

RING AS A FREE UNIVERSAL DISTRIBUTED COMMUNICATION PLATFORM

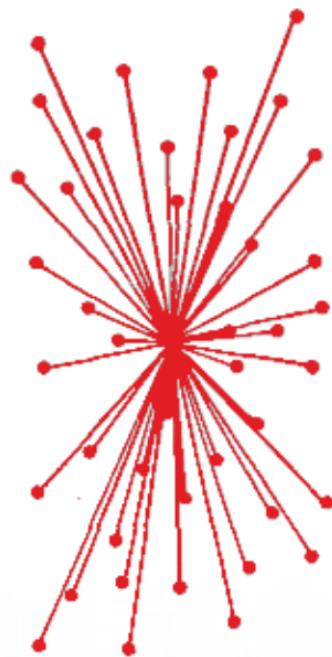
THE STATE OF THE PROJECT IN 2018

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Ring is a free universal
distributed communication
platform which respect
privacy



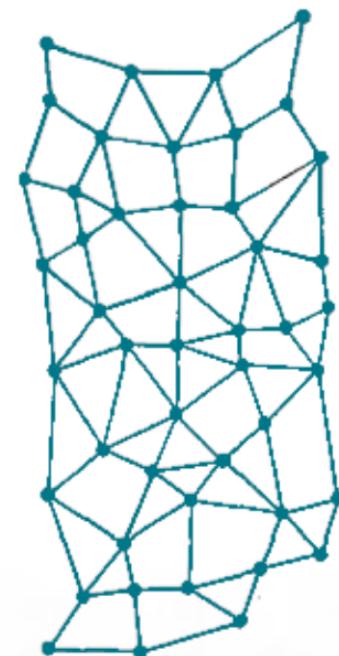
DISTRIBUTED?



Centralized

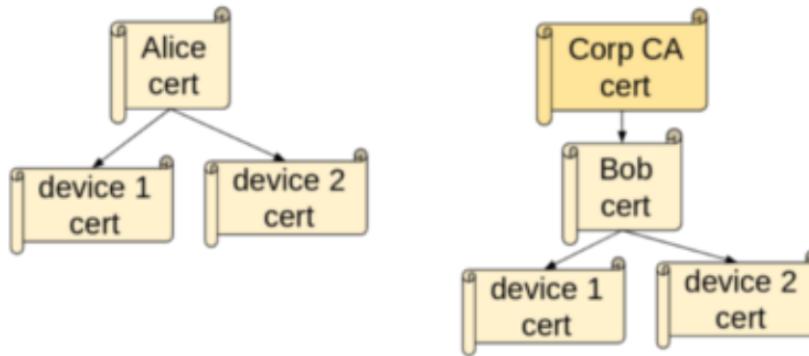


Decentralized



Distributed

GENERATE A RING ACCOUNT



- Account = RSA key pair.
- RingID = fingerprint of the public key.

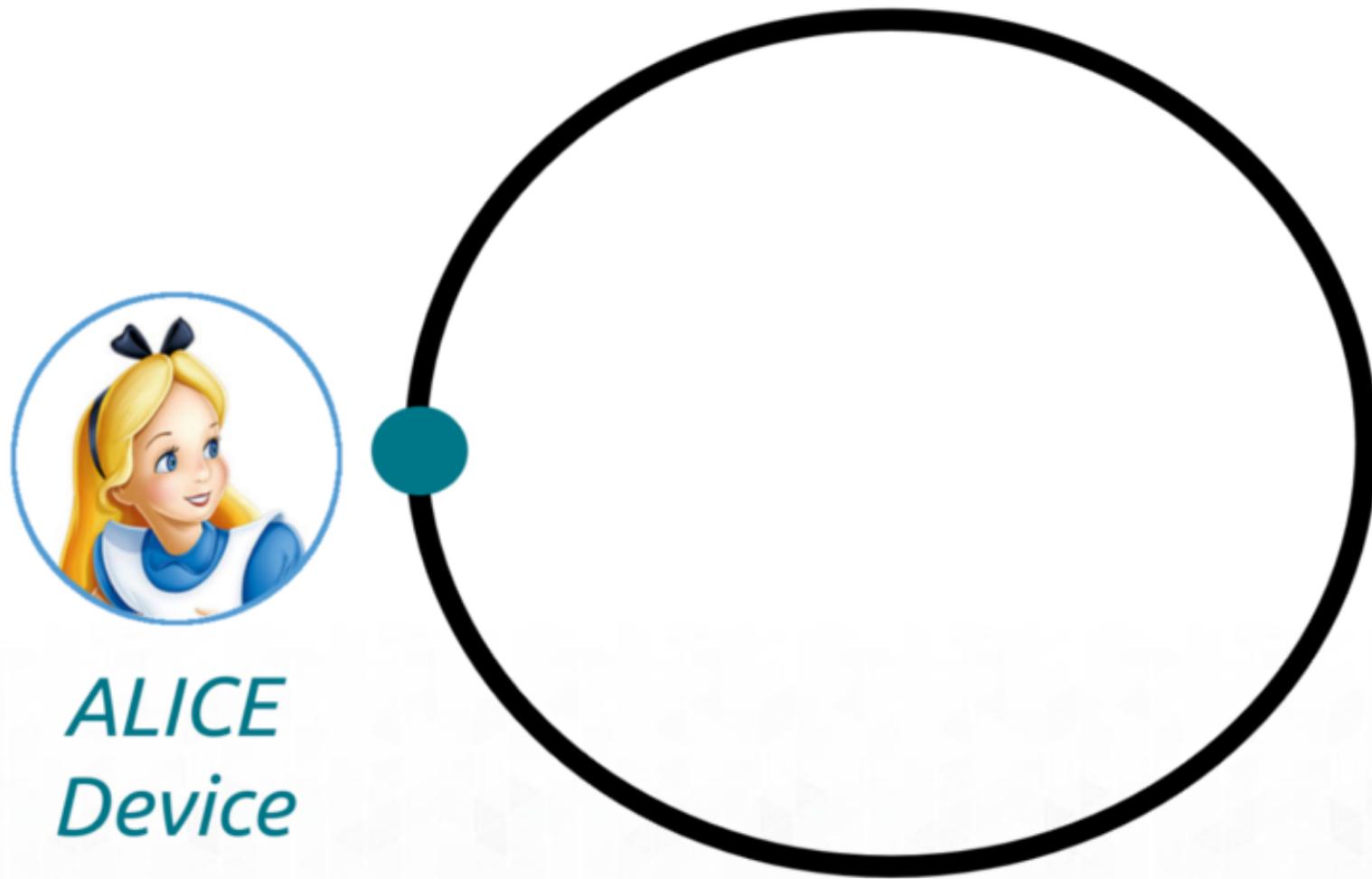
ring:346297f4f3629ae554b92442cc2fde46059f5ac0

NAME REGISTRATION: ETHEREUM CONTRACT

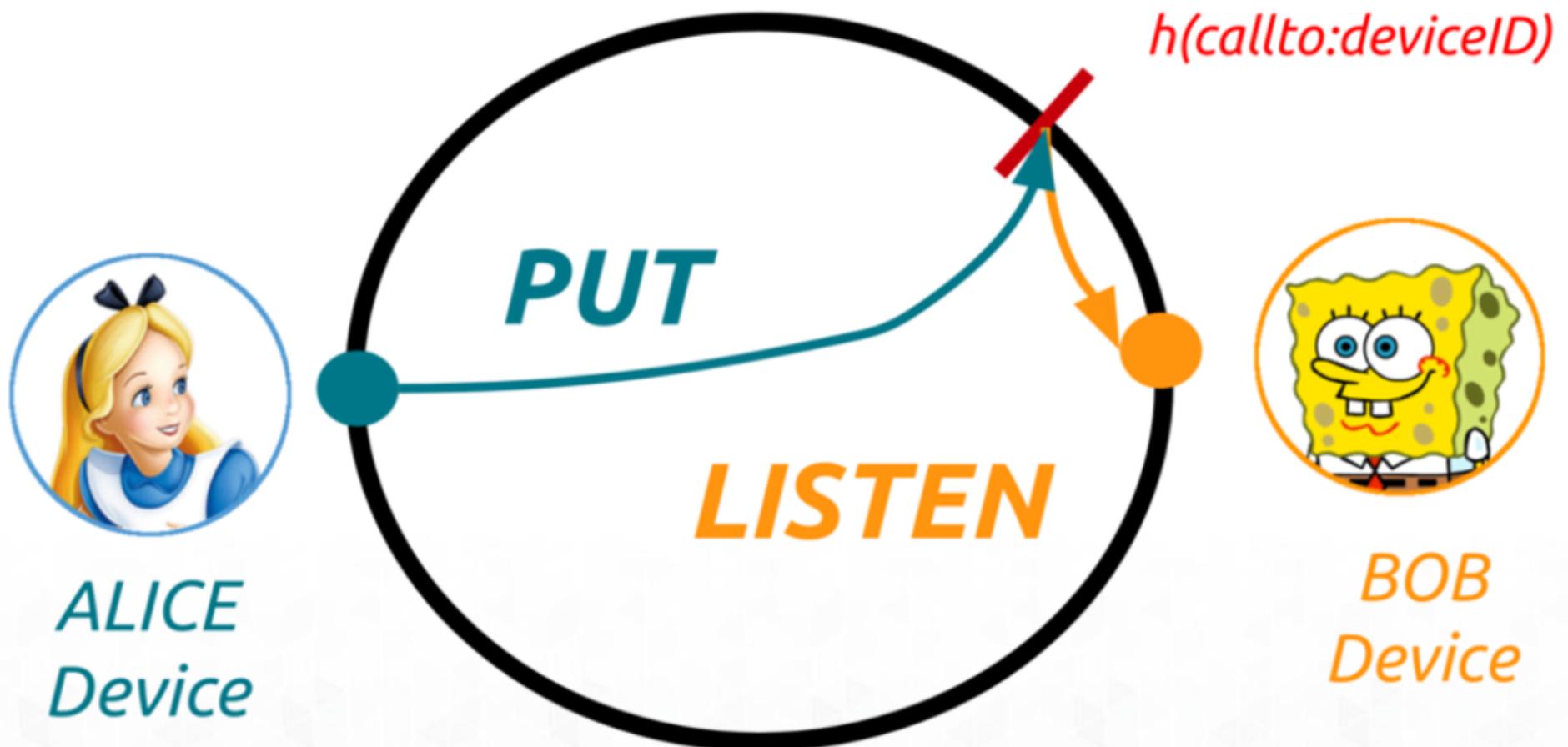


- Public distributed registrar
- Name <-> RingID mappings
- REST API
- Optional

LET'S COMMUNICATE



LET'S COMMUNICATE (2)



LET'S COMMUNICATE (3)

ICE Negotiation (RFC 5245)



ALICE
Device



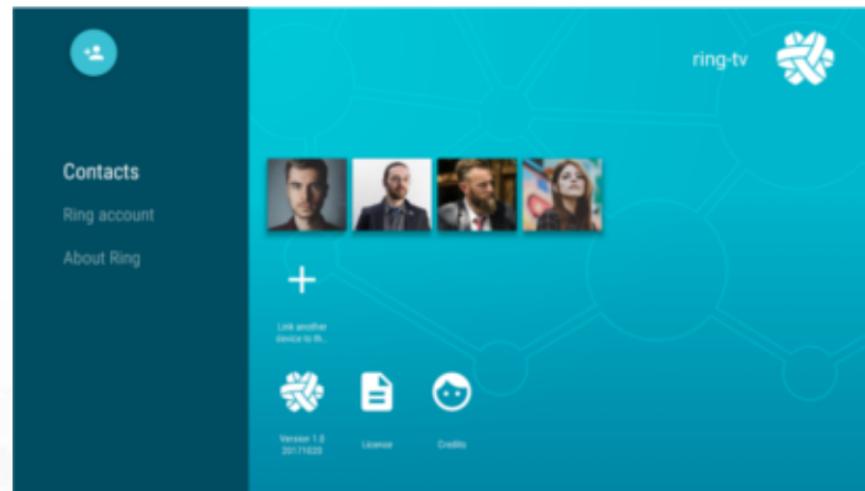
BOB
Device

UNIVERSAL



IN VARIETATE CONCORDIA - NEW PLATFORMS

- iOS
- Android TV
- FDroid

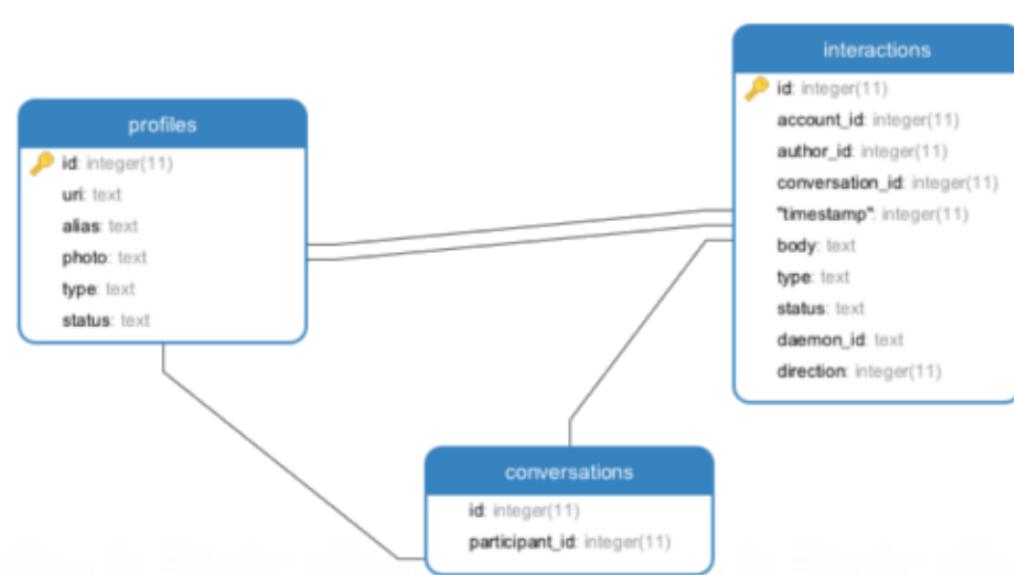
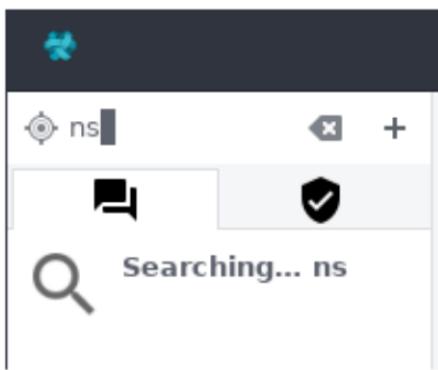


IN VARIETATE CONCORDIA - NEW FEATURES

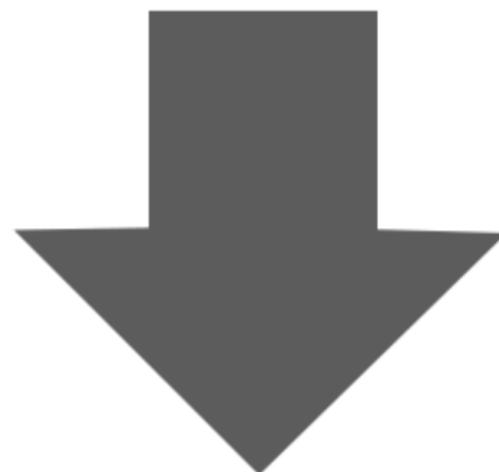
- File transfer
- Push notifications
- DHT Proxy
- Improved contact management

OTHER FEATURES

- Searching item
- Common database for each platforms
- Add the ability to change passwords
- vdpau acceleration support, etc.



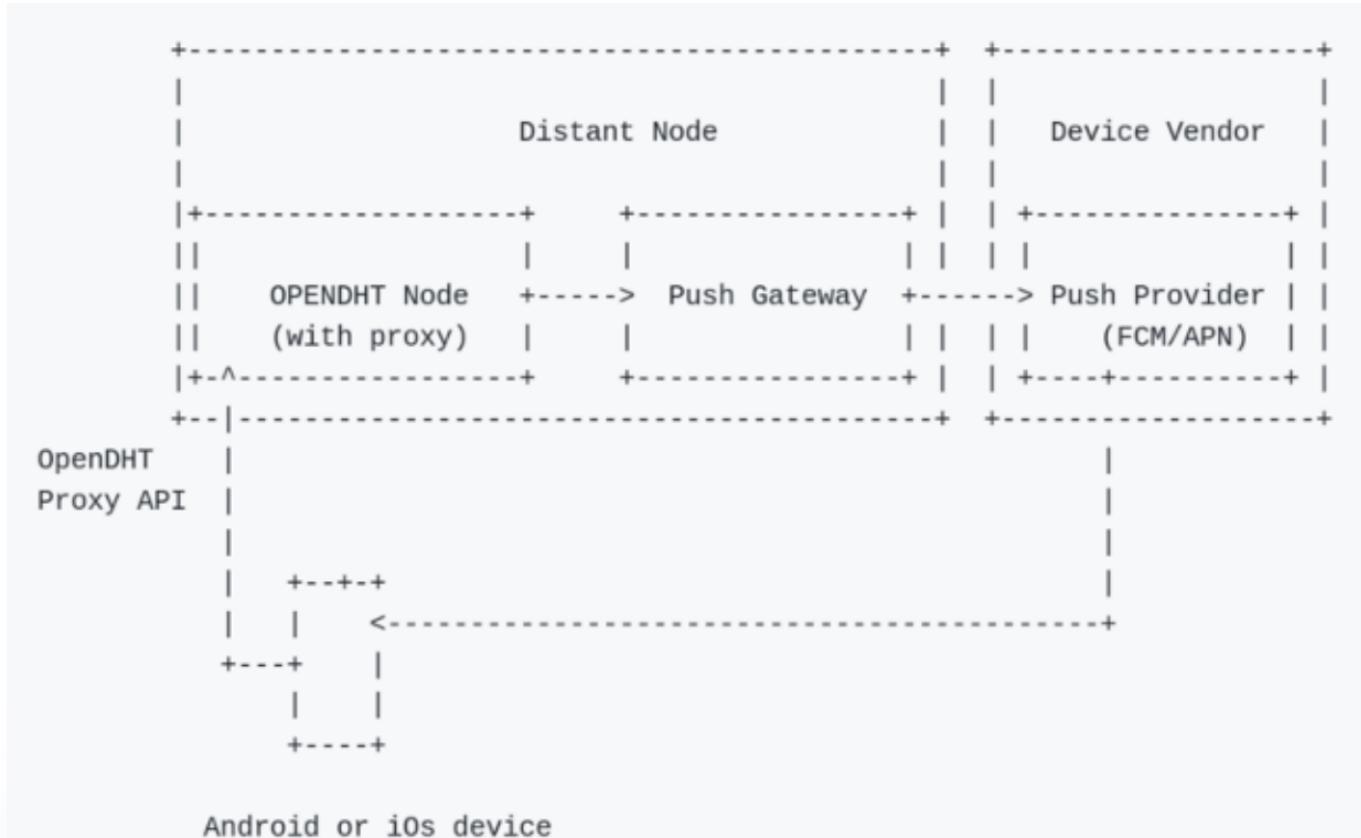
FILE TRANSFER



OPENDHT PROXY

- Use a trusted node as a proxy to LISTEN the DHT
- Usable via a REST API (see OpenDHT wiki)
- Avoid synchronization on the device
- Messages still decrypted by the device, not by the proxy

PUSH NOTIFICATIONS



See [https://github.com/savoirfairelinux/opendht
/wiki/Push-notifications-support](https://github.com/savoirfairelinux/opendht/wiki/Push-notifications-support)

2018 IN SHORT (1)

- Auto video quality: Optimizing the auto video quality algorithm (RTCP/RTSP feedback)
- A p2p file transfer implementation
- Improve the Telepathy Client
- Connect Ring to Matrix as well as possible
- Ring as a WebRTC client

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THANK YOU! QUESTIONS?



Ring
A GNU project

Join the Ring!

<https://ring.cx>

<https://tuleap.ring.cx/plugins/mediawiki/wiki/ring>