



FALCON / AFIS
INTERFACE CONTROL DOCUMENT
Florida Department of Law Enforcement

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Revision History

Version	Date	Description	Author
1.0	May 13, 2015	Document Creation	PWS
1.1	July 15, 2015	<p>Message Flow section: Removed fingerprints from contents for ASRCAC, DELC, MRGC, CHIDC, FIDR, SRM transactions; added composite information for ASRCAC, MRGC, and CHIDC.</p> <p>Multiple Hits on Criminal Records Only section: Added <HitId>.</p> <p>FIDR section: Removed Composite Fingerprint Information.</p> <p>SRM section: Added field to the SRM transactions.</p> <p>Composite Fingerprint Information section: Added new section.</p> <p>Fingerprint Quality Data section: Removed FALCON ID (FIDR).</p> <p>Composite Fingerprint Information: Added new section.</p>	PWS
1.2	March 15, 2016	<p>Added SID to the MRGR transaction.</p> <p>Changed the <HitId> and <AllHitSID> element descriptions to indicate that data will be shown as a group list.</p>	PWS
1.3	September 15, 2016	Updated the ASRCAR table to include the groups for <Exemptions>.	PWS

Table of Contents

1	Introduction	1
1.1	Purpose	1
1.2	Reference Documents	1
2	Requirements	2
2.1	Message Protocol	2
2.2	Message Format	2
2.3	Message Flow	2
2.3.1	Request JAR File	3
2.3.2	Response JAR File	5
2.4	Descriptor Data	7
2.4.1	ASRCAR	7
2.4.2	ASRCAE/DELE/MRGE/CHIDE	8
2.4.3	ASRCAC	8
2.4.4	DELC	12
2.4.5	MRGC / CHIDC	12
2.4.6	DELR	13
2.4.7	MRGR	13
2.4.8	CHIDR	14
2.4.9	FIDR	14
2.4.10	FIDC	15
2.4.11	SRM	16
2.5	Fingerprint Quality Data	25
2.6	Composite Fingerprint Information	28
3	Data Definitions	31
3.1	Tenprint Descriptors	31

1 Introduction

This section describes the purpose of the interface control document and lists the references used as source material for creating this document.

1.1 Purpose

This document shall provide the system interface specifications between FALCON and the AFIS.

1.2 Reference Documents

The following documents were used in the preparation of the ICD:

- 1) Requirements Specification for the Florida Department of Law Enforcement Phase 3 Server Upgrade, Document Number 0004-PF0094A
- 2) Criminal Justice Information Services (CJIS) Electronic Fingerprint Transmission Specification, CJIS-RS-0010 (V7), January 29, 1999
- 3) American National Standard for Information Systems – Data Format for the Interchange of Fingerprint, Facial, & Scar Mark & Tattoo (SMT) Information, ANSI/NIST-ITL 1-2000, July 27, 2000

2 Requirements

2.1 Message Protocol

Messages between the AFIS and FALCON shall be sent via Simple Mail Transfer Protocol (SMTP) as Multipurpose Internet Mail Extensions (MIME) encoded e-mail attachments.

2.2 Message Format

Messages sent between the AFIS and FALCON shall be transmitted in Java Archive (JAR) format.

2.3 Message Flow

The following table provides the message transactions sent between the AFIS and FALCON.

TOT	Description	Originates	Target	In Response To	Contents
ASRCAR	Tenprint Applicant Search with Add	FALCON	AFIS	--	Descriptors Fingerprints
ASRCAC	Tenprint Applicant Search with Add Complete	AFIS	FALCON	ASRCAR	Descriptors Composite Information
ASRCAE	Tenprint Applicant Search with Add Error	AFIS	FALCON	ASRCAR	Descriptors
DELR	Delete Record	FALCON	AFIS	--	Descriptors
DELC	Delete Complete	AFIS	FALCON	DELR	Descriptors
DELE	Delete Error	AFIS	FALCON	DELR	Descriptors
MRGR	Merge Record	FALCON	AFIS	--	Descriptors
MRGC	Merge Complete	AFIS	FALCON	MRGR	Descriptors Composite Information
MRGE	Merge Error	AFIS	FALCON	MRGR	Descriptors
CHIDR	Change ID	FALCON	AFIS	--	Descriptors
CHIDC	Change ID Complete	AFIS	FALCON	CHIDR	Descriptors Composite Information
CHIDE	Change ID Error	AFIS	FALCON	CHIDR	Descriptors
FIDR	Falcon ID Request	AFIS	FALCON	--	Descriptors
FIDC	Falcon ID Complete	FALCON	AFIS	FIDR	Descriptors
SRM	Search Results Message	AFIS	FALCON	--	Descriptors

2.3.1 Request JAR File

The request or source JAR file, generated by FALCON and sent to AFIS, is contained inline as a JAR object. The contents of the JAR file depends on the type of message and the workflow associated with the message. The naming conventions of the objects contained within the JAR object are:

- descriptors.xml
- f1.wsq
- f2.wsq
- f3.wsq
- f4.wsq
- f5.wsq
- f6.wsq
- f7.wsq
- f8.wsq
- f9.wsq
- f10.wsq
- f11.wsq
- f12.wsq
- f13.wsq
- f14.wsq

2.3.1.1 Descriptors

The AFIS database descriptors will be created in XML and saved as a “descriptors.xml” file in the JAR. The XML root tag is “descriptors.” The following is an example of the descriptor data string format:

```
<descriptors>
  <Id>10000004</Id>
  <PersonId>123456790</PersonId>
  <Sex>M</Sex>
  <Race>W</Race>
  <YearOfBirth>1950</YearOfBirth>
  <Exemptions>
    <Group>
      <V1>03</V1>
      <V2>XX</V2>
    </Group>
    <Group>
      <V1>05</V1>
      <V2>UP</V2>
    </Group>
  </Exemptions>
</descriptors>
```

2.3.1.2 AFIS Descriptor Subfield Format

The descriptors shall use the AFIS definition of subfields. Here are some examples on how to convert between XML and NIST formats for the three different types of descriptors: single, multi-value and record.

2.3.1.3 Single Value Descriptors

A single value type field will only contain one value. It shall never contain more than one value.

NIST Field:

2.024:M<GS>

XML Data:

<Sex>M</Sex>

2.3.1.4 Multi-Value Descriptors

A multi-value type field will contain multiple instances of one subfield. This type of format is different than a record type field in that the record separator is not used in the NIST formatting, but the XML data is formatted the same for both multi-value and record type fields.

NIST field:

2.015:0000000001<US>0000000002<GS>

Converts to XML data:

```
<HitID>
  <Group>
    <V1>0000000001</V1>
  </Group>
  <Group>
    <V1>0000000002</V1>
  </Group>
</HitID>
```

2.3.1.5 Record Descriptors

A record type field will contain multiple instances of one or more subfields. This field is different than a multi-value type descriptor in that the record separator is used in the NIST formatting and the record may have more than one subfield.

NIST field:

2.084:03<US>XX<RS>05<US>UP<GS>

Converts to XML data:

```
<Exemptions>
  <Group>
    <V1>03</V1>
```



```

        <V2>XX</V2>
    </Group>
  <Group>
    <V1>05</V1>
    <V2>UP</V2>
  </Group>
</Exemptions>

```

2.3.1.6 Fingerprint Image File

The fingerprint images shall be converted to WSQ format and saved using the filename convention provided in the following table.

Finger Image	500 ppi Image Filename
Finger 1 – Rolled Right Thumb	f1.wsq
Finger 2 – Rolled Right Index	f2.wsq
Finger 3 – Rolled Right Middle	f3.wsq
Finger 4 – Rolled Right Ring	f4.wsq
Finger 5 – Rolled Right Little	f5.wsq
Finger 6 – Rolled Left Thumb	f6.wsq
Finger 7 – Rolled Left Index	f7.wsq
Finger 8 – Rolled Left Middle	f8.wsq
Finger 9 – Rolled Left Ring	f9.wsq
Finger 10 – Rolled Left Little	f10.wsq
Right Four Finger Slaps	f11.wsq
Left Four Finger Slaps	f12.wsq
Right Thumb Slap	f13.wsq
Left Thumb Slap	f14.wsq

2.3.2 Response JAR File

The response JAR file, generated by AFIS and sent as a response to FALCON, is contained inline as a JAR object. The contents of the JAR file depends on the type of message and the workflow associated with the message. The naming conventions of the objects contained within the JAR object are:

- descriptors.xml
- PrintQuality.xml
- CompositeInformation.xml
- f1.wsq
- f2.wsq

- f3.wsq
- f4.wsq
- f5.wsq
- f6.wsq
- f7.wsq
- f8.wsq
- f9.wsq
- f10.wsq
- f11.wsq
- f12.wsq
- f13.wsq
- f14.wsq
- s1.wsq
- s2.wsq
- s3.wsq
- s4.wsq
- s5.wsq
- s6.wsq
- s7.wsq
- s8.wsq
- s9.wsq
- s10.wsq

2.4 Descriptor Data

The following describes the contents of the “descriptors.xml” file per transaction.

2.4.1 ASRCAR

The following table defines the descriptor file contents for the Tenprint Applicant Search with Add (ASRCAR) request transaction.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Priority	<type1Priority>	M	Priority (1.06)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	O	Transaction Control Reference
FALCON Transaction ID	<Id>	M	AFIS Incident ID.
LiveScan TCN	<LivescanTCN>	M	LiveScan TCN from CWCS applicant search.
Sex	<Sex>	M	Set to value of Sex field (2.024).
Race	<Race>	M	Set to value of Race field (2.025).
Year of Birth	<YearOfBirth>	M	Set to value of Year of Birth field (2.600).
Exemptions	<pre> <Exemptions> <Group> <V1>NN</V1> <V2>AA</V2> </Group> <Group> <V1>NN</V1> <V2>AA</V2> </Group> </Exemptions> </pre>	O	<p>Set to the Amputated and bandaged Finger(s) (2.084). <u>Up to 9 groups.</u></p> <p>NN is the rolled finger position code:</p> <ul style="list-style-type: none"> <u>01: Right Thumb</u> <u>02: Right Index</u> <u>03: Right Middle</u> <u>04: Right Ring</u> <u>05: Right Little</u> <u>06: Left Thumb</u> <u>07: Left Index</u> <u>08: Left Middle</u> <u>09: Left Ring</u> <u>10: Left Little</u> <p>AA is the amputated or bandaged code:</p> <ul style="list-style-type: none"> <u>UP: Unprintable</u> <u>XX: Amputee</u>

2.4.2 ASRCAE/DELE/MRGE/CHIDE

The following table defines the descriptor file contents for the Tenprint Applicant Search with Add Error (ASRCAE), Delete Error (DELE), Merge Error (MRGE), and Change ID Error (CHIDE) response transactions.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
FALCON Transaction ID	<Id>	M	Loop back request value.
Status/Error Message	<StatusErrorMessage>	M	Return descriptive text of error that occurred.

2.4.3 ASRCAC

This section defines the descriptor file contents for the Tenprint Applicant Search with Add Complete (ASRCAC) response transaction.

2.4.3.1 No-Hit

The following table defines the descriptor file contents for the no-hit ASRCAC transaction an applicant search record.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
FALCON Transaction ID	<Id>	M	Loop back request value.
LiveScan TCN	<LivescanTCN>	M	LiveScan TCN from ASRCAR
Search Result Findings	<SearchResultsFindings>	M	N = Non-Ident
New FALCON ID	<NewFalconId>	O	FALCON ID from FIDC response.
Composite Fingerprint Information	<CompositeFingerprint Information>	M	Identifies the fingerprints comprising the AFIS composite record. This information will be contained in a separate XML file.

2.4.3.2 Single Hit on Criminal Record

The following table defines the descriptor file contents for the single hit ASRCAC transaction for an applicant search record that hits one criminal database record.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
FALCON Transaction ID	<Id>	M	Loop back request value.
LiveScan TCN	<LivescanTCN>	M	LiveScan TCN from ASRCAR
Search Result Findings	<SearchResultsFindings>	M	I = Ident
Hit SID	<HitSID>	M	Hit criminal SID.
Composite Fingerprint Information	<CompositeFingerprint Information>	M	Identifies the fingerprints comprising the AFIS composite record. This information will be contained in a separate XML file.

2.4.3.3 Single Hit on Applicant Record

The following table defines the descriptor file contents for the single hit ASRCAC transaction for an applicant search record that hits one applicant database record.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
FALCON Transaction ID	<Id>	M	Loop back request value.
LiveScan TCN	<LivescanTCN>	M	LiveScan TCN from ASRCAR.
Search Result Findings	<SearchResultsFindings>	M	I = Ident

Field Name	XML Tag	Condition	Description
Hit ID	<HitId>	M	Hit FALCON ID.
Composite Fingerprint Information	<CompositeFingerprint Information>	M	Identifies the fingerprints comprising the AFIS composite record. This information will be contained in a separate XML file.

2.4.3.4 Multiple Hits on Criminal Records Only

The following table defines the descriptor file contents for the multiple hit ASRCAC transaction for an applicant search record that hits multiple criminal database records.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
FALCON Transaction ID	<Id>	M	Loop back request value.
LiveScan TCN	<LivescanTCN>	M	LiveScan TCN from ASRCAR.
Search Result Findings	<SearchResultsFindings>	M	I = Ident
Hit SID	<HitSID>	M	Final criminal SID.
All Hit SID(s)	<AllHitSID>	O	Contains the group list of all the hit SIDs.
Composite Fingerprint Information	<CompositeFingerprint Information>	M	Identifies the fingerprints comprising the AFIS composite record. This information will be contained in a separate XML file.

2.4.3.5 Multiple Hits on Applicant Records Only

The following table defines the descriptor file contents for the multiple hit ASRCAC transaction for an applicant search record that hits multiple applicant database records.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
FALCON Transaction ID	<Id>	M	Loop back request value.
LiveScan TCN	<LivescanTCN>	M	LiveScan TCN from ASRCAR.
Search Result Findings	<SearchResultsFindings>	M	I = Ident
Hit ID(s)	<HitId>	M	Contains the group list of all hit FALCON IDs.
Composite Fingerprint Information	<CompositeFingerprint Information>	M	Identifies the fingerprints comprising the AFIS composite record. This information will be contained in a separate XML file.

2.4.3.6 Multiple Hits on Criminal and Applicant Records

The following table defines the descriptor file contents for the multiple hit ASRCAC transaction for an applicant search record that hits multiple criminal and applicant database records.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
FALCON Transaction ID	<Id>	M	Loop back request value.
LiveScan TCN	<LivescanTCN>	M	LiveScan TCN from ASRCAR.
Search Result Findings	<SearchResultsFindings>	M	I = Ident
Hit SID	<HitSID>	M	Final criminal SID.
Hit ID(s)	<HitId>	O	Contains the group list of

Field Name	XML Tag	Condition	Description
			all hit FALCON IDs.
All Hit SID(s)	<AllHitSID>	O	Contains the group list of all hit SIDs.
Composite Fingerprint Information	<CompositeFingerprint Information>	M	Identifies the fingerprints comprising the AFIS composite record. This information will be contained in a separate XML file.

2.4.4 DELC

The following table defines the descriptor file contents for the Delete Complete (DELC) response transactions.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
FALCON Transaction ID	<Id>	M	Loop back request value.

2.4.5 MRGC / CHIDC

The following table defines the descriptor file contents for the Merge Complete (MRGC) and Change ID Complete (CHIDC) response transactions.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
FALCON Transaction ID	<Id>	M	Loop back request value.
Composite Fingerprint Information	<CompositeFingerprint Information>	M	Identifies the fingerprints comprising the AFIS composite record. This information will be contained in a separate XML file.

2.4.6 DELR

The following table defines the descriptor file contents for the Delete Record (DELR) request transaction.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Priority	<type1Priority>	M	Priority (1.06)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	O	Transaction Control Reference
FALCON Transaction ID	<Id>	M	AFIS Incident ID
FALCON ID (FID)	<FalconId>	M	The Falcon ID (AFIS Person ID) of the record that shall be deleted or retrieved from the AFIS database.
SID	<SID>	O	The criminal SID associated with the FID.
Date	<FalconDeleteDate>	O	Current Date. This date will be used in the <deletedFID> descriptor.

2.4.7 MRGR

The following table defines the descriptor file contents for the Merge Record (MRGR) request transaction.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Priority	<type1Priority>	M	Priority (1.06)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	O	Transaction Control Reference
FALCON Transaction ID	<Id>	M	AFIS Incident ID
Destination ID or Master FID	<DestinationId>	M	The Falcon ID (AFIS Person ID) of the composite record that shall be merged under. For a "both" record, this becomes the <MasterFID>.

Field Name	XML Tag	Condition	Description
Source ID(s)	<SourceId>	M	The Falcon ID(s) to be merged to the Destination ID.
SID	<SID>	O	The criminal SID associated with the FID. This tells the Criminal AFIS to update only the <MasterFID> and the records have already been merged.

2.4.8 CHIDR

The following table defines the descriptor file contents for the Change ID (CHIDR) request transaction.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Priority	<type1Priority>	M	Priority (1.06)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	O	Transaction Control Reference
FALCON Transaction ID	<Id>	M	AFIS Incident ID.
Destination ID	<DestinationId>	M	The Falcon ID the record will be changed to.
Source ID	<SourceId>	M	The Falcon ID the record will be changed from.

2.4.9 FIDR

The following table defines the descriptor file contents for the Falcon ID (FIDR) request transaction.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	O	Transaction Control Reference
FALCON Transaction ID	<Id>	M	AFIS Incident ID.

2.4.10 FIDC

The following table defines the descriptor file contents for the Falcon ID Complete (FIDC) response transaction.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
FALCON Transaction ID	<Id>	M	AFIS Incident ID.
New FALCON ID	<NewFalconId>	M	New FALCON ID.

2.4.11 SRM

This section defines the descriptor file contents for the Search Results Message (SRM) response transaction.

2.4.11.1 No-Hit

The following table defines the descriptor file contents for the no-hit SRM transaction for a criminal search record.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
Person ID	<SID>	M	Criminal incident ID of the search record
Offender Incident ID	<OBTS>	M	Criminal incident ID
Search Result Findings	<SearchResultsFindings>	M	I = Ident N = Non-Ident
Arresting Agency ORI	<OrigAgency>	M	ORI from the 1.08
Originating Agency Case Number	<OriginatingAgencyCaseNumber>	M	Originating Agency Case Number
FBI Number	<FBINumber>	O	FBI Number
Social Security Number	<SocialSecurityNumber>	M	Social Security Number
Name	<Name>	M	Name
Aliases	<Aliases>	O	Aliases
Place of Birth	<PlaceOfBirth>	M	Place of Birth
Date of Birth	<DateOfBirth>	M	Date of Birth
Gender	<Sex>	M	Gender
Race	<Race>	M	Race
Height	<Height>	M	Height
Weight	<Weight>	M	Weight
Color Eyes	<EyeColor>	M	Color Eyes
Hair Color	<HairColor>	M	Hair Color
Date of Arrest	<DateOfArrest>	M	Date of Arrest
Image Capture Equipment	<ImageCaptureEquipment>	M	Image Capture Equipment for livescan capture
Make	<V1>		
Model	<V2>		
Serial Number	<V3>		

Field Name	XML Tag	Condition	Description
NCIC Charge Code/Arrest Offense Number	<NCICChargeCode>	M	NCIC Charge Code
DOC Number	<DOCNumber>	O	ID number of Department of Corrections
Arrest Segment Literal Date of Offense Arrest Offense Literal	<ArrestSegmentLiteral> <V1> <V2>	C	Mandatory for arrest.
Florida State Statute Number	<FloridaStateStatuteNumber>	C	Mandatory for arrest.
Degree of the Charge	<DegreeOfCharge>	C	Mandatory for arrest.
Level of Arrest	<LevelOfArrest>	C	Mandatory for arrest.

2.4.11.2 Single Hit on Criminal Record

The following table defines the descriptor file contents for the single hit SRM transaction for a criminal search record that hits one criminal database record.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
Offender Incident ID	<OBTS>	M	Criminal incident ID of the search record
Search Result Findings	<SearchResultsFindings>	M	I = Ident N = Non-Ident
Hit SID	<HitSID>	O	This field will list all the IDs that were marked as idents by AFIS/verification operator.
Arresting Agency ORI	<OrigAgency>	M	ORI from the 1.08
Originating Agency Case Number	<OriginatingAgencyCaseNumber>	M	Originating Agency Case Number
FBI Number	<FBINumber>	O	FBI Number
Social Security Number	<SocialSecurityNumber>	M	Social Security Number
Name	<Name>	M	Name

Field Name	XML Tag	Condition	Description
Aliases	<Aliases>	O	Aliases
Place of Birth	<PlaceOfBirth>	M	Place of Birth
Date of Birth	<DateOfBirth>	M	Date of Birth
Gender	<Sex>	M	Gender
Race	<Race>	M	Race
Height	<Height>	M	Height
Weight	<Weight>	M	Weight
Color Eyes	<EyeColor>	M	Color Eyes
Hair Color	<HairColor>	M	Hair Color
Date of Arrest	<DateOfArrest>	M	Date of Arrest
Image Capture Equipment Make Model Serial Number	<ImageCaptureEquipment> <V1> <V2> <V3>	M	Image Capture Equipment for livescan capture
NCIC Charge Code/Arrest Offense Number	<NCICChargeCode>	M	NCIC Charge Code
DOC Number	<DOCNumber>	O	ID number of Department of Corrections
Arrest Segment Literal Date of Offense Arrest Offense Literal	<ArrestSegmentLiteral> <V1> <V2>	C	Mandatory for arrest.
Florida State Statute Number	<FloridaStateStatuteNumber>	C	Mandatory for arrest.
Degree of the Charge	<DegreeOfCharge>	C	Mandatory for arrest.
Level of Arrest	<LevelOfArrest>	C	Mandatory for arrest.

2.4.11.3 Single Hit on Applicant Record

The following table defines the descriptor file contents for the single hit SRM transaction for a criminal search record that hits one applicant database record.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control	<type1TransactionControlReference>	M	Transaction Control

Field Name	XML Tag	Condition	Description
Reference			Reference
Offender Incident ID	<OBTS>	M	Criminal incident ID of the search record
Search Result Findings	<SearchResultsFindings>	M	I = Ident N = Non-Ident
Hit ID	<HitId>	O	This field contains the hit FALCON ID.
New SID	<NewSID>	O	This field contains the new criminal SID from the CCH.
Arresting Agency ORI	<OrigAgency>	M	ORI from the 1.08
Originating Agency Case Number	<OriginatingAgencyCaseNumber>	M	Originating Agency Case Number
FBI Number	<FBINumber>	O	FBI Number
Social Security Number	<SocialSecurityNumber>	M	Social Security Number
Name	<Name>	M	Name
Aliases	<Aliases>	O	Aliases
Place of Birth	<PlaceOfBirth>	M	Place of Birth
Date of Birth	<DateOfBirth>	M	Date of Birth
Gender	<Sex>	M	Gender
Race	<Race>	M	Race
Height	<Height>	M	Height
Weight	<Weight>	M	Weight
Color Eyes	<EyeColor>	M	Color Eyes
Hair Color	<HairColor>	M	Hair Color
Date of Arrest	<DateOfArrest>	M	Date of Arrest
Image Capture Equipment Make Model Serial Number	<ImageCaptureEquipment> <V1> <V2> <V3>	M	Image Capture Equipment for livescan capture
NCIC Charge Code/Arrest Offense Number	<NCICChargeCode>	M	NCIC Charge Code
DOC Number	<DOCNumber>	O	ID number of Department of Corrections
Arrest Segment Literal Date of Offense Arrest Offense Literal	<ArrestSegmentLiteral> <V1> <V2>	C	Mandatory for arrest.

Field Name	XML Tag	Condition	Description
Florida State Statute Number	<FloridaStateStatuteNumber>	C	Mandatory for arrest.
Degree of the Charge	<DegreeOfCharge>	C	Mandatory for arrest.
Level of Arrest	<LevelOfArrest>	C	Mandatory for arrest.

2.4.11.4 Multiple Hits on Criminal Records Only

The following table defines the descriptor file contents for the multiple hit SRM transaction for a criminal search record that hits multiple criminal database records.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
Offender Incident ID	<OBTS>	M	Criminal incident ID of the search record
Search Result Findings	<SearchResultsFindings>	M	I = Ident N = Non-Ident
Hit SID	<HitSID>	O	This field will list the final criminal SID.
Print Quality Information	<PrintQualityInfo>	M	Identifies the quality of the individual fingerprints
Arresting Agency ORI	<OrigAgency>	M	ORI from the 1.08
Originating Agency Case Number	<OriginatingAgencyCaseNumber>	M	Originating Agency Case Number
FBI Number	<FBINumber>	O	FBI Number
Social Security Number	<SocialSecurityNumber>	M	Social Security Number
Name	<Name>	M	Name
Aliases	<Aliases>	O	Aliases
Place of Birth	<PlaceOfBirth>	M	Place of Birth
Date of Birth	<DateOfBirth>	M	Date of Birth
Gender	<Sex>	M	Gender
Race	<Race>	M	Race
Height	<Height>	M	Height
Weight	<Weight>	M	Weight
Color Eyes	<EyeColor>	M	Color Eyes
Hair Color	<HairColor>	M	Hair Color

Field Name	XML Tag	Condition	Description
Date of Arrest	<DateOfArrest>	M	Date of Arrest
Image Capture Equipment Make Model Serial Number	<ImageCaptureEquipment> <V1> <V2> <V3>	M	Image Capture Equipment for livescan capture
NCIC Charge Code/Arrest Offense Number	<NCICChargeCode>	M	NCIC Charge Code
DOC Number	<DOCNumber>	O	ID number of Department of Corrections
Arrest Segment Literal Date of Offense Arrest Offense Literal	<ArrestSegmentLiteral> <V1> <V2>	C	Mandatory for arrest.
Florida State Statute Number	<FloridaStateStatuteNumber>	C	Mandatory for arrest.
Degree of the Charge	<DegreeOfCharge>	C	Mandatory for arrest.
Level of Arrest	<LevelOfArrest>	C	Mandatory for arrest.

2.4.11.5 Multiple Hits on Applicant Records Only

The following table defines the descriptor file contents for the multiple hit SRM transaction for a criminal search record that hits multiple applicant database records.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
Offender Incident ID	<OBTS>	M	Criminal incident ID of the search record
Search Result Findings	<SearchResultsFindings>	M	I = Ident N = Non-Ident
Hit ID(s)	<HitId>	O	This field contains the group list of all hit FALCON IDs.
New SID	<NewSID>	O	This field contains the new criminal SID from the CCH.
Arresting Agency ORI	<OrigAgency>	M	ORI from the 1.08

Field Name	XML Tag	Condition	Description
Originating Agency Case Number	<OriginatingAgencyCaseNumber>	M	Originating Agency Case Number
FBI Number	<FBINumber>	O	FBI Number
Social Security Number	<SocialSecurityNumber>	M	Social Security Number
Name	<Name>	M	Name
Aliases	<Aliases>	O	Aliases
Place of Birth	<PlaceOfBirth>	M	Place of Birth
Date of Birth	<DateOfBirth>	M	Date of Birth
Gender	<Sex>	M	Gender
Race	<Race>	M	Race
Height	<Height>	M	Height
Weight	<Weight>	M	Weight
Color Eyes	<EyeColor>	M	Color Eyes
Hair Color	<HairColor>	M	Hair Color
Date of Arrest	<DateOfArrest>	M	Date of Arrest
Image Capture Equipment Make Model Serial Number	<ImageCaptureEquipment> <V1> <V2> <V3>	M	Image Capture Equipment for livescan capture
NCIC Charge Code/Arrest Offense Number	<NCICChargeCode>	M	NCIC Charge Code
DOC Number	<DOCNumber>	O	ID number of Department of Corrections
Arrest Segment Literal Date of Offense Arrest Offense Literal	<ArrestSegmentLiteral> <V1> <V2>	C	Mandatory for arrest.
Florida State Statute Number	<FloridaStateStatuteNumber>	C	Mandatory for arrest.
Degree of the Charge	<DegreeOfCharge>	C	Mandatory for arrest.
Level of Arrest	<LevelOfArrest>	C	Mandatory for arrest.

2.4.11.6 Multiple Hits on Criminal and Applicant Records

The following table defines the descriptor file contents for the multiple hit SRM transaction for a criminal search record that hits multiple criminal and applicant database records.

Field Name	XML Tag	Condition	Description
Type of Transaction	<type1TypeofTrans>	M	Type of Transaction (1.04)
Transaction Control Number	<type1TransactionControlNumber>	M	Transaction Control Number
Transaction Control Reference	<type1TransactionControlReference>	M	Transaction Control Reference
Offender Incident ID	<OBTS>	M	Criminal incident ID of the search record
Search Result Findings	<SearchResultsFindings>	M	I = Ident N = Non-Ident
Hit SID	<HitSID>	O	This field will list the final criminal SID.
Hit ID(s)	<HitId>	O	This field contains the group list of all hit FALCON IDs.
Arresting Agency ORI	<OrigAgency>	M	ORI from the 1.08
Originating Agency Case Number	<OriginatingAgencyCaseNumber>	M	Originating Agency Case Number
FBI Number	<FBINumber>	O	FBI Number
Social Security Number	<SocialSecurityNumber>	M	Social Security Number
Name	<Name>	M	Name
Aliases	<Aliases>	O	Aliases
Place of Birth	<PlaceOfBirth>	M	Place of Birth
Date of Birth	<DateOfBirth>	M	Date of Birth
Gender	<Sex>	M	Gender
Race	<Race>	M	Race
Height	<Height>	M	Height
Weight	<Weight>	M	Weight
Color Eyes	<EyeColor>	M	Color Eyes
Hair Color	<HairColor>	M	Hair Color
Date of Arrest	<DateOfArrest>	M	Date of Arrest
Image Capture Equipment Make Model Serial Number	<ImageCaptureEquipment> <V1> <V2> <V3>	M	Image Capture Equipment for livescan capture
NCIC Charge Code/Arrest Offense Number	<NCICChargeCode>	M	NCIC Charge Code
DOC Number	<DOCNumber>	O	ID number of Department of Corrections

Field Name	XML Tag	Condition	Description
Arrest Segment Literal Date of Offense Arrest Offense Literal	<ArrestSegmentLiteral> <V1> <V2>	C	Mandatory for arrest.
Florida State Statute Number	<FloridaStateStatuteNumber>	C	Mandatory for arrest.
Degree of the Charge	<DegreeOfCharge>	C	Mandatory for arrest.
Level of Arrest	<LevelOfArrest>	C	Mandatory for arrest.

2.5 Fingerprint Quality Data

The fingerprint image quality score for the search record shall be contained in the "PrintQuality.xml" file. The following table defines the contents of the "PrintQuality.xml" file. The search case fingerprint image quality score shall be returned for the following response transactions:

- Tenprint Applicant Search with Add Complete (ASRCAC)

Field Name	XML Tag	Code	Description	
Print Quality Information	<PrintQualityInfo>			
	<IncidentId>		FALCON Transaction ID	
	<PrintQuality>			
	<FingerQuality>			
	<Finger>		f1	Rolled Finger 1
			f2	Rolled Finger 2
			f3	Rolled Finger 3
			f4	Rolled Finger 4
			f5	Rolled Finger 5
			f6	Rolled Finger 6
			f7	Rolled Finger 7
			f8	Rolled Finger 8
			f9	Rolled Finger 9
			f10	Rolled Finger 10
	<Finger>		s1	Segmented Slap Finger 1
			s2	Segmented Slap Finger 2
			s3	Segmented Slap Finger 3
			s4	Segmented Slap Finger 4
			s5	Segmented Slap Finger 5
			s6	Segmented Slap Finger 6
		s7	Segmented Slap Finger 7	
		s8	Segmented Slap Finger 8	
		s9	Segmented Slap Finger 9	
		s10	Segmented Slap Finger 10	
	<QualityScore>		Fingerprint Image Quality Score	

The following is an example of the contents of the "PrintQuality.xml" file:

```
<PrintQualityInfo>
  <IncidentID>0000000342</IncidentId>
  <PrintQuality>
    <FingerQuality>
```

```
<Finger>f1</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>f2</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>f3</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>f4</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>f5</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>f6</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>f7</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>f8</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>f9</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>f10</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>s1</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>s2</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>s3</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>s4</Finger>
  <QualityScore>85</QualityScore>
```

```
</FingerQuality>
<FingerQuality>
  <Finger>s5</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>s6</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>s7</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>s8</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>s9</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
<FingerQuality>
  <Finger>s10</Finger>
  <QualityScore>85</QualityScore>
</FingerQuality>
</PrintQuality>
</PrintQualityInfo>
```

2.6 Composite Fingerprint Information

The composite fingerprint information for the search record shall be contained in the "CompositeFingerPrint.xml" file.

This field is used to identify the composite fingerprints that the AFIS will store in the database to be used for matching. The valid composite codes are listed in the following table.

Field Name	XML Tag	Code	Description
Composite Fingerprint Information	<CompositeFingerPrintInformation>		
	<FingerInfo>		
	<Finger>	f1	Rolled Finger 1
		f2	Rolled Finger 2
		f3	Rolled Finger 3
		f4	Rolled Finger 4
		f5	Rolled Finger 5
		f6	Rolled Finger 6
		f7	Rolled Finger 7
		f8	Rolled Finger 8
		f9	Rolled Finger 9
		f10	Rolled Finger 10
		f11	Right Four Finger Slaps
		f12	Left Four Finger Slaps
		f13	Right Thumb Slap
	f14	Left Thumb Slap	
	<IncidentId>		FALCON Transaction ID

For example, if the AFIS identifies that the following are the best fingers used for the composite:

- Search case = 0000000342, fingers 1 to 5, rolls.
- FID = 0000000002, fingers 8, 9, and 10, rolls.

The field shall have the following string format:

```
<CompositeFingerprintInformation>
  <FingerInfo>
    <Finger>f1</Finger>
    <IncidentId>0000000342</IncidentId>
  </FingerInfo>
  <FingerInfo>
    <Finger>f2</Finger>
    <IncidentId>0000000342</IncidentId>
  </FingerInfo>
  <FingerInfo>
```



```
<Finger>f3</Finger>
  <IncidentId>0000000342</IncidentId>
</FingerInfo>
<FingerInfo>
  <Finger>f4</Finger>
  <IncidentId>0000000342</IncidentId>
</FingerInfo>
<FingerInfo>
  <Finger>f5</Finger>
  <IncidentId>0000000342</IncidentId>
</FingerInfo>
<FingerInfo>
  <Finger>f6</Finger>
  <IncidentId>0000000342</IncidentId>
</FingerInfo>
<FingerInfo>
  <Finger>f7</Finger>
  <IncidentId>0000000342</IncidentId>
</FingerInfo>
<FingerInfo>
  <Finger>f8</Finger>
  <IncidentId>0000000002</IncidentId>
</FingerInfo>
<FingerInfo>
  <Finger>f9</Finger>
  <IncidentId>0000000002</IncidentId>
</FingerInfo>
<FingerInfo>
  <Finger>f10</Finger>
  <IncidentId>0000000002</IncidentId>
</FingerInfo>
<FingerInfo>
  <Finger>f11</Finger>
  <IncidentId>0000000342</IncidentId>
</FingerInfo>
<FingerInfo>
  <Finger>f12</Finger>
  <IncidentId>0000000342</IncidentId>
</FingerInfo>
<FingerInfo>
  <Finger>f13</Finger>
  <IncidentId>0000000342</IncidentId>
</FingerInfo>
<FingerInfo>
  <Finger>f14</Finger>
  <IncidentId>0000000342</IncidentId>
</FingerInfo>
</CompositeFingerprintInformation>
```


3 Data Definitions

This section provides data definitions for each field.

3.1 Tenprint Descriptors

The following fields are contained within the descriptors.xml file.

Amputated Bandaged Fingers (AMP)

The value of the Amputated or Bandaged Fingers (AMP) field shall be set in accordance with the following table.

Field Name	XML Tag	Code used within NIST File for Field 2.084	Code Conversion for XML String
Exemptions	<Exemptions>		
	<Group>		
	<V1>	01	01
		02	02
		03	03
		04	04
		05	05
		06	06
		07	07
		08	08
		09	09
		10	10
	<V2>	XX	XX
		UP	UP

This field is a record descriptor (as described in section 2.4.3.5) with a minimum occurrence of 1 and maximum occurrence of 9 records.

Destination ID

This field is the destination ID used for the merge and change ID requests.

FALCON Transaction ID

The FALCON Transaction ID (Incident ID) is generated by FALCON for FALCON applicant records. The format is a sequential number. The system will add a suffix "F" to this number to identify it as a FALCON Transaction ID and to prevent duplicate numbering.

FALCON ID (FID)

The FALCON ID (Person ID) is assigned by FALCON for FALCON applicant records. The format is a sequential number. The system shall add a suffix "F" to this number to identify it as a FALCON ID and to prevent duplicate numbering with a SID.

Hit ID

This field contains the hit ID(s) (FALCON ID) from the AFIS. This field is a multi-value descriptor (as described in section 2.4.3.4) with a minimum occurrence of 1 and maximum occurrence of up to the number of candidates requested.

Hit SID

This field contains the hit SID(s) (Criminal Person ID) from the AFIS. This field is a multi-value descriptor (as described in section 2.4.3.4) with a minimum occurrence of 1 and maximum occurrence of up to the number of candidates requested.

New FALCON ID

This field contains the FALCON ID (AFIS Person ID) generated by the FALCON system for applicant no-hits.

New SID

This field contains the new criminal Person ID (AFIS Person ID) generated by the FALCON system for criminal no-hits.

Offender Incident ID (OBTS)

Criminal, registrant, custody and disposition cases shall use the 10-digit Offender Based Tracking System Number (OBTS). The OBTS shall have the format **AADDnnnnnn**, where

AA is the OBTS Agency

DD is the device number

nnnnnn is a 6-digit sequence number

Person ID (SID)

This field is the non-applicant Person ID (SID) which is the 8-digit Florida Department of Law Enforcement (DLE) number. DLE numbers are generated by CCH.

The applicant Person ID will be the 8 character Temporary Applicant ID. If a no-hit is determined for an applicant search, BIS shall automatically generate a new Temporary Applicant ID in the format **Annnnnnn**, where

A is the leading character

nnnnnnn is a sequence number

Race (RAC)

This field is used to indicate the race of the subject. The valid race codes are listed in the following table.

Condition	Race	Race Code
Chinese, Japanese, Filipino, Korean, Polynesian, Indian, Indonesian, Asian Indian, Samoan, or any other Pacific Islander	Asian	A
A person having origins in any of the black racial groups of Africa	Black	B
American Indian, Eskimo, or Alaskan native, or a person having origins in any of the 48 contiguous states of the United States or Alaska who maintains cultural identification through tribal affiliation or community recognition	Indian	I
Caucasian, Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race	White	W
Of indeterminable race	Unknown	U

Search Result Findings (SRF)

This field is used to identify the search status of the AFIS search. The valid search status codes are listed in following table. Multiple hits are determined by counting the Hit IDs returned for hits (SRF = "I").

Search Results	Search Status Code
No Hit (Non-Ident)	N
Hit (Ident)	I

Sex (SEX)

This field is used to indicate the gender of the subject. The valid gender codes are listed in the following table.

Gender	Gender Code
Male	M
Female	F
Unknown	X

Source ID

This field is the source ID(s) used for the merge and change ID requests. This field is a multi-value descriptor (as described in section 2.4.3.4) with a minimum occurrence of 1 and maximum occurrence of up to the number of candidates specified.

Status/Error Message (MSG)

This free-text field will contain reason, status or error messages that are generated as a result of the processing of a transaction and will be sent back to the submitter. For example, if the QC operator rejects a case the Status/Error message can have a value of "Case rejected at QC".

Year of Birth (YOB)

This field contains the year the subject was born. The year is four-digits in the format, CCYY.