

10-11

Windows

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1 Windows

1.1



[Windows Hello](#)
DPAPI.

1.2



[TPM.](#) Windows 10 Windows 11,
Microsoft Azure AD,

1.3 Windows Hello



11 Windows 10
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1.4 DPAPI



Data Protection Application Programming Interface DPAPI -
Windows, Windows 2000. DPAPI
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, DPAPI
[_____](#).

1.5

Windows 10 DPAPI
 Windows Hello.
 DPAPI,
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1.6

DPAPI :
 - Windows 10 Windows 11
 - Microsoft Azure AD
 - Windows Hello
 - TPM
 DPAPI

- Chrome, Microsoft Edge, Opera browser : Google
- Microsoft Office Outlook, Windows Mail.
 S-MIME.
- [Windows Vault](#)
- EFS
- [Credential Manager](#).
- Skype, Windows Rights Management Services, Windows Media, Google Talk DPAPI.

1.7 PoC

DPAPI

1. , , ,

2.

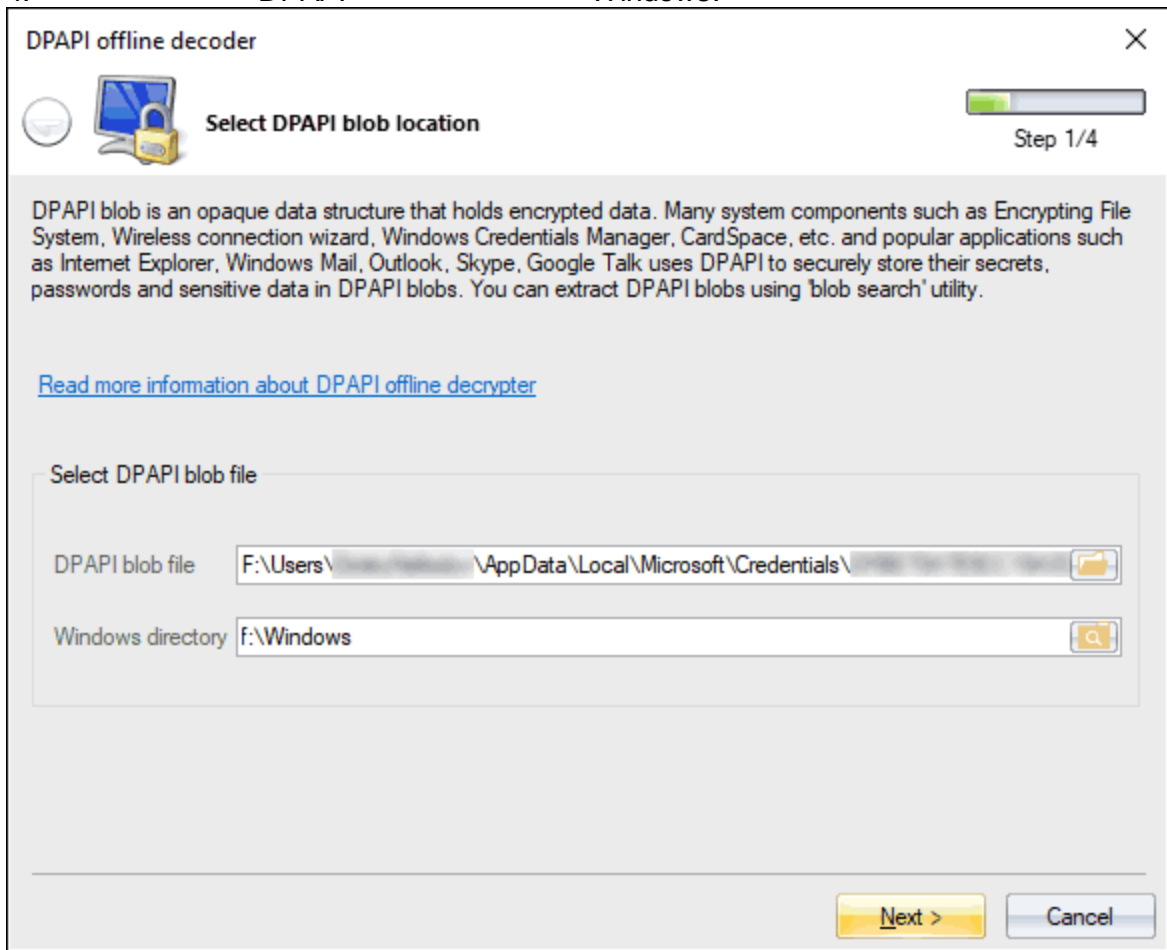
Windows Hello.

3. [Windows Password Recovery](#),
decoder and analyzer -> [Decrypt DPAPI data blob](#)

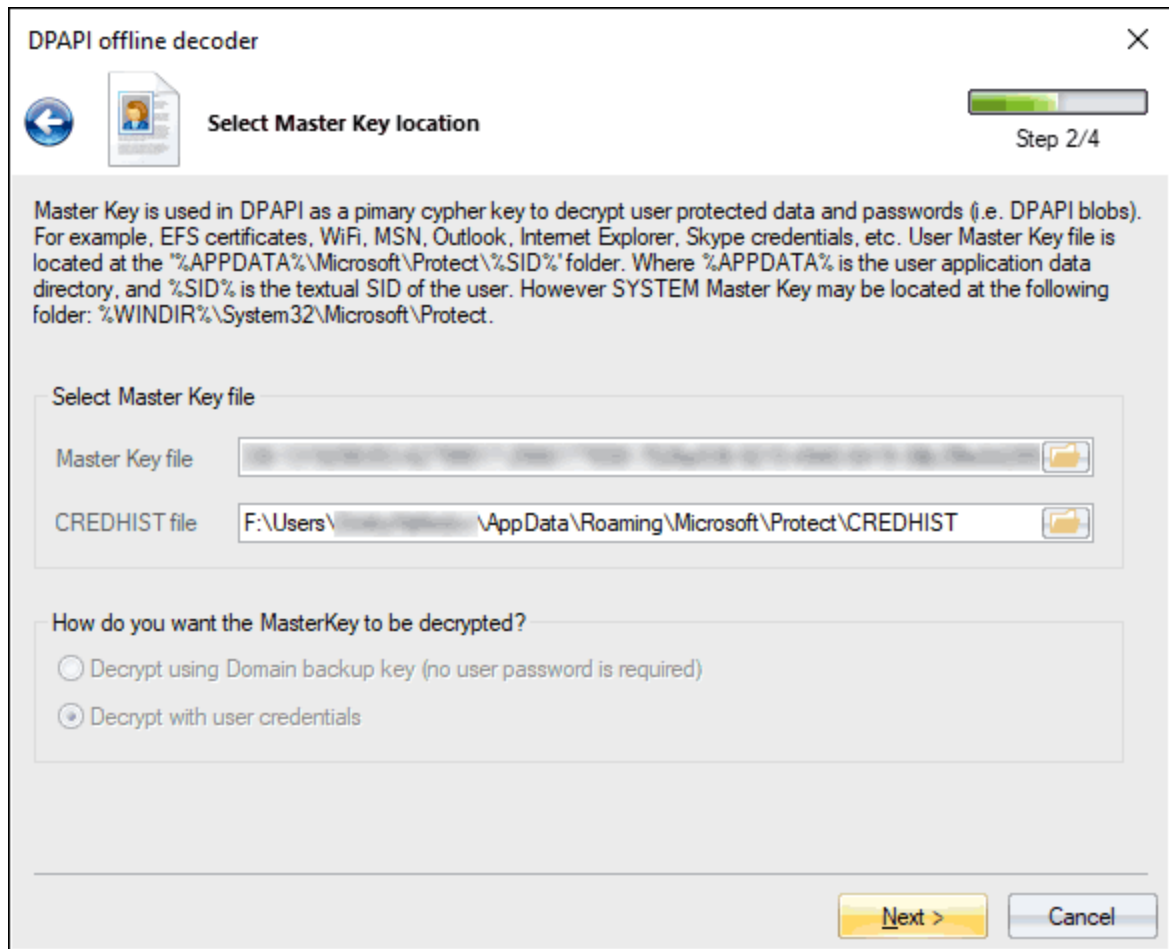
Utils

DPAPI

4. DPAPI Windows.



5.



6.

DPAPI

Next

DPAPI offline decoder

User/system credentials needed for successful blob decryption

Step 3/4

You should specify user SID and user logon password here in order to decrypt the DPAPI encrypted data. However some DPAPI encrypted blobs, eg. encrypted using SYSTEM account, require machine credentials. In this case, you'll have to provide a path to the SYSTEM and SECURITY registry files. Optional entropy file is required when the blob was created using entropy (refer to CryptProtectData API for more information). You should manually create a simple binary file with the entropy data and show the program path to the file.

Additional parameters are required in order to proceed the data decryption

User SID: S-1-...

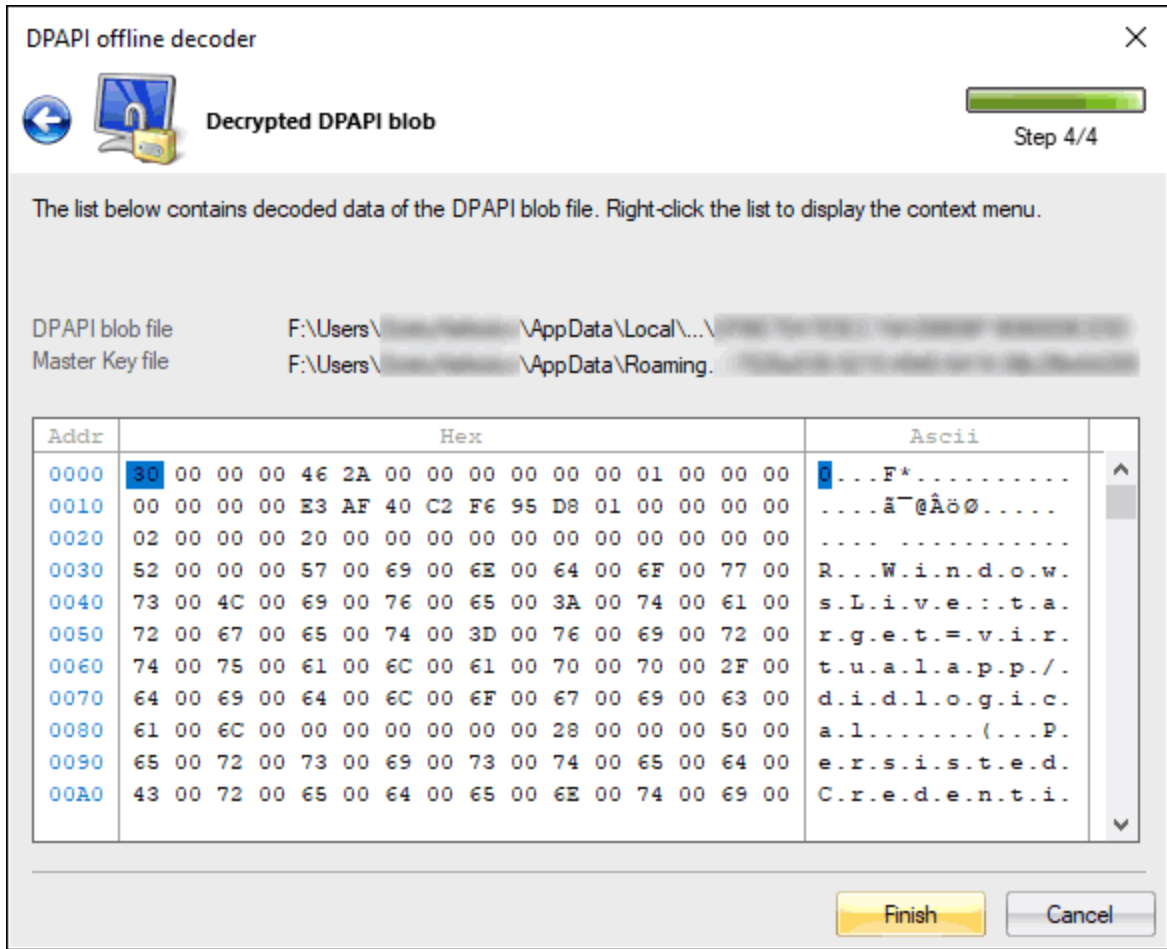
User password

User PIN

Password-less (extract from biometrics, ARSO, cached logons, etc.)

Entropy file (optional):

Next > Cancel



1.8

