

MIM - PDA

Mobile Information Management using PDAs (Personal Digital Assistants)



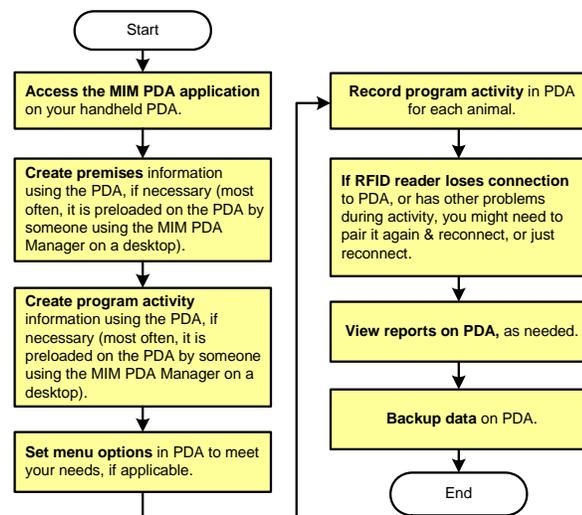
A Field User's Guide to the Animal Vaccination, Test, and Inventory Application

Purpose: This job aid provides a quick reference guide for users of the MIM PDA application who are in the field, performing the activities listed in Section #3.

Scope: The main focus is on the PDA user interface functionality; a high level process flow diagram conveys the main steps involved in the MIM PDA process, as it relates to field users. The application installation, MIM PDA Manager functionality, database & Web Service components of MIM PDA, as well as the Id tag acquisition process, are not part of this job aid. The information provided supports software version 8.8.0.

Refer to the *MIM Wiki* for additional information: <https://cowebapps02.aphis.usda.gov/mimWiki/>

SECTION #1 – PROCESS FLOW DIAGRAM



To log into PDA, enter password (scan barcode, or enter manually). Access MIM PDA from the main menu, by tapping on: **Start > MIM PDA.**

SECTION #2 – CREATE PREMISES INFORMATION

Tap on premises > **New**.

Enter at least one of the following by tapping in the appropriate field, entering an Id, and tapping on **OK**:

- **NAIS PIN:** National Animal Identification System Premises Identification Number.
- **State/Other PIN:** State Premises Identification Number, or another premises identification number.
- **Premises Name/Description:** Familiar name or type of premises.
- **Latitude & Longitude:** Geographic coordinates of a premises (enter manually, or via an integrated GPS device).

Save Click, to retain information entered.

OK Click, to continue.

SECTION #3 – CREATE ACTIVITY INFORMATION

Tap on Program Activity > **New**.

- **Species:** *Bovine* is the default; change if necessary.
- **Next Sequence:** Displays sequence # for next animal in the activity. If the activity is testing, this number must match the number on the blood specimen tube.
- **Program Activity 1 & 2:** Select appropriate activity.
The activities, as they relate to Brucellosis, include Official Calfhood Brucellosis Vaccination (OCV), Adult Brucellosis Vaccination (AV), Brucellosis Test (BRT), and Inventory Collection (INV).
The activities, as they relate to TB, include Caudal Fold, CT Cervical - Bovine, Single Cervical - Cervidae (CFT-CT, CST), Comparative Cervical (CCT), Gamma Interferon (GAM), and Inventory Collection (INV).
- **Program Activity 1 & 2 Start Date:** Default is the current date and time; change if necessary.

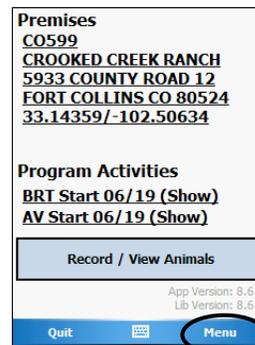
Save Click, to retain information entered.

OK Click, to continue.

SECTION #4 – SET MENU OPTIONS

The PDA can be configured to better meet your needs through two menu option buttons located on two different screens.

First Screen



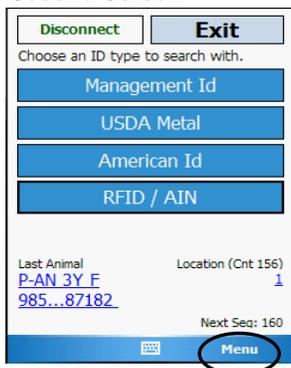
The main PDA screen is the first screen to provide a menu button. Click on *Menu* to access the options (see example shown to the left for location). The options it provides are shown in the following table.

Menu options from main PDA screen

Reader Port >	COM1 thru 10	
Scan Notify >	Audio >	On/Off
	Vibrate >	Off/Port 1-5
Settings >	Tb Minimum Age >	16mos, 12mos, All ages
	Tb Automation >	Automatic Negative
		Auto Save/Close on Read
	General Automation >	Repeat Last Age, Repeat Last Sex, Repeat Last Breed, Prompt to add new animals
Requirements >	Disallow Adult Age, Require RFID /AIN, Disallow ZZ/XX Breed	
Alerts >	Id Tags entered in the space provided are watched for while entering and displaying animals. A notification is displayed if one is found (can delete, edit, & add info).	
Record Destroyed > Tags	Connect to Reader and/or add AIN tags or Metal tags. Can delete information if necessary.	

The main animal Id screen is the second screen to provide a menu button.

Second Screen



Click on *Menu* to access the options it provides (see the *Menu* button location shown to the left). The options are shown in the table below.

Menu Options from animal Id screen

Search All Premises >	If checked, system will search all premises in the database for an animal.	
Disable Location > Count	If checked, the system will not keep count of quantity of animals per location/pen, resulting in a significant speed increase for very large herds (20,000+).	
Reports >	Activity 1 Summary >	Total animal count
	Activity 2 Summary >	Total animal count
	Locations / Pens >	Total animal count per location/pen

SECTION #5 – RECORD ACTIVITY DATA

Tap on Start > MIM PDA to access the main menu.

Verify displayed **premises & associated program activities are correct**. If not, tap on the displayed premises and use the previous & next buttons to locate the correct one. Tap *OK*.

Record / View Animals

Tap, to create new animal records for an activity, or to view existing records.

CONNECT

Tap, to communicate with the RFID reader.

Last Animal – This field displays information about the last animal record entered (animal Id #, age, sex, & breed).

Location - This field has two components:

- Current animal count at a location is shown in (parenthesis).
- Location is shown as underlined. Example: Barn 1

You must set the location before scanning animals.

Next Seq – This field displays the sequence number for the next animal. If the activity is testing, this number must match the number on the blood specimen tube.

Scan animal's RFID tag, or enter other animal identification (*Management Id, Name/Barcode/Other, American Id, or USDA Metal Tag*) by tapping on the appropriate button and entering it, using the keypad provided (not the keyboard icon). The RFID number can also be manually entered.

Enter animal information by tapping on the appropriate field.

- **Age** Tap on *Months* tab, select a month name – age in months. Tap on *Years* tab, select age in years. Tap on *Est Birth Date* tab, use calendar to select birth date. The selected age is displayed at the bottom of screen. Use the *-/+* signs to change the age to younger or older, if necessary. Tap *OK*.
Note: When performing an OCV and an AV, the age auto-determines type of vaccination.
- **Sex** Select by tapping on *Male, Female, Male Castrated, Female Spayed, or Unknown*. Tap *OK*, and *Save*.
- **Breed** The first 5 blocks are saved for the most common breeds on the premises selected. The next 10 boxes contain abbreviations for common beef cattle, and the last 5 boxes contain abbreviations for common dairy cows. Select *Grade/Cross* (unregistered animal) or *Purebred* (registered).

Toggle Full List

Tap, to view list of all breeds and the corresponding abbreviation. Select a breed, tap *OK*.

Tap Save to record this animal and associated information.

Scan next animal's RFID tag: Information from the previous animal scanned is copied over to the next animal (if auto settings are selected); the identification numbers are unique, but other information might be the same; change it if necessary.

Four buttons are located at the bottom of each animal record. If you add, delete or modify information while using the buttons, tap on *Save* to retain the changes. The buttons and their functions are shown next.

The MAIN button displays the animal's unique identification, age, sex, breed, as well as type & date of vaccination it received.

MAIN

The NOTES button provides fields to add remarks about the animal, the reason the animal was added to or absent from the herd, the location of the animal, a sequence number assigned to the animal record, the lab barcode if applicable, and the AIN (840 tag) applied during the activity.

NOTES

The MORE ID button provides a space to add a *tattoo Id*, and an *American Id* tag. Any other tag can be entered in the space provided using the *Add Tag* button; however, it will not be searchable. Use the *Delete Selected* button to remove a selected identification.

MORE ID

The TASK button provides the ability to remove a record from test or inventory, or to display the changes that were made to the animal's record. There is also a check box to allow an animal record to be saved without an official Id, if necessary.

TASKS

SECTION #6 – PAIR & RECONNECT RFID READER TO PDA

If the PDA & RFID reader lose connectivity during an activity, you will need to reestablish the connection by simply reconnecting, or in some cases by pairing the devices again & reconnecting.

Instructions for the Destron Technologies Digital Angel RFID Reader and the Symbol PDA

(Refer to the MIM Wiki to pair other brands of devices.)

To pair the reader with the PDA

1. Tap, Bluetooth icon  .
2. Tap, *Show BTE Explorer*.
3. Select a *Favorite* or *File > New Connection > Explore Services on Remote Device > Next*.
4. Tap on appropriate device (RFID Reader has a wireless code on it that should match the code under the onscreen device icon) and tap, *NEXT*.
5. Tap, *Serial Port* as the remote service (usually the only one available), then *Next* and *Next* again (to save it as a favorite).
6. Tap  to connect (if you get a message that favorite already exists, tap *OK*).
7. Select *Local COM Port* (usually COM9), tap *OK*.
8. *Connection Successful* message is displayed, and the device's wireless code displays as **bold** font.
9. *Now you must disconnect the connection in BTE Explorer in order to free up the COM Port for the MIM PDA application.*
 - Hold pen down (right-click) on the device icon, tap *Disconnect > Yes*.

To connect, or reconnect the PDA & RFID Reader

1. Access the MIM PDA application on the PDA. Select the appropriate premises/activity and Tap, *Record/View Animals*.
2. Tap  to connect the PDA to the RFID reader.

SECTION #7 – VIEW REPORTS

During an activity, you can access reports on the PDA that reflect the current activity status. To access the reports, go to the animal Id screen and tap on *Menu > Reports*.

Activity 1 Summary

Counts of results for Activity 1.

Result	Count
Injected	9
Total	9

Click on *Injected* or 9, then click on *View/Edit Animals* to display *Animal Details*. Use the *Previous & Next* buttons to navigate to different animal records. *Edit & Save* record if necessary.

View/Edit Animals

Close Report

1 of 9 

Animal Details: [Edit](#)
 SEQ: 1 985120026285896
 Age:4Y Brd:AN(P) Sex:F
 Activity 1 Result: Injected
 Activity 2 Result:

Activity 2 Summary

The Activity 2 Summary report functions like the Activity 1 Summary report. The terminology of the reports changes with the activity (e.g. If the activity is a blood test, instead of an *Injected* Result, it will be a *Drawn* Result).

Locations / Pens

Counts of animals per location/pen.

Location	Count
2	3
1	6
Total	9

Click on *Location 1* or 2 or *Count 3* or 6, then click on *View/Edit Animals* to display *Animal Details*. Use the *Previous & Next* buttons to navigate to different animal records. *Edit & Save*

View/Edit Animals

Close Report

1 of 6 

Animal Details: [Edit](#)
 SEQ: 1 985120026285896
 Age:4Y Brd:AN(P) Sex:F
 Activity 1 Result: Injected
 Activity 2 Result:

Note: You can also view a count of animals associated with a premises from the main PDA screen. Click on the underlined premises, then click on the Count button. Inventory, Assigned, and Identified quantities are displayed. Use the Next & Previous buttons to navigate to other premises.

SECTION #8 – BACKUP DATA

- Tap on *Start > Sprite Backup > Backup > Next*.
- Change file name using this convention: PDA#_DairyName_Test type inject or read (e.g. NMTB01_DairyOne_Inject).
- Change location to STORAGE CARD (very important)!
- Tap *Next*, then *Next* again; PDA will begin to backup.

Note: PDA will reboot itself; DO NOT cancel backup or turn off PDA until you are back at original start screen.

Also, PDA automatically puts a date at end of file. Be sure to backup the same day as the test, if possible. If you backup on a different date, edit the "auto" date to the actual test date.