NOTE WELL

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Since Yokohama...

Rough consensus on approach to simultaneous open:

- There is no requirement for tcpinc to support all possible TCP-SO cases in all circumstances; but
- tcpinc should support TCP-SO when it can do so cheaply; and
- tcpinc setup failures for TCP-SO should result in proceeding unencrypted.

Rough consensus on a path to meet the WG’s milestones:

- Move forward on a path to standardization of tcpcrypt and TCP-ENO
- Allocate code points for TLS and ensure TCP-ENO can support negotiating the use of TLS when that profile is ready for standardization
Since Yokohama...

Expert reviews of tcpcrypt are complete, and have been posted to the list:

- Yoav Nir
- Jana Iyengar

The chairs thank them for their efforts!

Updated drafts:

- tcpcrypt
- TCP-ENO
- Interface Extensions for TCP-ENO

Placeholder related draft:

- TCPINC BCP: seeking co-authors with middlebox experience
### Milestones

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>Aug 2016</td>
<td>Submit extended API to IESG as Informational</td>
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<tr>
<td>Jul 2016</td>
<td>Submit unauthenticated key exchange mechanism and extensions to current TCP to IESG for publication as Experimental</td>
</tr>
<tr>
<td>Mar 2016 (Overdue)</td>
<td>Adopt first WG document on extended API</td>
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<td><a href="https://tools.ietf.org/html/draft-bittau-tcpinc-api">draft-bittau-tcpinc-api</a></td>
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<tr>
<td>November 2015 (Done)</td>
<td>Adopt first WG document on unauthenticated key exchange mechanism and extensions to current TCP</td>
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Call for Implementors

TCP-ENO and tcpcrypt need independent implementations developed from the specifications in the documents.
Agenda

TCP-ENO: Encryption Negotiation Option
- David Mazières
- 30 minutes

Interface Extensions for TCP-ENO
- David Mazières
- 20 minutes

Negotiation of Userspace TLS using TCP-ENO
- Eric Rescorla
- 10 minutes

tcpcrypt: Cryptographic protection of TCP Streams
- Andrea Bittau
- 40 minutes

Open mic
TCPINC-use-TLS Status

- TLS WG hard at work finalizing TLS 1.3
- Completion of TLS 1.3 a prerequisite for TCPINC profile
- TLS 1.3 is the first priority at this time for TLS experts

Conclusions:
- Proceed toward standardization of tcpcrypt and TCP-ENO
- Make sure ENO can be used to negotiate TLS later
Next Steps: Using TCP-ENO to support app-layer TLS

- Need a short draft showing either:
  - that TCP-ENO and the API suffice to negotiate either user-mode TLS or a TCPINC profile; or
  - that enumerates the changes required to allow for such support

- Allocate code points for TLS
  - IANA registry?