



EU4Digital

EU4Digital: supporting digital economy
and society in the Eastern Partnership

eSignature pilot extension Country profile: Ukraine

December 2021



1. Participant information

1.1. Ukraine eID and digital trust services profile

Ukraine is characterized by heavy use of eIDs for authentication and e-signing. Unfortunately, most of e-signature certificates are “not qualified”, meaning that the signatures are not created by a qualified electronic signature creation device (QSCD). Moreover, most of the certificates are signed according to the national cryptographic standard ДСТУ 4145-2002, making them unusable in an international context. The number of eSignatures created yearly is approximately 600 million.

1.1.1. Implementation approach

Ukraine is to develop the Platform needed for eSignature piloting activity to validate eSignatures in common format from all participating parties. The Platform will be based on the existing *id.gov.ua* public portal. The verification of Ukrainian, Estonian, Armenian, and Georgian e-signatures will be provided on this portal.

For international use, Ukraine issues qualified certificates based on ECDSA or RSA signature algorithms using QSCD “Almaz-1K” https://ca.diia.gov.ua/almaz_m; <https://ca.diia.gov.ua/almaz> and other tokens at the link <https://ca.diia.gov.ua/partnership>, that had been recognized as QSCD by local legislation (article 19 of the law of Ukraine “On electronic trust services”. <https://zakon.rada.gov.ua/laws/show/2155-19#Text>; and par.45 of the Resolution of the Cabinet of Ministers of Ukraine of November 7, 2018, № 992 "On approval of requirements in the field of electronic trust services and the Procedure for verifying compliance with the requirements of legislation in the field of electronic trust services" <https://zakon.rada.gov.ua/laws/show/992-2018-%D0%BF#Text>).

1.1.2. Trust Service Information (for accepting Ukrainian eSignature)

Ukrainian international TSL (Trust service Status List) is available from <https://www.czo.gov.ua/trustedlist>. Official website of the QTSP “Diia” is at the link <https://ca.diia.gov.ua/>.

The following QTSP “Diia” certificates are relevant in the context of qualified e-signature validation:

- TSA-Server CA RSA https://ca.diia.gov.ua/uploads/certificates/TSA-server%20_DIIA_-3CEF677A23158757020000001000000E5000000.cer
- TSA-Server CA ECDSA https://ca.diia.gov.ua/uploads/certificates/TSA-server%20_DIIA_-5E9287B5BF6D5BEA0200000001000000E6000000.cer
- OCSP-server RSA "DIIA" https://ca.diia.gov.ua/uploads/certificates/OCSP-server%20_DIIA_-2F806F469B1D9D150200000001000000F65E0F00.cer
- OCSP-server ECDSA "DIIA" https://ca.diia.gov.ua/uploads/certificates/OCSP-server%20_DIIA_-34748B394A2BDE2F0200000001000000085F0F00.cer
- RSA "DIIA". Qualified Trust Services Provider https://ca.diia.gov.ua/uploads/certificates/_DIIA_.%20Qualified%20Trust%20Services%20Provider-3CEF677A231587570100000001000000E2000000.cer
- ECDSA "DIIA". Qualified Trust Services Provider https://ca.diia.gov.ua/uploads/certificates/_DIIA_.%20Qualified%20Trust%20Services%20Provider-5E9287B5BF6D5BEA0100000001000000E3000000.cer

Certification Policy and Certification Practice Statement <https://ca.diia.gov.ua/reglament> (in Ukrainian only).

Wherein SERIALNUMBER = TINUA-3413416710 is the natural person’s Identification Number profile in the personal certificate. It is filled this way according to the QTSP’s internal instruction "Rules for filling in certificate profiles" (in Ukrainian only).

TINUA – Taxpayer Individual Number in Ukraine (an element of the State Register of Individuals of Ukraine, which is provided to individuals who pay taxes and other mandatory payments and remain with them throughout their lives).