Short Message Report

Conversations: 1	Participants: 2
Total Messages: 32	Date Range: 10/9/2020

Outline of Conversations

DLUGDKY6N - 2020/10/09 · 32 messages on 10/9/2020 · Etienne Napoleone <etienne@terra.money> · Paul Kim <paul@terra.money>

**DEFENDANTS'
EXHIBIT
D1016**
23-cv-01346 (JSR)

Messages in chronological order (times are shown in GMT +00:00)

DLUGDKY6N - 2020/10/09

P	**Paul Kim <paul@terra.money>** <https://github.com/terra-project/lp-watcher>	10/9/2020, 4:58 AM
P	**Paul Kim <paul@terra.money>** I made a project...	10/9/2020, 4:58 AM
E	**Etienne Napoleone <etienne@terra.money>** Hey Paul	10/9/2020, 5:48 AM
E	**Etienne Napoleone <etienne@terra.money>** Thanks	10/9/2020, 5:48 AM
E	**Etienne Napoleone <etienne@terra.money>** Just one question...	10/9/2020, 5:49 AM
E	**Etienne Napoleone <etienne@terra.money>** Can you quickly explain me what's the role of lp-server? 😊	10/9/2020, 5:49 AM
E	**Etienne Napoleone <etienne@terra.money>** Is it just tracking rewards? Or is it actually triggering the distribution of them?	10/9/2020, 5:50 AM
P	**Paul Kim <paul@terra.money>** lp-server creates multisend transactions by receiving transaction information from Chai	10/9/2020, 5:50 AM
P	**Paul Kim <paul@terra.money>** In short: it basically replicates chai transactions	10/9/2020, 5:51 AM
E	**Etienne Napoleone <etienne@terra.money>** Ahhh yes ok, this is mirroring chai traffic on chain kinda	10/9/2020, 5:51 AM
P	**Paul Kim <paul@terra.money>** yes.	10/9/2020, 5:51 AM
E	**Etienne Napoleone <etienne@terra.money>** So basically chai was still working, but no tx on chain so no rewards	10/9/2020, 5:51 AM
P	**Paul Kim <paul@terra.money>** correct	10/9/2020, 5:51 AM
P	**Paul Kim <paul@terra.money>** we have two queue layer in both chai and terra	10/9/2020, 5:51 AM
P	**Paul Kim <paul@terra.money>** for making sure that we don't lost any of transactions	10/9/2020, 5:52 AM
P	**Paul Kim <paul@terra.money>** (Maintenance can be always happen also)	10/9/2020, 5:52 AM
P	**Paul Kim <paul@terra.money>** yes.	10/9/2020, 5:56 AM

P	Paul Kim <paul@terra.money> so the source code is really simple.	10/9/2020, 5:57 AM
P	Paul Kim <paul@terra.money> <https://github.com/terra-project/lp-watcher/blob/master/src/index.ts#L41-L50>	10/9/2020, 5:57 AM
P	Paul Kim <paul@terra.money> connect to websocket and sends rpc	10/9/2020, 5:57 AM
P	Paul Kim <paul@terra.money> receive message from websocket....	10/9/2020, 5:57 AM
E	Etienne Napoleone <etienne@terra.money> Yep nice	10/9/2020, 5:57 AM
P	Paul Kim <paul@terra.money> and increase the counter	10/9/2020, 5:57 AM
P	Paul Kim <paul@terra.money> <https://github.com/terra-project/lp-watcher/blob/master/src/index.ts#L9-L31>	10/9/2020, 5:57 AM
P	Paul Kim <paul@terra.money> timer logic checks the counter, makes pagerduty incident if that happens	10/9/2020, 5:58 AM
P	Paul Kim <paul@terra.money> ```WEBSOCKET_URL: '<ws://localhost:36657/websocket>', SERVICE_ID: 'P3PURMH', ESCALATION_POLICY_ID: 'PURBAIZ', EMAIL: 'paul@terra.money', AUTH_TOKEN: 'a4rY2K1SCxgfy-4KKM7h'```	10/9/2020, 5:58 AM
P	Paul Kim <paul@terra.money> This is the environment variables I am using.	10/9/2020, 5:59 AM
P	Paul Kim <paul@terra.money> hmm it would be better if we extract ALERT_THRESHOLD_PERIOD to environment variable as well....	10/9/2020, 5:59 AM
P	Paul Kim <paul@terra.money> not it is defined as 10 minutes	10/9/2020, 6:00 AM
P	Paul Kim <paul@terra.money> I want to see if it is okay within Chai maintenance period.	10/9/2020, 6:00 AM
E	Etienne Napoleone <etienne@terra.money> and still have lp-watcher report the outage even if it's just maintenance	10/9/2020, 6:15 AM
E	Etienne Napoleone <etienne@terra.money> .... lol	10/9/2020, 10:11 AM