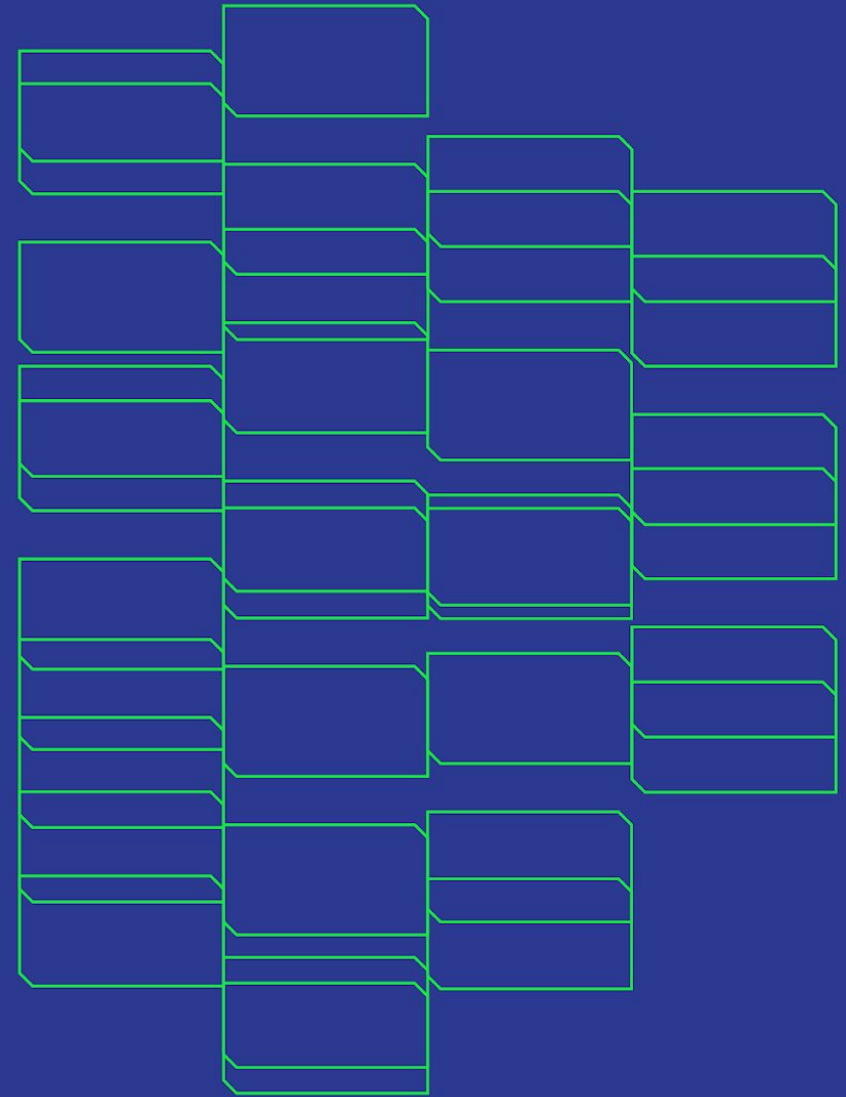


Why you can't trust your e-mail client

Jeroen Wijenbergh

Security Team @ GÉANT Amsterdam

eduVPN • NeMo • FoD • VMS



Co-funded by
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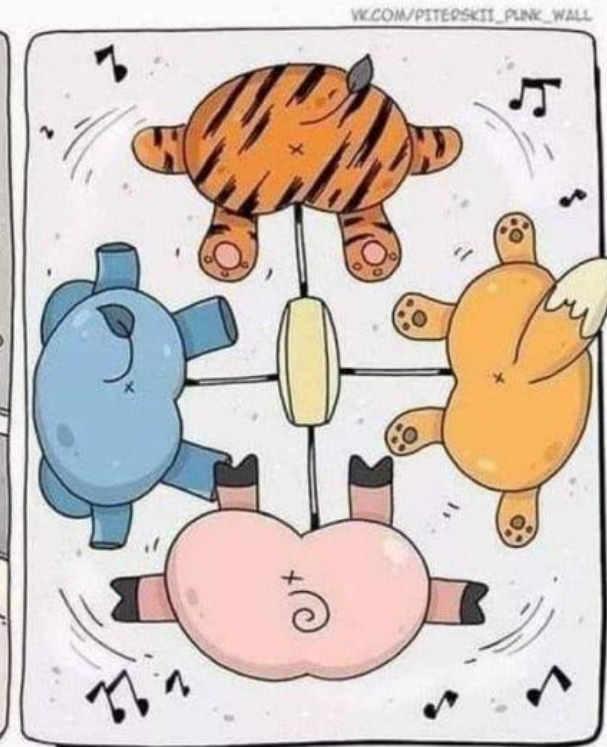
The problem

- Bad UI/UX -> Security issues
- E-mail: Security features leading to worse security?!
- Two examples:
 - Encryption
 - Safelinks

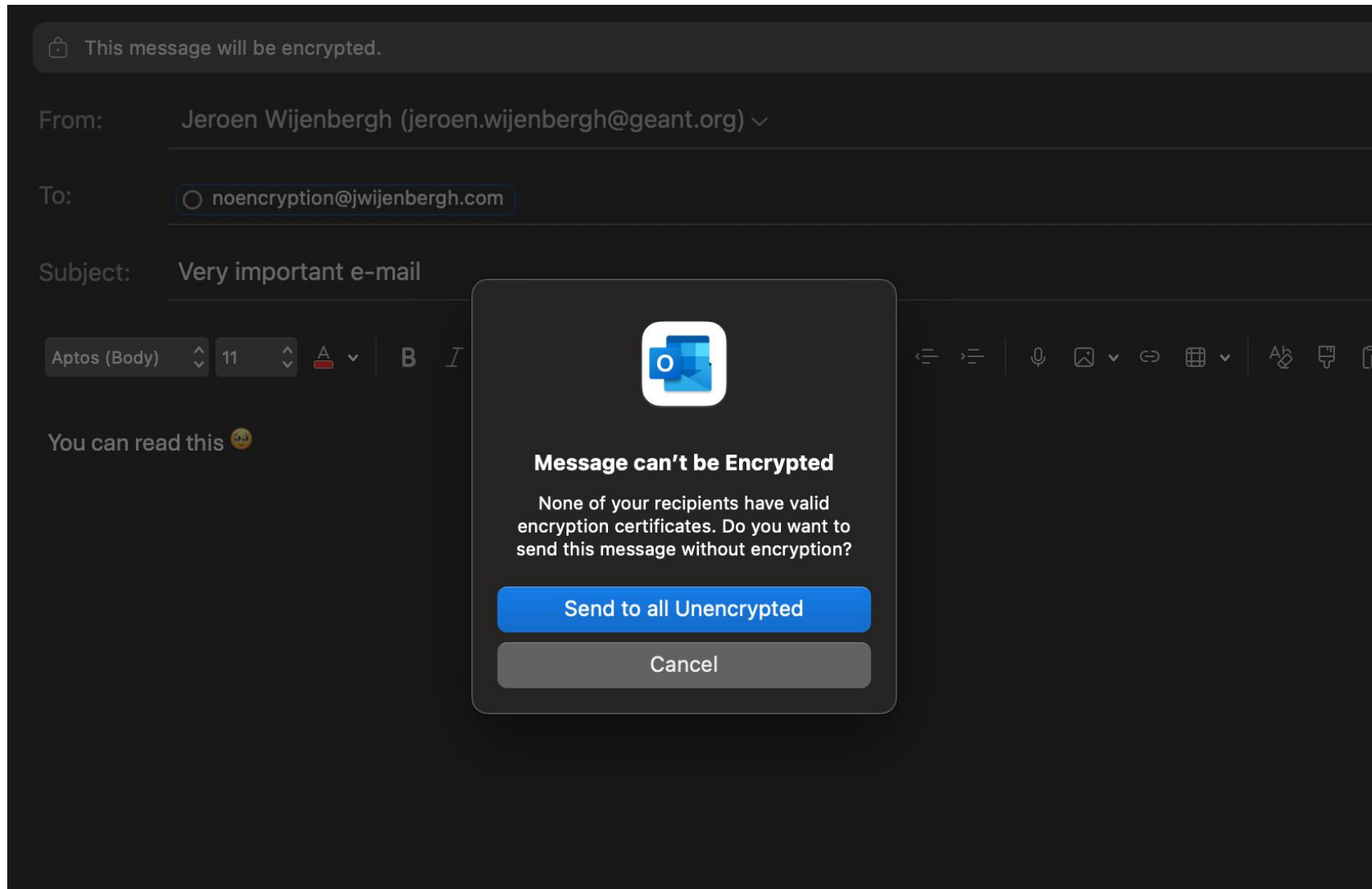
UI



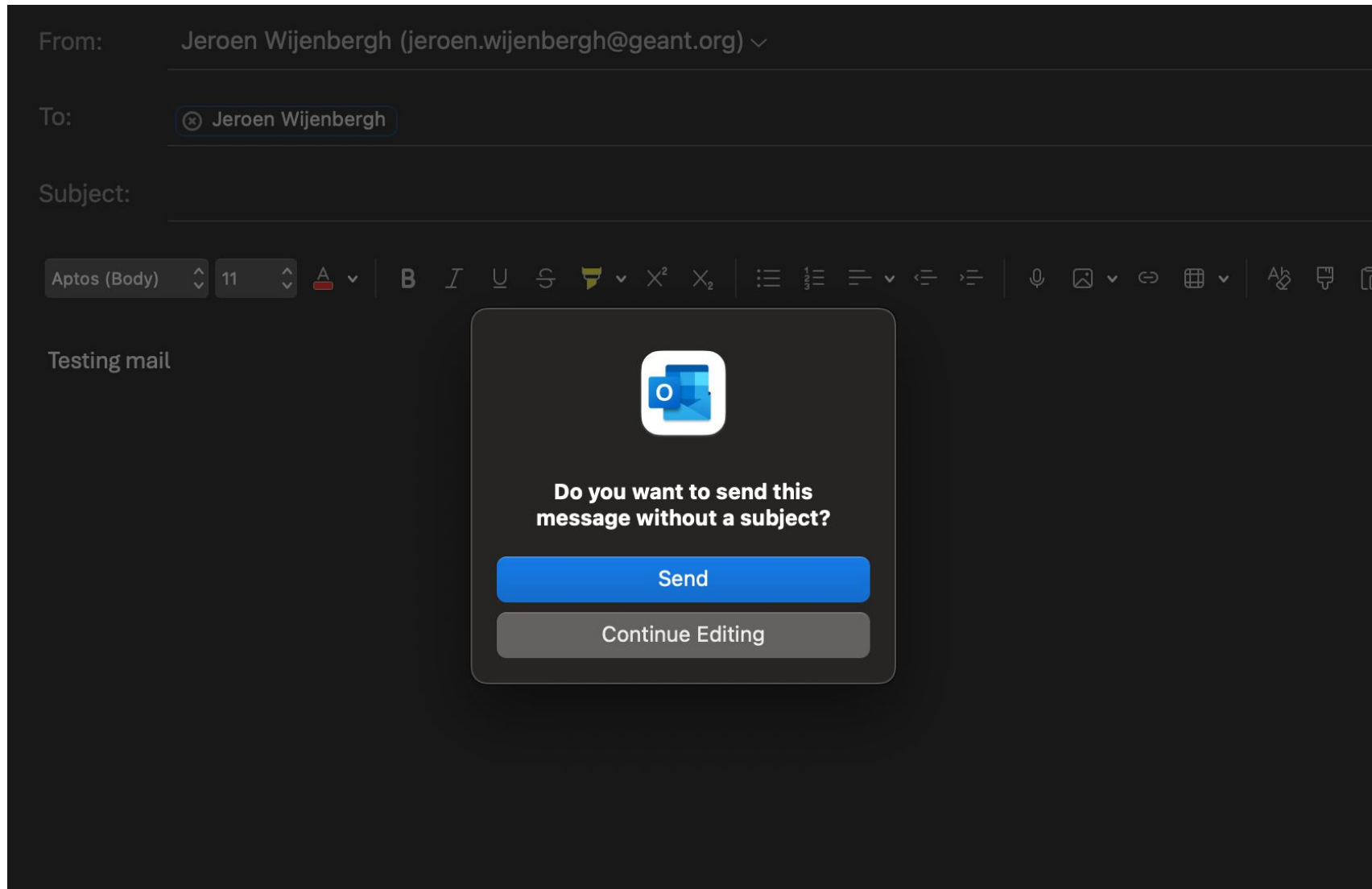
UX



Testing: S/Mime encryption

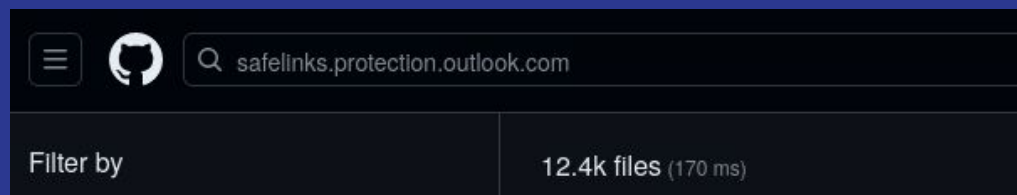
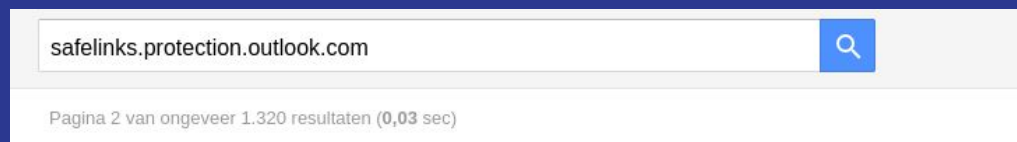


Testing: S/Mime encryption



Safelinks: Here's my e-mail

- <https://{eur,na}{01,02}.safelinks.protection.outlook.com/?url=...jeroen.wijenbergh%40geant.org...>
- Meeting notes
- Paper citations



Actual Security

The security provided by a system in practice, determined by (1) the security of the underlying technologies, and by (2) the extent to which users adopt the intended secure behaviour.

Brandon, M., Schraffenberger, H. K., Sluis-Thiescheffer, W., Geest, T., Ostkamp, D., & Jacobs, B. P. F. (2022). Design Principles for Actual Security.

The end

Any questions?

The "Security Days" logo is presented on a white, rounded rectangular background. The word "Security" is in a dark blue, sans-serif font. Below it, ".Days" is also in a dark blue, sans-serif font, with a small green dot preceding the period. The entire logo is set against a dark blue background that features a faint, green-outlined grid pattern of overlapping rectangles.

**Security
.Days**



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