

*Apps: Architecture*  
*SAAG: Security*  
*Considerations*



**Architecture**

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**PRIME: Privacy Respecting Internet Mail Environment**

Internet Engineering Task Force Ninety-Two

# Threats



- Is purported creator/submitter of message is the actual?
- Service provider spoofing
  - Is intended provider (mail, key, DNS) is the actual provider?

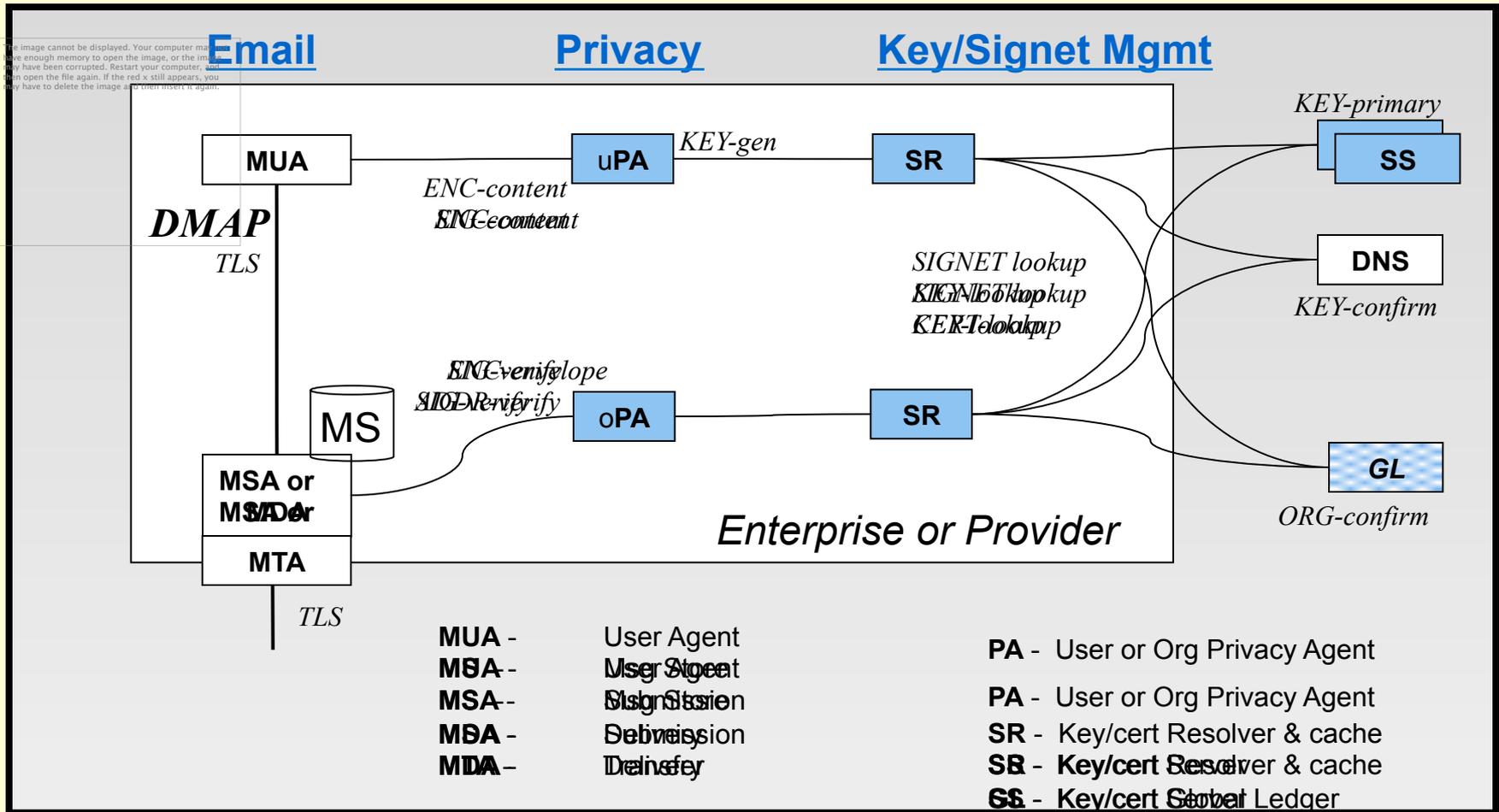
analyses; relationships and activity

# Design Goals

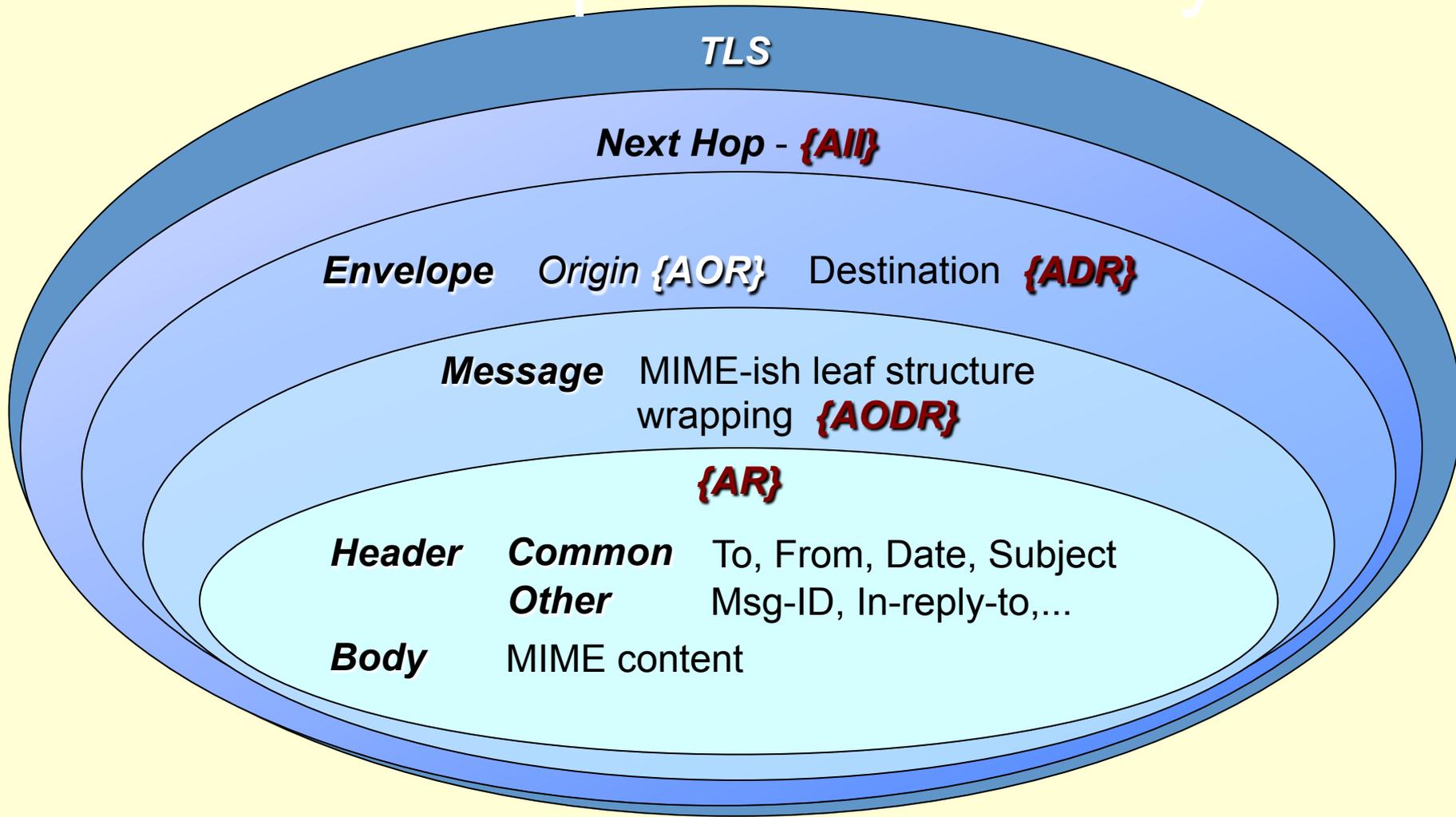
- Distinguished by **automated**
- Uses layers of message-based **end-to-end\*** **encryption**
- Provides message confidentiality, tamper protection and **reduces the leakage of metadata** along the handling path
- Strives to make security dependent on the **complexity** of a user's **password** and strength of their **endpoint's defenses**

\* Automation allows the “end” to be a user’s device, or server

# PRIME Basic Components



# PRIME Component Visibility



**Visibility:** *A: Author O: Origin R: Recipient D: Destination*

**For More Of The**

# **Good Stuff**

**BarBOF - Thursday evening**

**Docs**

**<https://darkmail.info/spec>**

**Discuss**

**<https://darkmail.info/forums>**

**Develop**

**<https://darkmail.info/code>**

FIN