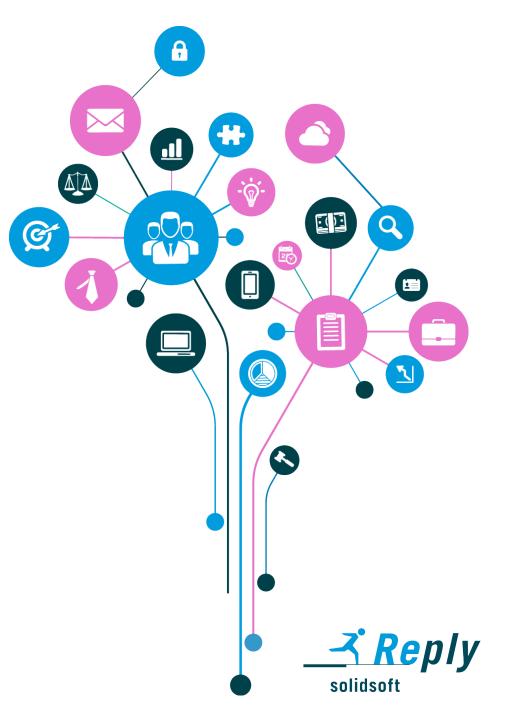# EMVS National Blueprint System

A Technical Overview for Pharmacies and Wholesalers

Charles Young

Local System Design

Local User Authorisation

NBS does not authenticate or authorise local users for system-to-system interchange.

- What permissions should be granted?
- What roles should be granted?

Scanning Hardware

Scan 2D GS1 Data Matrix barcodes

- What scanning hardware will be supported?

- How will it be connected and configured

- Maintenance and support

Scanned Data Processing

GS1 standards and Application Identifiers

- How will data be parsed?

- How will NTINs be handed?

- How will NHRNs be handled?

- How will additional data fields be handled

- What happens if data is incorrectly formatted?

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Logging and Auditing

Auditing system operations and end-user actions

- Local organisation requirements

- Suspicious activity monitoring

- Forensic analysis

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Reporting

Reports for Local Organisations

- Local organisation requirements

- Reporting tools and frameworks

- Analytics

- NBS Reports

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Client Credentials

Represents client system identity

- Organisation
- Location
- Equipment

- Secure local storage

- Credentials for ITEs and IQEs

- Credentials for production

- Access Token Expiry

- Avoiding potential misuse and abuse

- Audit trails

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User Experience

Local systems should support human use appropriately

- Protection of patients from falsified medicines
- Clear, unambiguous representation of pack status
- Intentionality
- Affordance
- Context
- Support for Standard Operating Procedures and other processes

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Recovery Strategies

Recover from temporary loss of service or connectivity

- Immediate retry

- User notification on failure

- Store and forward
  - Durability
  - Automatic detection of service resumption
  - Recovery phase and automatic retry
  - Notification an user feedback

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Alerting and Notification

Systems should provide appropriate proactive alerting.

- Error conditions and exceptions

- Suspicious activity

- Local requirements only

- Direct users to helpdesk where appropriate

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Integrating verification

Interchange with other data stores and systems

- Local systems and repositories

- Bulk-of-Pack Operations
  - Asynchronous batch-like processing

- Automated systems

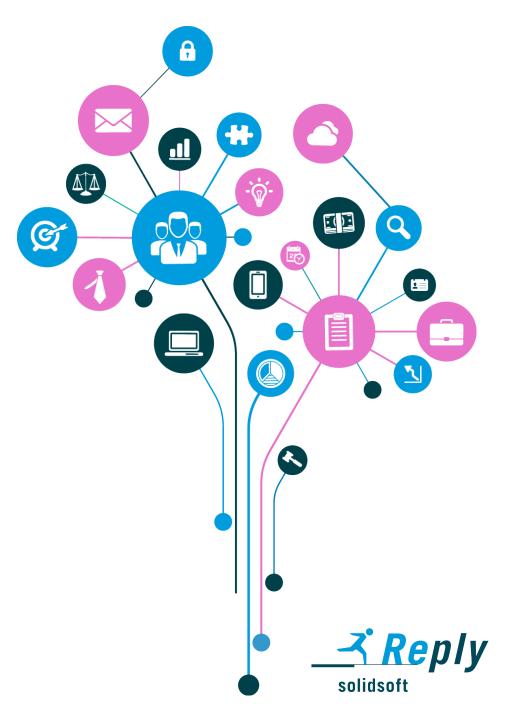- Aggregation

- User experience, feedback and notification

Contact Us

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Questions?

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Thank You

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