RELEASE NOTES

VLMIS VERSION 2.5

The release with additional enhancements and maintenance is launched on 1st January, 2016.

1 NEW FEATURES IMPLEMETED

1.1 CONSUMPTION REPORTING

Government of Pakistan EPI program requested a change in data entry format as per the format recommended by WHO. This format is now introduced to all of Pakistan. However, in the live system is currently only applied to Sindh and will be implemented to other provinces based on their request. Major changes in this form are following:-

1. Immunization schedule: Children of 2 Years and above
2. Recording of planned versus actual vaccination sessions in fixed and outreach sites

1.2 BATCH MANAGEMENT – PRIORITY IMPLEMENTATION

EPI program uses expiry date and VVM stage for FEFO implementation. The combination of both Expiry date and VVM stage make the priority of batch to be issued. In this version, user can easily plan the stock issuance based on the priority implementation in the batch management. The definition of priorities are as following.

Priority 1	If VVM stage is 2 or expiry is less than 3 months.
Priority 2	If VVM stage is 1 and expiry is more than 3 months and less than 12 months.
Priority 3	If VVM stage is 1 and expiry is more the 12 months.

1.3 STOCK RECEIVE FROM STORE – PLACEMENTS & ADJUSTMENT QUANTITY IN VIALS AND DOSES

Based on user feedback it was requested by EPI store that user should be able to select cold rooms or dry store locations based on product nature and see the adjustment quantity in vials as well as doses

1.4 PURPOSE TRANSFER MANAGEMENT

In vLMIS, same antigen is used for both routine and campaign purposes. In this release, user can easily transfer the purpose of any product to another purpose e.g. if a batch is in campaign it can be moved to routine stocks

1.5 VVM TRANSFER MANAGEMENT

During last event of fire in Federal EPI store it was observed that few antigens were moved from one VVM stage to another. The combined committee of government and partners checked the VVM. At that time, VVM was set manually in vLMIS and change in VVM through interface feature was planned. In this release now users can easily transfer the VVM stage of any product

1.6 Admin Module

1. User Registration to download the vLMIS documentation i.e Manuals
2. User Feedback Form – Contact Us
3. User Feedback List – View Page
4. Manage access rights through admin interface.

1.7 Reports (minor changes)

1. Stock Ledger Report – Add batch wise opening and closing balance summary
2. Shipment Report – Enable "Divisional" level in the filter
3. Consumption Report – Vaccine Coverage Report – Filter Changed
4. Consumption Report – Provincial Vaccine Coverage Report – Filter Changed

2 ARCHITECTURAL CHANGES

This section is meant for Technical Audience

The architecture review was performed by external architect and based on his report following actions were taken to resolve all issues identified. To resolve these issues following back-end work was done.

2.1 Speed: (dashboards)

1. We have used developer tools and optimized all store procedures and functions to address speed issue.
   a. Dashboard related store procedures
   b. Reports related store procedures
   c. Merged multiple functions in one store procedures
2. We have removed extra and unused files (JavaScript) to improve pages load time
   a. Extra/unused JavaScript files
   b. CSS files
   c. Compression of images

2.2 Database specific changes

1. For the integrity of data at database level relationships were defined. Although, the application had integrity features in ORM layer i.e. Doctrine but in this release strict integrity constraints were added at database level, which resulted in speed improvement and accuracy of data
2. New consumption reporting format was a major change and to implement this there were some database level changes introduced like removing of old logic of LMIS and introducing of new set of tables.
3. New indexes are introduced to improve performance
4. Target population concept tables merging

3 BUG FIXES

Few minor bugs are fixed during the release.

1. Bugs fixed of newly developed vaccine coverage reports based on user feedback during UAT
2. Data entry status report – corrected the receive and issue voucher display option