

Iris Pilot Operations Report

San Bernardino County Sheriff's Department (SBCSD)

Additional explanations and contact information are located at the end of this report.

Report Summary

The summary numbers include bulk enrollments and error transactions that have been fixed. Expunged records are not included.

Operations Summary									
Date	Enrollments				Searches				
	Avg. Time	Success	Errors	Total	Avg. Time	Success		Errors	Total
						Match	Non-Match		
2015 - December	0.7 s	5,068	496	5,564	-	0	0	0	0
2015 - November	0.6 s	5,155	492	5,647	-	0	0	0	0
2015 - October	0.6 s	6,057	595	6,652	-	0	0	0	0
2015 - September	0.5 s	5,948	586	6,534	-	0	0	0	0
2015 - August	0.5 s	5,243	544	5,787	-	0	0	0	0
2015 - July	0.5 s	6,398	546	6,944	-	0	0	0	0
2015 - June	0.6 s	5,513	511	6,024	-	0	0	0	0
2015 - May	3.1 s	8,787	598	9,385	-	0	0	0	0
2015 - April	0.7 s	5,605	514	6,119	-	0	0	0	0
2015 - March	0.6 s	6,166	536	6,702	-	0	0	0	0
2015 - February	0.6 s	5,639	453	6,092	-	0	0	0	0
2015 - January	0.5 s	5,785	481	6,266	-	0	0	0	0
Monthly average for each year takes into account partial years but not partial months.									
2015 Monthly Avg.	0.9 s	5,947.0	529.3	6,476.3	-	0.0	0.0	0.0	0.0
2014 Monthly Avg.	0.7 s	19,573.4	828.4	20,401.8	-	0.0	0.0	0.0	0.0
Yearly summaries include information from each year of operation with partial information for the current year.									
2015 Summary	-	71,364	6,352	77,716	-	0	0	0	0
2014 Summary	-	97,867	4,142	102,009	-	0	0	0	0
Total	-	169,231	10,494	179,725	-	0	0	0	0

Summary of Notable Items		
	Location	Message
A	SBCSO - Barstow	High percentage of iris enrollment submissions resulted in errors (7.1%).
B	SBCSO - Big Bear	High percentage of iris enrollment submissions resulted in errors (8.6%).
C	SBCSO - Central Detention Center	High percentage of iris enrollment submissions resulted in errors (10.9%).
D	SBCSO - Colorado River	High percentage of iris enrollment submissions resulted in errors (6.2%).
E	SBCSO - High Desert Detention Center (Adelanto)	High percentage of iris enrollment submissions resulted in errors (10.3%).
F	SBCSO - Moronga	High percentage of iris enrollment submissions resulted in errors (7.4%).
G	SBCSO - West Valley Detention Center (Rancho Cucamonga)	High percentage of iris enrollment submissions resulted in errors (7.9%).
Some issues are mentioned both at a high level and then as root causes. For example, a location may be listed for high percent of enrollments with no eyes enrolled. It may also be listed for a large number of low-quality right eyes and skipped capture of left eyes.		

Iris Enrollments

Iris images can be enrolled with tenprints or as an update to an existing record. Both methods require two Type-17 Iris Image Records to be submitted. When an iris cannot be captured the reason can be indicated in the Type-17 record and no image is submitted.

Enrollments with tenprints allow 0-2 iris images to be submitted. Enrollments without tenprints require 1-2 iris images be submitted. Enrollments can either completely succeed (two iris images enrolled), completely fail (no iris images enrolled), or partially succeed (one iris image fails and one enrolls). Tenprint submissions with no iris images are considered "successful".

Iris Enrollment Results By Facility										
SOURCE	Location	Successful Iris Image Enrollments						Errors	Total	
		2 Eyes		1 Eye		0 Eyes				Subtotal
CA0360034	SBCSO - West Valley Detention Center (Rancho Cucamonga)	2,775	99.7 %	7	0.3 %	0	0.0 %	2,782	240	3,022
CA0360037	SBCSO - High Desert Detention Center (Adelanto)	949	99.9 %	1	0.1 %	0	0.0 %	950	109	1,059
CA0360030	SBCSO - Central Detention Center	937	99.2 %	8	0.8 %	0	0.0 %	945	116	1,061
CA0360009	SBCSO - Moronga	149	99.3 %	1	0.7 %	0	0.0 %	150	12	162
CA0360008	SBCSO - Barstow	143	100.0 %	0	0.0 %	0	0.0 %	143	11	154
CA0360006	SBCSO - Big Bear	52	98.1 %	1	1.9 %	0	0.0 %	53	5	58
CA0360010	SBCSO - Colorado River	45	100.0 %	0	0.0 %	0	0.0 %	45	3	48
TOTAL	7	5,050	99.6 %	18	0.4 %	0	0.0 %	5,068	496	5,564

Iris Images Submitted for Enrollment

High numbers of bad or skipped images may indicate a defective camera, poor lighting, or software issues.

Iris Image Enrollment Submissions By Facility													
SOURCE	Location	Left Eye						Right Eye					
		GOOD		BAD		SKIP		GOOD		BAD		SKIP	
CA0360034	SBCSO - West Valley Detention Center (Rancho Cucamonga)	2,780	99.9 %	2	0.1 %	0	0.0 %	2,777	99.8 %	5	0.2 %	0	0.0 %
CA0360037	SBCSO - High Desert Detention Center (Adelanto)	949	99.9 %	1	0.1 %	0	0.0 %	950	100.0 %	0	0.0 %	0	0.0 %
CA0360030	SBCSO - Central Detention Center	942	99.7 %	3	0.3 %	0	0.0 %	940	99.5 %	5	0.5 %	0	0.0 %
CA0360009	SBCSO - Moronga	149	99.3 %	1	0.7 %	0	0.0 %	150	100.0 %	0	0.0 %	0	0.0 %
CA0360008	SBCSO - Barstow	143	100.0 %	0	0.0 %	0	0.0 %	143	100.0 %	0	0.0 %	0	0.0 %
CA0360006	SBCSO - Big Bear	52	98.1 %	1	1.9 %	0	0.0 %	53	100.0 %	0	0.0 %	0	0.0 %
CA0360010	SBCSO - Colorado River	45	100.0 %	0	0.0 %	0	0.0 %	45	100.0 %	0	0.0 %	0	0.0 %
TOTAL	7	5,060	99.8 %	8	0.2 %	0	0.0 %	5,058	99.8 %	10	0.2 %	0	0.0 %

Iris Enrollment Errors

FBI CJIS Division recommends that errors are corrected to maximize the enrolled population and utility of the iris recognition services. Descriptions of error types can be found at the end of this report. Submissions may contain multiple errors.

Iris Enrollment Error Types By Facility							
SOURCE	Location	Missing T-17 Errors		Templating Errors		Other	Total
CA0360034	SBCSO - West Valley Detention Center (Rancho Cucamonga)	240		0		0	240
CA0360030	SBCSO - Central Detention Center	114		2		0	116
CA0360037	SBCSO - High Desert Detention Center (Adelanto)	109		0		0	109
CA0360009	SBCSO - Moronga	12		0		0	12
CA0360008	SBCSO - Barstow	11		0		0	11
CA0360006	SBCSO - Big Bear	5		0		0	5
CA0360010	SBCSO - Colorado River	3		0		0	3
TOTAL	7	494		2		0	496

Identification Report

No identification search information is included in this report.

Additional Information

Agency, Facility, Location, and Serial Number

Locations are determined using the submitted iris camera Make/Model/Serial number (MMS) and iris image source agency (SRC) with a list of corresponding locations provided by the local or state agency. Please provide updates as needed.

Error Types

Missing Type-17 Iris Record

L0013 A general logic error was detected that is not currently defined. File contains an invalid number of Type-17 records.

This error is caused by submissions with more or less than two Type-17 iris records. See the [Iris Pilot Tech. Spec.](#) for details.

Templating Errors

IRP003 A template could not be created for the submitted image ELR: '1'.

This error is almost always caused by low-quality iris images.

Other Errors

These errors include duplicate submissions and other minor glitches. Beginning in April 2015, most minor issues are automatically corrected on submissions. CJIS can provide additional information if needed.

Response Times

Response times are measured from the time the Iris Pilot receives a submission to the time that a response leaves the Iris Pilot.

For iris enrollments submitted with tenprints there is additional time for tenprint processing before the irises are sent to the Iris Pilot that is not included in this report.

Bulk submissions are not included in average times.

Two Iris Images vs. One Iris Image

FBI CJIS Division always recommends enrolling and searching both irises to avoid any "clean misses". For example, if only a right iris image is enrolled and a left iris image is searched, a non-match result will be returned even though the subject was enrolled in the iris database.

For each Type-17 Iris Record submitted there are three possible outcomes.

1. "GOOD" - The iris image was used for the enrollment or search.
2. "BAD" - The iris image failed to pass quality checks and was not used in the enrollment or search.
3. "SKIP" - No iris image was submitted.

Contact Information

Name	Title	Phone	Email
Justin Cook	Management & Program Analyst	(304) 625-4456	justin.cook@ic.fbi.gov
Dave Jones	Supervisory Management & Program Analyst	(304) 625-4850	david.jones3@ic.fbi.gov
Mark Parsons	IT Specialist	(304) 625-4465	mark.parsons@ic.fbi.gov
Chad Rhoades	Management & Program Analyst	(304) 625-4863	jason.rhoades@ic.fbi.gov
Justin Smith	Supervisory IT Specialist	(304) 625-5333	justin.smith@ic.fbi.gov

Report prepared by FBI CJIS Division - Biometric Center of Excellence.

Reporting period Dec 1, 2015 through Dec 31, 2015. Generated on Mon Jan 11, 2016 @ 10:58:51 Eastern.