NEA Working Group IETF meeting

Nov 17, 2011

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Agenda Review

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0900 Administrivia
     Jabber & Minute scribes
     Agenda bashing
0905 WG Status
0910 NFA Reference Model
0915 Discuss and Resolve WGLC PT-TLS Comments
 http://www.ietf.org/internet-drafts/draft-ietf-nea-pt-tls-01.txt
1000 Discuss and Resolve PT-FAP Issues
 http://www.ietf.org/internet-drafts/draft-ietf-nea-pt-eap-00.txt
1100 Discuss next steps for NEA Asokan I-D
 http://tools.ietf.org/id/draft-salowey-nea-asokan-00.txt
1115 Next Steps
1130 Adjourn
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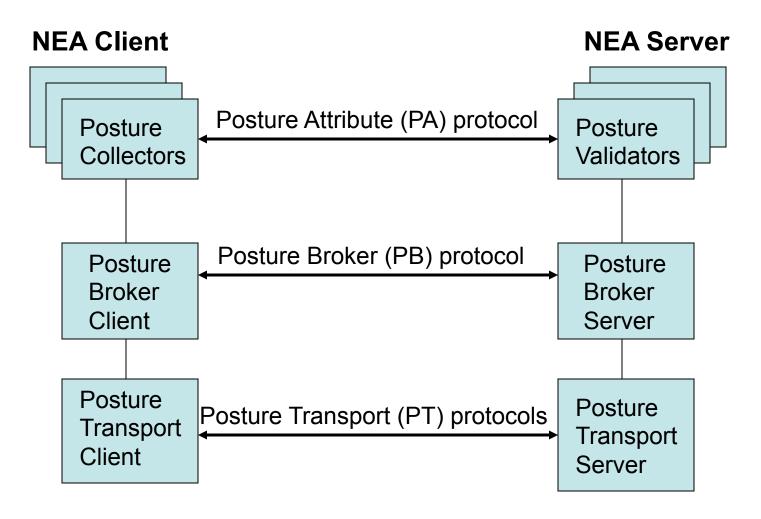
WG Status

- TLS-based Posture Transport
 - WGLC on PT-TLS -01 I-D
- EAP-based Posture Transport
 - PT-EAP selected as basis for WG document
 - PT-EAP published as -00 I-D

NEA Reference Model

NEA Reference Model

from RFC 5209



PA-TNC Within PB-TNC Within PT

PT

PB-TNC Header

PB-TNC Message (Type=PB-Batch-Type, Batch-Type=CDATA)

PB-TNC Message (Type=PB-PA, PA Vendor ID=0, PA Subtype= OS)

PA-TNC Message

PA-TNC Attribute (Type=Product Info, Product ID=Windows XP)

PA-TNC Attribute (Type=Numeric Version, Major=5, Minor=3, ...)

PT-TLS WGLC Issues

Paul Sangster
Nancy Cam-Winget
Joseph Salowey

PT-TLS

- Working Group Last Call completed
 - Some open issues with proposed resolutions

TLS Keepalive

- TLS Heartbeat provides mechanism to keep TLS session up
 - draft-ietf-tls-dtls-heartbeat
 - Should be completed before PT-TLS
- Proposed Resolution: revise PT-TLS draft to include optional support for TLS heartbeat

Version Negotiation

"Subsequent assessments on the same session MUST use the negotiated version number and therefore SHOULD NOT send additional version negotiation messages."

Proposed Resolution: Change SHOULD NOT to MUST NOT

SASL initiation

Who initiates the SASL exchange? TLS client or server

 Proposed Resolution: Identify use cases to be supported and expected behavior.
 Update draft to ensure specified operation is unambiguous.

PT Client as TLS server

 If PT client is the TLS server, how does it authenticate the PT server?

 Proposed Resolution: Require TLS mutual authentication when PT client is acting as TLS server.

Channel Bindings

- Would be good to bind authentication to TLS tunnel when possible
 - SASL GS2 mechanism provides this capability

 Proposed Resolution: Add text describing usage of Channel Bindings between TLS and SASL

PT-EAP Issues

Nancy Cam-Winget Paul Sangster

Status

- draft-ietf-nea-pt-eap-00 submitted on Aug 30, 2011
- A few comments posted by one of the editors
- Need more reviews!

Received Comment Summary

- Minimize acronyms, use PT-EAP for all instances of EAP-TNC and PT-TNC
 - Comments include proposed updates to achieve this throughout the draft
- New EAP method: NEA has defined new behavior
- Section 1.1 remove TNC reference (e.g. the last sentence of the paragraph)

Use PT-EAP only

Comment: PT-EAP defines the standalone method for carrying NEA data and specifies its bounds and usage to an EAP tunnel method. As such, I recommend that the draft stick to naming this method PT-EAP (vs. The use of both PT-EAP, EAP-TNC, and PT-TNC)

Proposal: Update draft to use PT-EAP only

Abstract simplification

Update the abstract to:

This document specifies PT-EAP, an EAP based Posture Transport (PT) protocol designed to be used only inside an EAP tunnel method. As such, the document also describes the intended applicability of PT-EAP as well as the evaluation against the requirements defined in the NEA Requirements and PB-TNC specifications.

Proposal: Update draft as suggested above

Introduction simplification

Update 1st sentence of Introduction to:

This document specifies PT-EAP, an EAP based Posture Transport (PT) protocol protected by a TLS based tunnel established by an EAP tunnel method.

Proposal: Update but with Steve's suggestion to:

This document specifies PT-EAP, an EAP based Posture Transport (PT) protocol protected by an outer TLS tunnel or equivalent protection.

Introduction simplification

 Update 2nd paragraph of Introduction to: The PT protocol in the NEA architecture is responsible for transporting PB-TNC batches (often containing PA-TNC [3] attributes) across the network between the NEA Client and NEA Server. The PT protocol must be protected by an outer TLS-based tunnel to ensure the exchanged messages are protected from a variety of threats from hostile intermediaries.

Proposal: adopt changes in next draft

Introduction simplification

 To be consistent with a single reference of the inner method, my suggestion is to remove the 5th and 6th paragraph and replace the entire 4th paragraph with:
 PT-EAP is an inner EAP method designed to be used under a protected tunnel such as EAP-FAST and FAP-TTI S

Proposal: adopt changes in next draft

Remove TNC reference

 Section 1.1 remove TNC reference (e.g. the last sentence of the paragraph)

Proposal: adopt change in next draft. If TNC needs to be noted, include in the acknowledgement "N.B. The Trusted Computing Group will also be referencing the protocol as defined in this document at the time of completion."

Clarification on 3.1

• Section 3.1: 4th paragraph, 2nd sentence seems to be a non sequitur, suggest to remove it (e.g. the sentence reading:

"Some EAP tunnel methods may provide explicit confirmation of inner method success; others may not. This is out of scope for the EAP-TNC method.")

Proposal: can discuss on the list to either clarify the sentence/paragraph or adopt above update

New EAP method

 Section 3.4: as NEA has changed the behavior of the method, it merits its own type and thus should be a TBD.

Proposal: update in the next draft

Enforce use of EAP tunnel

 Section 4: language to enforce use within protected tunnel should be used, suggest wording to: "is designed and MUST run inside an EAP tunnel method"

Proposal: adopt change in the next draft

Questions?

Disposition of NEA Asokan I-D

Disposition of NEA Asokan I-D

- I-D provides analysis and recommendations for dealing with NEA Asokan attack
- Referenced by PT-TLS and PT-EAP I-Ds (Informative)
- Consensus to make WG document with goal to publish as Informational RFC?

Next Steps

- PT-TLS:
 - Update PT-TLS I-D after resolving WGLC issues
 - Issue 2nd WGLC
- PT-EAP:
 - More WG Comments Please!
 - Update PT-EAP I-D and issue WGLC
- NEA Asokan I-D:
 - Publish updated version as WG document

Milestones

Nov 2011	Resolve issues from PT-TLS WGLC at IETF 82
	Resolve open issues with PT-EAP at IETF 82
Dec 2011	Publish -02 PT-TLS I-D and issue 2 nd WGLC
	Publish -01 PT-EAP I-D and issue WGLC
	Publish -00 WG I-D on NEA Asokan attack
Jan 2012	Send PT-TLS I-D to IESG
	Resolve WGLC issues on PT-EAP
	Resolve issues with NEA Asokan I-D
Feb 2012	Publish -02 PT-EAP I-D
	Publish -01 NEA Asokan I-D and issue WGLC
Mar 2012	Resolve IETF LC issues with PT-TLS I-D
	Resolve WGLC issues with PT-EAP and Asokan I-D

Adjourn