

ATOCA: The Plan

A voice from the past ...

Questions to the WG

Proposed milestones:

1. Architecture
2. Secure Alert Format
3. Distribution Protocol
4. Broadcast Protocol

- Is this generally the right direction?
- Do we need to work on a distribution protocol?

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1. Architecture

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Registration

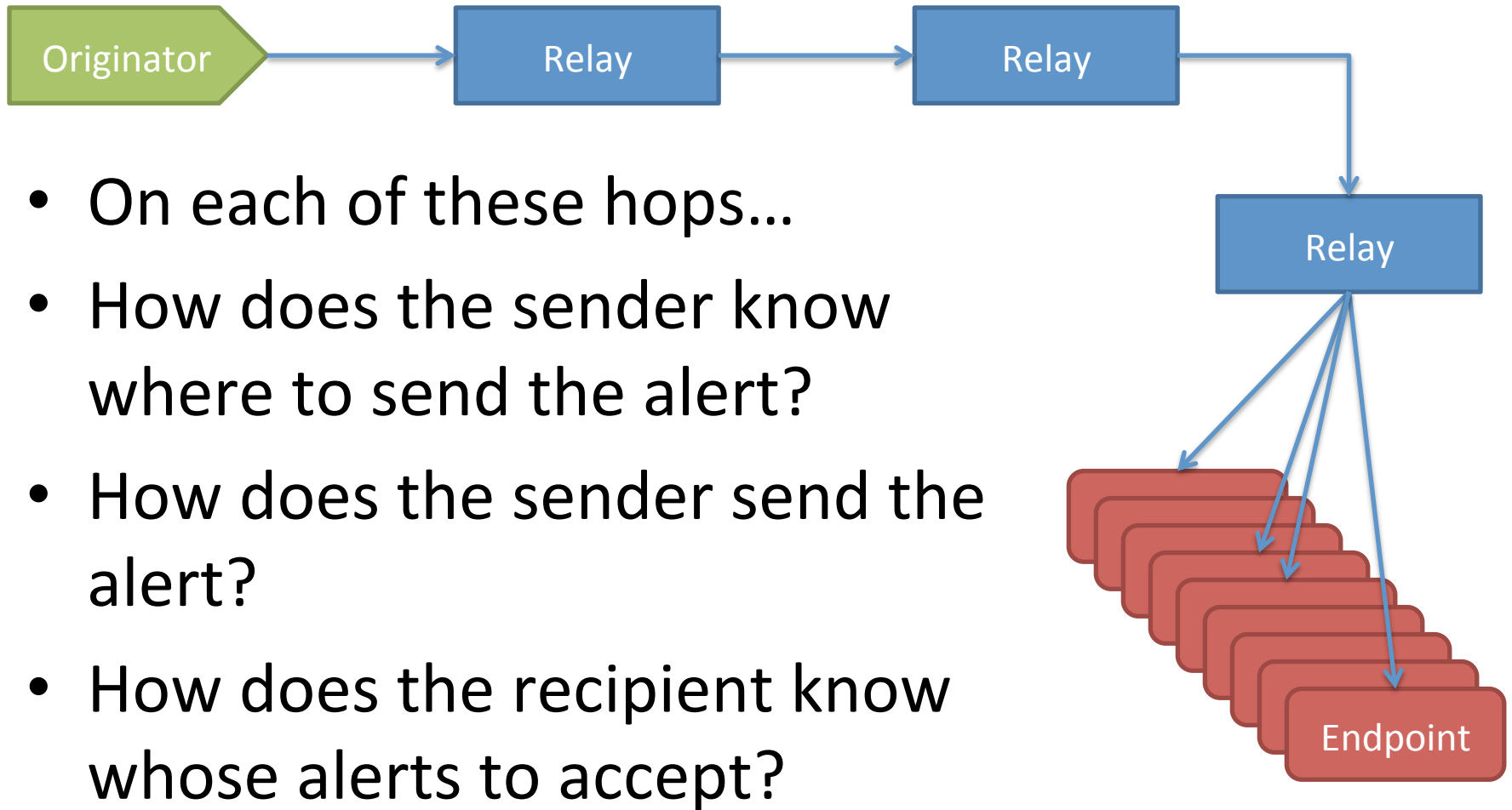


- Is this generally the right direction?
- Do we need to work on a distribution protocol?

The Documents

- draft-ietf-atoca-requirements
 - draft-barnes-atoca-cap-mime
 - draft-barnes-atoca-escape
 - draft-barnes-atoca-meta
 - draft-barnes-atoca-delivery
-
- How do these fit together into an overall solution for delivering alerts?

The Picture



Alert Targeting

- Two questions:
 - Who should receive the alert?
 - How should they receive it?
- Allow recipients to register information about themselves
 - Location, language, capabilities
 - Contact URIs
- Allow senders to advertise publication points

Alert Delivery

- Standard protocols apply: SMTP, XMPP, ...
- Also a desire for a simpler mechanism
 - Controllable ACKs, compatible with broadcast
- Define a simple, UDP-based fragmentation layer for delivering alerts
 - Sender divides full alert into small fragments
 - Retransmit to achieve some degree of reliability

Alert Delivery

- When a receiver gets an alert, how does it verify that it's OK?
- Provision recipients with prior information about which alerts are good
 - Hash over a nonce (without publishing the nonce)
 - Alert sender information contact info, public keys
- Provide corresponding verifiers in alert
 - Hash pre-image (the nonce)
 - Signature over alert body

Historical Milestones

Jan 2011 - Submit 'Terminology and Framework' to the IESG for publication as Informational

Apr 2011 - Submit 'Addressing security, performance and congestion issues for alert distribution' to the IESG for publication as Informational

Apr 2011 - Submit conveying point-to-point Authority to Citizen Alerts to the IESG for publication as Proposed Standard

May 2011 - Submit 'Discovering alerting servers' to the IESG for publication as Proposed Standard

Jun 2011 - Submit conveying point-to-multipoint Authority to Citizen Alerts to the IESG for publication as Proposed Standard

Aug 2011 - Submit 'Considerations for interworking with currently deployed alert distribution systems' to the IESG for publication as Informational

For Discussion

Apr 2012 - Submit 'Terminology and Framework' to the IESG for publication as Informational

~~**Apr 2011** - Submit 'Addressing security, performance and congestion issues for alert distribution' to the IESG for publication as Informational~~

Nov 2012 - Submit 'Secure alert format for alert distribution' to the IESG for publication as Proposed Standard

Dec 2012 - Submit 'Discovering alerting servers' to the IESG for publication as Proposed Standard

Dec 2012 - Submit 'Lightweight conveyance of Authority to Citizen Alerts' to the IESG for publication as Proposed Standard

Collapsed from “point-to-point” and “point-to-multipoint”

Jul 2013 - Submit 'Considerations for interworking with currently deployed alert distribution systems' to the IESG for publication as Informational

Omitted from the previous list

- Discuss the inclusion of items for:
- A MIME media type for CAP
 - Why? Pre-requisite for other items
- A SIP event package
 - Why? Enable registration for out-of-area alerts