

## Smuxi - Task # 1070: Replace Mono's System.Security library with something better

<b>Status:</b>	New	<b>Priority:</b>	Normal
<b>Author:</b>	Mirco Bauer	<b>Category:</b>	Engine
<b>Created:</b>	06/14/2015	<b>Assigned to:</b>	Mirco Bauer
<b>Updated:</b>	01/09/2017	<b>Due date:</b>	
<b>Complexity:</b>	High		
<b>Subject:</b>	Replace Mono's System.Security library with something better		
<b>Description:</b>	<p>IRCS used by Engine-IRC and HTTPS used by Engine-Twitter, Engine-Campfire and Engine-JabbR rely on the X.509 implemented by the CLR. There are many certificate validation issues with Mono's implementation, some of them are documented with known workarounds here: <a href="https://smuxi.im/faq/troubleshooting/linux-tls/">https://smuxi.im/faq/troubleshooting/linux-tls/</a></p> <p>Since the .NET Core will not improve the situation with X.509 validation. It relies on the crypto library provided by the operating system, thus Smuxi should seek out into using OpenSSL, GnuTLS, PolarSSL, WolfSSL and the like.</p>		

### History

#### 06/14/2015 02:57 PM - Mirco Bauer

- Subject changed from *Replace Mono's System.Security.Cryptography.X509Certificates with something better* to *Replace Mono's System.Security library with something better*

#### 06/14/2015 03:25 PM - Mirco Bauer

PoC for certificate validation using PolarSSL in Smuxi: [https://github.com/meebey/smuxi/tree/experiments/polarssl\\_cert\\_validation](https://github.com/meebey/smuxi/tree/experiments/polarssl_cert_validation)

#### 01/09/2017 09:20 AM - Mirco Bauer

As a short term workaround you can use stunnel with Smuxi to connect to SSL/TLS enabled servers, see: <https://smuxi.im/faq/usage/stunnel/>