

Quick Capture Platform Storyboards

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U.S. Department of Commerce
Gary Locke, Secretary

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Executive Summary

The functionality depicted in the following storyboards reflects what is implemented in the high-fidelity demonstration software. It should also be noted that not all intended functionality of the Quick Capture Platform (QCP) is shown in the demonstration but the storyboards show the major work flows. Please refer to the NISTIR 7644 *Quick Capture Platform Use Cases - User Interaction Specifications*, for the entire functionality. Refer to the *Quick Capture Platform User Interface Concepts* (pages 91-99) to see some differences between the demonstration software and the intended actual user interface. Due to the limitation of the software being for demonstration purposes only, in a few cases, we couldn't implement the desired user interface.

The user interface was designed for small-form-factor, portable devices. Although the user interface was designed for a touch screen, there is no functionality that depends on a touch interface. All text used in the Quick Capture Platform user interface is in a sans serif font (e.g., *Helvetica*¹).

¹ Helvetica is a trademark of Linotype Corp. registered in the U.S. Patent and Trademark Office and may be registered in certain other jurisdictions in the name of Linotype Corp. or its licensee Linotype GmbH.

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Quick Capture Platform *Small Display Devices* Storyboard

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Devices with a Small Display

Two examples are shown to demonstrate the extensibility of the high-fidelity user interaction design.

- Example 1 - the QCP home page shown on the display of a Panasonic¹ U1 computer with a screen size of approximately 5"(W)x3"(H)
- Example 2 - the QCP home page shown on the display of an Apple iPhone² with a screen size of approximately 3"(W)x2"(H)

^{1, 2} In no case does such identification imply recommendation or endorsement by the National Institute of Standards and Technology, nor does it imply that the products and equipment identified are necessarily the best available for the purpose.

Example 1



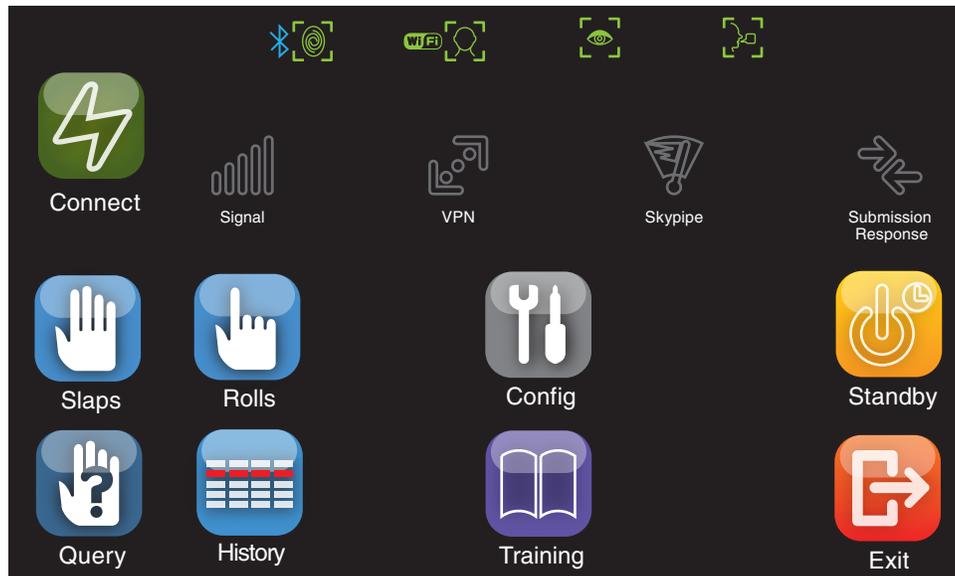
Example 2

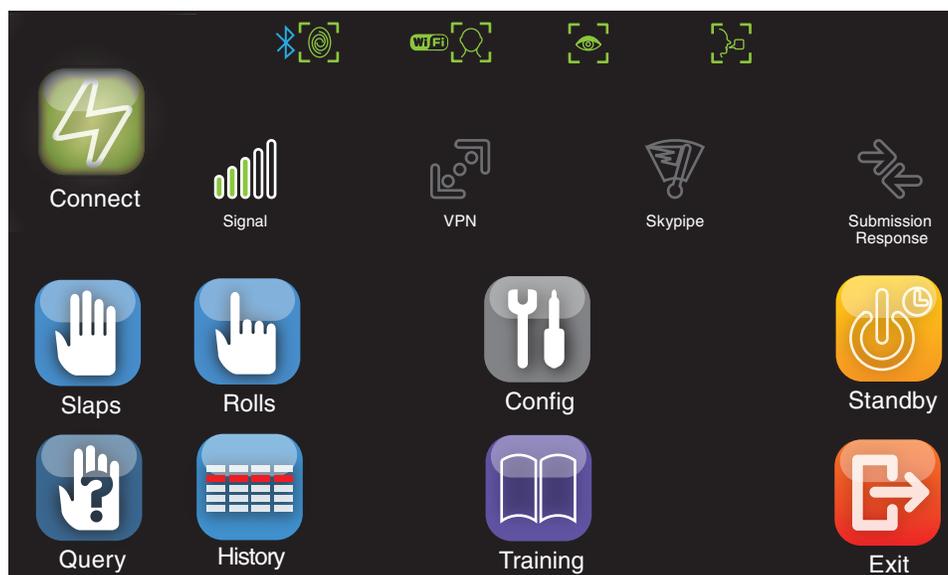




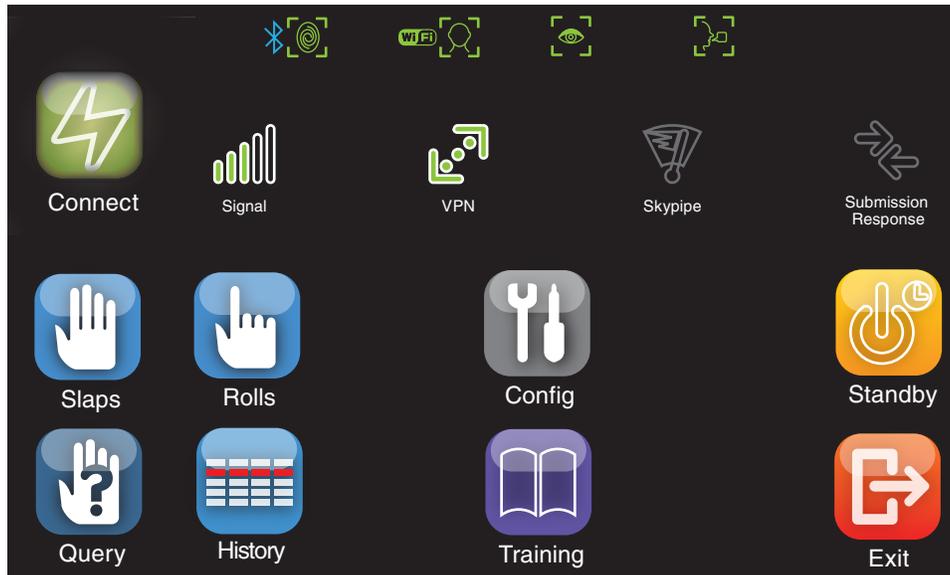
Quick Capture Platform Home Storyboard

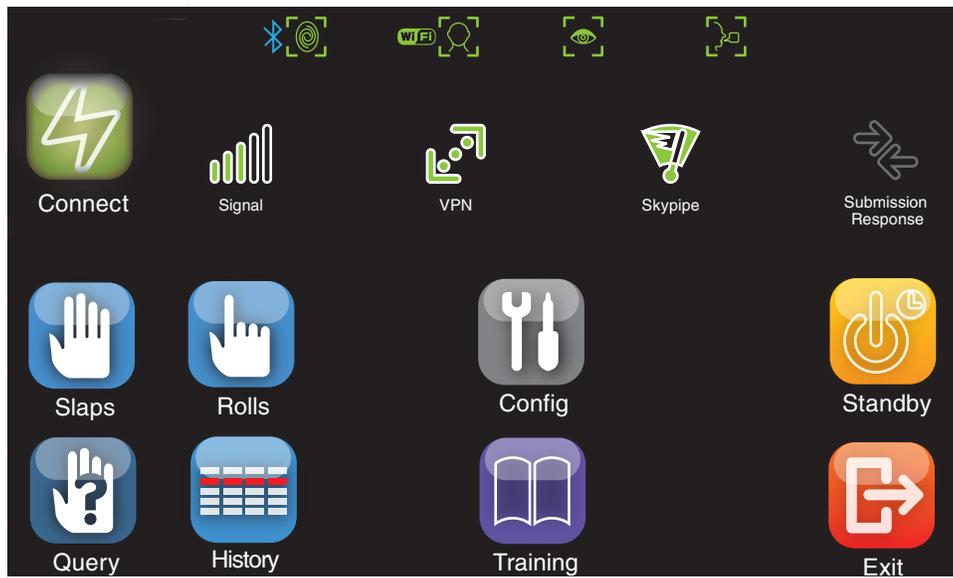
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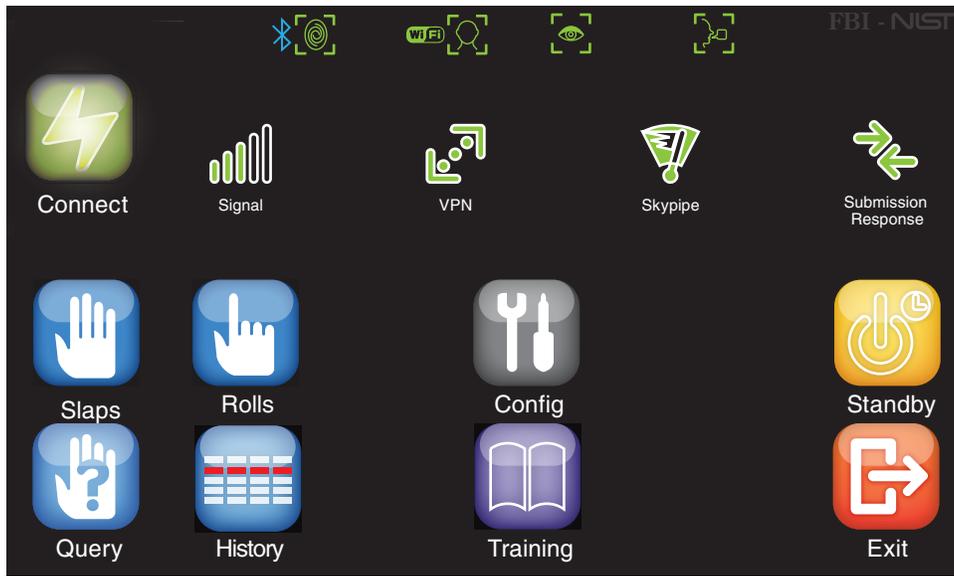


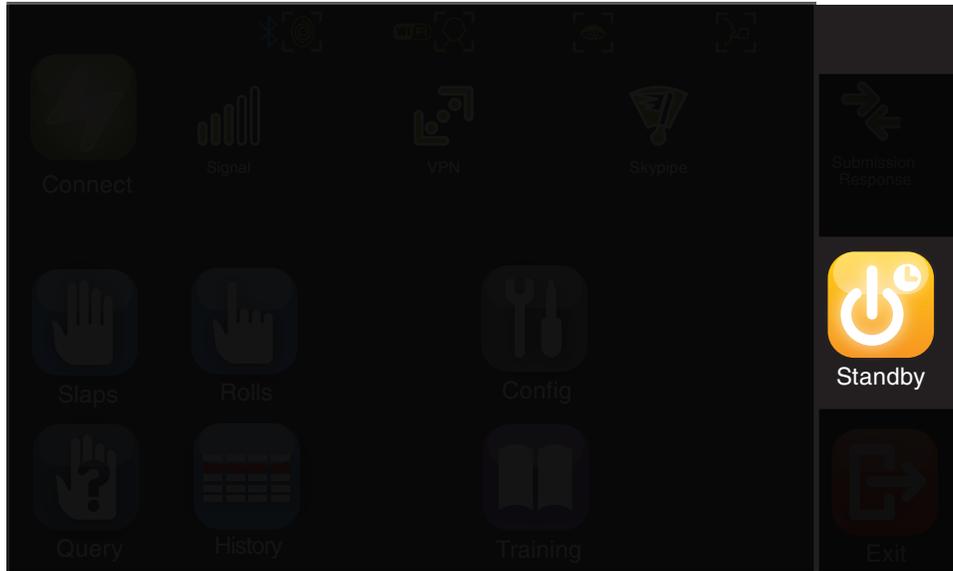


Tap the connect button to show the start connection button start. Tapping the Signal, VPN, Skypipe, and Submission/Response symbols will show the connection state for these items. After all Items show the connected state, the connection button will display the overall connection state.









Tapping the Standby Button will toggle the Homepage between standby and active.



Quick Capture Platform Personal Data Storyboard

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TCN:20090309-1112-HRT001

Deceased

Male Female Unknown

First: DOB: 19780423

Middle: POB: XX_UNKNOWN ▼

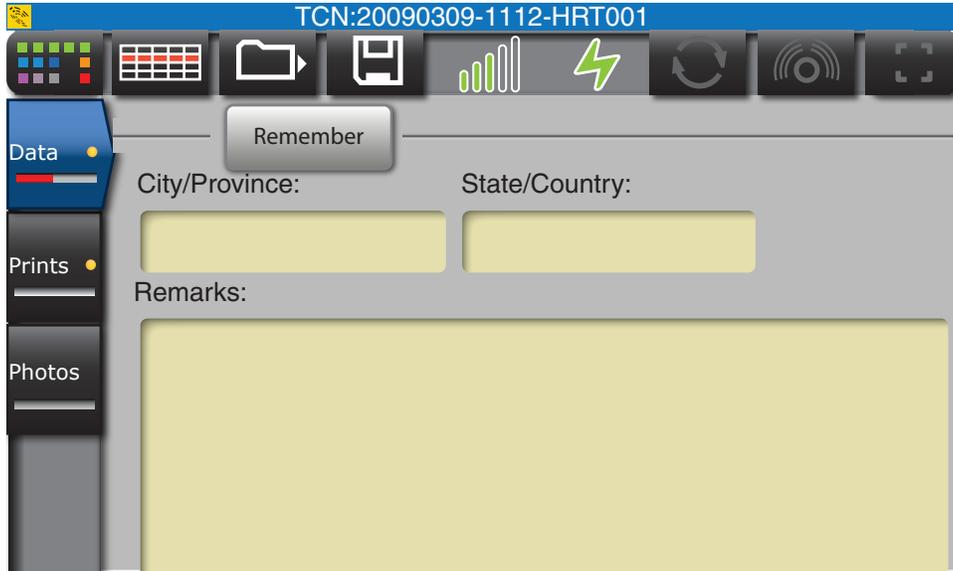
Last: Race: U - UNKNOWN ▼

Other: Eyes: BRO_BROWN ▼

Alias: Height: 0 ▼ 00 ▼

Hair: BLK - BLACK ▼ Weight: 000 lbs

Note that the Data tab indicates that some data has been entered. This refers to the default values.

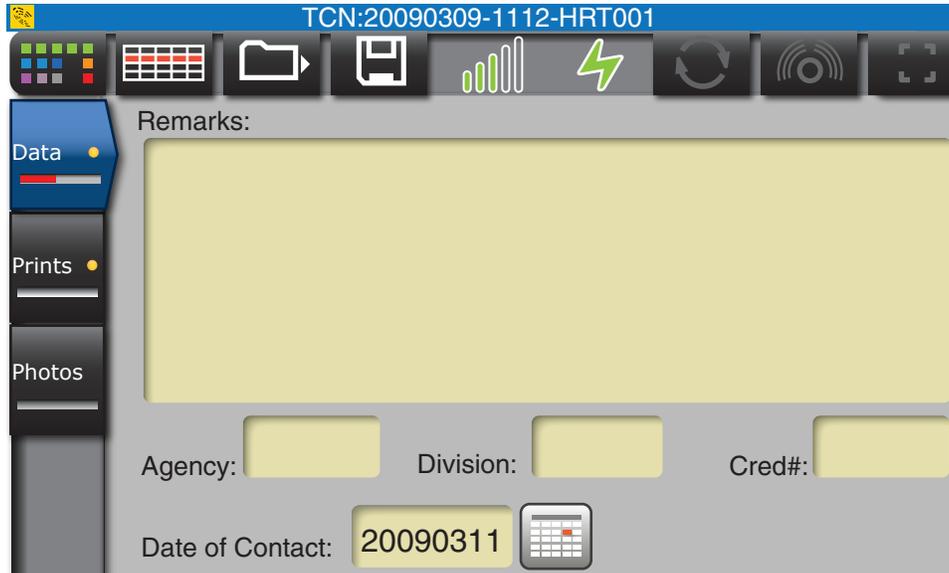


TCN:20090309-1112-HRT001

Remarks:

Agency: Division: Cred#:

Date of Contact: 



TCN:20090309-1112-HRT001

Deceased

Male Female Unknown

First: JOHN DOB: 19780423

Middle: DWIGHT POB: XX_UNKNOWN

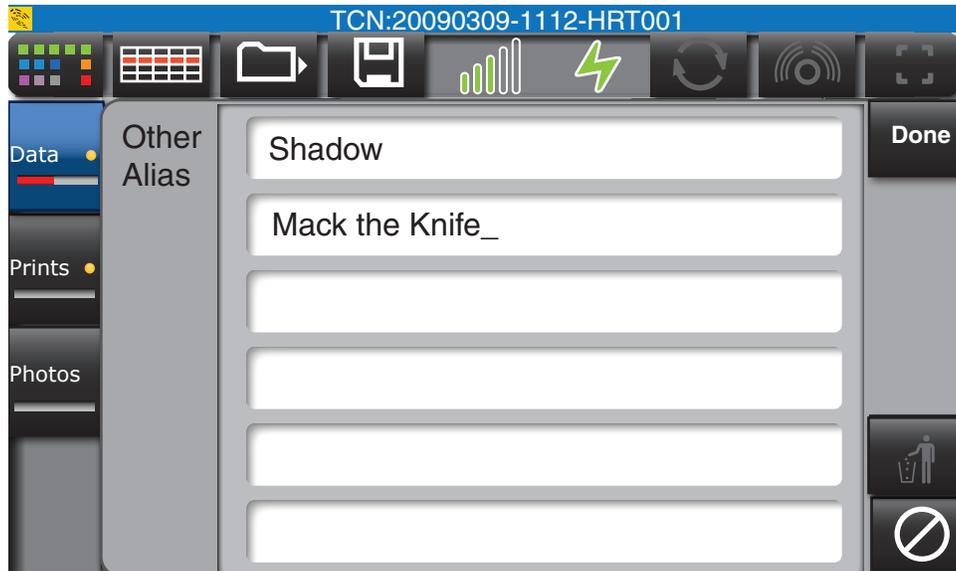
Last: DOE Race: U - UNKNOWN

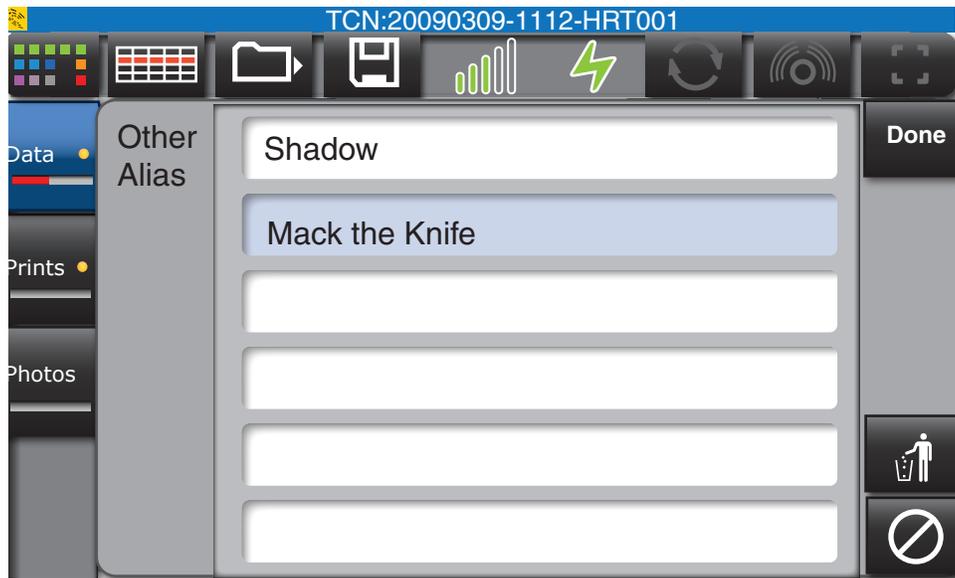
Other: Eyes: BRO_BROWN

Alias: Shadow Height: 0 00

Hair: BLK - BLACK Weight: 000 lbs

Tapping the additional data button next to the Alias entry field will cause the additional data popup to be displayed.





TCN:20090309-1112-HRT001

Deceased Male Female Unknown

First: JOHN DOB: 19780423

Middle: DWIGHT POB: XX_UNKNOWN

Last: DOE Race: U - UNKNOWN

Other: Eyes: BRO_BROWN

Alias: Shadow Height: 0 00

Hair: BLK - BLACK Weight: 000 lbs

Tapping the calendar button next to the date of birth field will cause the date picker popup to be displayed.



TCN:20090309-1112-HRT001

Deceased Male Female Unknown

First: JOHN DOB: 19590117

Middle: DWIGHT POB: XX_UNKNOWN ▼

Last: DOE Race: U - UNKNOWN ▼

Other: Eyes: BRO_BROWN ▼

Alias: Shadow Height: 0 ▼ 00 ▼

Hair: BLK - BLACK ▼ Weight: 000 lbs

TCN:20090309-1112-HRT001

Deceased

Male Female Unknown

First: JOHN DOB: 19780423

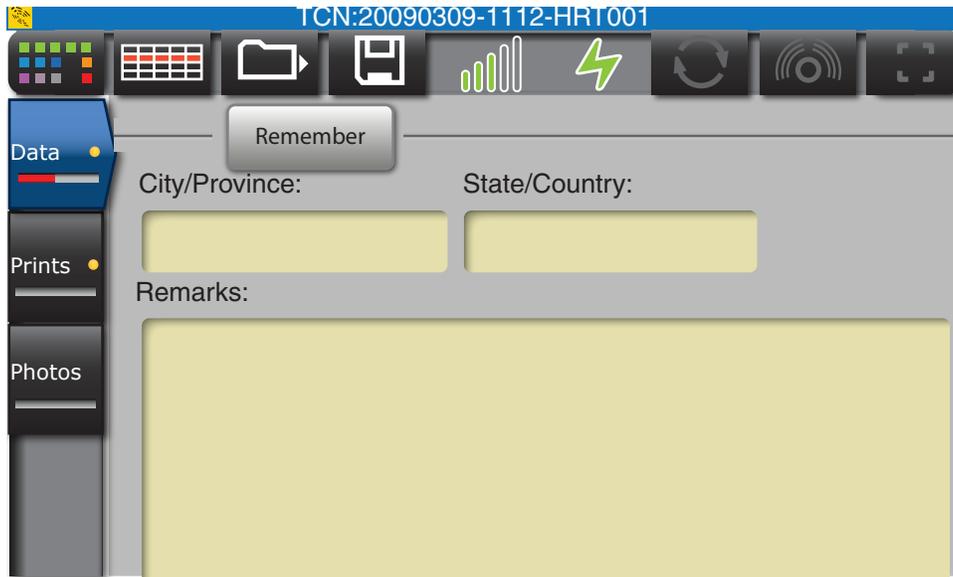
Middle: DWIGHT POB: XX_UNKNOWN

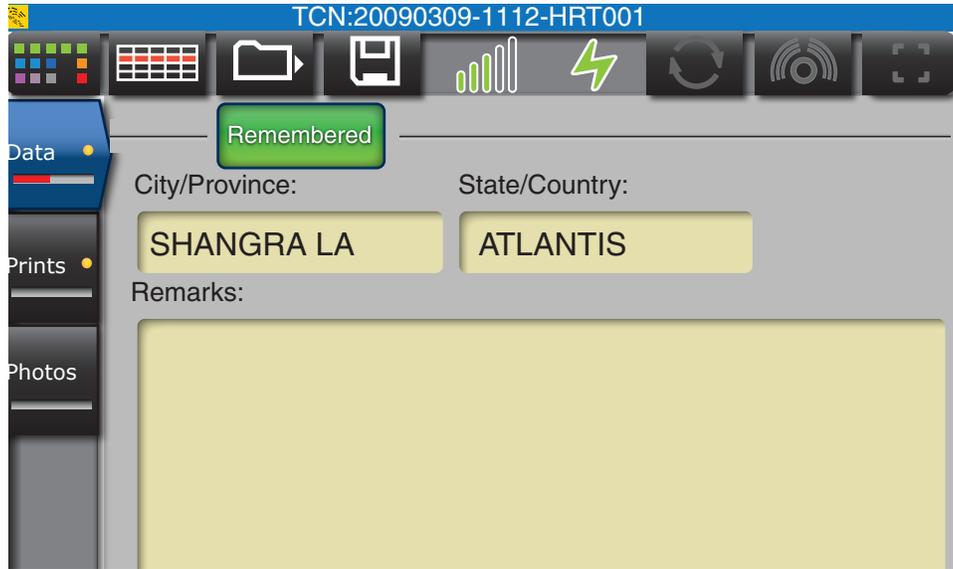
Last: DOE Race: U - UNKNOWN

Other: Eyes: BRO_BROWN

Alias: Shadow Height: 0 00

Hair: BLK - BLACK Weight: 000 lbs





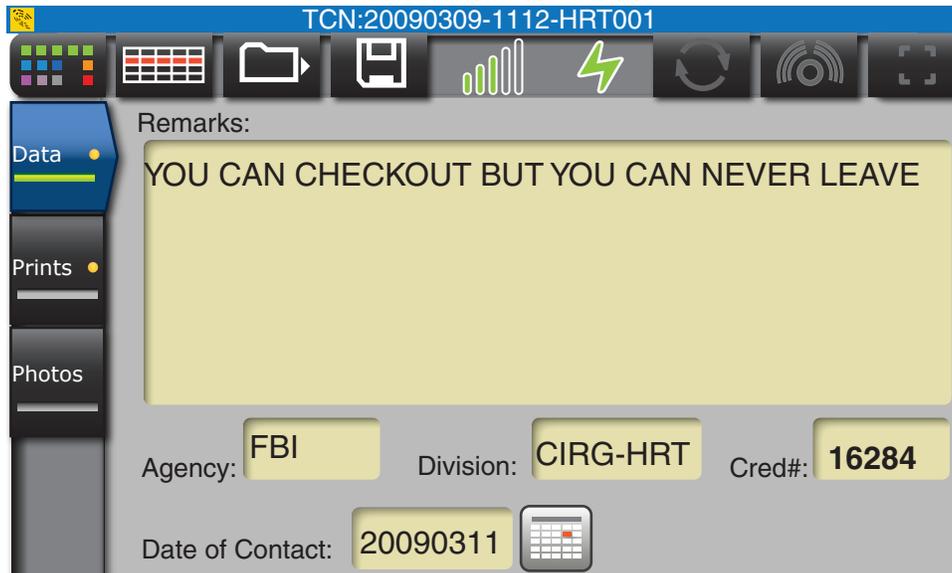


TCN:20090309-1112-HRT001

Remarks:
YOU CAN CHECKOUT BUT YOU CAN NEVER LEAVE

Agency: FBI Division: CIRG-HRT Cred#: 16284

Date of Contact: 20090311

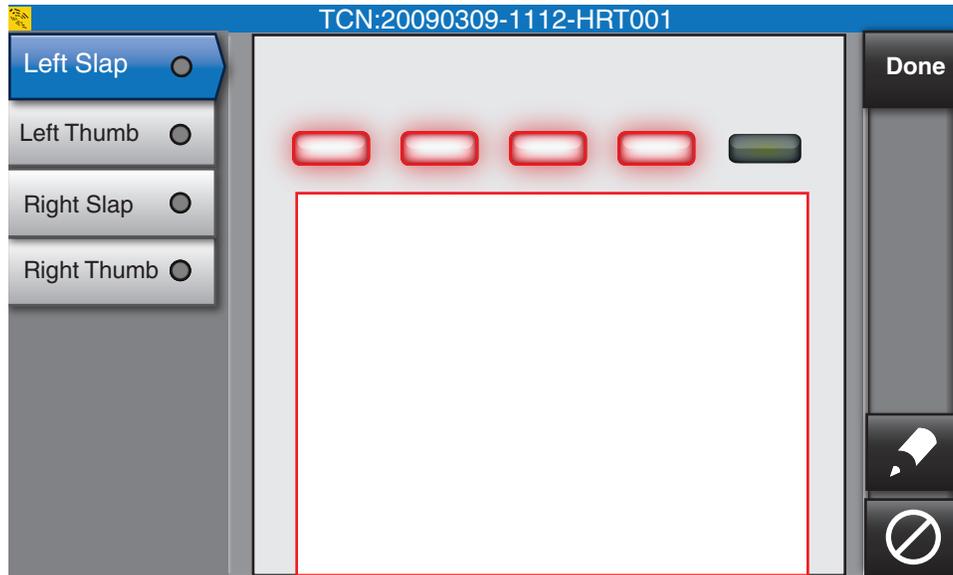


Once all mandatory fields have been filled, the data tab will indicate that status.

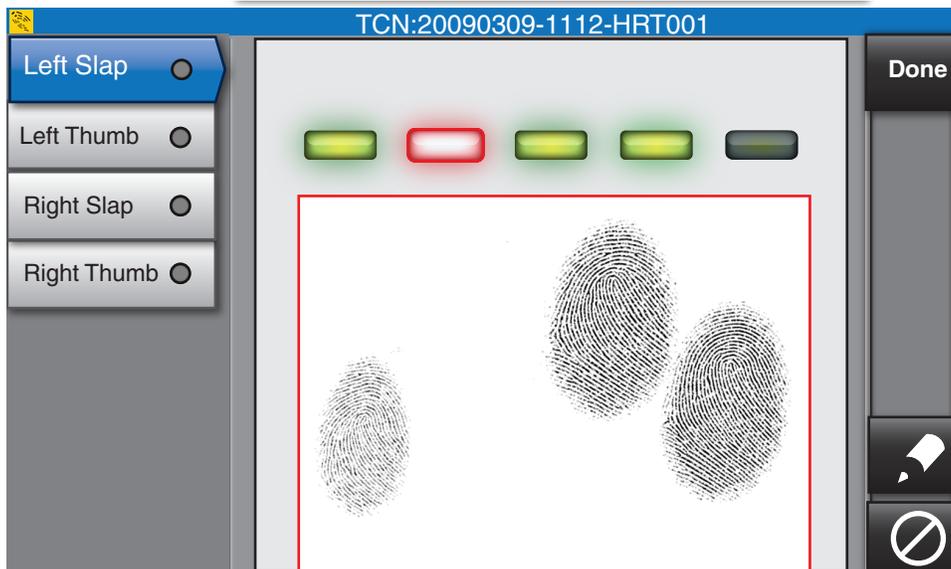


Quick Capture Platform Slaps Storyboard

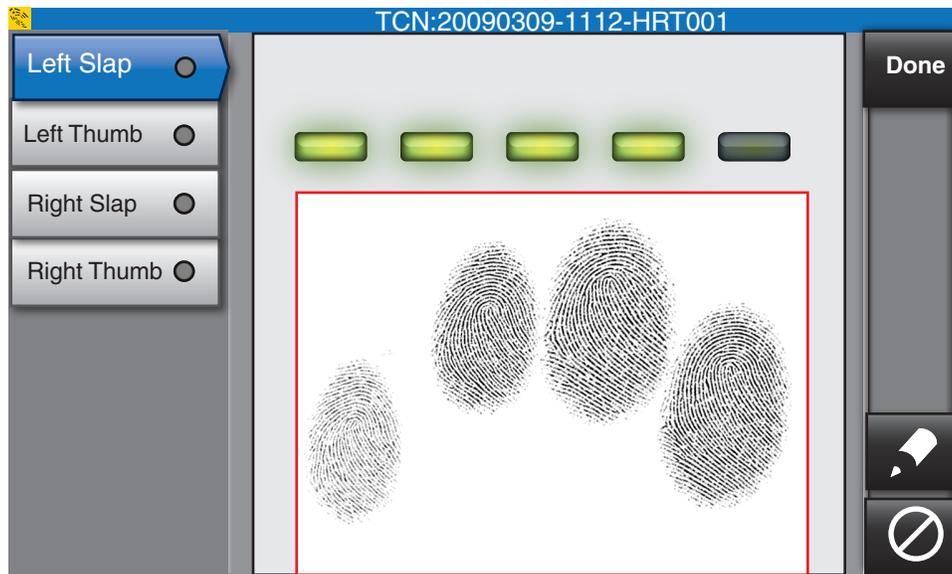
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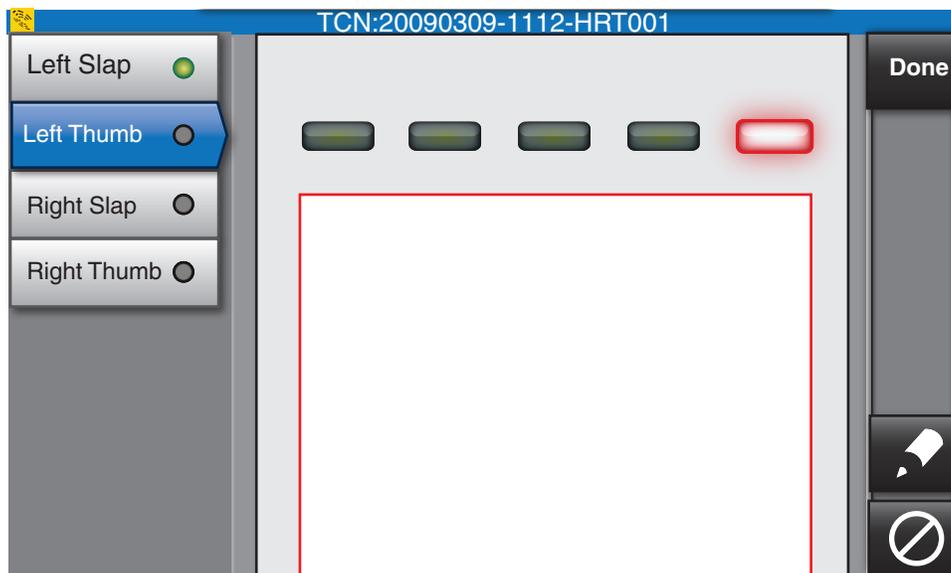
After tapping the Slaps button from the home page and tapping the Prints tab, the system will present the slap print capture animation.



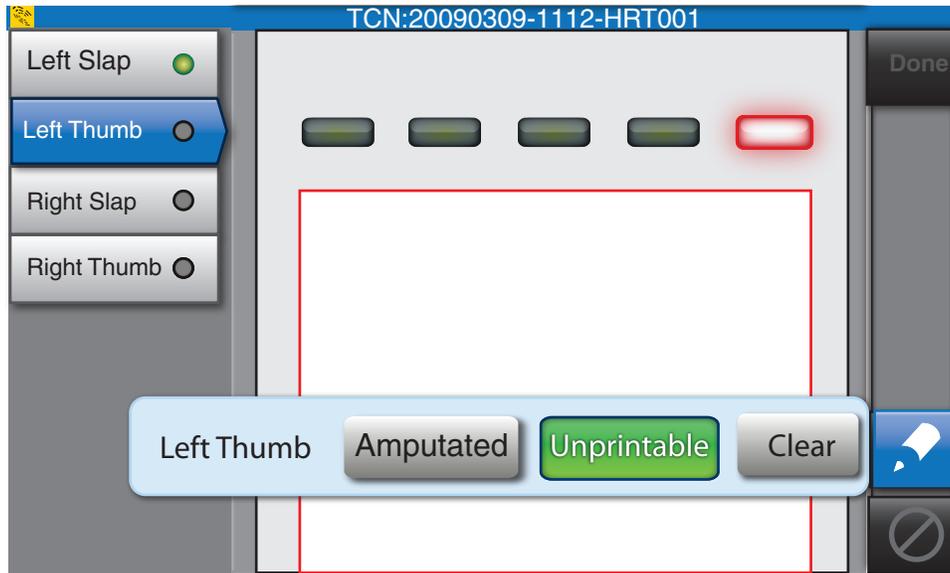
The animation starts with a left slap and shows the scanner picking up only three out of the four prints.

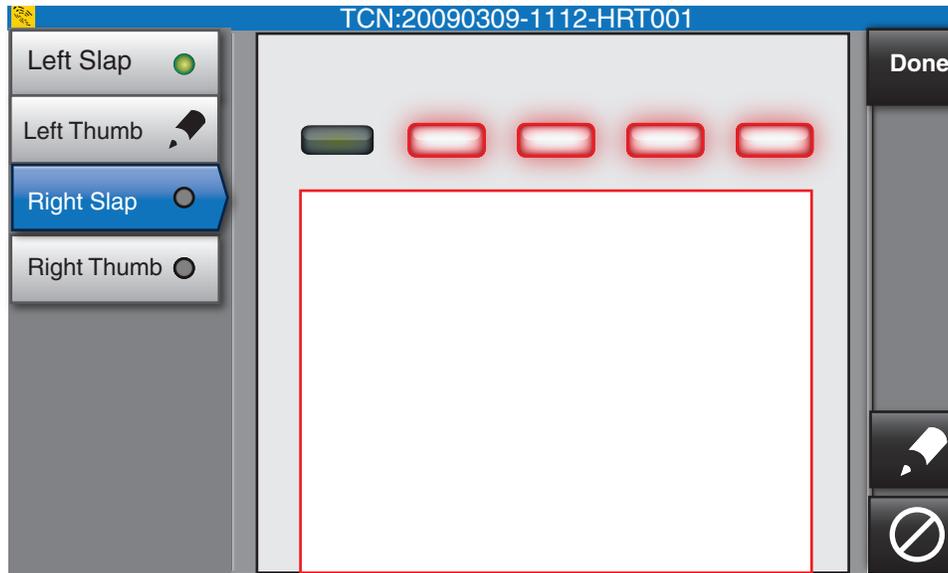


The animation then shows the scanner acquiring the fourth print.

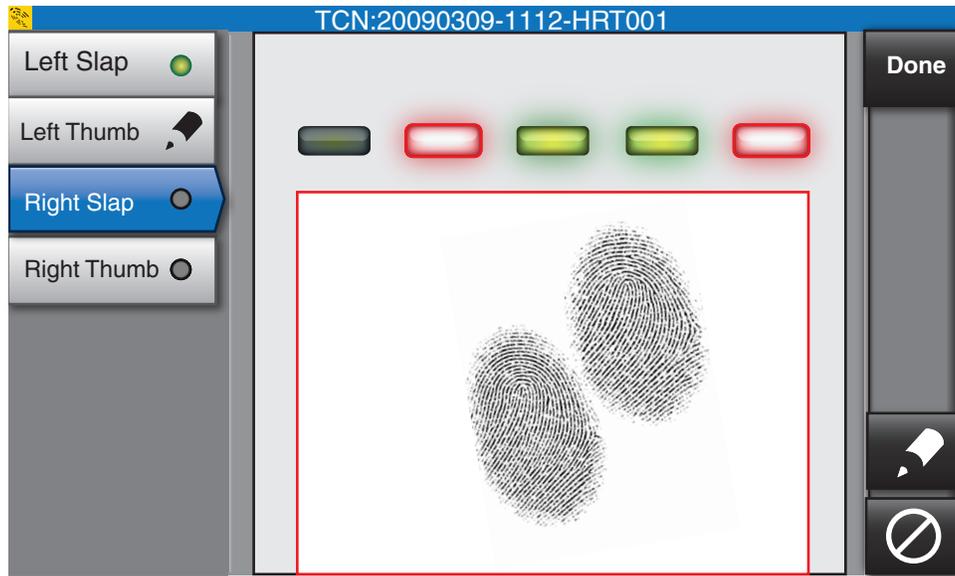


The animation will move on to the Left Thumb print collection. Please note that the empty circle on the Left Slap entry is now green showing that there has been a print collected for that finger. For the left thumb print acquisitions the animation will pause so that the demonstrator can show the annotate function.





Once the left thumb has been annotated the animation will move to a right slap and show a system initiated annotation.





The demonstrator will wait until the animation provides the annotation popup to choose two out of the four possible prints to annotate.

TCN:20090309-1112-HRT001

Left Slap
Left Thumb
Right Slap
Right Thumb

Only two prints were detected for Right Slap.



Done

Please annotate the missing prints.

Right Index	Amputated	Unprintable	Clear
Right Middle	Amputated	Unprintable	Clear
Right Ring	Amputated	Unprintable	Clear
Right Little	Amputated	Unprintable	Clear

Clear

Clear

Clear

Clear

Clear

Clear

Clear

Clear

TCN:20090309-1112-HRT001

Left Slap
Left Thumb
Right Slap
Right Thumb

Only two prints were detected for Right Slap.



Please annotate the missing prints.

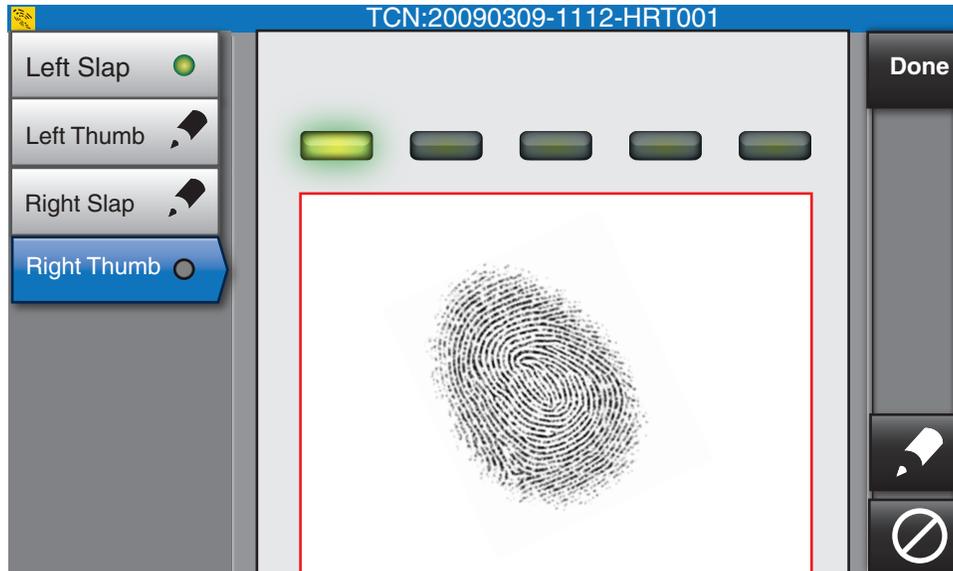
Right Index	Amputated	Unprintable	Clear
Right Middle	Amputated	Unprintable	Clear
Right Ring	Amputated	Unprintable	Clear
Right Little	Amputated	Unprintable	Clear

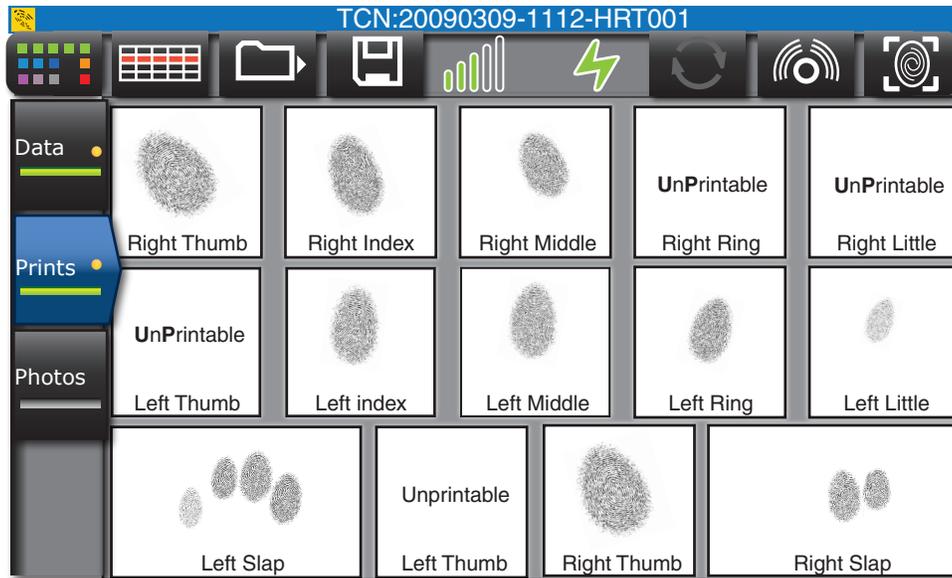
Done





Once the Right slap has been annotated, the animation will show the successful capture of the right thumb and then display the print screen.





Once the capture print animation is complete, the status indicator on the print tab will show that all mandatory fields are entered and the transmit button will become active. Double tapping on a print image will cause that individual print to be displayed. The demonstrator can enlarge that print and move among all prints.

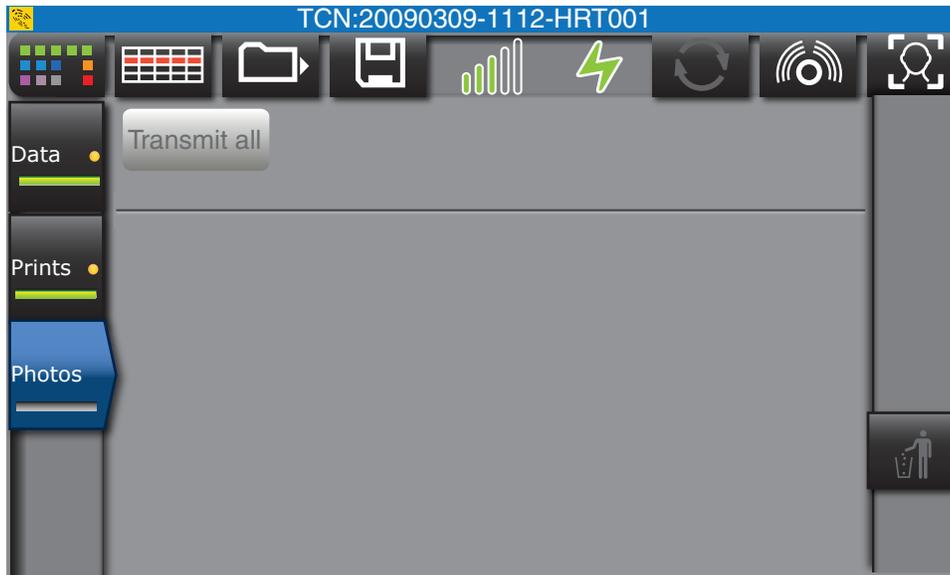




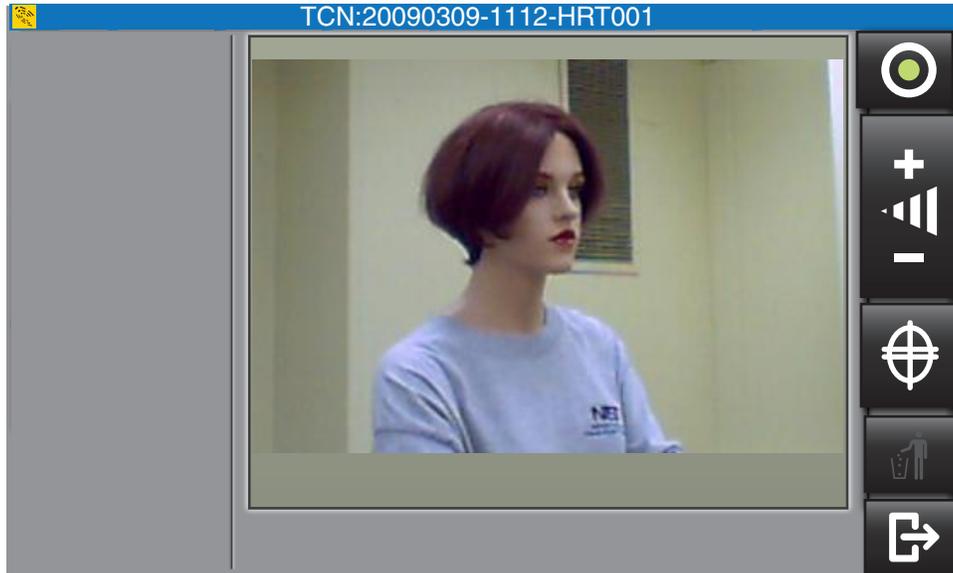


Quick Capture Platform Photos Storyboard

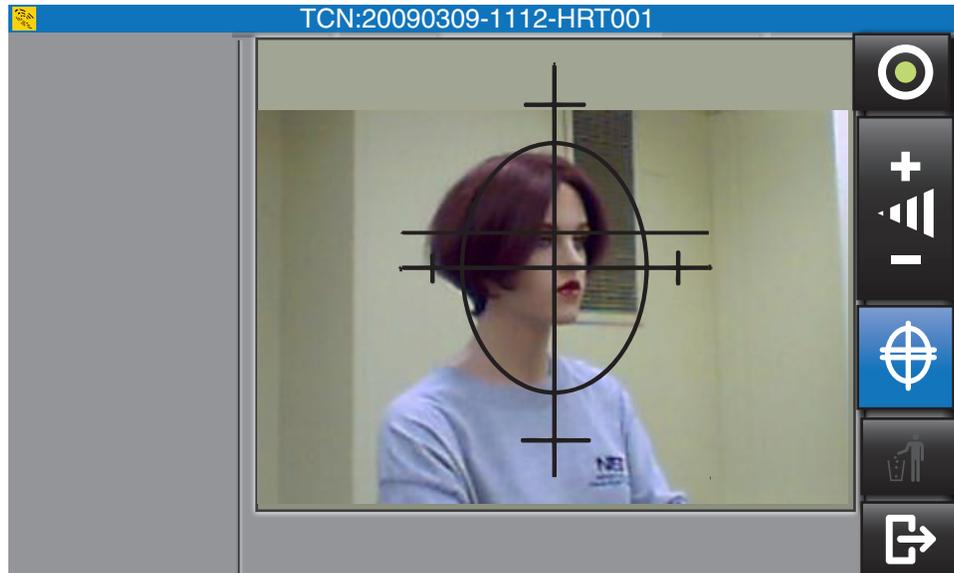
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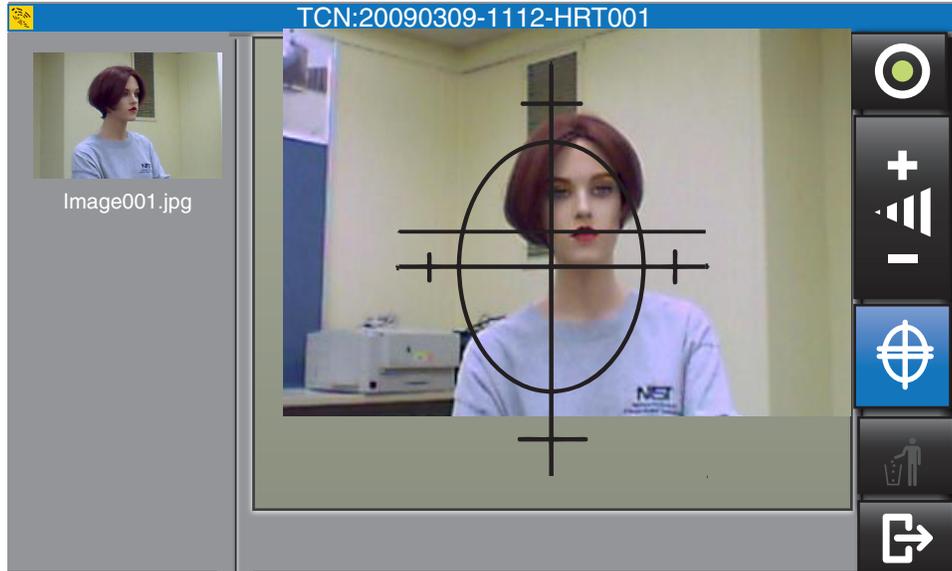


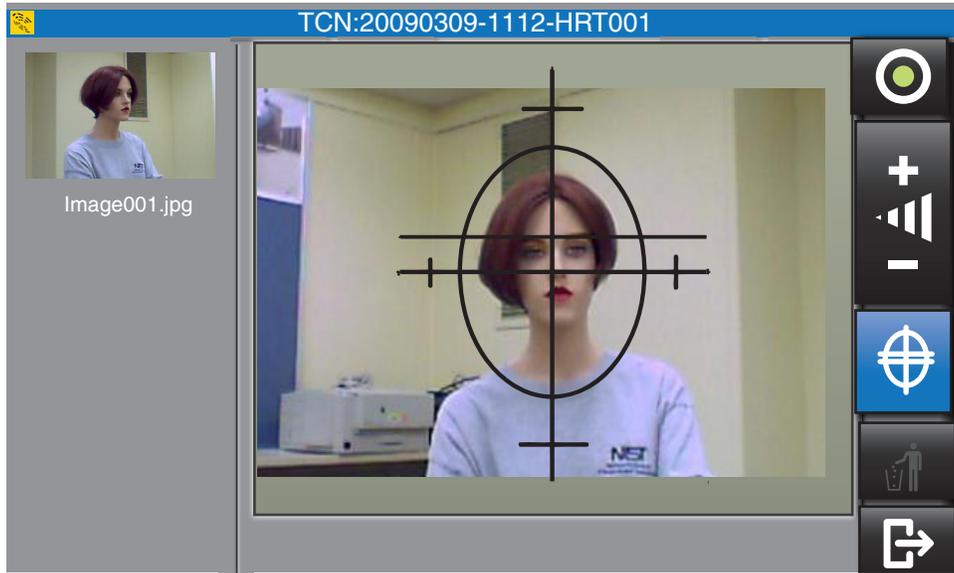
Tapping the Photo Capture button in the top right of the screen will show the imbedded camera functionality.

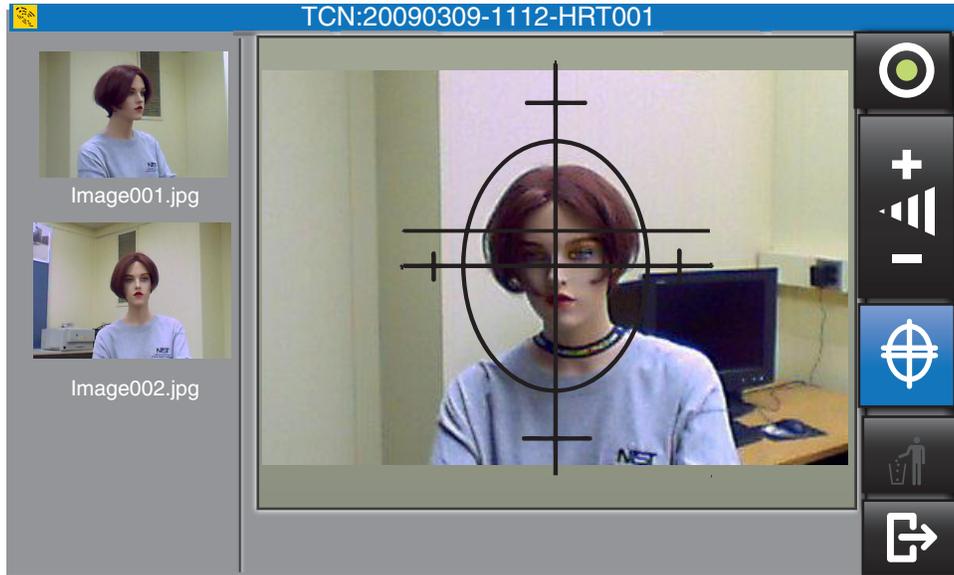


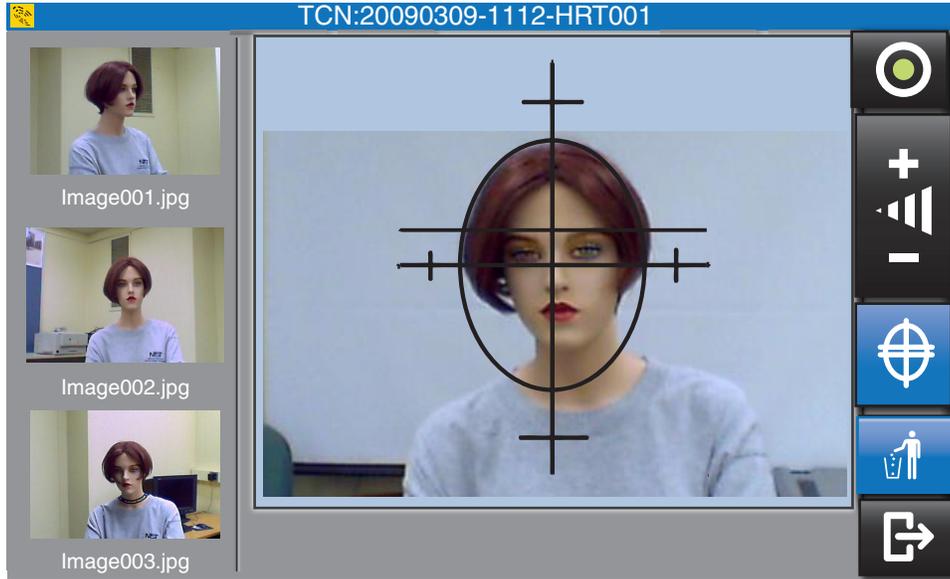
Tapping the green circle within the white ring button will “take” the picture and add it to the picture list.

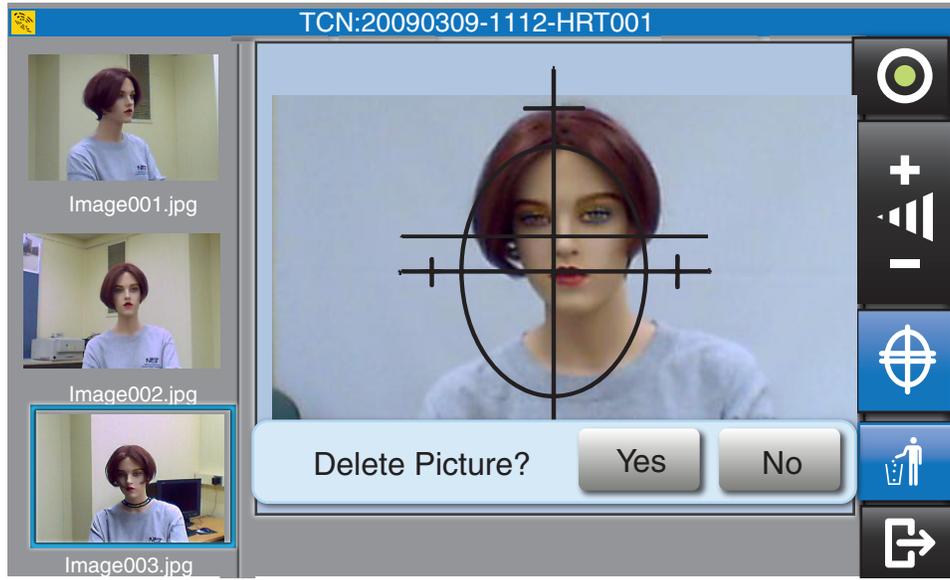


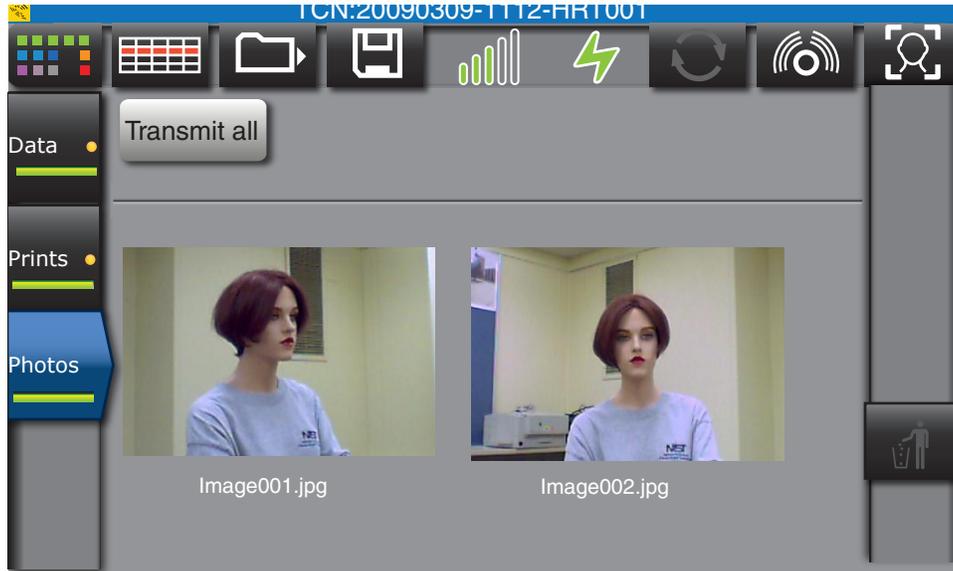


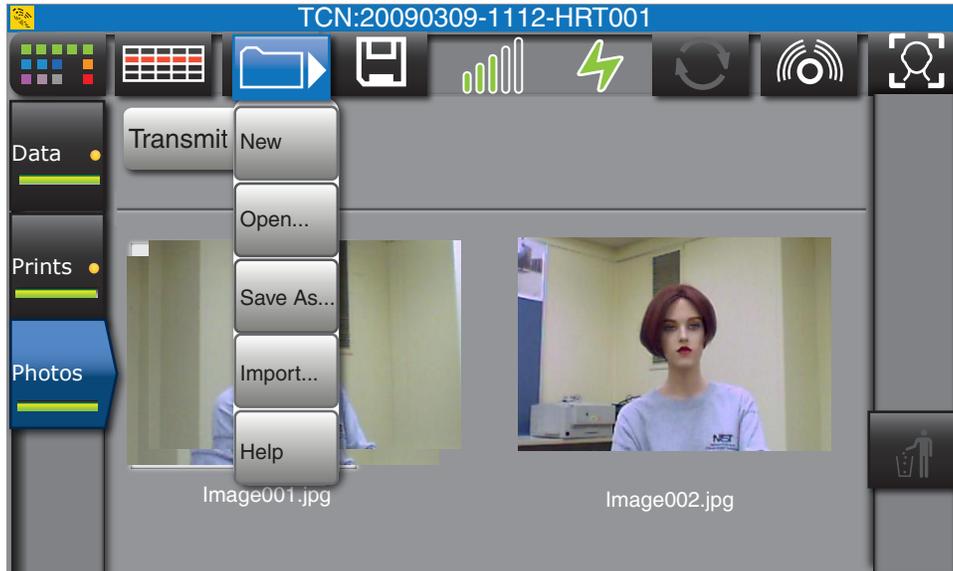


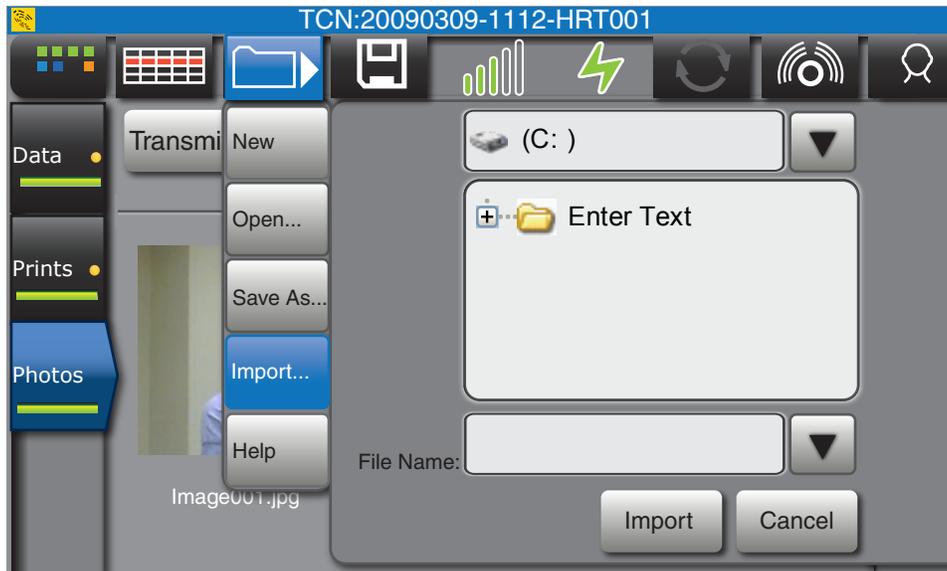




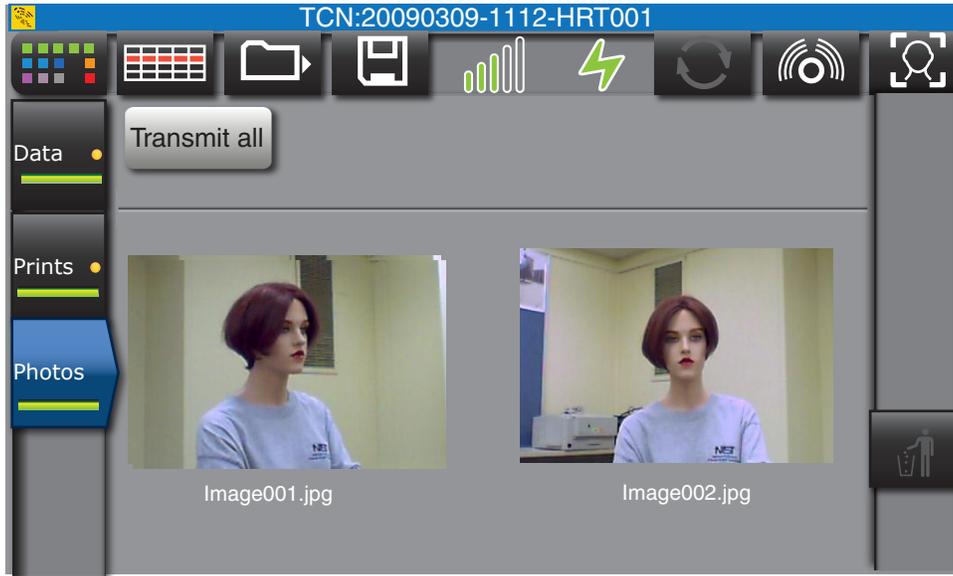








The import file for photos is not supported in the demo, only how to access the file.





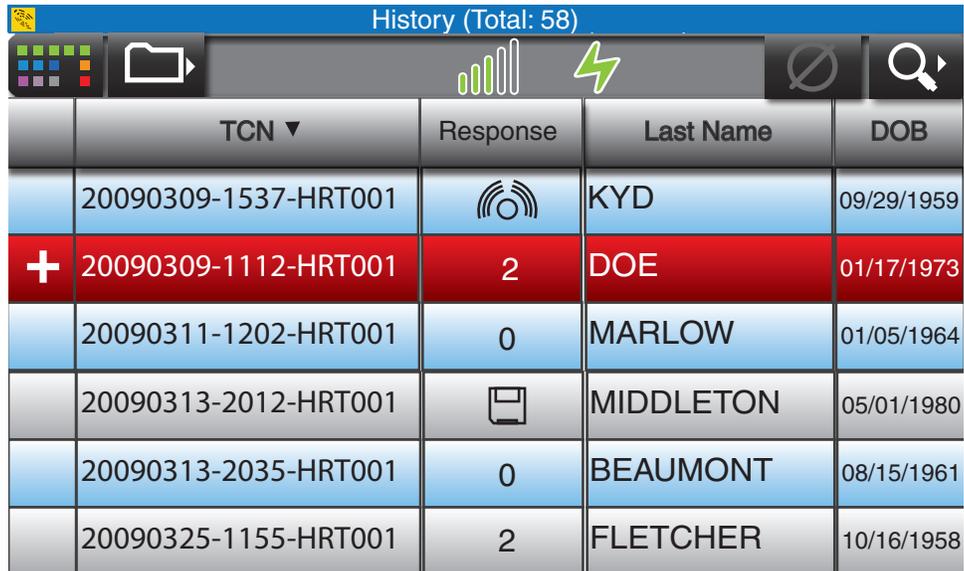
Quick Capture Platform History Storyboard

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History (Total: 58)

	TCN ▼	Response	Last Name	DOB
	20090309-1537-HRT001		KYD	09/29/1959
+	20090309-1112-HRT001	2	DOE	01/17/1973
	20090311-1202-HRT001	0	MARLOW	01/05/1964
	20090313-2012-HRT001		MIDDLETON	05/01/1980
	20090313-2035-HRT001	0	BEAUMONT	08/15/1961
	20090325-1155-HRT001	2	FLETCHER	10/16/1958

History (Total: 58)				
	TCN	Response ▼	Last Name	DOB
	20090309-1537-HRT001		KYD	09/29/1959
■	20090309-1112-HRT001	2	DOE	01/17/1973
	20090309-1112-HRT001A		DOE	01/17/1973
	20090309-1112-HRT001B		DOE	01/17/1973
	20090311-1202-HRT001	0	MARLOW	01/05/1964
	20090313-2012-HRT001		MIDDLETON	05/01/1980



	TCN ▼	Response	Last Name	DOB
	20090309-1537-HRT001		KYD	09/29/1959
+	20090309-1112-HRT001	2	DOE	01/17/1973
	20090311-1202-HRT001	0	MARLOW	01/05/1964
	20090313-2012-HRT001		MIDDLETON	05/01/1980
	20090313-2035-HRT001	0	BEAUMONT	08/15/1961
	20090325-1155-HRT001	2	FLETCHER	10/16/1958

Tapping the Search button in the right corner will cause the search criteria popup to display.

History (Total: 58)

TCN: Status:

Name: Response Count:

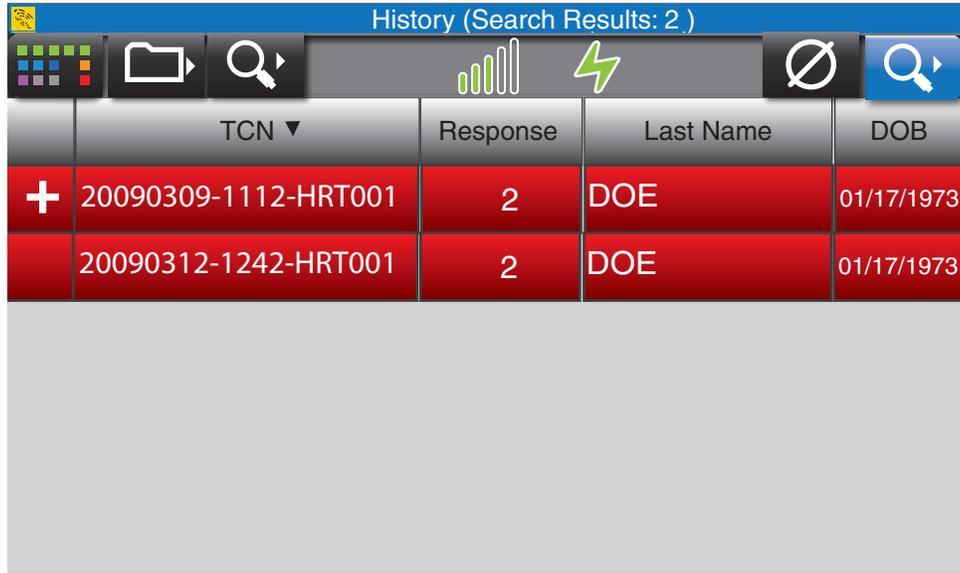
Last:

First: Date Submitted: From:

Middle: To:

DOB: From:

To:



The screenshot shows a software interface window titled "History (Search Results: 2)". The window has a toolbar with icons for a folder, search, bar chart, lightning bolt, and a search icon with a magnifying glass. Below the toolbar is a table with the following data:

	TCN ▼	Response	Last Name	DOB
+	20090309-1112-HRT001	2	DOE	01/17/1973
	20090312-1242-HRT001	2	DOE	01/17/1973

TCN:20090309-1112-HRT001

FBI IAFIS HIT 10/10/2009 READ	DoD HIT 10/10/2009 READ	DHS ABIS Reject 10/10/2009 READ
FBI Verified 10/10/2009 READ		



Tap Red Hit info box to bring up RAP sheet.

TCN:20090309-1112-HRT001

FBI IAFIS DoD

UNITED STATES DEPARTMENT OF JUSTICE
 FEDERAL BUREAU OF INVESTIGATION
 CRIMINAL JUSTICE INFORMATION SERVICES DIVISION
 CLARKSBURG, WV 26306

FBIHRTZ ICN ISIS0002000005702833

- FBI INDETIFICATION RECORD -
 EXPLANATION OF A CHARGE OR DISPOSITION IS NEEDED, COMMUNICATE
 DIRECTLY WITH THE AGENCY FURNISH8ING THE DATA TO THE FBI

NAME	FBI NO.	DATE REQUESTED
WILCO, ROGER	106608MC0	2009/02/19

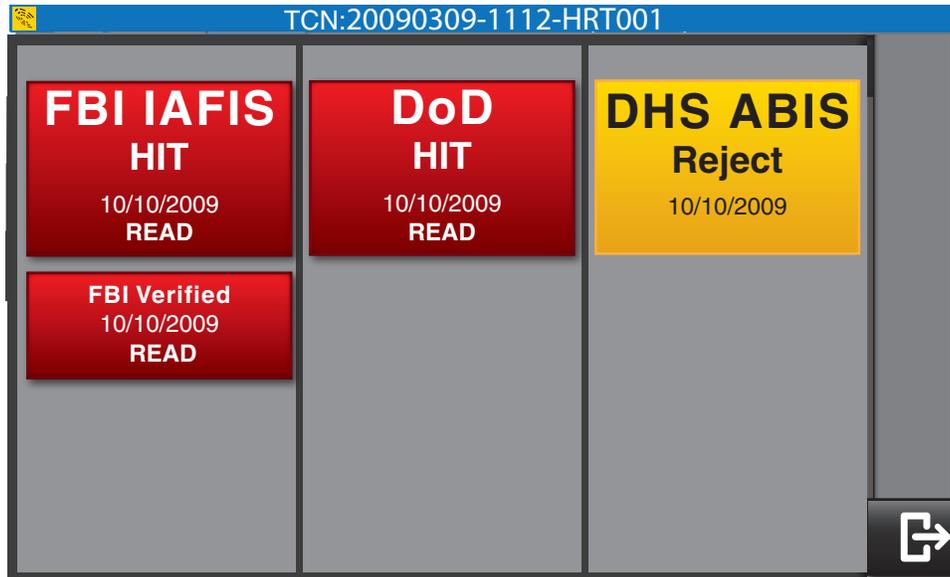
RACE	BIRTH DATE	HEIGHT	WEIGHT	EYES	HAIR
U	1986/07/24	604	185	BRO	BLK

BIRTH PLACE WHOVILLE CITIZENSHIP USA

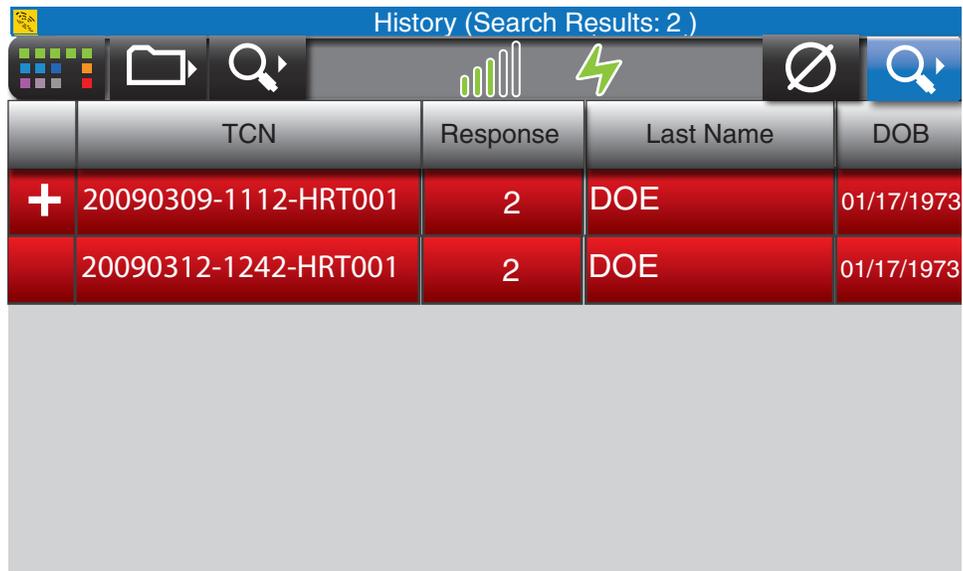
1 - ARRESTED OR RECEIVED 2006/04/25X (PRT REC)
AGENCY-BIOMETRIC FUSION CTR CLARKSBURG (WvDODSOO)



Tap the exit button to return to the hit data.



Tap exit to return to list.



	TCN	Response	Last Name	DOB
+	20090309-1112-HRT001	2	DOE	01/17/1973
-	20090312-1242-HRT001	2	DOE	01/17/1973

To return to the entire list, tap on the cancel search button adjacent to the search button. The demonstrator may also bring up the search criteria popup and tap the clear button.

History (Total: 58)

	TCN ▼	Response	Last Name	DOB
	20090309-1537-HRT001		KYD	09/29/1959
+	20090309-1112-HRT001	2	DOE	01/17/1973
	20090311-1202-HRT001	0	MARLOW	01/05/1964
	20090313-2012-HRT001		MIDDLETON	05/01/1980
	20090313-2035-HRT001	0	BEAUMONT	08/15/1961
	20090325-1155-HRT001	2	FLETCHER	10/16/1958



The key sequence "CONTROL = P" will cause the hit popup to display at any point throughout the demonstration.

TCN:20090309-1112-HRT001

FBI IAFIS DoD

UNITED STATES DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
CRIMINAL JUSTICE INFORMATION SERVICES DIVISION
CLARKSBURG, WV 26306

FBIHRTZ ICN ISIS0002000005702833

- FBI IDENTIFICATION RECORD -
EXPLANATION OF A CHARGE OR DISPOSITION IS NEEDED, COMMUNICATE
DIRECTLY WITH THE AGENCY FURNISHING THE DATA TO THE FBI

NAME	FBI NO.	DATE REQUESTED
WILCO, ROGER	106608MC0	2009/02/19

RACE	BIRTH DATE	HEIGHT	WEIGHT	EYES	HAIR
U	1986/07/24	604	185	BRO	BLK

BIRTH PLACE WHOVILLE CITIZENSHIP USA

TCN:20090309-1112-HRT001

Deceased Male Female Unknown

First: JOHN DOB: 19780423

Middle: DWIGHT POB: XX_UNKNOWN

Last: DOE Race: U-UNKNOWN

Other: Eyes: BRO_BROWN

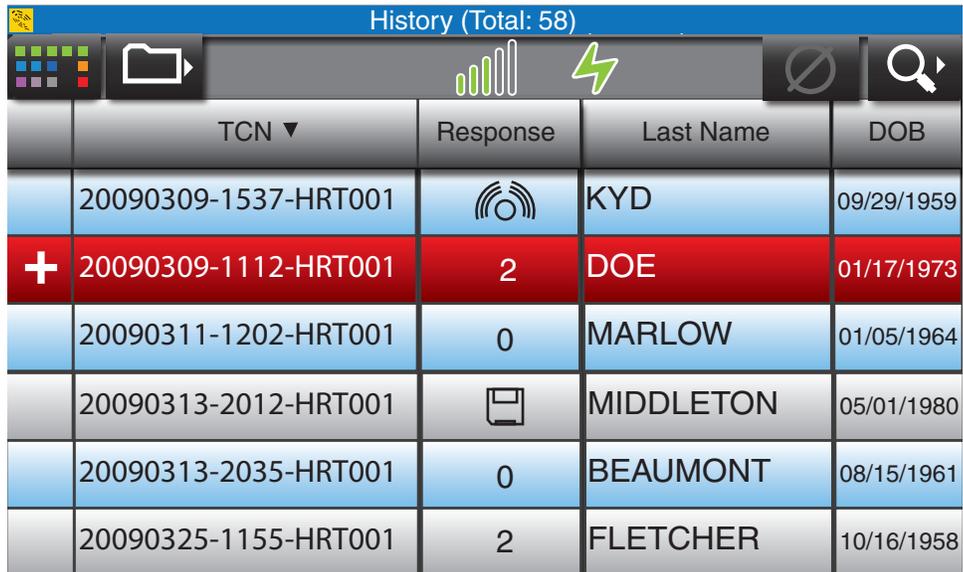
Alias: TATER Height: 5 11

Hair: BLK-BLACK Weight: 180



Quick Capture Platform Rolls Storyboard

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	TCN ▼	Response	Last Name	DOB
	20090309-1537-HRT001		KYD	09/29/1959
+	20090309-1112-HRT001	2	DOE	01/17/1973
	20090311-1202-HRT001	0	MARLOW	01/05/1964
	20090313-2012-HRT001		MIDDLETON	05/01/1980
	20090313-2035-HRT001	0	BEAUMONT	08/15/1961
	20090325-1155-HRT001	2	FLETCHER	10/16/1958

From the history list, double tap on the saved transaction. 

TCN:20090313-2012-HRT001

Deceased

Male Female Unknown

First: JOHN DOB: 19730501

Middle: AMOS POB: XX_UNKNOWN

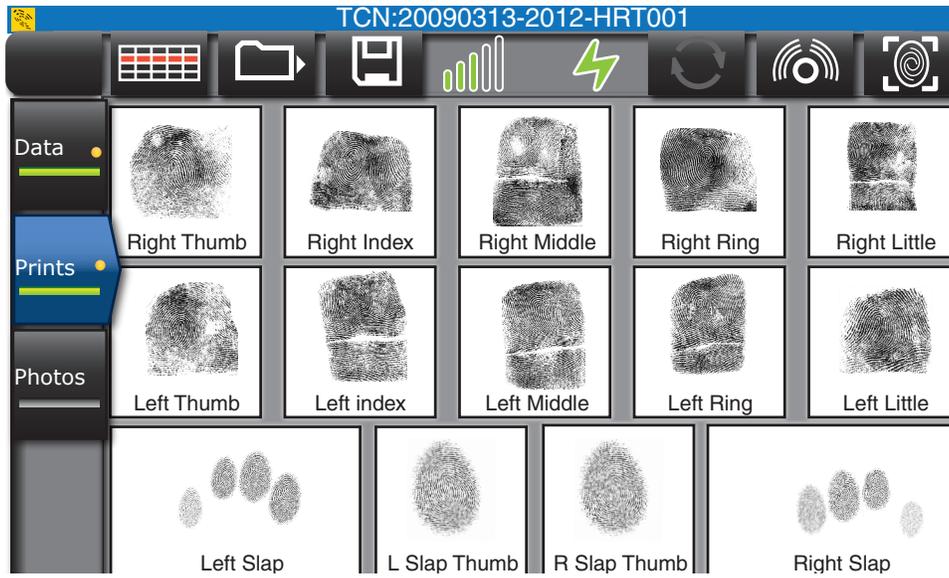
Last: MIDDLETON Race: U - UNKNOWN

Other: Eyes: BRO_BROWN

Alias: Shadow Height: 0 00

Hair: BLK - BLACK Weight: 000 lbs

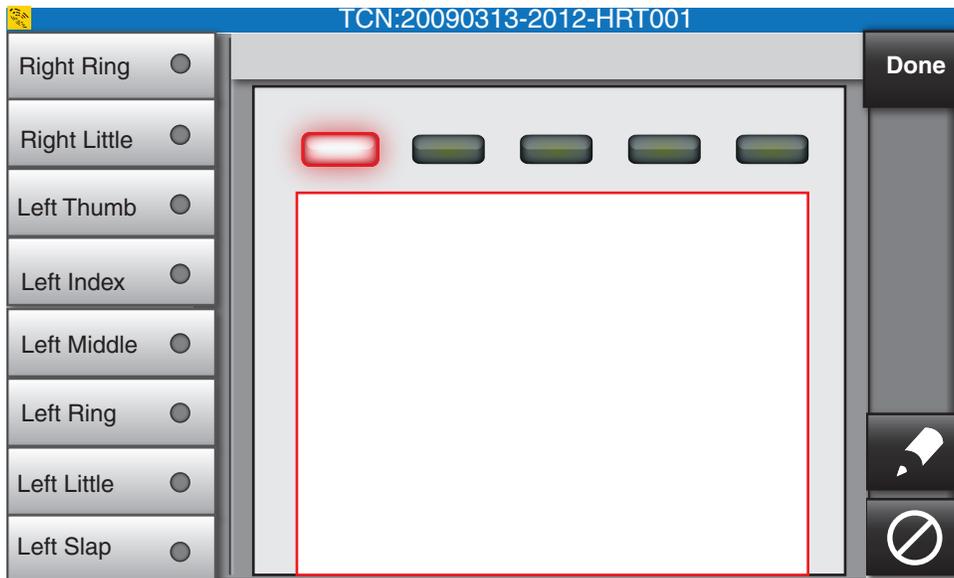
Tap on the Print tab to display the rolled print images.

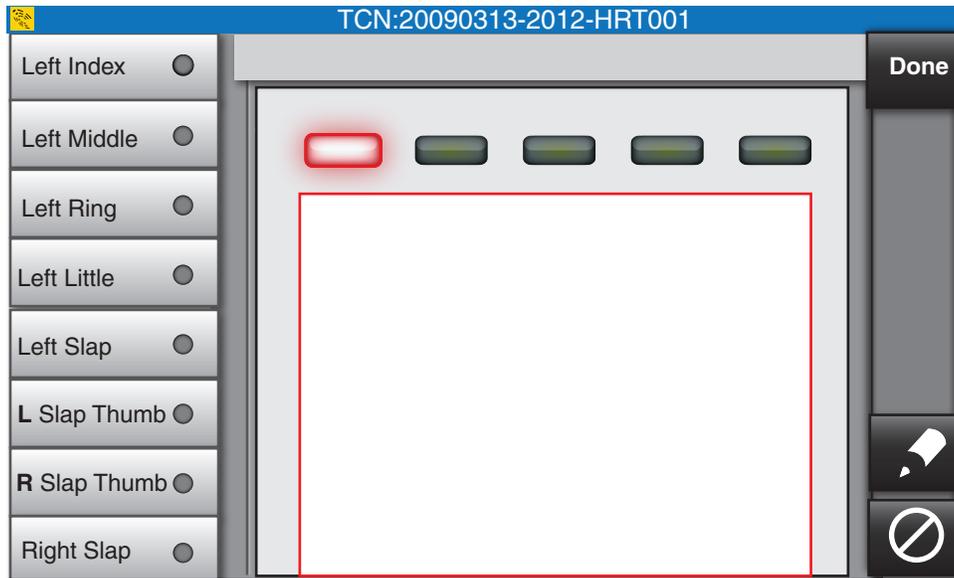


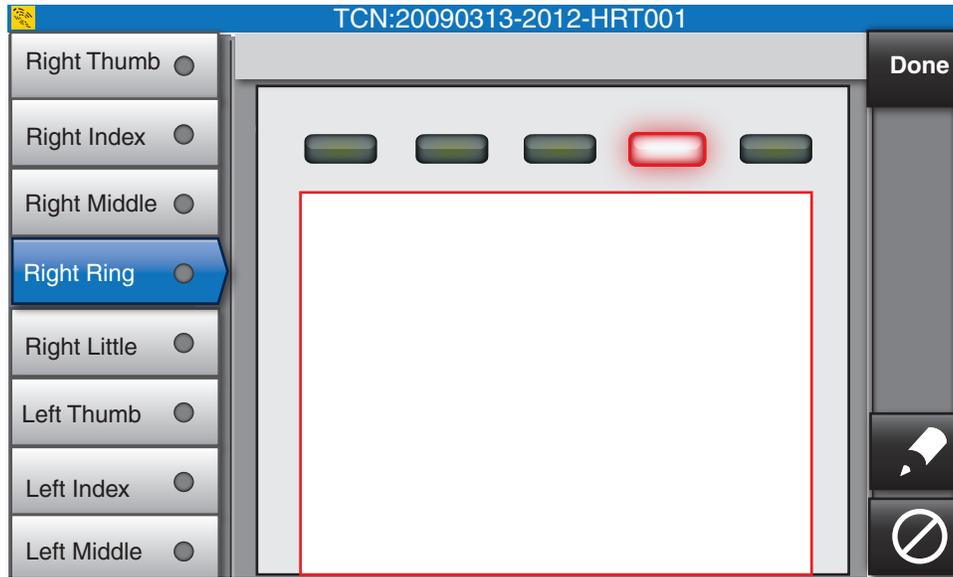
Tap on the capture prints button in the upper right corner.

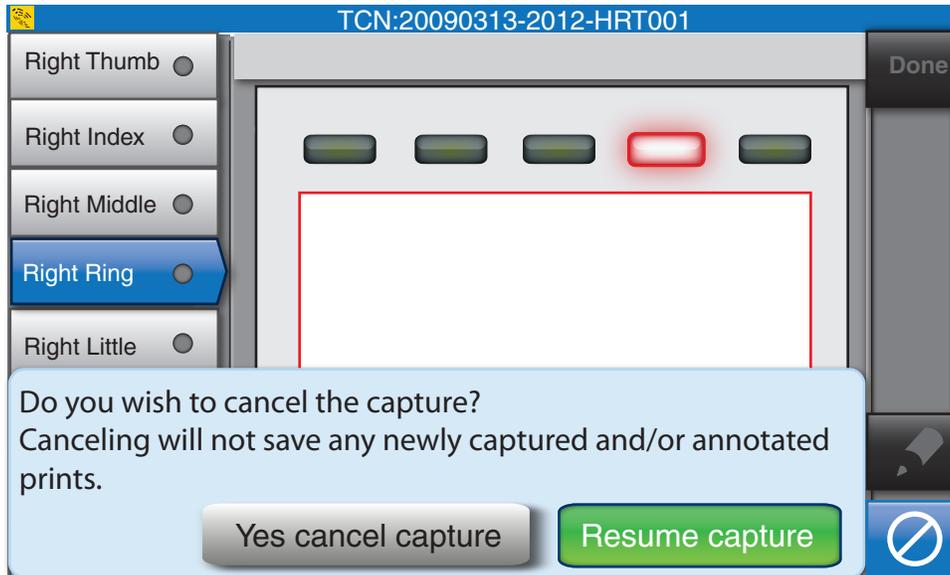


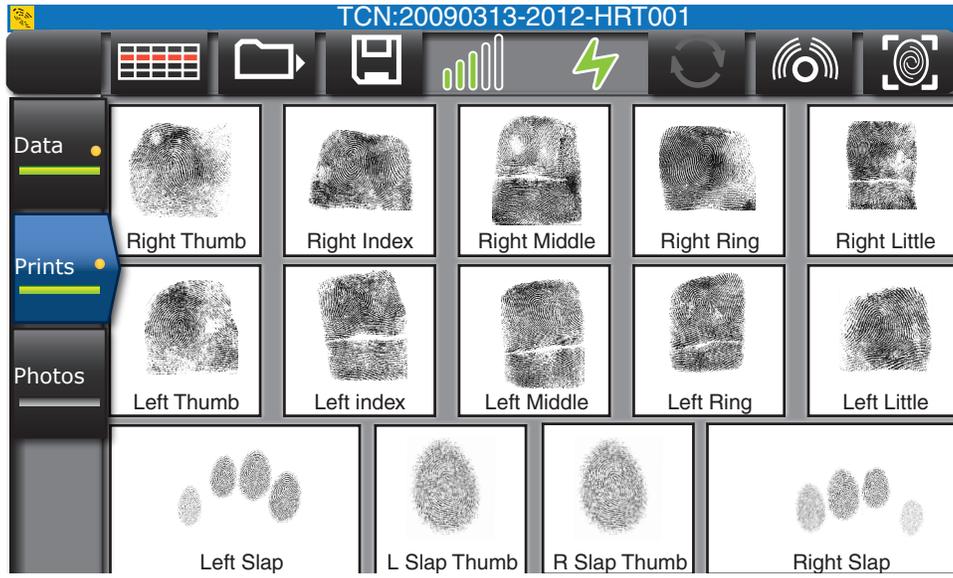
Scroll the print list.











TCN:20090313-2012-HRT001

Deceased

Male Female Unknown

First: JOHN DOB: 19730501

Middle: AMOS POB: XX_UNKNOWN

Last: MIDDLETON Race: U - UNKNOWN

Other: Eyes: BRO_BROWN

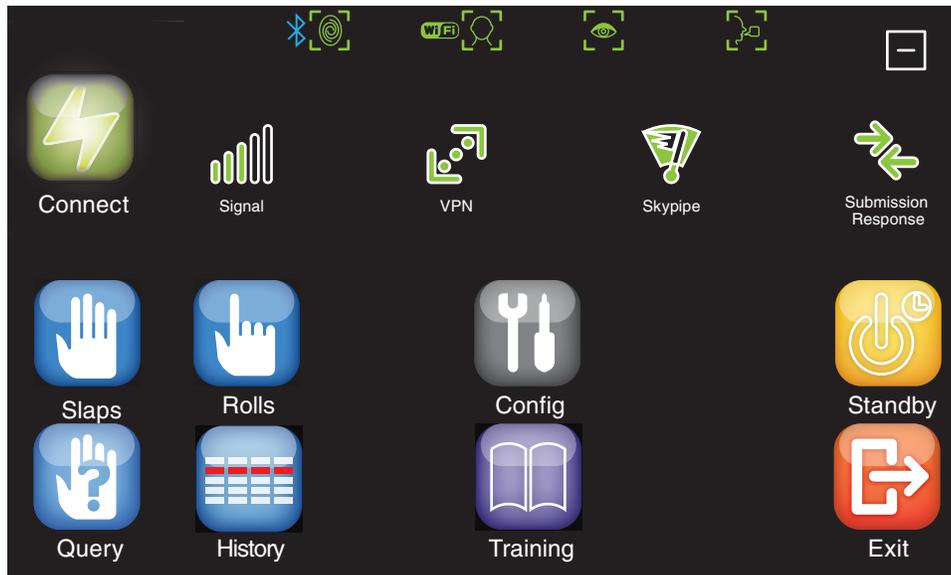
Alias: Shadow Height: 0 00

Hair: BLK - BLACK Weight: 000 lbs



Quick Capture Platform Training Storyboard

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Tap the training button to toggle training mode.



TCN:20090309-1112-HRT001 [Training]

Deceased Male Female Unknown

First: [Redacted] DOB: 19780423 [Calendar]

Middle: [Redacted] POB: XX_UNKNOWN ▼

Last: [Redacted] Race: U - UNKNOWN ▼

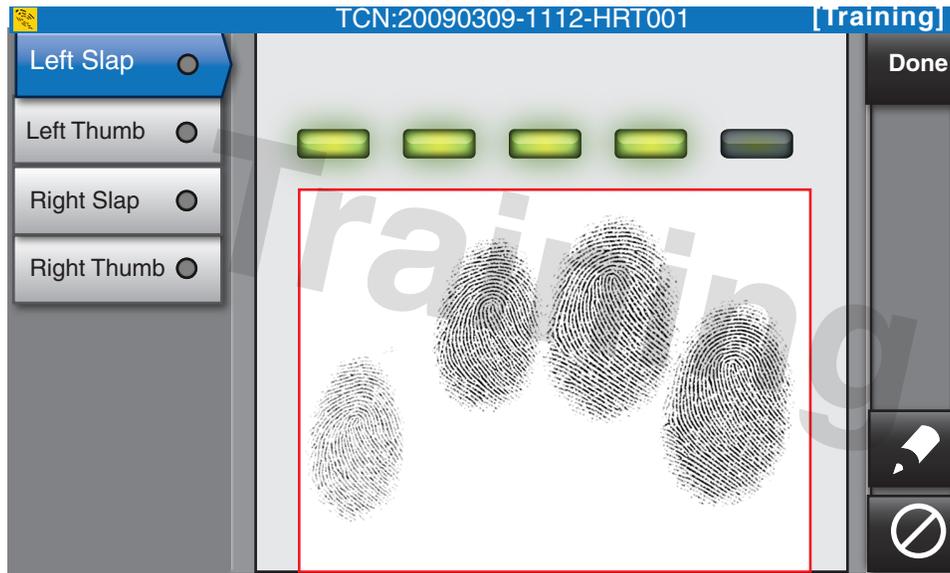
Other: [Redacted] Eyes: BRO_BROWN ▼

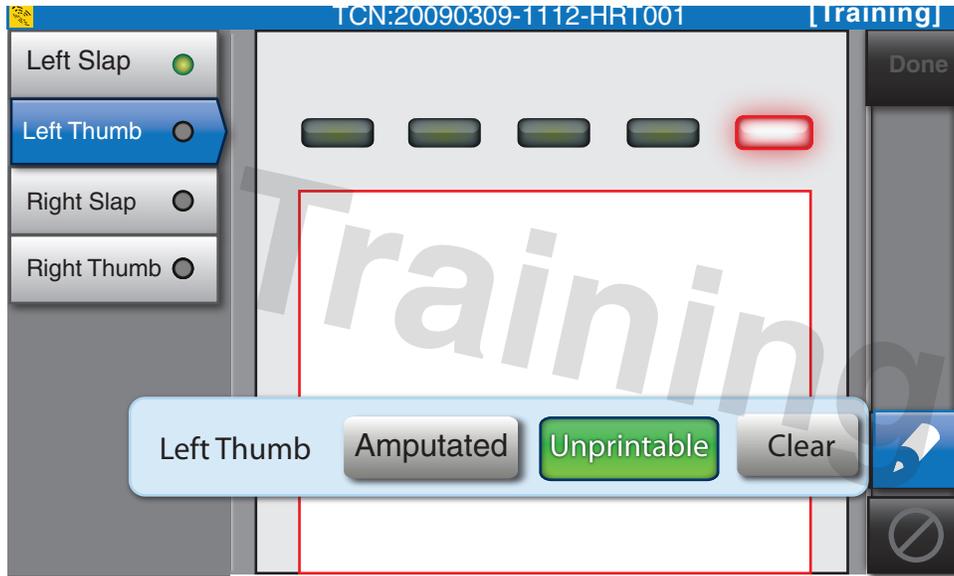
Alias: [Redacted] [Edit] Height: 0 ▼ 00 ▼

Hair: BLK - BLACK ▼ Weight: 000 lbs











History (Total: 58) [Training]



	TCN ▼	Response	Last Name	DOB
	20090309-1537-HRT001		KYD	09/29/1959
+	20090309-1112-HRT001	2	DOE	01/17/1973
	20090311-1202-HRT001	0	MARLOW	01/05/1964
	20090313-2012-HRT001		MIDDLETON	05/01/1980
	20090313-2035-HRT001	0	BEAUMONT	08/15/1961
	20090325-1155-HRT001	2	FLETCHER	10/16/1958

History (Total: 58) [Training]

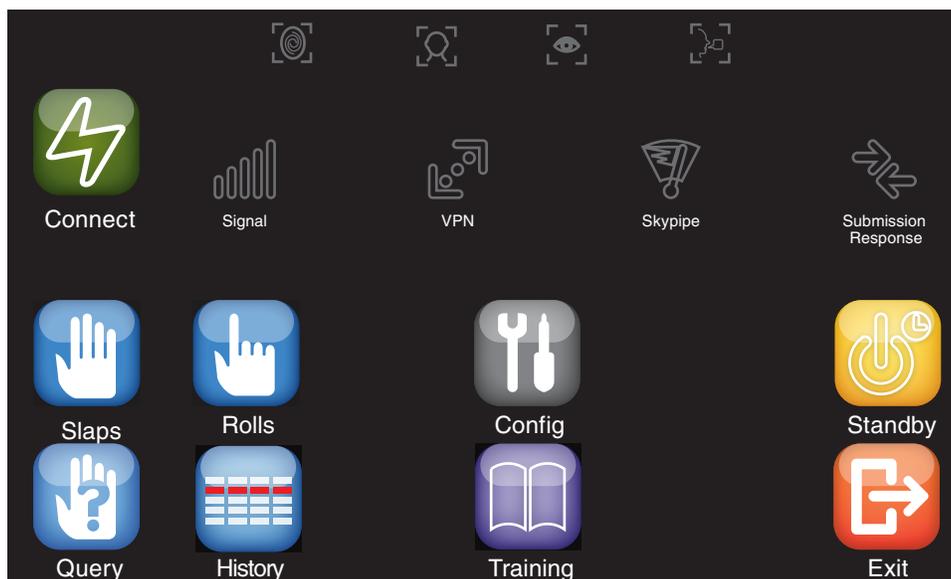
FBI IAFIS HIT 10/10/2009 READ	DoD HIT 10/10/2009 READ	DHS ABIS Reject 10/10/2009 READ
FBI Verified 10/10/2009 READ		



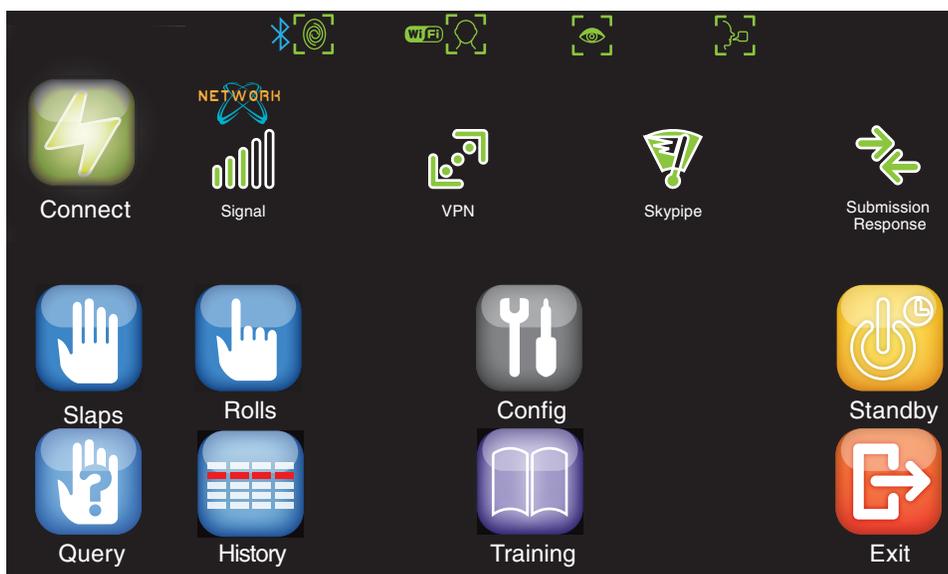


Quick Capture Platform User Interface Concepts

NIST
National Institute of
Standards and Technology
U.S. Department of Commerce



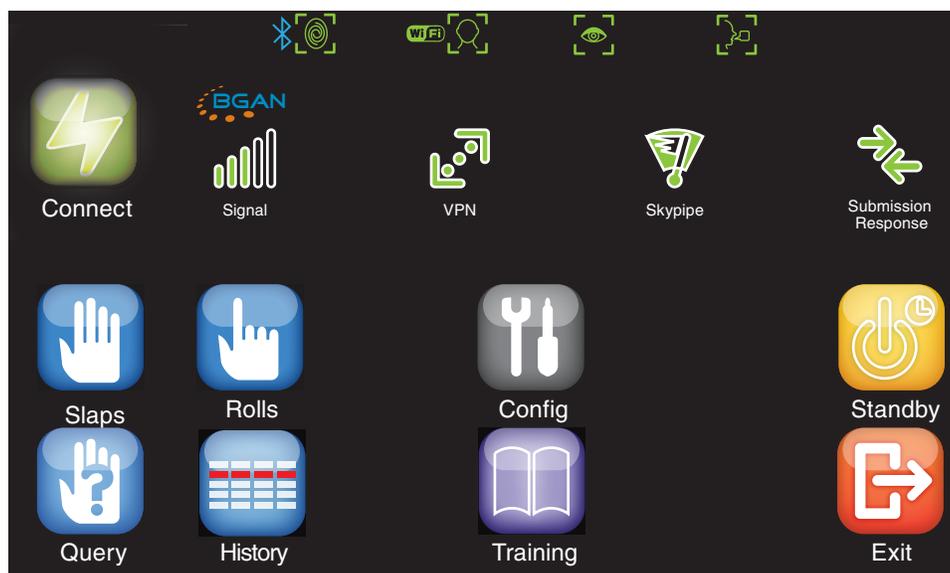
The connection statuses of the biometric collection devices the QCP application is configured to work with, are depicted on the Home screen. The above figure shows that the application expects to have a fingerprint scanner, camera, iris camera, and microphone (for voice recognition), but doesn't detect any connection to the devices.



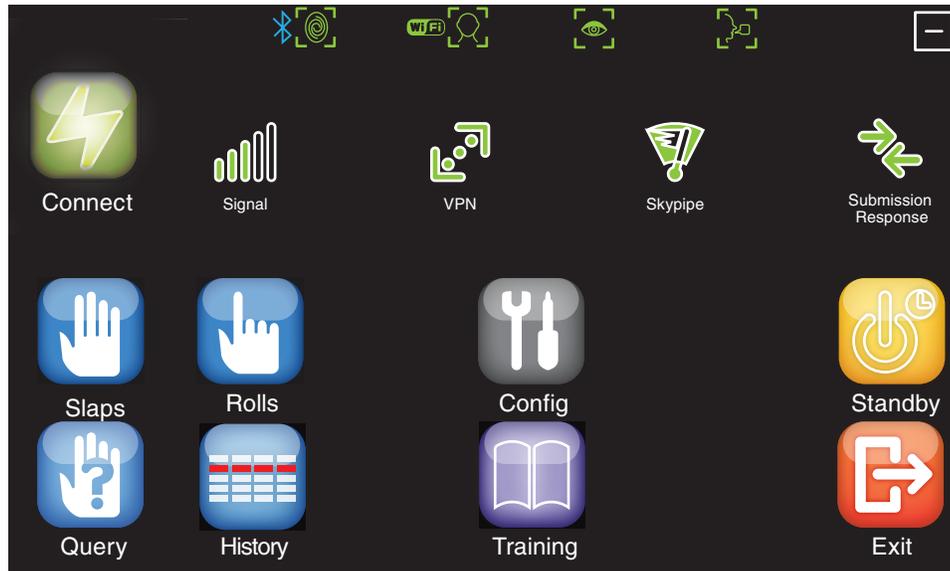
This figure shows a Bluetooth connection for the fingerprint scanner, a WiFi connection for the camera and a generic network. All of the network connection examples in this document are for illustrative purposes.



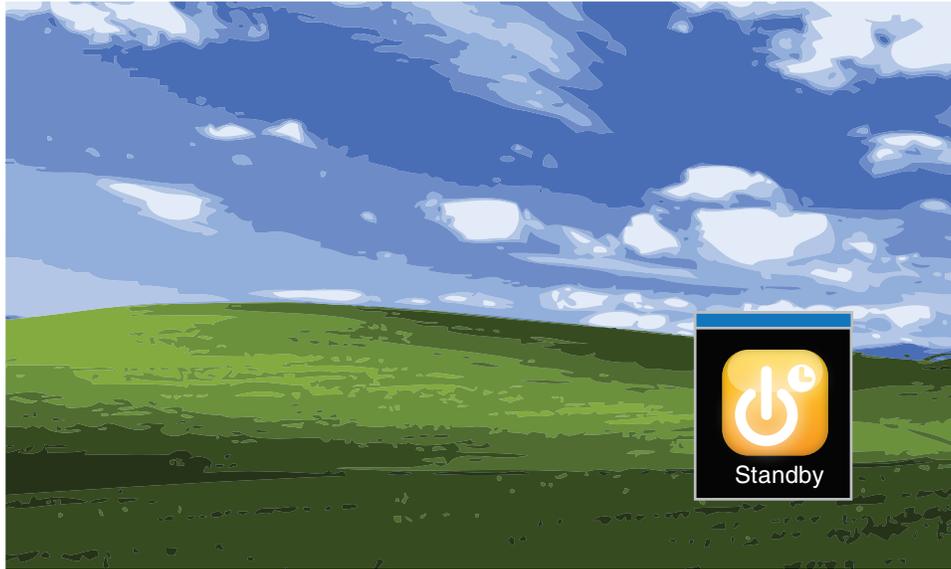
This figure shows a Bluetooth connection for the fingerprint scanner, a WiFi connection for the camera and a cellular network connection. If more than one cellular network is available for connection, just the one that is actually connected may be shown. All of the network connection examples in this document are for illustrative purposes.



This figure shows a Bluetooth connection for the fingerprint scanner, a WiFi connection for the camera and a BGAN network connection. All of the network connection examples in this document are for illustrative purposes.



There should be a method of minimizing the QCP application on the home screen (see upper right hand corner in the figure above).



This figure illustrates the concept of minimizing the QCP application when in standby mode. Tapping the Standby button would bring the application out of standby mode and maximizes the application window.

History (Total: 58) [Training]

TCN: Status: Responded - Hit

Name: Response Count:

Last:

First: Date Submitted: From:

Middle: To: 04/03/2009

DOB: From:

To:

Clear Cancel Search

The training mode should have the “Training” watermark superimposed over all screens (the demonstration software shows the Search Fields popup covering the Training Mode watermark). Also in Training mode the phrase “[Training]” should be displayed to the right most of the window title, in the header (as shown above).



When a RAP sheet is displayed from the Hit data popup, a user should be able to highlight text and cut and paste into another application.