



**[matrix]**

**Matrix+MIMI**

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# The three questions

1. What is MIMI?
2. Why are we doing this, and how does it affect us?
3. Where are we at?

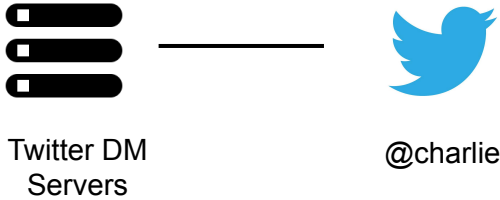
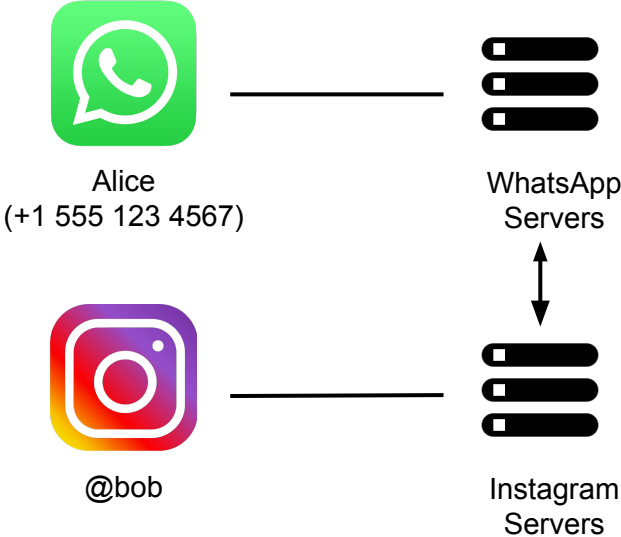
What is MIMI?

# MIMI



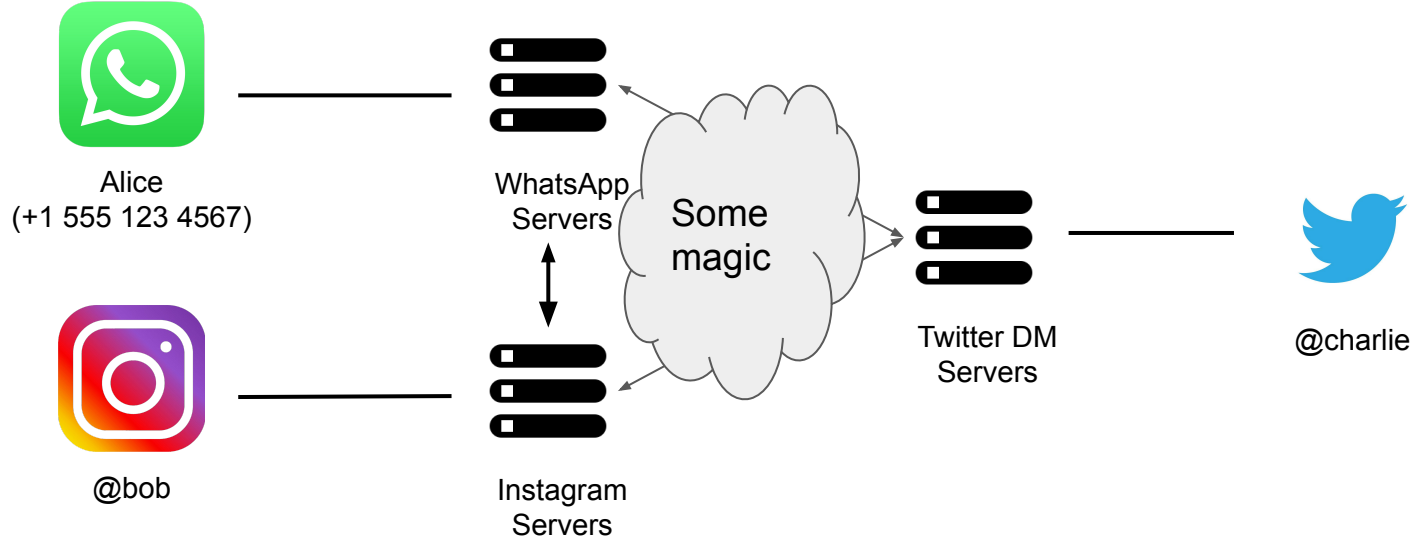
- More Instant Message Interoperability working group at IETF
- Created out of an interest to standardize support for the EU Digital Markets Act (DMA)
- DMA requires “gatekeepers” to interoperate with other messengers
- We think this is a good thing
- Matrix is an interoperable open standard for secure, decentralized, communication
- You might see where this is going...

# Gatekeepers: Today

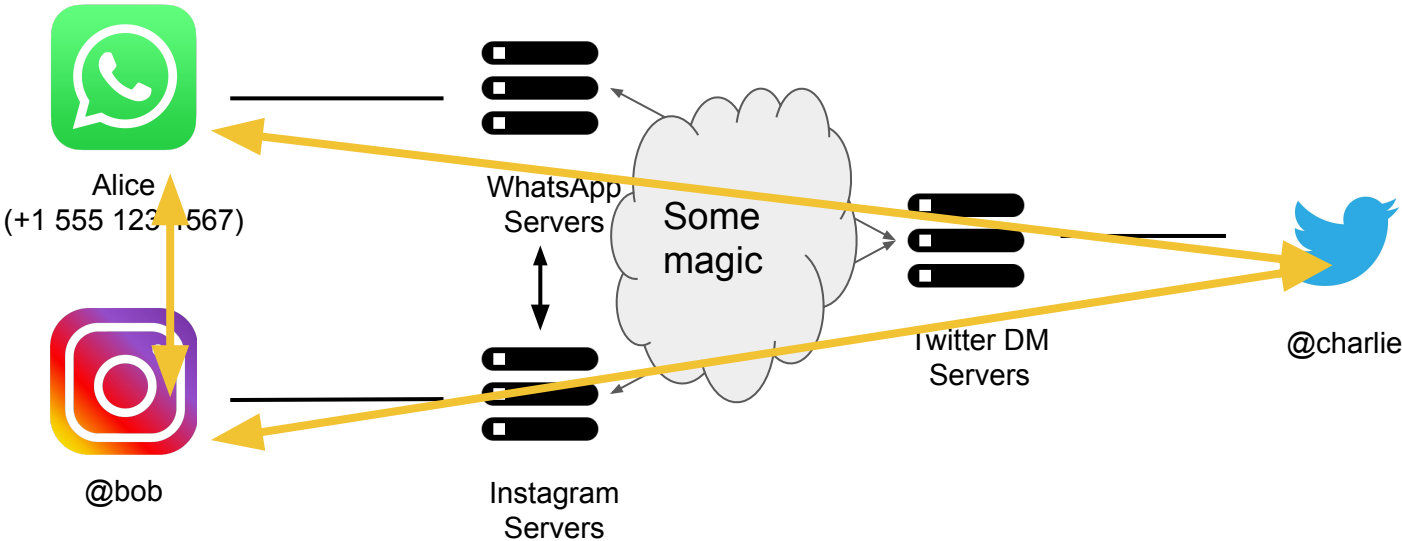


# What DMA wants

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... but also by maintaining E2EE

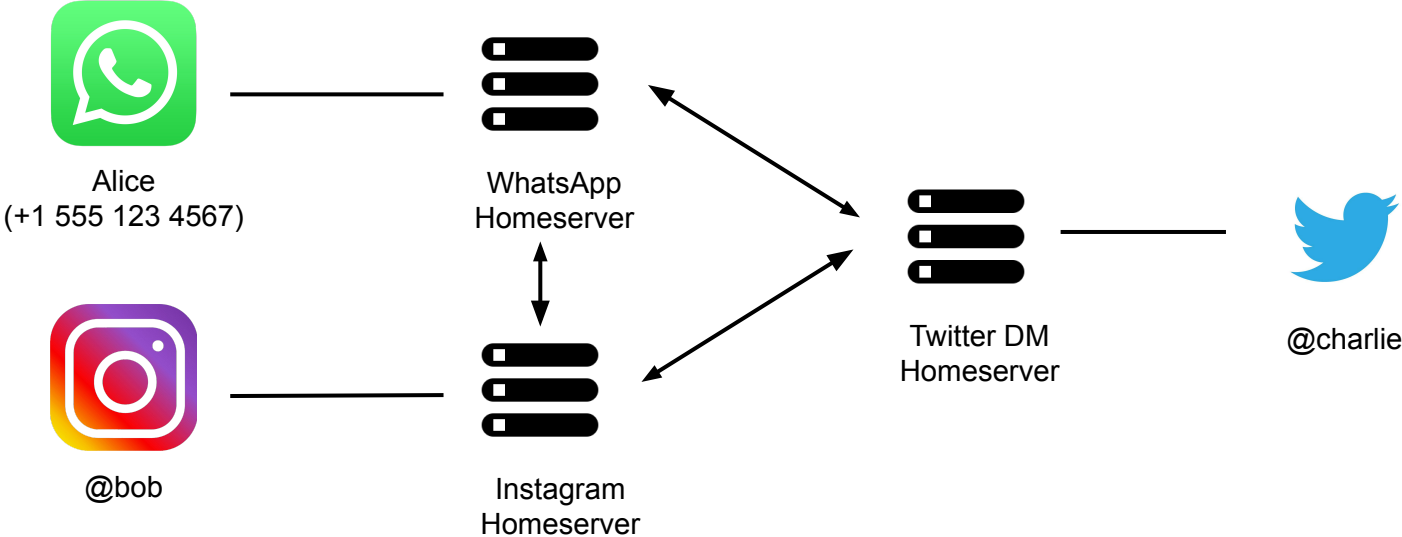


So, how would we do that?



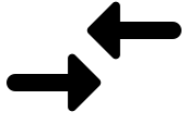
With Matrix, of course

# Matrix used for interoperability



# The bits we need

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Federation API &  
HTTPS Transport  
(MSCs coming  
soon)



Extensible Events  
(MSC1767 + friends)



Governance process  
to maintain an LTS  
(MSC3923)

# Federation API

- Server to Server Communication layer
- Alternative transports supported, but we're suggesting HTTPS for now
- Algorithms are kept in room versions (just like they are today)
- It doesn't involve any of the Client-Server API
- Implementation is relatively easy as a result
- Gitter case study shows how it could be done quickly

# Extensible Events (MSC1767)

- Events contain information that is sent over the Federation API, like text messages
- Can be end-to-end encrypted using Olm/Megolm or (D)MLS
- Interoperable using “Content Blocks” (alternative representations of complex events)
- We’re not actually proposing any event types to IETF, just the schema
- Matrix.org Foundation (and others) could become “registrars” for event types
- Collections of event types form features, like Instant Messaging, VoIP, 3D Worlds, etc
- Upcoming MSC describes this a bit better than this slide does

# Governance (MSC3923)

- We want to maintain rapid prototyping as a feature
- Don't want to propose every MSC through the IETF process
- Instead, “snapshot” Matrix as an LTS and maintain forwards compatibility
- Any changes on the IETF side get replicated as MSCs
- Relevant MSCs also get turned into IETF proposals
- If designed well enough, either side could reject a proposal and be fine (but this shouldn't happen very often)
- Spec Core Team (SCT) needs to sign off on this plan

Where are we at?

# November 2022: Status



2014: Matrix  
Created



2019: Exited  
Beta



Summer 2022:  
MIMI started



November 2022:  
MIMI becomes  
WG



Q1 2023 and  
onwards: Lots  
of discussions



TBD: Matrix  
adopted by  
IETF



TBD: Matrix  
implemented  
everywhere 🚀



How can you help?

Sorry, it was 4 questions all along

# Let us know what you think

`#matrix-spec:matrix.org` is a great place to chat

Thank you