Table of Contents

1 Introduction 10
1.1 Background 10
1.2 File Format 10
1.3 Change Control 11
1.4 Error Handling 11
1.5 Identifying Previous Transactions 12
1.6 Data Storage in the FBI/CJIS Database 13
1.7 Guidance on ORI and CRI Usage 13
1.8 Reference Documents 14
1.9 Specific Changes to this Version 15
2 Scope 15
3 Services and Transaction Types 17
3.1 Identification Service 17
3.1.1 Tenprint Fingerprint Identification Submission 19
3.1.1.1 Criminal Tenprint Submission (Answer Required) (CAR) 21
3.1.1.2 Criminal Tenprint Submission (No Answer Necessary) (CNA) 21
3.1.1.3 Criminal Fingerprint Direct Route (CPDR) 21
3.1.1.4 Criminal Fingerprint Processing Non-Urgent (CPNU) 22
3.1.1.5 Departmental Order Channeling Electronic (DOCE) 22
3.1.1.6 Electronic In/Manual Out User Fee (EMUF) 22
3.1.1.7 Federal Applicant (No Charge) (FANC) 23
3.1.1.8 Federal Applicant User Fee (FAUF) 23
3.1.1.9 Foreign Information Direct Route (FIDR) 23
3.1.1.10 Federal No Charge Direct Route (FNDR) 23
3.1.1.11 Non-Federal No Charge Direct Route (NNDR) 24
3.1.1.12 Non-Federal User Fee Expedite (NFUE) 24
3.1.1.13 Non-Federal Applicant User Fee (NFUF) 24
3.1.1.14 Miscellaneous Applicant Civil (MAP) 24
3.1.1.15 Miscellaneous Applicant Civil (Manual Out) (MAPC) - Deprecated on 5/22/18 TOU 9 24
3.1.1.16 Known Deceased (DEK) 25
3.1.1.17 Unknown Deceased (DEU) 25
3.1.1.18 Missing Person (MPR) 25
3.1.1.19 Amnesia Victim (AMN) 25
3.1.1.20 Rap Back Subscription Requests 26
3.1.1.21 Submission Results — Electronic (SRE) 26
3.1.2 Latent Fingerprint Identification Submission 29
3.1.2.1 Latent Fingerprint Image Submission (LFS) 29
3.1.2.2 Latent Submission Results (LSR) 30
3.1.3 Rapid Fingerprint Identification Search Submission 30
3.1.3.1 Rapid Fingerprint Identification Search (RPIS) 30
3.1.3.2 Rapid Fingerprint Identification Search Response (RPISR) 31
3.1.4 Disposition Fingerprint Submission 32
3.1.4.1 Electronic Fingerprint Disposition Submission (FDSP) 32
3.1.5 Iris Identification Search Submission 33
3.1.5.1 Iris Image Identification Submission (IIDS) 33
3.1.5.2 IIDS Submission Results (IIDS - SRE) 33
3.2 Verification Service 34
3.2.1 Fingerprint Verification Request (FVR) 34
3.2.2 Fingerprint Verification Response (SRE) 35
3.3 Information Service 35

3.3.1 Biometric Image Retrieval Submission 35
3.3.1.1 Biometric Image/Feature Retrieval Request (IRQ) 37
3.3.1.2 Subject Photo Request (CPR) 38
3.3.1.3 Image Request Response (IRR) 39
3.3.1.4 Image Summary Response (ISR) 39
3.3.1.5 Photo Request Response (PRR) 39
3.3.2 Biometric Audit Trail Retrieval Submission 40
3.3.2.1 Biometric Audit Trail Query (BATQ) 40
3.3.2.2 Biometric Audit Trail Response (BATR) 41
3.3.3 Rap Back Information Retrieval Submission 41
3.3.3.1 Rap Back Subscription List Request (RBRPT) 41
3.3.3.2 Rap Back Subscription List Response (RBRPTR) 42
3.3.3.3 Rap Back Identity History Summary Request (RBIHS) 42
3.3.3.4 Rap Back Identity History Summary Response (RBIHSR) 42
3.4 Investigation Service 42
3.4.1 Tenprint Fingerprint Investigation Submission 42
3.4.1.1 Tenprint Fingerprint Image Search (TPIS) 45
3.4.1.2 Tenprint Rap Sheet Search (TPRS) and Responses (TPRR) 45
3.4.1.3 Search Results — Tenprint (SRT) 45
3.4.2 Latent Friction Ridge Investigation Submission 46
3.4.2.1 Latent Friction Ridge Image Search (LFIS) 49
3.4.2.2 Latent Friction Ridge Features Search (LFFS) 50
3.4.2.3 Search Results - Latent (SRL) 50
3.4.2.4 Latent Penetration Query (LPNQ) 51
3.4.2.5 Latent Penetration Query Response (LPNR) 51
3.4.3 Latent Administrative Queries, Requests, and Responses 52
3.4.3.1 Latent Repository Statistics Query (LRSQ) 52
3.4.3.2 Latent Repository Statistics Response (LRSR) 52
3.4.4 Biometric Investigation Submission 52
3.4.4.1 Photo Investigation Submission 53
3.4.4.2 Text-Based Photo/SMT Search Request (TXTSRCH) 53
3.4.4.3 Facial Recognition Search Request (FRS) 54
3.4.4.4 Search Results - Biometric (SRB) 54
3.4.5 Biographic Investigation Submission 55
3.4.5.1 External Query History Request (EQHR) 55
3.4.5.2 External History Request Response (EHRR) 56
3.4.5.3 External Query History Request Response - Summary (EQRR) 56
3.5 Notification Service 56
3.5.1 Special Population Cognizant Notification (SPN) 57
3.5.2 Rap Back Activity Notification (RBN) 57
3.5.3 Rap Back Renewal Notification (RBRN) 57
3.5.4 Unsolicited Hit Notification (UHN) 58
3.5.5 Unsolved Biometric Match (UBM) 58
3.5.6 Unsolved Latent Match (ULM) 58
3.5.7 Unsolicited Unsolved Biometric Delete (UUBD) 59
3.5.8 Unsolicited Unsolved Latent Delete (UULD) 59
3.6 Data Management Service 59
3.6.1 Unsolved Latent Record Delete Request (ULD) 61
3.6.2 Unsolved Latent Delete Response (ULDR) 61
3.6.3 Biometric Decision Submission (BDEC) 61
3.6.4 Biometric Decision Response (BDECR) 62
3.6.5 Biometric Delete Request (BDEL) 62
3.6.6 Biometric Delete Response (BDELR) 63
3.6.7 Civil Event Deletion Request (CDEL) 63

3.6.8 Civil Event Deletion Response (CDELR) 63
3.6.9 Subject Photo Delete Request (CPD) 63
3.6.10 Subject Photo Delete Response (PDR) 63
3.6.11 Disposition File Maintenance Submission (DSPE) 63
3.6.12 Disposition File Maintenance Response (DSPR) 64
3.6.13 Biometric Image Submission (FIS) 64
3.6.14 Biometric Image Submission Response (FISR) 64
3.6.15 Special Repository Maintenance Request (SPMNT) 65
3.6.16 Special Repository Maintenance Response (SPMNTR) 65
3.6.17 Supervised Release Notification Request (SRNR) 65
3.6.18 Supervised Release Notification Response (SRNRR) 65
3.6.19 Rap Back Subsequent Subscription Request – Criminal (RBSCRM) 66
3.6.20 Rap Back Subsequent Subscription Request – Civil (RBSCVL) 66
3.6.21 Rap Back Subscription Response (RBSR) 66
3.6.22 Rap Back Maintenance Request (RBMNT) 67
3.6.23 Rap Back Maintenance Response (RBMNTR) 68
3.6.24 External System Link Activity Request (XACT) 69
3.6.25 External System Link Activity Response (XACTR) 69
3.6.26 External System Link Maintenance Request (XMNT) 69
3.6.27 External System Link Maintenance Response (XMNTR) 69
3.7 Error Message Format 69
3.7.1 Administrative Transaction Error Response (ERRA) 70
3.7.2 Biometric Search Error Response (ERRB) 70
3.7.3 Information Transaction Error Response (ERRI) 71
3.7.4 Latent Transaction Error Response (ERRL) 71
3.7.5 Transaction Error (Electronic Response) (ERRR) 71
3.7.6 Tenprint Transaction Error Response (ERRT) 72
3.7.7 External Query History Error Response (EQER) 72
3.8 Other Special Requirements for Communicating with the FBI/CJIS 73
3.8.1 Electronic Fingerprint Images 73
3.8.2 Fingerprint Image Compression/Decompression Algorithm 73
3.8.3 FBI/CJIS Image Quality Specifications 74
3.8.4 Fingerprint Image Size Requirements 74
3.8.5 Bulk Submissions 75

List of Appendices

Appendix A	Transaction Response Times	A-1
Appendix B	Descriptors And Field Edit Specifications For Type-1 Logical Records	B-1
Appendix C	Descriptors And Field Edit Specifications For Type-2 Logical Records	C-1
Appendix D	Summary Logical Record Layouts For Type-2 Identification And Verification Transactions	D-1
Appendix E	Summary Logical Record Layouts For Type-2 Investigation, Information, And Notification Transactions	E-1
Appendix F	FBI/CJIS Image Quality Specifications	F-1
Appendix G	Reserved	G-1
Appendix H	Descriptors And Field Edit Specifications For Type-7 Logical Records	H-1
Appendix I	Summary Logical Record Layouts For Type-2 Data Management Transactions	I-1
Appendix J	Descriptors And Field Edit Specifications For Type 9 Logical Records	J-1
Appendix K	Descriptors And Field Edit Specifications For Type 10 Logical Records	K-1
Appendix L	Summary Tables	L-1
Appendix M	Transaction Error Messages	M-1
Appendix N	Descriptors And Field Edit Specifications For Type-14 Logical Records	N-1
Appendix O	POB Code	O-1
Appendix P	Specifications For Transmitting Palm Prints And Supplemental Fingerprints	P-1
Appendix Q	Descriptors And Field Edit Specifications For Type-15 Logical Records	Q-1
Appendix R	Descriptors And Field Edit Specifications For Type-13 Logical Records	R-1
Appendix S	Descriptors And Field Edit Specifications For Type-17 Logical Records	S-1
Appendix AC	Acronyms	AC-1

List of Tables

Rap Back Subscription Fields used in Tenprint Identification TOTs 26
Values of NAM, FBI/UCN and SID Returned in the SRE 27
Values of NAM, FBI/UCN and SID Returned in the SRE for IIDS 34
Values of NAM, FBI/UCN and SID Returned in the SRE for FVR 35
Unsolved Record Submission Matches 58
Rap Back Criminal Category Code Values 66
Rap Back Civil Category Code Values 66
ERRA Transaction 70
ERRB Transaction 71
ERRI Transaction 71
ERRL Transaction 71
ERRR Transaction 72
ERRT Transaction 72
EQER Transaction 73
Compression Algorithm Values 74
Recommended Sizes for Fingerprint 74
A-1 NGI Maximum Transaction Response Times A-2
A-2 NGI Type of Transaction By Service A-4
Type-1 Data Dictionary B-2
Type-2 Data Dictionary C-3
AMP Codes C-4
BIA Values C-6
BID Values C-7
CDN Values C-11
EYE Values C-14
FPC Values C-16
HAI Values C-18
HTI Values C-18
IFS Values C-19
IMT Values C-20
MAI Values C-20
MIL Values C-21
MNU Values C-21
NAM Values C-22
NDR Values C-23
PAT Values C-25
POB Values C-26
RAC Values C-27
RBC Values C-28
RBMI Values C-28
RBNF Values C-29
RBST Values - Currently Not Used C-30
RBT Values C-30
RCD Values C-33
RSR Response Example Values C-35
RSR File Category Specification C-35
SEX Values C-36
SMI Values C-37
SRA Values C-38
SRF Values C-39
SST Values C-39
TLI Values C-40

TSR Values C-40
C-1 Field Edit Specifications for Type-2 Elements C-42
D-1 Summary of Field Lists for Identification and Verification Transactions D-2
E-1 Summary of Field Lists for Investigation, Information, and Notification Transactions E-2
F-1 Minimum Capture Sizes F-2
F-2 MTF Requirement Using Sine Wave Target F-5
F-3 Requirement Using Bar Target (Nominal Test Frequencies) F-6
F-4 Printer Geometric Accuracy Requirements F-14
F-5 Mobile ID IQS Requirements F-21
F-6 Fast Track Certification Procedures (Common Scenarios) F-23
H-1 Field List for Type-7 (Miscellaneous Image) Logical Records H-2
I-1 Summary of Field Lists for Data Management Transactions I-2
Type-9 Data Dictionary J-2
Type-9 EFS Fields Utilized by NGI for Matching J-3
Type-9 EFS Fields Populated by NGI in an EBTS Response J-3
FCP Values J-5
MET Values J-8
Finger Number J-8
MNT Values J-9
Type-10 Data Dictionary K-2
L-1 Complete Element Cross-Reference List by Tag Number L-2
L-2 Record Set Requirements Summary by Type of Transaction L-14
L-3 Record Set Requirements Summary by Type of Response L-16
L-4 Transaction/Response/Error TOT Correspondence L-18
L-5 Record Type Fields Allocated by the FBI L-20
M-1 Transaction Message M-2
Type-14 Data Dictionary N-2
ISC Values N-2
O-1 POB Code O-2
P-1 Print Position Descriptor Code P-8
P-2 Friction Ridge Generalized Position Codes P-12
Type-15 Data Dictionary Q-2
ISC Values Q-2
Type-13 Data Dictionary R-2
Type-17 Data Dictionary S-2
Missing and Damaged Eye Code S-3
S-1 Iris Transaction with Image S-3
S-2 Iris Transaction without Image S-4
Appendix AC: Acronyms AC-1

List of Figures

Example ORI and CRI Ownership Flow 14
Relationship Between UCN, EVI and BSI 16
Electronic Fingerprint Identification Submission 19
Biometric Image Retrieval Submission 36
Investigation Fingerprint Submission 44
Latent Friction Ridge Investigation Workflow 49
Electronic Requests to Delete Unsolved Latent Friction Ridge Records 61
Auxiliary Information Printed in Tenprint Card Format Print (Example Text) F-19
FBI Standard Fingerprint Card (FD-249) P-4
FBI Standard Palm Print Card (FD-884) Front P-5
FBI Standard Palm Print Card (FD-884) Reverse P-6
New FBI Standard Supplemental Finger/Palm Print Card (FD-884a) - Front P-7
New FBI Standard Supplemental Finger/Palm Print Card (FD-884a) - Reverse P-8
Distal, Medial and Proximal Joints P-10
Finger and Palm Segment Positions P-11