



## Security and Privacy Protection

### KEY POINTS

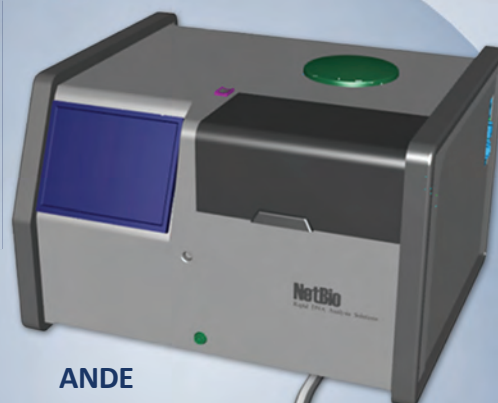
- Rapid DNA technology requires operator login which is tracked for audit purposes; mitigates potential unauthorized users and identifies malicious authorized users
- No Personally Identifiable Information (PII) or identifying characteristics are stored on the device and tablet
- ANDE is a 'closed system;' no automated transfer of data except between the device and tablet

### Buccal Swab

(uniquely tagged DNA sample)

#### SWAB DISPOSITION

- Retained and secured as evidence
- Chain of custody established and secured in a controlled facility  
– Or –
- Destroyed as medical waste



ANDE

#### ANDE SECURITY

- Operator username/password login
- Profiles encrypted by machine and digitally signed linking profile to specific ANDE and operator
- Data cannot be used directly by ANDE
- RFID-embedded buccal swab ensures DNA profile is linked to proper record from start
- Self-contained disposable processing channels prevent any possibility of cross-contamination of DNA samples

TLS  
Connection



Tablet

#### TRANSPORT LAYER SECURITY (TLS) CONNECTION

- Wired connection prevents remote interception
- Same technology used to secure web traffic (https)
- ANDE and tablet must validate each other's cryptographic credentials

#### DNA WATCH LIST INCLUDES:

- Sample ID number
- Numeric identifier of the submitting agency
- Name of operator associated with the analysis

#### TABLET SECURITY

- Operator username/password login
- Access requires common access card (CAC) and pin number
- Full edit history and significant activities recorded for accountability