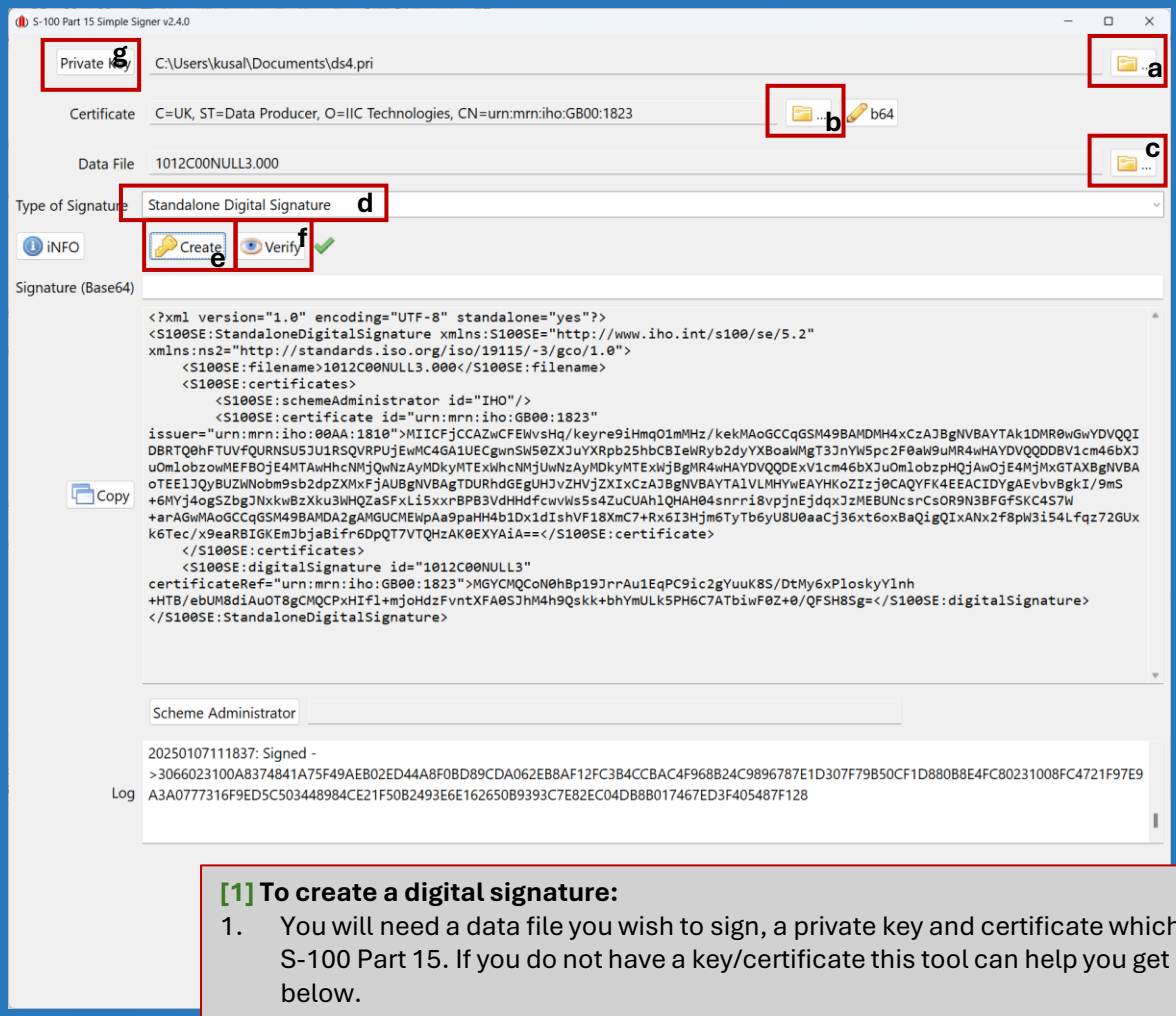

[1] To create a digital signature:

1. You will need a data file you wish to sign, a private key and certificate which conform to S-100 Part 15. If you do not have a key/certificate this tool can help you get them, use [3] below.
2. Load your private key using the **(a)** button
3. Load your certificate using the **(b)** button (you can also load the base 64 encoded certificate from the S100se:certificate XML element using the "b64" button
4. Load the data file you wish to sign into the tool using the **(c)** button.
5. Select the type of signature you wish to create using (d). These are documented in S-100 Part 15.
6. Press "Create" **(e)** – the digital signature XML will be created and put into the text box.

[2] To verify a digital signature sent to you…

1. Load the data file you wish to verify into the tool using the **(c)** button.
2. Load the certificate of the sender (or the creator of the signature) using the **(b)** button
3. Copy and paste the digital signature value into the "Signature (Base64)" text box
4. Press "Verify" **(f)**
5. A green tick next to the Verify button means the signature verifies the dataset content against the public key contained in the certificate. A red cross means the signature could not be verified against the data file and the certificate public key

[3] To create a key pair

1. Press **(g)** to create a new private key. Pressing the "New Key" button will allow you to create and save a new private/public key pair.
2. Load in the created private and public keys (.pri and .pub files), then fill in the necessary fields for the certificate you wish to create (see S-100 Part 15 for details on these fields).
3. Create the certificate signing request (Create CSR) then save it (Save CSR)
4. Send the created CSR to the scheme administrator (IHO) and they will send you a certificate file you can use in Part [1] and [2] of these instructions.

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