## Note on Interoperability function of LIMS

The Interoperability function of LIMS has four components. These are import from and export to ARIS (AU-IBAR), Digital Pen, TADinfo (FAO) and WAHIS (OIE). By the time of writing this note for Operation, not all the four functions are fully developed, owning to little collaboration of organisations involved. The export of data to ARIS and import of data from Digital Pen are working adequately and the guide below shows how data captured by the Digital Pen Technology (DPT) and prepared in the right format can be imported to LIMS.

Step 1 is preparing the file in the format LIMS can read. This is a crucial phase where the sequence of the fields and data contained in these as well as labelling three tab pages as shown below is very important. The Excel sheet containing the DPT data made ready for import by LIMS looks like the image below.

Image 1, Excel sheet from DPT ready for import by LIMS, example from real disease report for the month of March from Malawi

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1	CountryCo	Year	Period	OutbreakCode	PartitionType	PartitionLe	PartitionName	RefDiseaseID	RefOccurenceID	NewFollowUp	LocalityName	Latitude	Longitude	FirstCasel
2	MW	2009	March	MWLSD0109	Administrative	2	Nkhotakota	LSD	+	New Outbreak	Nsenjere	-12.58300	34.25000	12/03/200
3	MW	2009	March	MWASF0109	Administrative	2	Rumphi	ASF	+	New Outbreak	Bolero	-10.98300	33.75000	29/03/200
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Note the name of the three tab pages at the bottom of the image above.

Step 2 involves opening LIMS and navigating to <u>Administration, Data Management</u>, and later to <u>Interoperability</u> menu. The steps involved are shown in the image below.

Image 2, navigating to Interoperability and later to Digital Pen sub-menu for importing data to LIMS



Upon selecting Digital Pen, a screen like the image below where the user to import data and the type of the report to be imported will be displayed. Here the user should select his name as user about to

import data and the Disease Report from the combo box for the selection of the report type to be imported.

Image 3, defining the User to import data and the type of Report for which data is import from DPT

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	•			
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Vaccination Report		and officer who prepared an	c report being impor	
Country	•	Login ID	BBM	
First Name	Berhanu	Password	***	
Surname	Bedane	Date Created	05/08/2009	
Position	LIMS TA	Created By	Admin	
Office Telephone	+2673951863	Date Modified	05/08/2009	
Alternative Phone	+	Modified By	Admin	
	+26772148939		Import	View Loo
Cell Phone			mpore	VIEW LOG
Cell Phone Fax	+2673959834			
Cell Phone Fax Email 1	+2673959834 bbedane@sadc.int			

Once the User and the type of Report to be imported is defined, the <u>Import</u> button at the bottom right of the screen becomes active. Here, the User is expected to click on the <u>import</u> button which leads to a screen shown in the image below. The main feature of the screen is a warning to close any opened MS Excel sheet before proceeding. Note that if the operation continues with Excel sheet opened, the import would not become successful.

Image 4, warning to close any opened MS Excel file

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Upon accepting OK for the warning, the next step will be defining the path and file name of the DPT data file to be imported to LIMS. Navigate to the path and file name as shown in the image below to locate the DPT file for import. In the example given below, the file from Malawi highlighted will be used.



Image 5, Path and file name for DPT data from Malawi used for the simulation exercise

Once the file is selected, the process of importing the DPT data in to LIMS starts. Depending on the size of the file, this takes from fraction of seconds to various seconds. At the end, if the import operation took place without any problem, a message about successful import like the one displayed below will be shown.

Image 6, Notification on the successful importation of DPT data

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The success or otherwise of importing the DPT file can also be verified by opening the log file (*View Log* button located at the bottom right side of the screen). This can be achieved after accepting the OK button of the successful importation message shown above. Users can skip the View log stage if confident that data was imported successfully.

Image 7, opening and viewing the log file on import of DPT data

## **Digital Pen Technology Data Import**

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If the log file shows that the import process was accomplished successfully, close it and continue with the remaining process. However, if for some reason it indicates there was a problem during importing, the mistake should be corrected and attempt must be made again.

After the log file confirms the success of importing, the following step is to transfer valid records listed in the 2<sup>nd</sup> tab page labelled as <u>Transfer from Temp File</u>. Click on the second tab page and you will see a blank page. Select from the combo box at the top of the screen Disease report as shown in the image below and two valid records just imported and placed in the temporary file are shown.

Image 8, transfer of valid records from temporary file to the database

## **Digital Pen Technology Data Import**

OPT - Data I	mport Tra	nsfer From Ten	np Tables				
Select Rep	ort Type						
Disease Re	port			•			
Country	Year	Period	PartitionType	PartitionLevel	PartitionName	Species	Status for Import
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							<b>⊉</b> ↓∡↓ Transfer

Click on the Transfer button located at the bottom of the right side of the screen. Upon successful transfer, the screen becomes blank indicating that the transfer was accomplished successfully. The final step is to verify whether indeed the records for disease report for the month of March from Malawi are placed in the database or not.

To navigate away from the DPT interoperability screen, click first on the first tab page labelled as <u>DPT – Data Import</u>. Here, the classical Previous button (Exit from screen button is shown at the top of the screen. Click on it and navigate to the <u>Animal Health, Disease Report</u> modules. As can be seen from the following image, the disease report for the month of March 2009 from Malawi was imported from DPT successfully and placed in the database alongside other reports. Image 9, imported disease report placed in the database

	se Rep H	Country : Malawi (ear : 2009 Period : March Source		Offic Date Date	er : of Report : 21/11/2( of Submission :	009	Country Y Malawi 2 Malawi 2 Mozambique 2 Mozambique 2 Mozambique 2	fear 2009 2009 2009 2008 2008 2008	Period April February March August December	
PartitionType Administrative Administrative	PartitionLevel 1 1	PartitionNa Central Northern	ame	OutbreakCode MWLSD0109 MWASF0109						
eneral Information Part Partition Type Partition Level	Affected Species C ition Details – Administra 1	ative	Disea Occu Possi	rence ID	Disease Details LSD + VC	• •	Period Date of first case Date reported to Vet Date investigated	Details 12/03/:	2009	
Partition Name New or Follow Up OutBreak Code Locality Type	Central New Outb MWLSD01	reak ▼ 09 ▼	Natu	re Diagnosis	CI		Date sample submitted Date of final diagnosis Date intervention started			