



National ID
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The Visible digital Seal (VDS) in Ethiopia's Fayda ID

Identity is the New Collateral!

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"Fayda" VDS Overview

44



Verify
authenticity
and integrity



Binds the
individual to
the credential



Usable in
electronic and
printed forms

"Fayda" VDS Overview

44



Structured

Data set,
Signed, 2D
QR



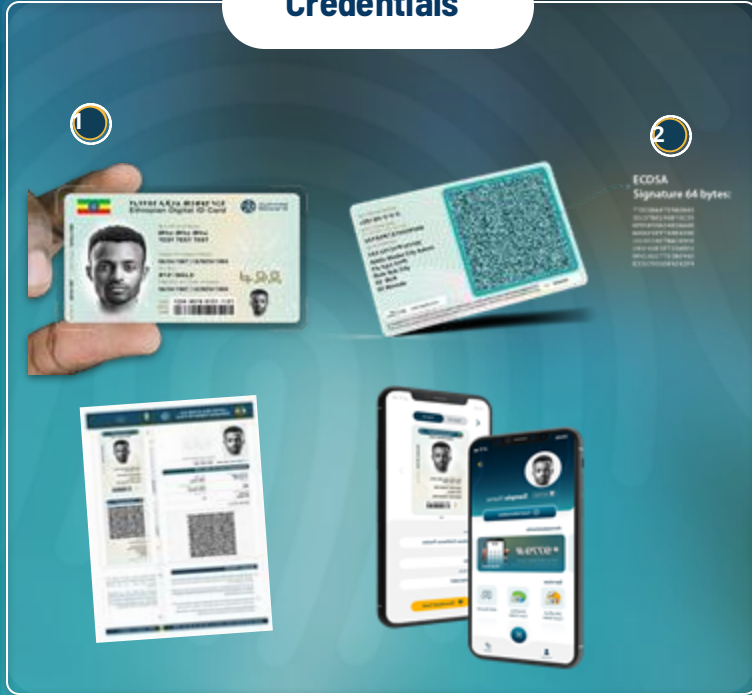
Verification
through Face
Authentication



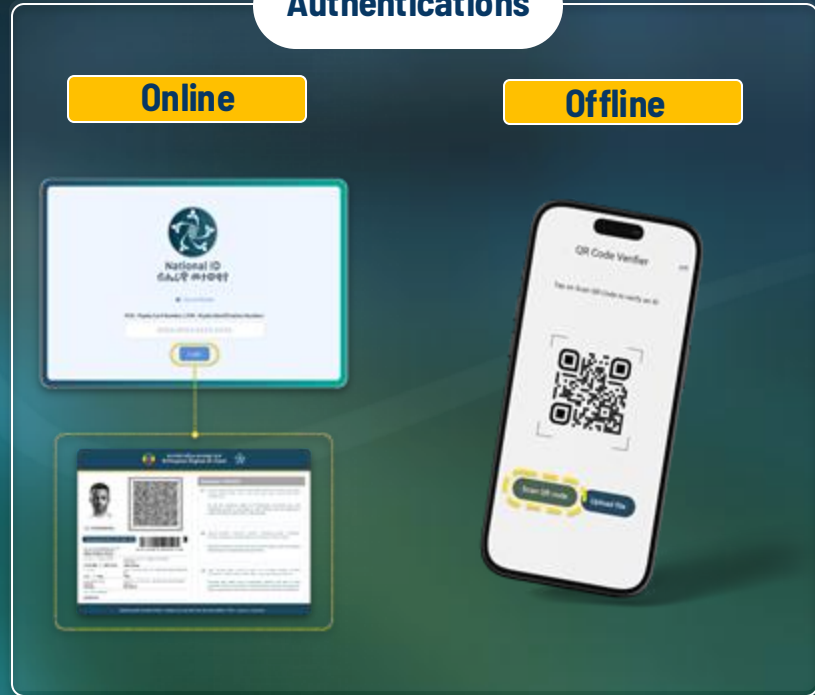
Supports,
online and
offline

Fayda Credential Strategy

Credentials



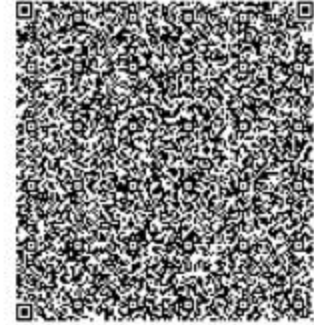
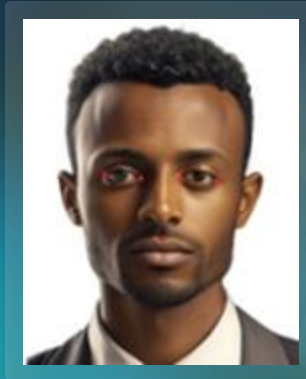
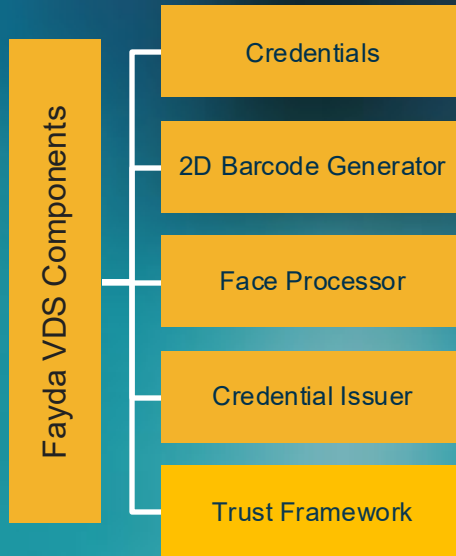
Authentications



Fayda VDS - Process Flow

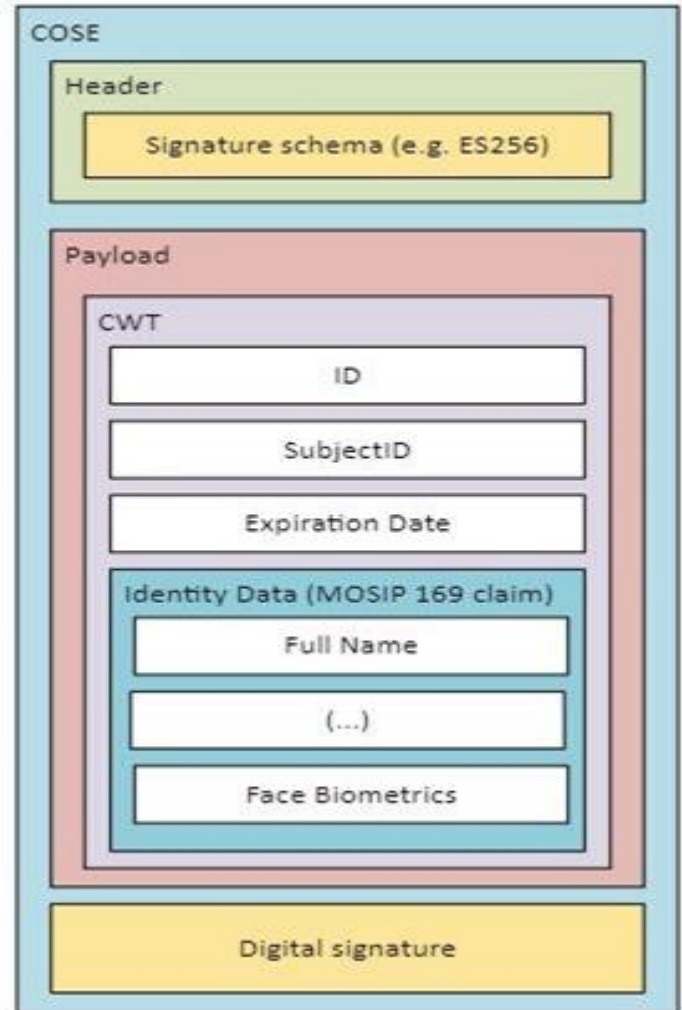


"Fayda" VDS Components



QR code version	28
Resolution	300dpi
Module size	4px
Physical Dimensions	45mm x 45 mm

Fayda VDS Structure



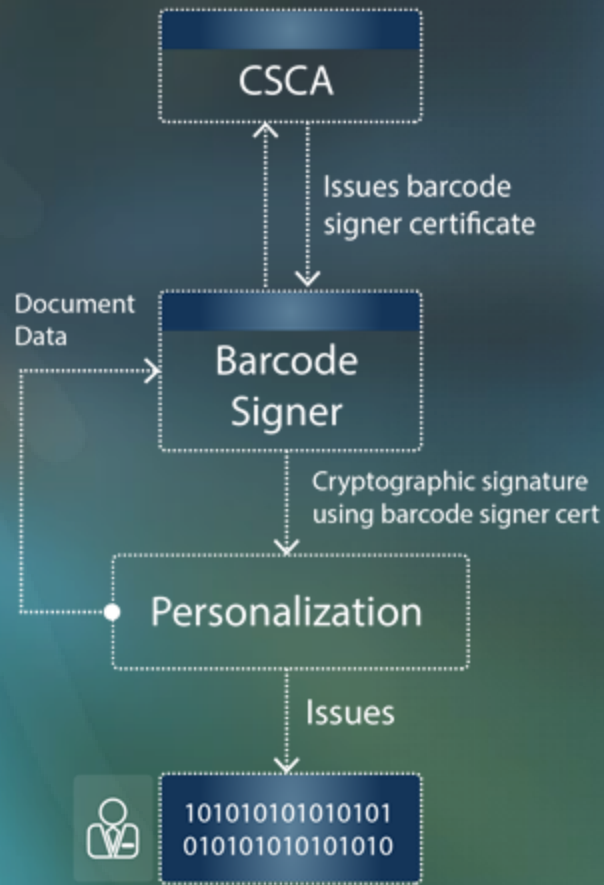
How it works – Digital Seal Generation



How it works – Digital Seal Validation



Fayda VDS-Trust Framework



Sample Photos from Fayda VDS



Original

Compressed



Original

Compressed



Original

Compressed

More Photos – for Visual Comparison



451FACE--93_po
rtrait.webp



451FACE--93_po
rtrait_compressed.webp



452FACE--76_po
rtrait.webp



452FACE--76_po
rtrait_compressed.webp



453FACE--70_po
rtrait.webp



453FACE--70_po
rtrait_compressed.webp



454FACE--100_po
rtrait.webp



454FACE--100_po
rtrait_compressed.webp



455FACE--69_po
rtrait.webp



455FACE--69_po
rtrait_compressed.webp



456FACE--100_po
rtrait.webp



456FACE--100_po
rtrait_compressed.webp



457FACE--62_po
rtrait.webp



457FACE--62_po
rtrait_compressed.webp



458FACE--60_po
rtrait.webp



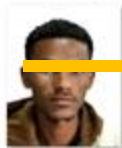
458FACE--60_po
rtrait_compressed.webp



459FACE--100_po
rtrait.webp



459FACE--100_po
rtrait_compressed.webp



460FACE--90_po
rtrait.webp

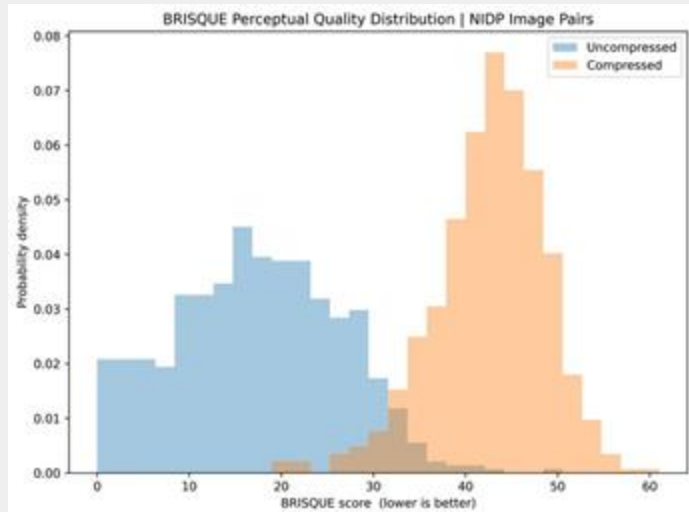
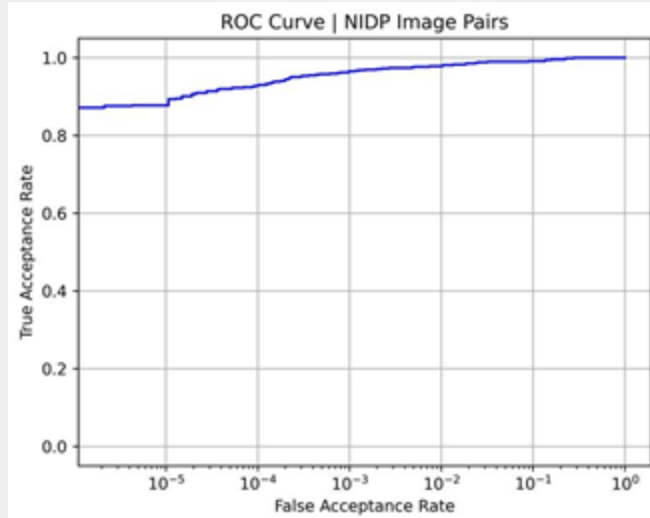


460FACE--90_po
rtrait_compressed.webp



461FACE--100_po
rtrait.webp

Image Quality Analysis



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