

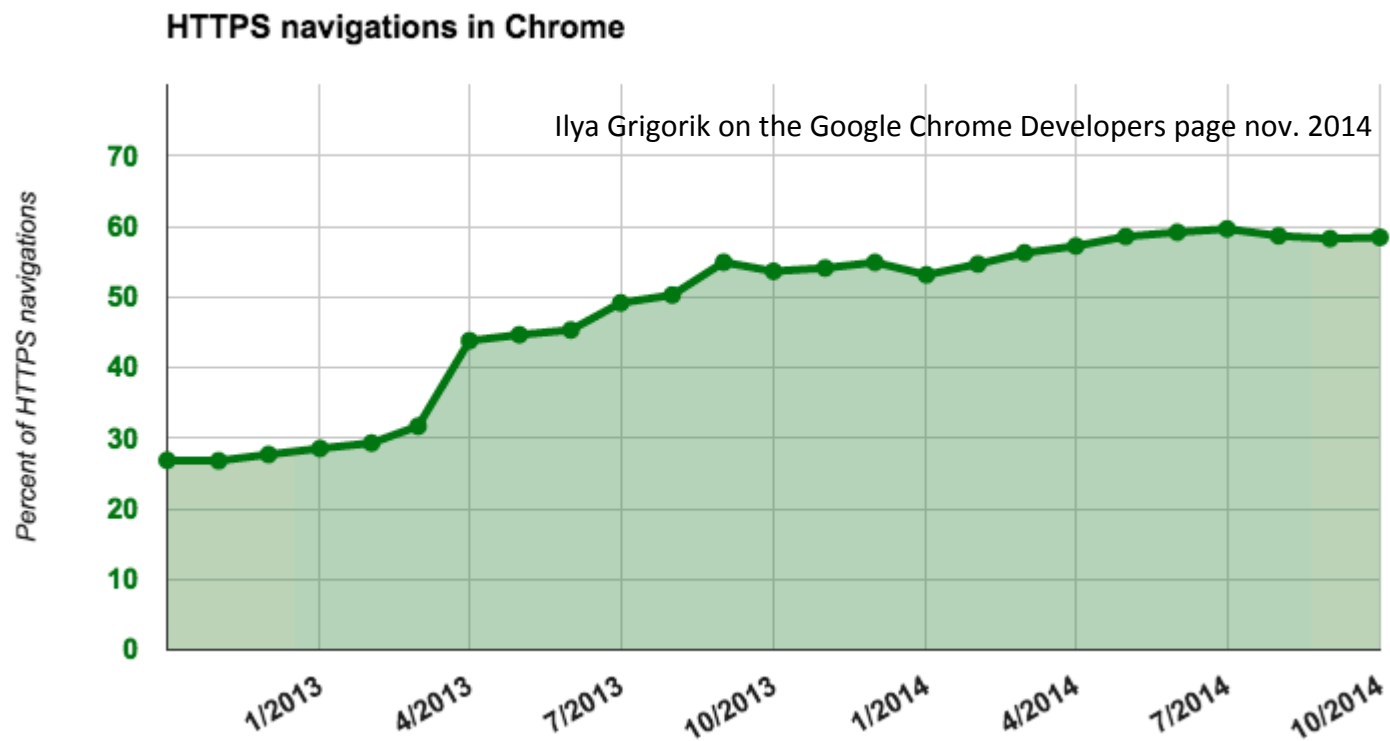
# **HTTPS and delegation of encrypted traffic between interconnected CDNs**

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## The classic use case:

An uCDN is delegating delivery of encrypted traffic (HTTPS) to a dCDN

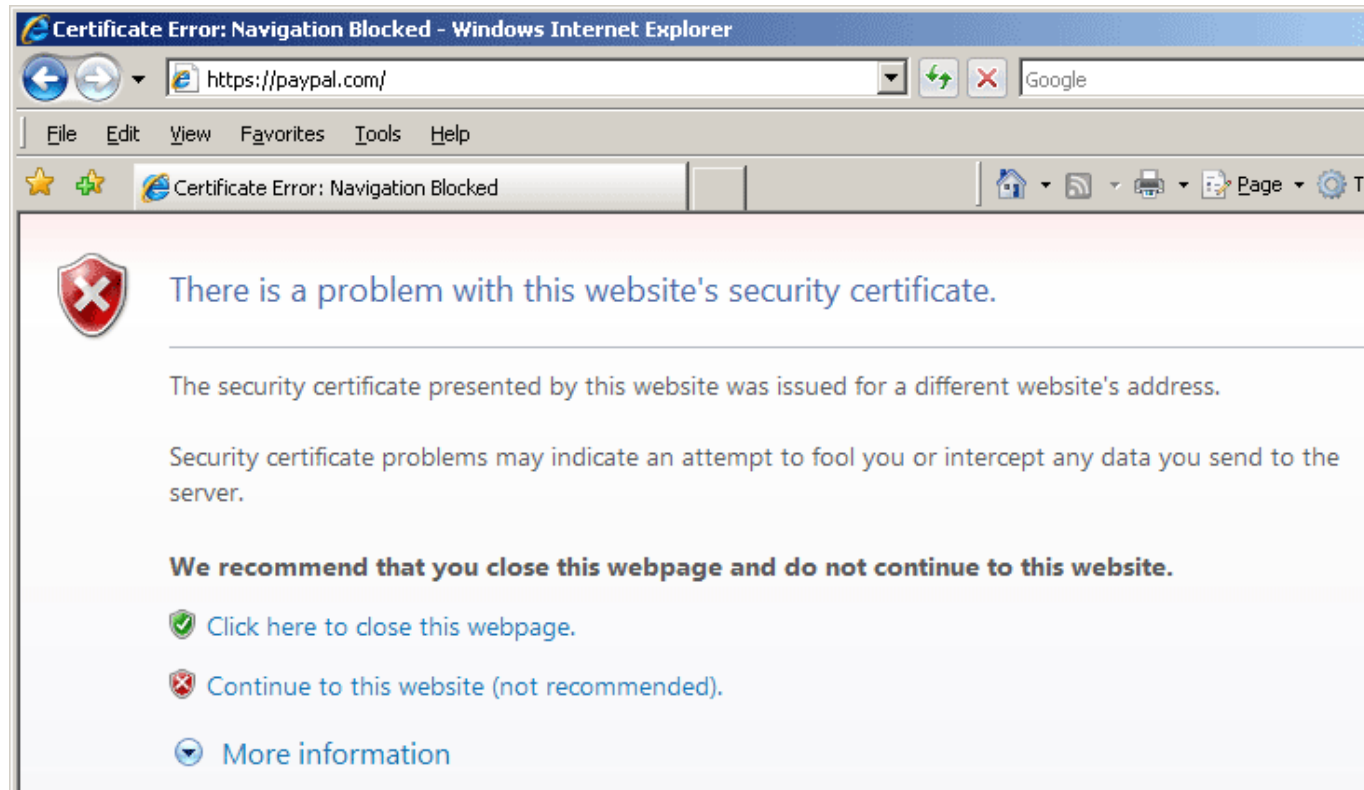
... because encrypted traffic is on a steep rise:



## The classic use case:

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... and you want to avoid messages like this:



## **The classic use case:**

An uCDN is delegating delivery of encrypted traffic (HTTPS) to a dCDN

## **Some existing technical solutions:**

- delegation of keys & cert management from the uCDN to the dCDN
- session key exchange in the TLS negotiation (aka Keyless SSL)
- alternative services defined in HTTPbis, DANE etc.
- extensions to CDNI metadata interface (see Ben's e-mail)
- there's more...

## **Some brainstorming questions:**

- is CDNI the right working group to look at HTTPS traffic delegation ?
- what's the interaction with the other working groups?
- should CDNI include this topic in the next charter?
- is there interest / are people willing to work on the topic?
- if adopted as an item, what are the future steps?
  - ✓ put together a draft... and then what next?

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**Now's the time to throw the rotten tomatoes at me!**