strongSwan - Feature #2367
Android client - RSASSA-PSS

24.06.2017 22:53 - Hans Muster

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
<th>Start date:</th>
<th>24.06.2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
<td>Due date:</td>
<td></td>
</tr>
<tr>
<td>Assignee:</td>
<td>Tobias Brunner</td>
<td>Estimated time:</td>
<td>0.00 hour</td>
</tr>
<tr>
<td>Category:</td>
<td>android</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Target version:</td>
<td>5.7.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resolution:</td>
<td>Fixed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Description
RFC 7427 and BSI TR-02102-3 (german only):
https://www.bsi.bund.de/DE/Publikationen/TechnischeRichtlinien/tr02102/index_htm.html
recommend the newer RSASSA-PSS method for authentication with RSA digital signatures.

RFC 7427, chapter 1:

In IKEv2, authentication using RSA digital signatures calls for padding based on RSASSA-PKCS1-v1_5, although the newer RSASSA-PSS padding method is now recommended.

It looks like StrongSwan Android App v1.8.2 don't support secure RSASSA-PSS with SHA-256 (see RFC 7427, chapter A4.3). StrongSwan Android App v1.8.2 supports only the less secure RSASSA-PKCS1-v1.5 with SHA-256 (sha256WithRSAEncryption => see RFC 7427, chapter A.1.2).

Could you please add (for security reasons) RSASSA-PSS support to StrongSwan Android App. Thank you.

Related issues:
Related to Feature #2427: Implementing RFC 8247
Closed

History
#1 - 26.06.2017 10:06 - Tobias Brunner
- Status changed from New to Feedback

strongSwan currently does not support RSASSA-PSS. Until it does the Android client won't support it either.

#2 - 19.09.2017 12:03 - Tobias Brunner
- Related to Feature #2427: Implementing RFC 8247 added

#3 - 01.01.2018 15:11 - Hans Muster
StrongSwan Android App v1.9.5 works with StrongSwan v5.6.1. StrongSwan v5.6.1 should support RSASSA-PSS signatures:
https://wiki.strongswan.org/versions/67

Feature #2427

But StrongSwan Android App v1.9.5 doesn't support RSASSA-PSS signatures. Is there a secret/hidden way to activate RSASSA-PSS support in StrongSwan Android App v1.9.5. Thank you.

#4 - 21.06.2018 15:48 - Tobias Brunner
- Category set to android
- Status changed from Feedback to Closed
- Assignee set to Tobias Brunner
- Target version set to 5.7.0
- Resolution set to Fixed

13.03.2020