

SSL Concept and Implementation in Datapower

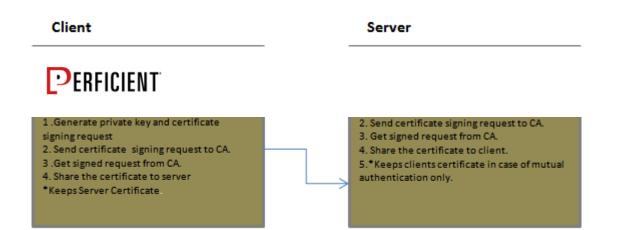
by Santosh Pericharla on September 25th, 2013 | 2 minute read



SSL(Secure Socket Layer) is used for security over network. This blog explores implementation of SSL in Datapower along with basic concepts

SSL Concept:

Key Pair Generation:



secret key with server's private key

In One Way SSL: Client validates server (certificate)
In Mutual: Client validates server (certificate) and sends its certificate to server

In One Way SSL: Server Identifies client(certificate) and decrypt the shared secret key with server's private key

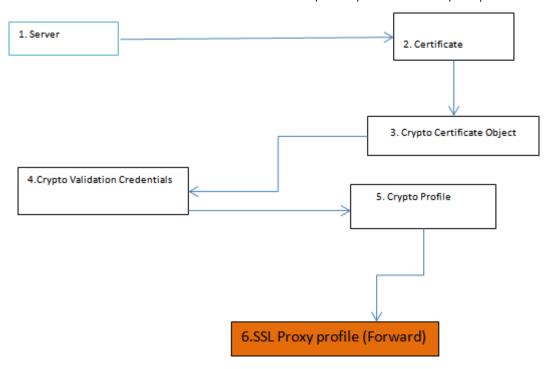
In Mutual: Server Identifies client(certificate), validates client certificate and decrypt the shared

(1) Client Hello Cryptographic information (2) Server Hello Cipher Suite Server Certificate Client Certificate request (optional) Verify client (4) Client Key Exchange Verify server certificate.(if certificate.Check Send Secret Key Information required) cryptographic (Encrypted with Server Public parameters (5) Send Client Certificate (7) Client Finished (8) Server Finished (9) Exchange Messages Encrypted with shared Secret Key



When Data power Acts as a client:

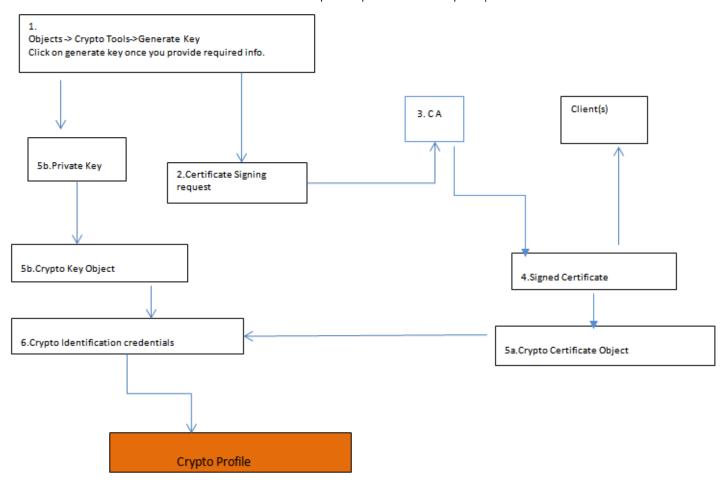
- Upload certificate shared by server in cert/pubcert directory of Datapower File
 Management.
- Create SSL proxy profile as shown below. This can be either referred in proxy settings or set dynamically using routing-ssl-profile variable



- Server to which Datapower acts as client will share its certificate to Datapower(Client).
- Using certificate shared, a crypto certificate object is created.
- Crypto Validation credentials created using crypto certificate object will be included in crypto profile.
- Crypto profile created will be used in Datapower as SSL proxy profile.

When DataPower Acts as Server





 Just like Crypto Validation credentials is created when datapower acts as client, Crypto identification credentials is created with combination of crypto key object and crypto certificate object.



used in request flow(When Datapower acts as SSL server to front end systems).

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