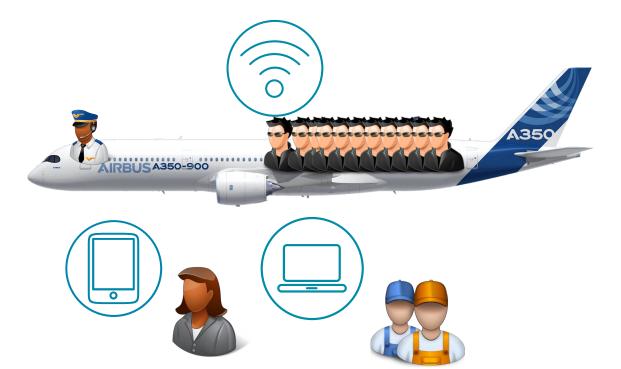


Yves RÜTSCHLÉ / Security Engineer
Pass-the-salt 2022
5th July 2022

We make connected things



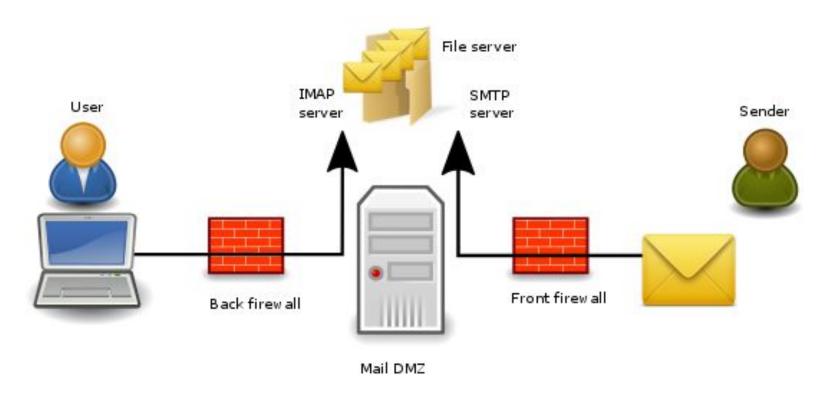
"Two security barriers"





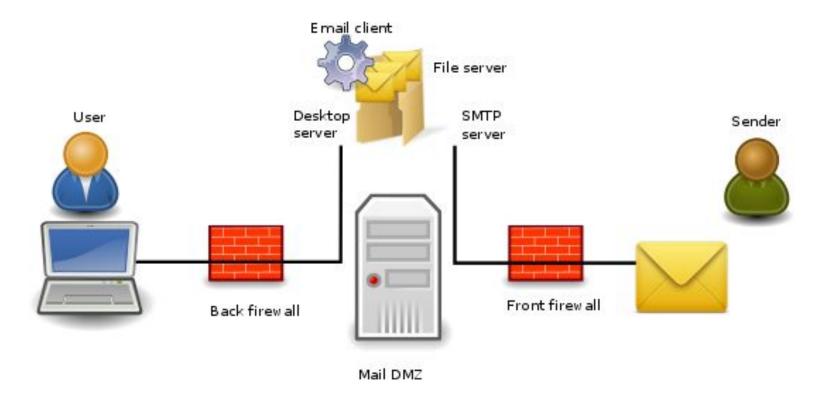


Let's make architecture diagrams





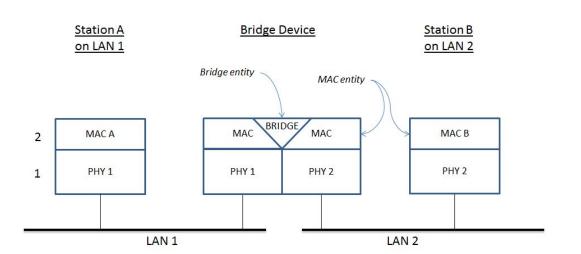
Let's make architecture diagrams

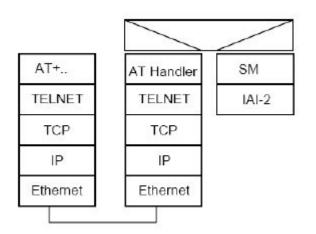




State of the art

A bridge connecting two LAN segments







Defining "data flow tabular charts"

Design goals

Show:

End-to-end dataflow

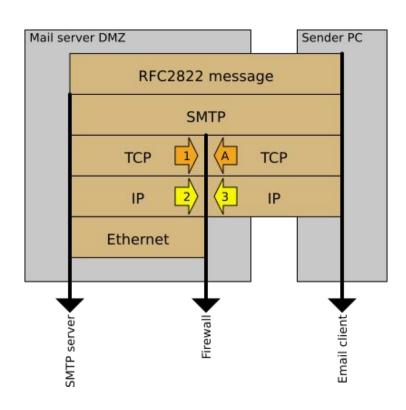
Protocols layers and changes

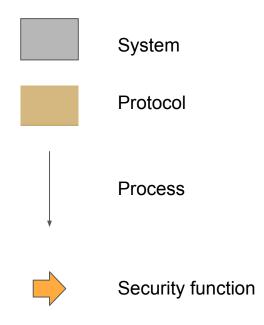
Processes and equipment crossed

Security functions



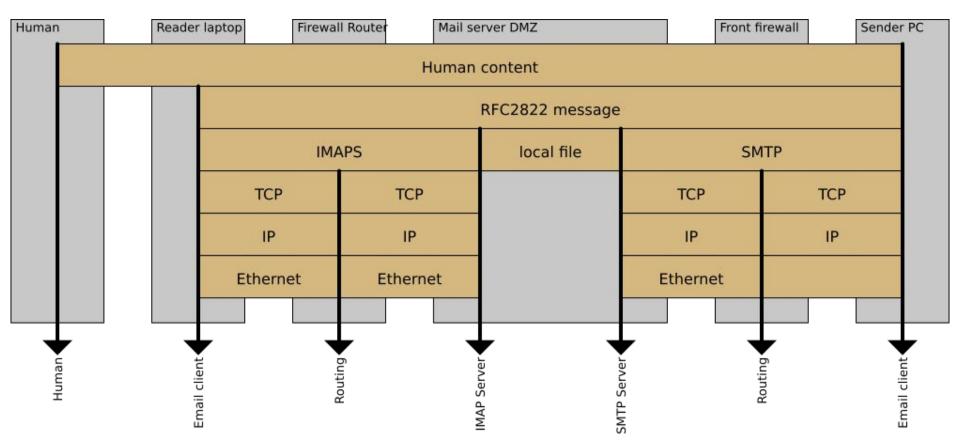
Elements of the charts





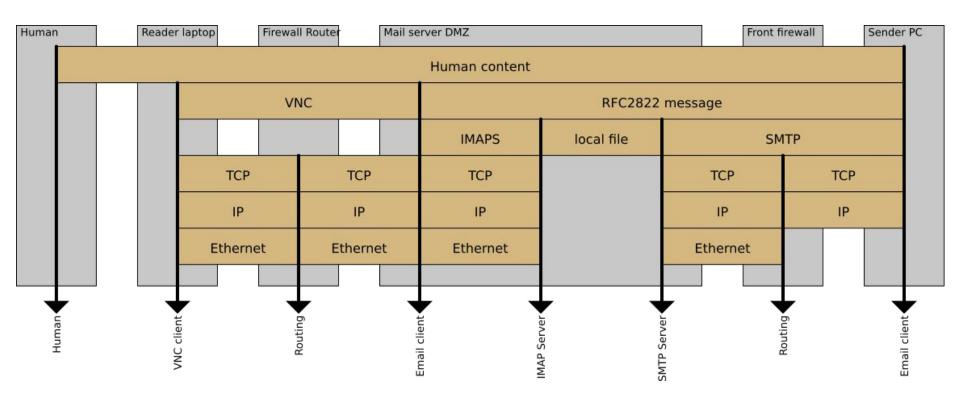


The e-mail case (IMAP version)





The e-mail case (VNC version)





Introducing dtc.pl

Keep charts consistent

Avoid fiddling with image editing

Satisfy boss' need for unnecessary changes

We should make this blue!



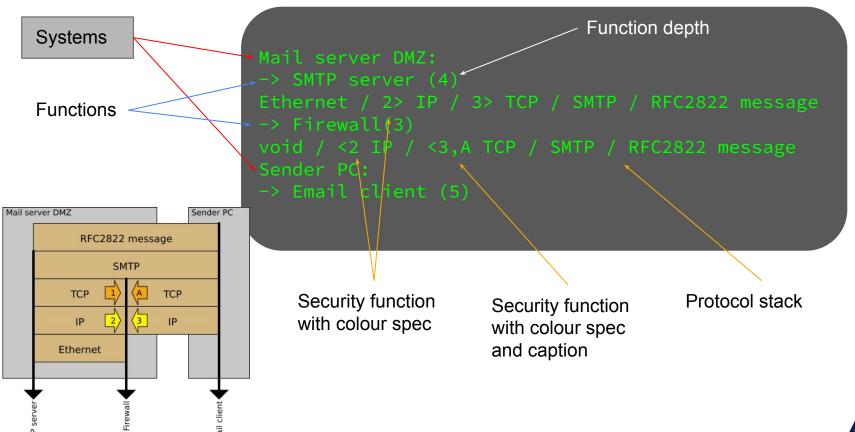
\$ dtc.pl email.dtc -o email.svg

Inkscape converts SVG to anything

https://www.rutschle.net/tech/dtc/dtc.html



Introducing dtc.pl





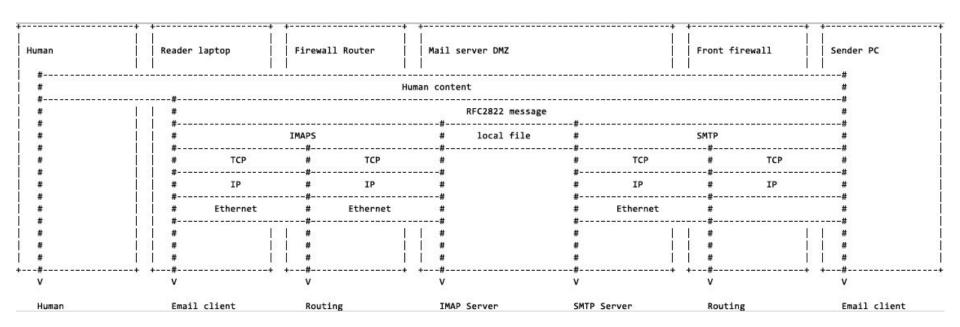
Introducing dtc.pl

```
Human content
         VNC
                                                     RFC2822 message
                                  IMAPS
                                                  local file
                                                                            SMTP
                   TCP
Ethernet
                Ethernet
                                 Ethernet
                                                                  Ethernet
```



Dataflow tabular charts for RFC Editors

\$ dtc.pl email.dtc --format txt -o email.txt





Thank you

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