

# IETF NEA BOF

(NEA = Network Endpoint Assessment)

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IETF 65, Tuesday, March 21, 2006, 3:20-5:20 PM

# NEA BOF Goals

- Review and discuss NEA Problem Statement
- Review and discuss NEA WG Charter, revise as needed
- Check consensus
  - Do you understand the problem we're trying to solve and agree it's important and solvable?
  - Should we form a WG with the proposed charter?
- Sign up volunteers for
  - Active participants (reviewing docs, etc.)
  - Requirements I-D
    - Contributors
    - Document editors

# Agenda Review

3:20 Agenda Bashing, Review BOF Goals

3:25 NEA Problem Statement

4:10 Proposed NEA WG Charter

4:55 Consensus Check and Volunteering

5:20 Adjourn

# NEA BOF Expectations

Participants are expected to have read the documents listed below:

- NEA Problem Statement

  - `draft-thomson-nea-problem-statement-01.txt`

- Proposed NEA WG Charter

  - Linked from IETF 65 Agenda

# NEA WG Charter

- Purposes
  - Define requirements for the protocols needed to ensure interoperability in an NEA system
  - Ensure standardization of protocols that meet these requirements (in this WG or others)

# NEA Problem Statement

draft-thomson-nea-problem-statement-01.txt

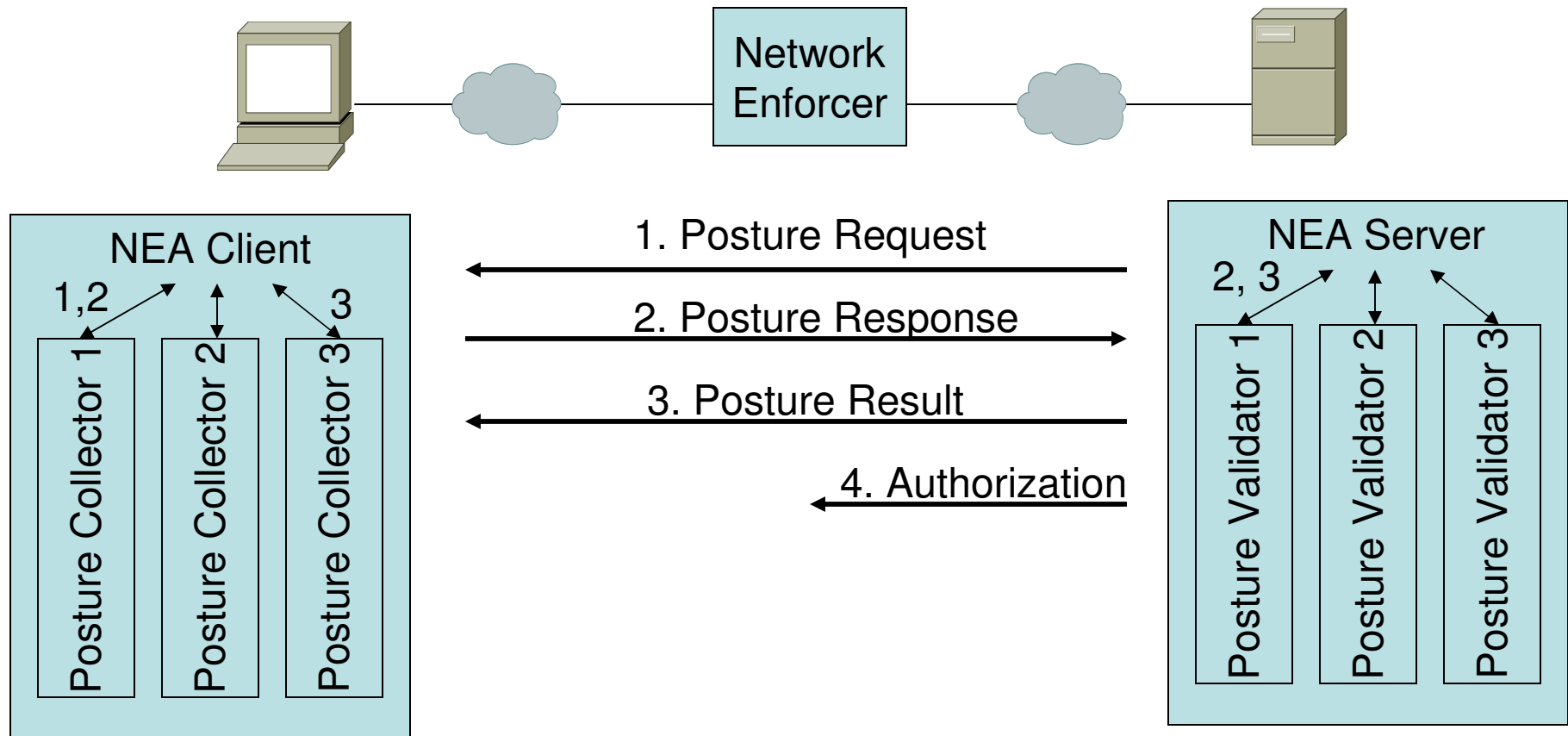
NEA BOF

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# What is NEA?

- Add *posture assessment* to authentication as part of network access control
- “*Posture*” is hardware or software configuration info e.g.
  - OS patches
  - AV signature file version
  - FW enabled
  - Etc
- Posture assessed against policy

# Message Flow





# Examples

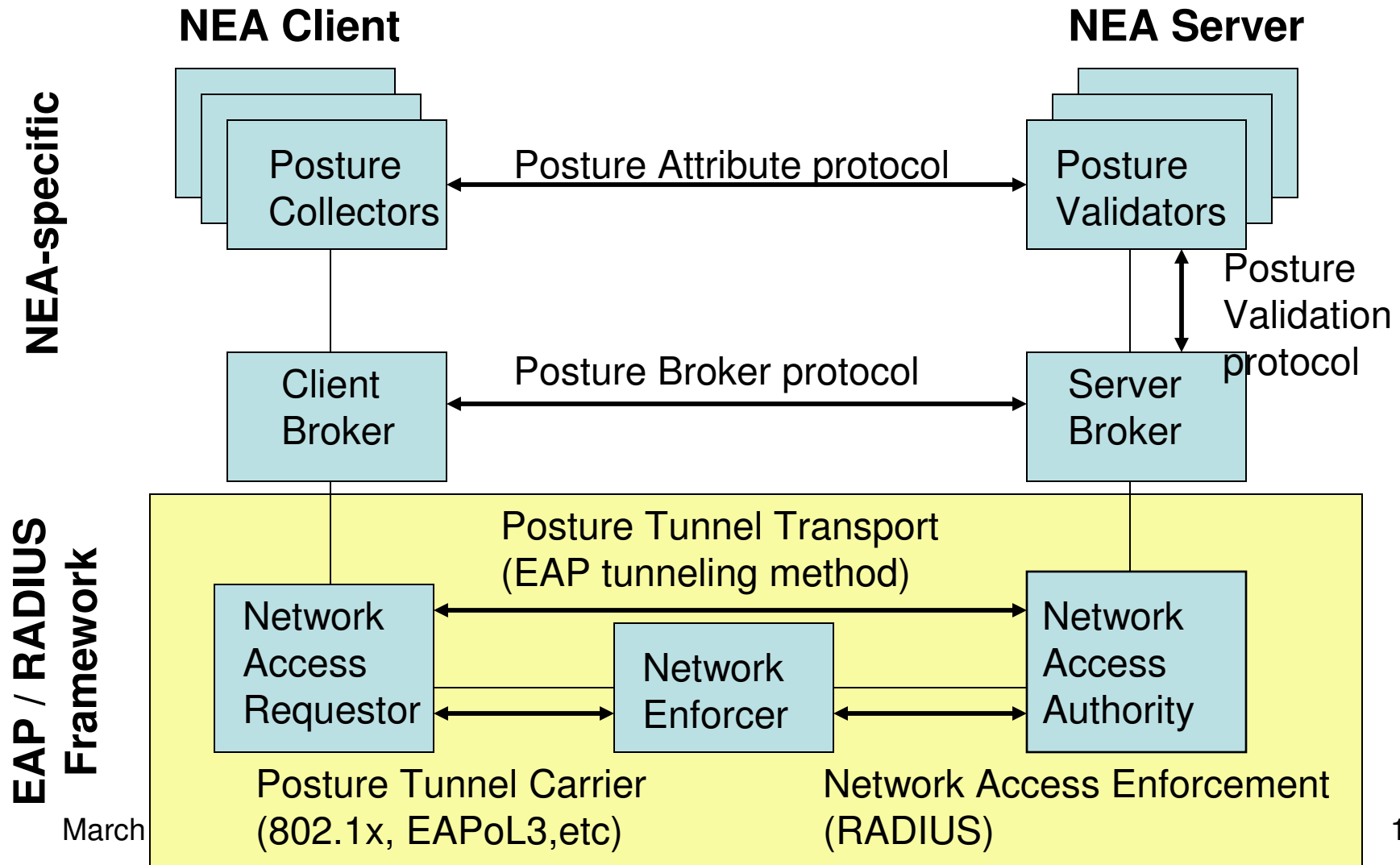
- Trusted Network Connect (TNC)
- Network Access Protection (NAP)
- Network Admission Control (NAC)

# Problem

- Architectures leverage the standards-based EAP/RADIUS framework
- But not all needed protocols are standardized

# NEA Architecture

## EAP/RADIUS Framework



# Protocol Summary

<b>Protocol</b>	<b>Examples</b>
Posture Attribute (PA)	New
Posture Broker (PB)	New
Posture Transport Tunnel (PTT)	EAP-TTLS, PEAP, EAP-FAST
Posture Transport Carrier (PTC)	EAPoL2: 802.1x EAPoL3: PANA, NACP
Network Access Enforcement (NAE)	RADIUS
Posture Validation (PV)	New

# Questions?

# NEA WG Charter

- Purposes
  - Define requirements for the protocols needed to ensure interoperability in an NEA system
  - Ensure standardization of protocols that meet these requirements (in this WG or others)

# NEA WG Charter

- Initial Scope
  - EAP/RADIUS
- Initial Protocols
  - Posture Broker protocol (PB)
  - Posture Transport Tunnel protocol (PTT)
  - Posture Transport Carrier protocol (PTC)
  - RADIUS attributes for network access enforcement (NAE)

# NEA WG Charter

- Milestones
  - June 2006
    - Submit requirements I-D to IETF including
      - requirements for PTT protocol (EAP tunneling method)
      - requirements for NAE protocol (RADIUS extensions)
  - September 2006:
    - Submit revised requirements I-D to IETF that includes above plus:
      - requirements for PB protocol
      - requirements for PTC protocol (EAP over IP carrier protocol)
  - December 2006
    - Review ongoing work in IETF and work with ADs to identify the WG responsible for accommodating protocol requirements that are not currently being met
  - February 2007
    - Submit requirements I-D to IESG for publication as Info RFC
    - Revise WG charter to accommodate definition of protocols not covered in other WGs e.g. PB
    - Submit I-D on protocols to be defined in this WG e.g. PB specification



# NEA WG Charter

- Comments?
- Questions?
- Wordsmithing?

# Consensus Check

- Do you understand the problem we're trying to solve and agree it's important and solveable?

# Volunteering

- Are you willing to participate as a reviewer?
- Are you willing to participate as a contributor?

# Consensus Check

- Should we form a WG with the proposed charter?
- Is there interest in forming a WG to solve this problem?