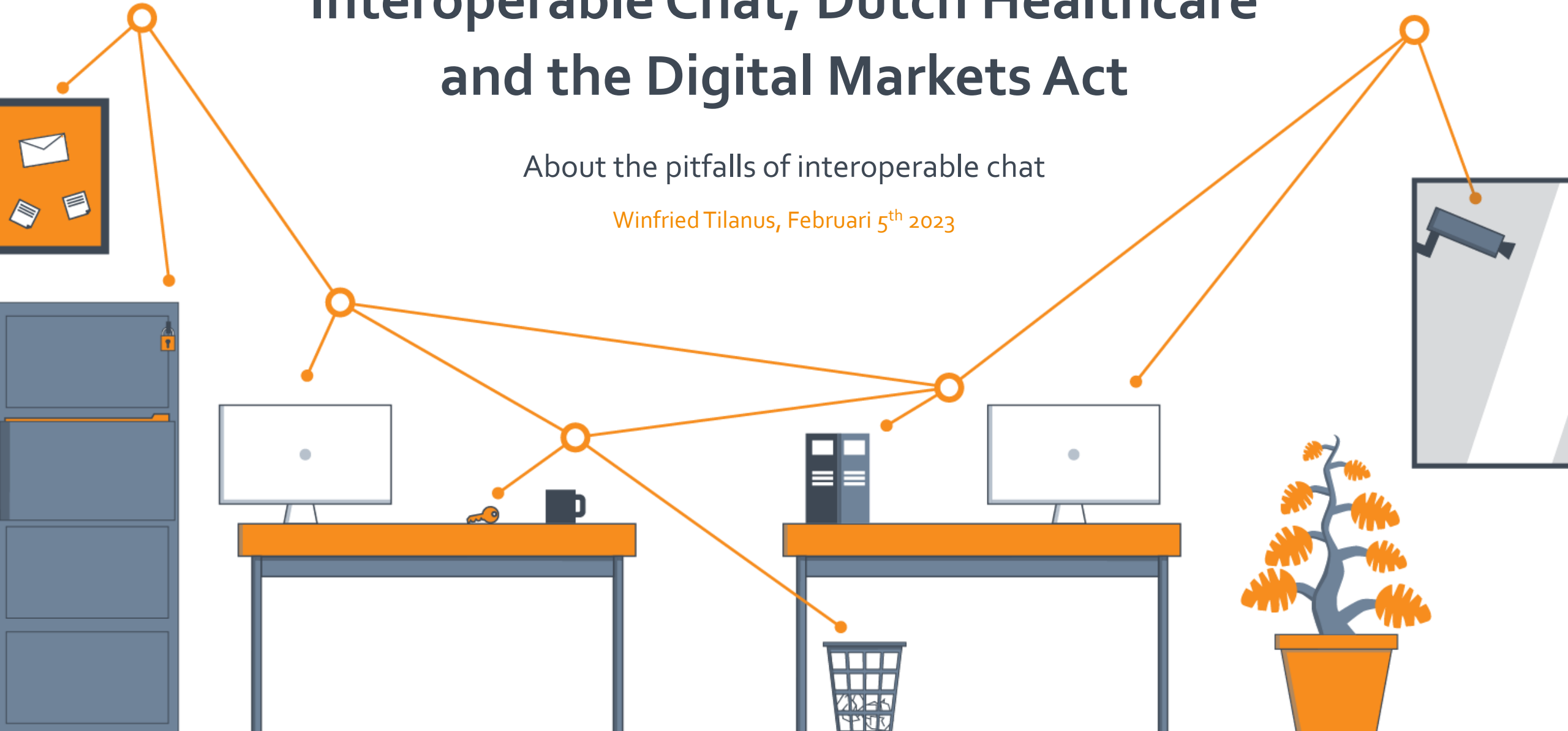


Interoperable Chat, Dutch Healthcare and the Digital Markets Act

About the pitfalls of interoperable chat

Winfried Tilanus, Februari 5th 2023



Digital Markets Act

- Designated Gatekeepers must:
- Open their chat
 - Chat in 3 month
 - Group chat in 2 years
 - Voice/Video in 4 years
- API is OK
- European Commission may draft a standard
- Same security features as their own product
- Neutral compared to their own product

Deja-Vu!

- Dutch ministry of health:
 - Standard
 - Chat
 - Interoperable
 - Secure
- NEN (Dutch Standardization Institute)

Secure? (1)

- Vendor A:
“We are secure because we offer state of the art E2EE, so nobody can eavesdrop on you!”
- Vendor B:
“We monitor all communications and filter harmful content, so everybody is safe on our platform!”



Secure? (2)

- E2EE has drawbacks:
 - Both clients must support same protocol
 - No spam/harmful content detection
 - Vendor can't control what is injected in network
 - Can have IP issues
- Standardization to E2EE is political decision!!!

Secure? (3)

- Dutch healthcare:
 - secured servers
 - no E2EE
 - only access after authorisation
- (Last point killed the project)

Interoperable with who?

- API for clients?
- S2S with limited parties?
- Open federation?

○ Functionalities (1)

- Chat isn't "just chat"
- Lots of functionalities
- Must choose:
 - Obligatory
 - Optional (service discovery!)
 - Not

Some functionalities...

- Sending messages
- Reply to specific message
- Message styling
- Consistent colors
- Showing presence
- Avatars
- vCards
- Event publishing
- Multiple clients
- Blocking users
- Server side message storage
- Message delivery receipts
- Chat states
- Message correction
- File (image!) transfer
- Delayed delivery
- Moved notification
- Real time tekst
- Stickers
- Disappearing messages
- Attach emoji to message

Questions / Discussion



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