
Factom Bridge

Entity: Name (or first name if applying as a natural person)

Factom Bridge

Entity: E-mail address

matt@factombridge.com

Team member introductions

Ethan Garofolo - Software developer / Speaker / Author. Current development passion is microservices.

Harlan Stanley - Server / Network / Security / Automation administrator

Matt Whittington - Software Developer - Factom Employee - POC and occasional Factomd API developer.

Introduce your Entity/Company

Factom Bridge. The purpose of Factom Bridge is to create tools and support for environments that are not necessarily on the internet to access the Factom Blockchain without leaving the environment that they exist in.

How many nodes do you envision to run on the Factom Community Testnet (or other testnets?)

2

What type of legal structure does your team use?

Currently plan on LLC. Will actually form if granted ANO status.

Will you operate as an incorporated company?

In some form.

If yes to the above, where are you/will you incorporate? Are you already incorporated?

No

Are there any major shareholders (>10%) other than the members in your application?

No

Do you and/or your team members have previous experience running a business or managing large capital? If so, make a short writeup of your experience below.

Our team members have been involved in a number of startups where other peoples money was involved.

The largest of these was a short lived digital currency exchange where much of the liquidity capital help was "other peoples money". That business was closed due to regulatory uncertainty instead of financial issues and the funds returned.

What has your team done to ensure a proactive approach to managing the financial aspects of your business? In acknowledgement of possibility unrelated financial considerations effecting the viability of Authority node servers, the fixed operating costs of housing and supporting these servers is being kept to a minority (< 50%) of the rewards being generated by those servers. This is true even at the reduced price currently enjoyed by the FCT rewards earned by the servers themselves. In addition to this a portion of the FCT rewarded is being staked for network standing and as an 'emergency fund' in case of unforeseen circumstances.

Clarify your commitment to the Factom protocol? What have you brought to the table already, and what will you bring in the future?

As one of our members has connections to Factom, he is very interested in the protocols success. Testnet servers have been made available to core developers to test code before wider release and load tools have been made (not yet released) for other testnet members to utilize.

What is your/your entity's motivation for applying for hosting Factom Authority servers?

Factom Bridge plans on developing tools to widen access to the Factom Protocol. hosting servers allows for dedicated time and hardware to be applied to this end. Current hardware that was on the testnet has been repurposed in the past and other testnet support was not offered due to hardware and financial constraints or budgeting.

What vision do you/your entity have of the future of Factom?

The Factom blockchain is going to be ubiquitous in the next 5 years. Its data oriented implementation of blockchain technology is too useful to not be widely used. This wide adoption is going to require support from the community so the Factom blockchain is not surpassed because of a more enthusiastic (if not as well implemented) project.

What will your efficiency be with only one node?	0,25
What will your efficiency be with two nodes?	0,5

Node #1 Type	Dedicated server
<i>Node #1 Location (VPS: Provider, Region // Other: Country, City, Datacenter)</i>	TBD Data Center in Provo Utah
<i>Node #1 CPU, Number of cores</i>	4
<i>Node #1 CPU, type & clock-speed</i>	i7-6770HQ 2.6 GHz
<i>Node #1 RAM, amount in GB</i>	32
<i>Node #1 RAM, scalable if < 24 GB</i>	Not applicable (>= 24 GB)
<i>Node #1: Storage, RAID type</i>	Current Raid 1. Target raid 5 implemented upon ANO acceptance
<i>Node #1: Storage, Disk type</i>	SATA, SSD, Current SATA SSD drives. Target will change
<i>Node #1: Storage, Free Size in GB for Factom</i>	500+ until Factom Blockchain grows
<i>Node #1: Storage, Do you have a separate factom volume/disks?</i>	Separate disk(s)
<i>Node #1: Connection & uplink speed (not just your NIC speed)</i>	100 Mbit

Node #2 Type	Dedicated server
<i>Node #2 Location (VPS: Provider, Region // Other: Country, City, Datacenter)</i>	TBD (Currently Austin, but will move)
<i>Node #2 CPU, Number of cores</i>	4
<i>Node #2 CPU, type & clock-speed</i>	i7-6770HQ 2600 GHz
<i>Node #2 RAM, amount in GB</i>	32
<i>Node #2 RAM, scalable if < 24 GB</i>	Not applicable (>= 24 GB)

Node #2: Storage, RAID type	Current non. Target raid5 upon ANO Acceptance
Node #2: Storage, Disk type	SATA, SSD
Node #2: Storage, Free Size in GB for Factom	400
Node #2: Storage, Do you have a separate factom volume/disks?	Separate disk(s)
Node #2: Connection & uplink speed (not just your NIC speed)	100 Mbit

Add any other information relevant to server specifications and hosting, including planned availability of your maintenance team and how you would propose to handle an unscheduled restart.

I answered these questions with what is on hand today. ANO acceptance allows for funding of whatever hardware (raid first) is needed.

Which date did you join the Factom community testnet (approximate date is ok)?

2/1/2018

How does your team administer the nodes (more options possible)?

By more than 1 team member, will add service as needed for physical access.

How many people in your team are able to operate the servers (including direct hired personnel, but excluding hired fallback companies)?

3

How many years of combined experience does your team have on running production servers?

15

Could you elaborate on the production servers your team has managed (amounts, OS-types, purpose)?

Harlan is the primary server / network / security asset in this group. He deploys enterprise level networks and security policies in multiple operating systems and environments as part of his regular employment and has for over a decade.

Have you run follower nodes outside the qualified-node pool on the testnet? If so to what effect? Other contributions to the testnet?

Yes. Matt has run ANO and Followers and made them directly available to Factom developers for testing. There is also an entry load testing service that will be made available in the near future.

Have you run any mainnet nodes? If yes, please elaborate why, and for how long

Followers for entry of a majority of the Factom entries that are currently in the Factom Blockchain. Also to support tools that run statistics and mine application specific data from the blockchain.

How are you going to make sure your nodes operate securely?

Harlan implements security policies on enterprise level networks. His policies will dictate access to the production ano servers.

How are you going to make sure you are able to respond quickly?

We have 3 team members that will have the knowledge to update or otherwise support our Authority servers. Our varied regular hours cover most of the hours of the day, but additional resources will be acquired if needed.

Could you provide a picture on how you would see your ideal auth node infrastructure?

An Authority Node with a hot swappable guard node. with an additional 2 guard nodes to handle access with the outside. Until application of actual guard nodes is suggested, these will be followers at the current time. external applications do not access authority servers, only guard/followers. As we are not using Virtual servers provided by another organization, these would exist in a data center with redundant power, internet, etc.

Free-text. Add any additional information deemed relevant.

Add any application supporting files here

<https://drive.google.com/open?id=19QlGOhpsiYZnE6Yy-jRiZ9-8oeHTJUW>