to onboard new people because as far as understood, if we start to give them tasks that we need to pay right now. Right. And I don't want to do this until we have solid work for them.

54:55

Okay, cool.

54:57

Except probably there's a nicos.

55:02

Yeah, cool.

55:07

Could I ask you to maybe ping them on that discussion thread or write them an email just so that they don't feel like they've been forgotten?

55:15

Okay, I will do it. Thank you.

55:21

All right, we got three minutes left.

55:25

Any items tomorrow, Martin, we're going to be going through the project board in the working group call. If anyone has anything in particular that they want to talk about in that call.

55:42

We have another 30 minutes together just.

55:45

With the SPTC team. So DM me or drop it in the Sprint channel. Igor?

55:52

Yeah, just quick note that I believe that the original SIF 21 contains another Kimodo design from last year, which I believe is no longer valid. And I think I've included a document by Jude that I think it's the most current.

56:17

So the new technical specification doc came in last week, and I know Jude and Aaron, you're working on that with Jude, the draft for the Sith. Is there anything that you want to speak to on that front that you want to have on the radar for the SBTC team? No, I think, Igor, the sip that.

56:45

You'Re linking there could probably just be closed, right?

56:51

Well, not the SBTC part, just the SPTC part.

56:55

Yeah, I would just for the fork.

56:57

Rolls, just remove all of that and you could forward reference the other sip.

57:06

Once we get the documentation out for SPTC, we can also close the SPTC parts of the sip because all the relevant information that's not outdated in that document is going to be covered by the documentation. So hopefully that document can be closed in a few weeks. It sounds like the Nakamoto part is going to be closed and SPDZ parts are going to be closed and migrated to other documents. So then there's nothing left.

57:29

Hope.

57:32

Great. Good.

57:36

All right, well, I will see you.

57:39

All one last mean. Both binding and PRX are changing pretty dramatically, and I think we run the risk of overlooking strange interactions that may pop up. SPTC has been kind of at least an incentive structure, has been assuming legacy mining and the new mining, I think we should be more intentional about thinking of possible weird states or transitions. So perhaps this just needs just some discussion in some architecture meeting, maybe flying for Aaron.

58:26

Perhaps something we can dive deeper in tomorrow's meeting as well, if there's anything in particular. That's a good point. All right. Will, you want to close the loop on this meeting?

58:38

Yes.

58:39

Good seeing you all.

58:41

And I'll see you tomorrow.

58:44

It's been a fantastic sync. Sorry.

58:49

Bye, everybody.

58:51

Bye bye.

58:54

The recording has stopped.