U. S. Department of Justice
Federal Bureau of Investigation
Science and Technology Branch

CODIS Arrestee Enrollment Format Interface Specification Document (AEF ISD)

Version 1.0 Revision 24
September 11, 2017

Laboratory Division – Biometrics Analysis Section
CODIS Unit - Program Management Office
2501 Investigation Parkway
FBI Academy Complex
Quantico, VA 22135

Revision History

Rev#	Date	Initials	Description
24	9/11/2017	KME	Baseline version for public release

TABLE OF CONTENTS

1.0 OVERVIEW

This specification describes the interface between a booking agency system[1] and a rapid DNA instrument in order to provide information needed to enroll specimens in the CODIS database. Rapid DNA instruments are required to generate a CODIS Rapid Common Message Format (CMF) import file to support specimen enrollment in the CODIS database. The first step in the processing the arrestee at a booking station is to collect fingerprints from the arrestee/subject in order to determine identity. When the subject being processed during arrest has a qualifying offense that allows for a DNA sample to be taken, then the booking station could receive a message from the State Identification Bureau/State CJIS Systems Agency/Federal CJIS Systems Agency indicating that a DNA sample be collected if a DNA sample is not already on file for the subject within the arresting state SDIS (State DNA Index System). This document applies to both state and federal law enforcement locations that are using a rapid DNA instrument to enroll specimens in a CODIS database. For Rapid DNA enrollment purposes, all federal law enforcement agencies are considered to be a "local agency" for CODIS submission purposes. The FBI Laboratory at Quantico, VA is the Federal SDIS for CODIS.

The booking agency system needs to provide information about the arrestee before the rapid DNA instrument will allow for the DNA sample to be processed. Rapid DNA instruments will have software designed to confirm that fingerprints from the arrestee are successfully processed prior to processing a DNA sample from the arrestee. This arrestee enrollment format (AEF) interface specification describes the information that is transmitted at the booking location to the rapid DNA instrument.

This specification contains the following information:

- **Arrestee Enrollment Format (AEF) Summary –** summarizes the components, format, and data types of elements in the AEF message. The message is created using the Extensible Markup Language (XML) format.
- **AEF Fields –** detailed description of the data elements contained in the AEF message. AEF fields are described in detail to highlight expected data. A sample AEF file as well as the applicable schema is also included.
- **Appendix A – Example Arrestee Enrollment Format message.**
- **Appendix B – Arrestee Enrollment Format XSD File –** defines the valid XML structure for an AEF message using an XML schema definition (XSD) file.

Requests for an electronic copy of this document and all schemas should be sent to RapidDNA@fbi.gov. Questions about communicating with the State Identification Bureau/State CJIS Systems Agency should be directed to the applicable state agency.

[1] The term "booking agency system" is a generic abstraction of the IT system used in a booking or jail facility that processes arrestees by collecting fingerprints and enrolling the arrestee in the local/regional/state AFIS and/or FBI NGI database.

2.0 SYSTEM CONCEPT

Collaboration is needed with vendors of booking agency record systems and rapid DNA instruments to validate the technical feasibility of this interface specification. An FBI-supplied application or portal will validate Rapid CMF import files in order to enroll specimens in the CODIS database. Booking agency system and rapid DNA instrument vendors will work on technical approaches for verifying that the identity information of the arrestee being fingerprinted corresponds to the buccal swab being collected for analysis by the rapid DNA instrument. The term "arrestee" refers to the subject being processed for the purpose of DNA enrollment in CODIS.

The Government encourages Industry to provide innovative solutions for collecting fingerprints and then a buccal swab from the arrestee while maintaining the integrity of the data such that no errors occur between fingerprint collection and swab submission to the Rapid instrument. Multiple approaches could be used to provide the necessary arrestee enrollment information to the rapid DNA instrument.

Booking agency system vendors can declare compliance to this FBI standard only if the message transmitted from the booking agency system to the Rapid DNA instrument is compliant with the XML schema in Appendix B. Rapid DNA instrument vendors can declare compliance to this FBI standard only if the message processed by the device is compliant with the XML schema in Appendix B.

Rapid instruments are expected to reject for processing any buccal swabs submitted with incomplete and/or improper arrestee enrollment information prior to the initiation of DNA sample analysis. Following successful DNA analysis of the CODIS NDIS core loci, the Rapid instrument will merge the CODIS profile with the arrestee information as described in this AEF interface specification into the required CMF.

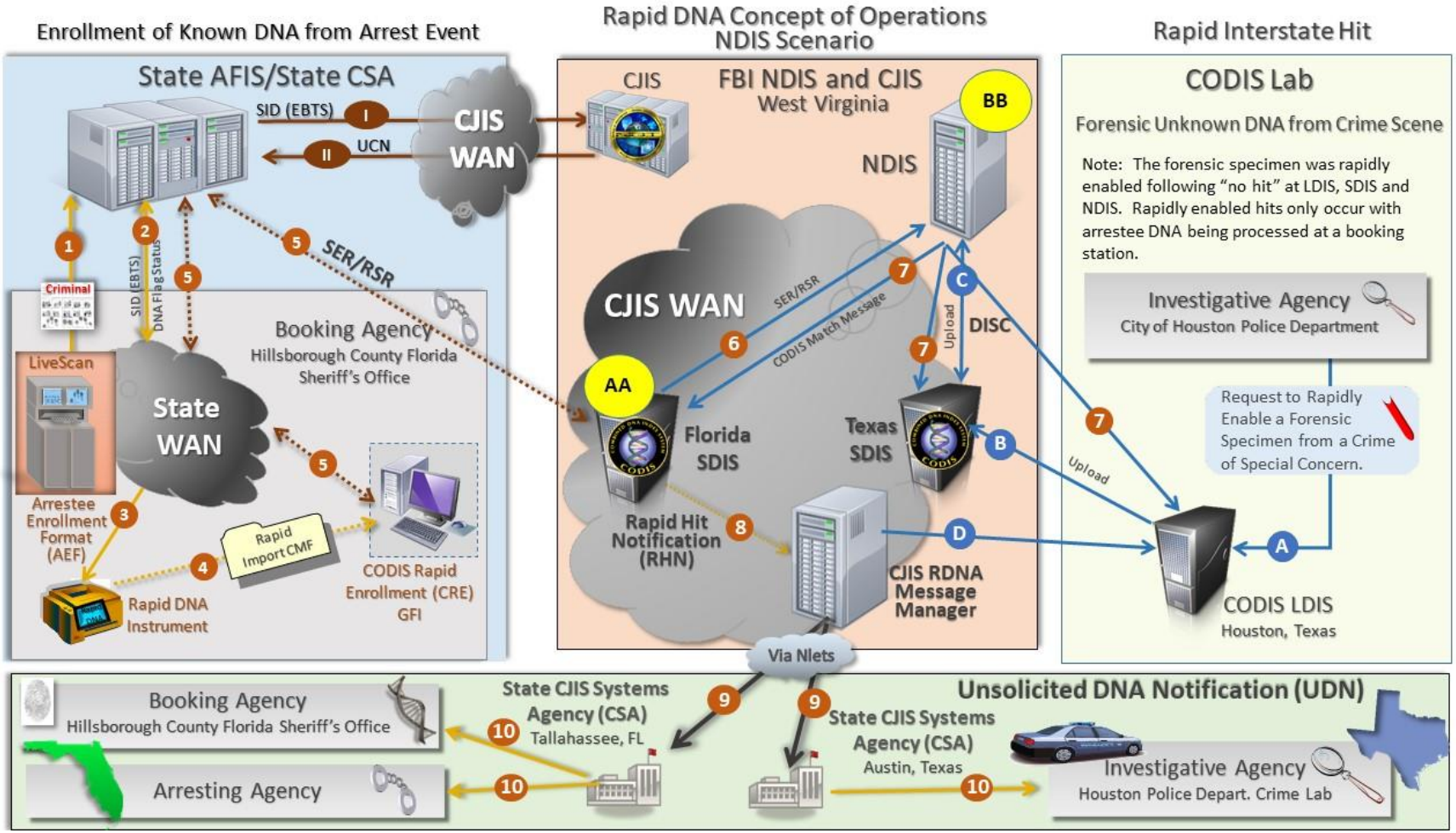

Figure 1 Rapid DNA Concept of Operations

Figure 1, Rapid DNA Concept of Operations, depicts an example of the overall data exchange flow for processing an arrestee and enrolling the arrestee DNA sample in the CODIS database. This depiction also includes the searching of the arrestee profile and notifications to local law enforcement agencies.

- Arrow 1 – the arrestee is fingerprinted using a LiveScan device and the fingerprints are sent to the State Automated Fingerprint Identification System (AFIS) to determine if the arrestee is already enrolled or needs to be enrolled in the State AFIS
- Arrow I – the State AFIS sends the fingerprints to FBI Criminal Justice Information Services (CJIS) to determine if the arrestee is enrolled or needs to be enrolled
- Arrow II – FBI CJIS returns the FBI Universal Control Number (UCN) to the State AFIS
- Arrow 2 – the State AFIS returns the arrestee State Identification number (SID) and the system could indicate if DNA needs to be collected from the arrestee
- Arrow 3 – the booking agency IT system generates an AEF message for the Rapid DNA instrument
- Arrow 4 – the Rapid DNA instrument creates the Rapid Import CMF file in a directory accessible to the CODIS Rapid Enrollment (CRE) application
- Arrow 5 – the CRE application validates the information in the Rapid Import CMF file and sends a Search Enrollment Request (SER) and Rapid Search Request (RSR) message to the CODIS SDIS server via the State WAN that is connected to the CJIS WAN
- Action AA – the CODIS SDIS server searches the arrestee specimen against the DNA profiles in the state DNA index of special concern (DISC)
- Arrow 6 – the CODIS SDIS server validates the SER and RSR messages then sends the SER and RSR messages to the CODIS NDIS server
- Action BB – the CODIS NDIS server searches the arrestee specimen against the DNA profiles in the national DNA index of special concern (DISC)
- Arrow 7 – the NDIS server sends CODIS match messages to all of the CODIS labs involved in any matches to the arrestee profile
- Arrow 8 – the CODIS SDIS server that owns the arrestee profile sends a Rapid Hit Notification (RHN) message to the CJIS Message Manager (CMM) service via the CJIS WAN
- Arrow 9 – the CMM service sends Unsolicited DNA Notification (UDN) messages to the State CJIS Systems Agency (CSA) of the booking, arresting, and investigative agencies
- Arrow 10 – the State CSA sends the UDN messages to the local law enforcement booking, arresting, and investigative agencies
- Arrow A – the investigative agency requests that the CODIS LDIS change the status of the unsolved forensic profile to include in the DISC
- Arrow B – the CODIS LDIS uploads the unsolved forensic profile to CODIS SDIS DISC
- Arrow C – the CODIS SDIS uploads the unsolved forensic profile to CODIS NDIS DISC
- Arrow D – the CMM service forwards the RHN message to the CODIS LDIS that owns the unsolved forensic profile in the DISC

This interface specification addresses the data exchange between the State/booking agency system and the rapid DNA instrument as depicted by arrow 3 in Figure 1. See Figure 2 for a simplified depiction of the internal messaging data flows related to the booking agency system environment needed to enroll and search specimens in the CODIS database.

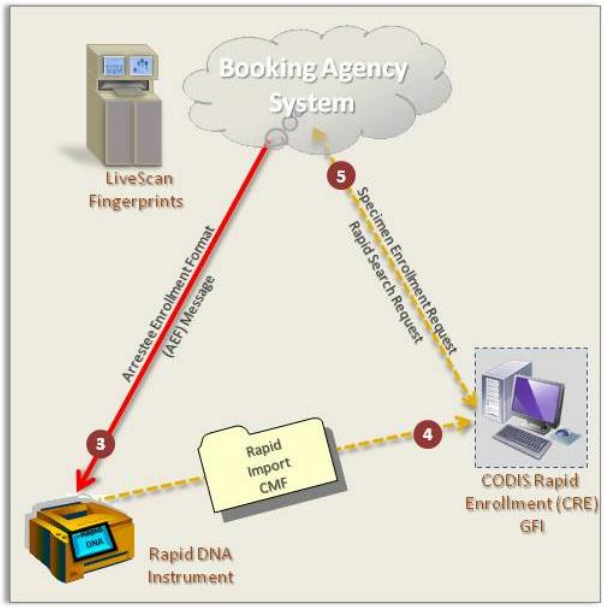

Figure 2 Booking Agency System Internal Message Flow

- Arrow 3 – the booking agency IT system generates an AEF message for the Rapid DNA instrument
- Arrow 4 – the Rapid DNA instrument creates the Rapid Import CMF file in a directory accessible to the CODIS Rapid Enrollment (CRE) application
- Arrow 5 – the CRE application validates the information in the Rapid Import CMF file and sends a Search Enrollment Request (SER) and Rapid Search Request (RSR) message to the CODIS SDIS server via the State WAN that is connected to the CJIS WAN

Multiple implementation approaches are possible to communicate between the booking agency system and the rapid DNA instrument. This document is intended to define the message format and content necessary to allow a DNA sample from the arrestee to be processed by the rapid DNA instrument.

3.0 AEF MESSAGE FORMAT SUMMARY

Arrestee Enrollment Format (AEF) messages enable the exchange of data between the booking agency system and the rapid DNA instrument. AEF messages are sent to the rapid DNA instrument in order to provide information about the arrestee needed to enroll the DNA profile in the CODIS database. This information is referred to as arrestee metadata within the CRE application. Arrestee metadata does not include any DNA information.

The AEF interface specification defines the packaging of information for processing by the rapid DNA instrument. The AEF message format is based on the XML industry standard. This industry standard is already in use by other CODIS functionality, and the format specific to arrestee enrollment messages is based on the format used for specimen imports and specimen enrollment requests.

Each AEF message corresponds to a single subject being processed for arrest and from whom an arrestee DNA sample is collected for CODIS enrollment. An AEF message has the following general format:

Message Header
Arrestee

Table 3-1 AEF Format

The Message Header contains the following information:

- Message Version
- Message Type
- Message ID
- Message Date/Time
- Message Creator User ID
- Destination ORI
- Source ORI
- Alternate Source ORI – an Alternate Source ORI could be used when the booking agency is not the arresting agency

An arrestee should have the following characteristics for submission in the message to the rapid DNA instrument:

- State Identification Number (SID)
- Universal Control Number (UCN)
- Livescan Unique Event Identifier
- Booking Agency Configurable Identifier
- Arresting Agency Configurable Identifier
- Arrest Submission Date
- Fingerprint Capture Date and Time
- Arrest Offense Description

3.1 Data Types

Data types referred to in this document are defined by the World Wide Web Consortium (W3C).

Datetime: Represents a specific instance of time in a subset of the ISO 8601 format. The pattern for dateTime is CCYY-MM-DDThh:mm:ss where CC represents the century, YY the year, MM the month, and DD the day, preceded by an optional leading negative (-) character to indicate a negative number. If the negative character is omitted, positive (+) is assumed. The T is the date/time separator and hh, mm, and ss represent hour, minute, and second respectively. Additional digits can be used to increase the precision of fractional seconds if desired. For example, the format ss.ss... with any number of digits after the decimal

point is supported. The fractional seconds' part is optional. CODIS does not support the use of time zones. All time should be reported using local time and no time zone should be specified.

Decimal: Represents arbitrary precision numbers.

Integer: Represents whole numbers without any fractional value.

String: Represents character strings. Character data consists of any combination of letters, symbols, and numeric characters.

Parsing Instructions: Certain characters in XML have a specific meaning to parsers, such as < and >. If any data in the file uses these special characters, a character reference string must be used for the parser to correctly interpret the character. The following table lists character reference strings:

Character Reference String	Resultant Character
&	&
>	>
<	<
'	‘
"	“

Table 3-2 Character Reference Strings

3.2 Security

While rapid DNA technology and capabilities will be a great advantage to criminal justice personnel, it could create a security management challenge. The small size, large storage capacity, and network connectivity of these devices make unprotected rapid DNA instruments susceptible to loss, theft and potential misuse, and possibly a target for unauthorized access to information or databases. As a result, unsecured instruments can pose a risk to any criminal justice network that the instrument can access. In order to adequately secure the instrument from misuse or attack and to meet regulatory standards and requirements, agencies must develop device security policies based on the implementation approach for communicating between the booking agency IT system and the rapid DNA instrument. These policies should include measures regarding authentication, data expungement, encryption, application launch controls, and instrument feature disablement. Data sent from the booking agency system to the rapid DNA instrument must be securely transmitted to protect confidentiality and integrity regardless of the implementation approach. Please refer to *NIST Mobile ID Best Practices* and *CJIS Security Policy* (https://www.fbi.gov/about-us/cjis/cjis-security-policy-resource-center/view) for further security considerations.

Security updates to Rapid DNA devices should coincide with security policy changes or security software updates to booking agency systems.

3.2.1 Authentication and Authorization

The rapid DNA instrument will provide the capability for an operator to authenticate his/her identity as well as establishing authorization levels for that person based on a two-factor authentication, one of which should be a biometric.

The rapid DNA instrument should provide biometric operator authentication and a password of minimum length with alphabetical /numeric/special characters.

The rapid DNA instrument should provide the capability for operator re-authentication after a designated length of time.

The rapid DNA instrument should provide the capability for operator re-authentication and the instrument should re-authenticate itself after a designated amount of idle time or result in an instrument shut-off.

The rapid DNA instrument should provide the capability to lock the instrument or render the instrument inoperable, erase selected files, and/or erase all files on the instrument based on failed security protocols.

The rapid DNA instrument should provide the capability to establish a maximum limit of failed authentication attempts before the instrument requires unlock only by an IT administrator.

The data authentication algorithm used shall be RSA-2048 as defined by FIPS-186-3 2006 (DSS). The Secure Hash Function the signature will be evaluated over shall be SHA-256, as defined by FIPS-180-2. The provisioning of certificates, root certificates, and private keys shall remain outside the scope of this standard.

3.2.2 Data at Rest

The rapid DNA instrument shall at a minimum provide the capability to encrypt all data residing on the instrument either as a temporary file or a part of a database in a manner to meet the FIPS 140-2 Type-1 requirements. Such encryption software shall be FIPS 140-2 certified or equivalent.

3.3 File Format

The AEF message, coded in XML, contains information about the arrestee being processed for DNA. The AEF message consists of an AEF Message Header and arrestee data for a single subject structured in the format listed below. For readability in this document, the format shown below does not include the actual XML syntax. Tabs, carriage returns, and blanks may be inserted at the beginning or end of any line to improve readability. A carriage return and line feed character are at the end of each line in the AEF message to allow easy viewing in text editors such as Microsoft Notepad. Microsoft Internet Explorer can also be used to view AEF messages. Comments may be included in the message following the XML comment syntax. See *Appendix A* for an example AEF message. *Appendix B* includes the XML Schema Definition (XSD) document used in interpreting and validating the XML message. Please refer to the FBI Electronic Biometric Transmission Specification (EBTS) for more information: https://www.fbibiospecs.cjis.gov/ebts/Approved.

Message Header:
Message Version (1.0 decimal, required)
Message Type (Arrestee Enrollment, maximum 32 characters, required)
Message ID (integer, value greater than 0, required)
Message Date/Time (datetime, CCYY-MM-DDThh:mm:ss, required)
Message Creator User ID (maximum 20 characters, required)
Destination ORI (maximum 10 characters, required) (EBTS 1.008)
Source ORI (maximum 10 characters, required) (EBTS 1.008)
Alternate Source ORI (maximum 10 characters, optional) (EBTS 2.073)

Arrestee:
SID (maximum 32 characters, required for State and Local Arrests) (EBTS 2.015)
UCN (maximum 9 characters, required for Federal Arrests) (EBTS 2.014)
Livescan Unique Event Identifier (maximum 32 characters, required)
Booking Agency Configurable Identifier (maximum 32 characters, optional)
Arresting Agency Configurable Identifier (maximum 32 characters, optional)
Arrest Submission Date (datetime, CCYY-MM-DDThh:mm:ss, optional) (EBTS 1.014)
Fingerprint Capture Date and Time (datetime, CCYY-MM-DDThh:mm:ss, required) (EBTS 2.038)
Arrest Offense Description (maximum 300 characters, required) (EBTS 2.047B)

4.0 AEF FIELDS

4.1 Field Descriptions

The following table describes both the required and optional fields used in AEF messages.

Field	Description
Message Header Fields	
Message Version	Used to specify the version of the message being created. The currently valid message version is "1.0". As requirements change, newer versions/formats of the AEF message will be used. This field is required.
Message Type	The only valid message type is “Arrestee Enrollment” when sending an arrestee enrollment message from the booking agency system to the rapid DNA instrument. This field is required.
Message ID	The message ID is a sequential integer value that is necessary for submission to the rapid DNA instrument to identify the message for each arrestee for internal diagnostics. Booking agency system vendors should increment this value by one each time a new AEF message is generated. The message ID is not stored in the CODIS database. This field is required.
Message Date/Time	The date/time for when the message was created by the booking agency system. This field is required.
Message Creator User ID	The user ID of the person operating the fingerprint capture device that triggered the booking agency system to generate this message. This user is associated to the agency identified by the Source ORI. The operator of the fingerprint capture device will typically work at the same source agency that is using the rapid DNA instrument. It is assumed that each operator of the fingerprint capture device will be linked to a unique user ID at the source agency. This field is required.
Destination ORI	Originating Agency Identifier (ORI) for the “destination” booking agency that will operate the rapid DNA instrument and process the AEF message. This ORI corresponds to the booking agency using a rapid DNA instrument to process a subject. Typically, the Source ORI and the Destination ORI are expected to be the same value since both the fingerprint capture device and the rapid DNA instrument will be at the same agency. This field is required. Refer to EBTS 1.008.

Source ORI	The ORI for the booking agency that is processing the arrestee. Typically, the Source ORI and the Destination ORI are expected to be the same value since both the fingerprint capture device and the rapid DNA instrument will be located at the same agency that is processing the arrestee. This field is required. Refer to EBTS 1.008.
Alternate Source ORI	The ORI for the arresting agency that needs to be notified if a CODIS hit occurs to a crime of special concern. During the booking process of the arrestee, the booking agency will need to identify if a different arresting agency needs to receive an unsolicited DNA notification (UDN) message. This field is optional. No value needs to be specified for this field for law enforcement agencies that do not routinely process arrestees for a different law enforcement agency. If the field is not specified, no UDN message needs to be sent to an arresting agency. To ensure proper notification, the ORI specified for this field should be different than the destination ORI and the source ORI. Refer to EBTS 2.073.
Arrestee Fields	
SID	An identification number assigned to link fingerprints and criminal records of arrest and prosecution. Domestic law enforcement agencies are limited to a maximum of 10 characters. Law enforcement agencies operating outside of the United States (not participating in the FBI CODIS National DNA database) that are establishing a rapid DNA capability may use a SID value greater than 10 characters. This field is required for State and Local Arrestees and optional for Federal Arrestees. Without the SID, the rapid DNA instrument will not permit the DNA sample from the State and Local Arrestee to be processed. Refer to EBTS 2.015.
UCN	A unique number assigned as a reference by the FBI Next Generation Identification (NGI) System to provide identity management which involves linking records from the civil, criminal and other new repositories. This field is required for Federal Arrestees and optional for State and Local Arrestees. Without the UCN, the rapid DNA instrument will not permit the DNA sample from the Federal Arrestee to be processed. Refer to EBTS 2.014.

Livescan Unique Event Identifier	The purpose of the unique event identifier is to connect the arrest record created when fingerprints were taken to the DNA profile taken from the arrestee being processed. This value supports determining the qualifying offense for the arrest event that caused the DNA sample to be processed. This value is used to uniquely identify a specific enrollment event during fingerprint processing. This value is a primary key to tie the LiveScan arrest event generated by the submitting agency when enrolling in the state criminal history database. States may use different terms for this value that refers to the unique identifier used to link an arrestee to a specific enrollment event within their state AFIS. For example, the state of Louisiana uses the term "Arrestee Transaction Number (ATN)" for this value that links an arrestee to a fingerprint transaction within the state's computerized criminal history (CCH) repository. Law enforcement agencies participating in rapid DNA specimen enrollment will determine how this value should be populated. This field is required.
Booking Agency Configurable Identifier	An identifier used for specific booking agency purposes. Law enforcement booking agencies will determine if and how this value will be provided. For example, this field could be used to transmit a state specific transaction number or an identifier used to track arrestees within the local booking agency. This field could be used to link the arrestee to the local law enforcement agency biographic and biometric systems. This field is optional.
Arresting Agency Configurable Identifier	An identifier used for specific arresting agency purposes. Law enforcement arresting agencies will determine if and how this value will be provided. For example, this field could be used to record the arrest/incident number when an arrestee is booked by a different law enforcement agency. This field is optional.
Arrest Submission Date	The local date that a Subject was arrested, CCYY-MM-DDThh:mm:ss format. This field is optional. Refer to EBTS 1.014
Fingerprint Capture Date and Time	The local date and time that a Subject was processed for fingerprints in CCYY-MM-DDThh:mm:ss format. This field is required. Refer to EBTS 2.038.

Arrest Offense Description	The text based description of the offense related to the cause of arrest/detention. This field is required. Refer to EBTS 2.047B.

Table 4-1 AEF Field Descriptions

4.2 Message Header Fields

The following table lists details for the fields in the AEF message header. The XML Tag/Attribute column identifies the field within the XML AEF message. The Cardinality column describes the minimum and maximum number of times each field can occur.

Field	Format	XML Tag/Attribute	Cardinality
Message Version	Decimal having 3 digits, one being fractional.	MESSAGEVERSION	(1,1)
Message Type	Up to 32 characters.	MESSAGETYPE	(1,1)
Message ID	Integer value greater than 0.	MESSAGEID	(1,1)
Message Date/Time	CCYY-MM-DDThh:mm:ss	MESSAGEDATETIME	(1,1)
Message Creator User ID	Up to 20 characters.	MSGCREATORUSERID	(1,1)
Destination ORI	Up to 10 characters.	DESTINATIONORI	(1,1)
Source ORI	Up to 10 characters.	SOURCEORI	(1,1)
Alternate Source ORI	Up to 10 characters.	ALTSOURCEORI	(0,1)

Table 4-2 Message Header Fields

4.3 Arrestee Fields

The following table lists details for the fields defining an arrestee. AEF messages are limited to a single arrestee. The AEF message is only sent to the rapid DNA instrument if the fingerprints for arrestee were successfully enrolled in the state identification bureau or the Federal Fingerprint File. All arrestees must have either a State Identification (SID) number or an FBI Universal Control Number (UCN). If neither the SID nor the UCN are provided in the AEF, then the rapid DNA instrument will return an error code response to the booking agency system and the DNA sample will not be processed for the arrestee.

Field	Format	XML Tag/Attribute	Cardinality
SID	Up to 32 characters.	SID	(0,1)
UCN	Up to 9 characters.	FBI_NUMBER_UCN	(0,1)
Livescan Unique Event Identifier	Up to 32 characters.	UNIQUEEVENTID	(1,1)
Booking Agency Configurable Identifier	Up to 32 characters.	BOOKINGCUSTOMID	(0,1)
Arresting Agency Configurable Identifier	Up to 32 characters.	ARRESTINGCUSTOMID	(0,1)
Arrest Submission Date	CCYY-MM-DDThh:mm:ss	ARRESTDATE	(0,1)
Fingerprint Capture Date and Time	CCYY-MM-DDThh:mm:ss	FINGERPRINTDATE	(1,1)
Arrest Offense Description	Up to 300 characters.	ARRESTOFFENSECATEGORY	(1,1)

Table 4-3 Arrestee Fields

5.0 SPECIAL PROCESSING INSTRUCTIONS

Booking agency system vendors should adhere to following rules when generating the AEF file:

1. Do not pad fields by adding extra characters or blank spaces to reach the maximum field length.
2. Do not add unnecessary whitespace when generating the file.
3. Do not include a time zone for date fields. Use local time for date fields.
4. Do not include unprintable characters within text fields.
5. Do not include empty elements. Optional elements with no value should be omitted from the file.

6.0 VALIDATION

The rapid DNA instrument validates the format of the AEF file. Contractors using an XML Validator can also validate the format of the AEF message without having to use a rapid DNA instrument. Please email RapidDNA@fbi.gov for any questions related to the AEF message validation.

Appendix A. Example Arrestee Enrollment Format Message

An example of an Arrestee Enrollment Format (AEF) message follows:

```
<?xml version="1.0" encoding="utf-8"?>
<CODISArresteeEnrollment xmlns="urn:CODISArresteeEnrollment-schema">
   <MESSAGEHEADER>
      <MESSAGEVERSION>1.0</MESSAGEVERSION>
      <MESSAGETYPE>Arrestee Enrollment</MESSAGETYPE>
      <MESSAGEID>1</MESSAGEID>
      <MESSAGEDATETIME>2017-07-21T20:44:56</MESSAGEDATETIME>
      <MSGCREATORUSERID>UserA</MSGCREATORUSERID>
      <DESTINATIONORI>FL1234567</DESTINATIONORI>
      <SOURCEORI>FL1234567</SOURCEORI>
      <ALTSOURCEORI>FL123456X</ALTSOURCEORI>
   </MESSAGEHEADER>
   <ARRESTEE>
      <SID>FL01234567</SID>
      <FBI_NUMBER_UCN>012345678</FBI_NUMBER_UCN>
      <UNIQUEEVENTID>20170721001</UNIQUEEVENTID>
      <BOOKINGCUSTOMID>FLXYZ001</BOOKINGCUSTOMID>
      <ARRESTINGCUSTOMID>FLABC002</ARRESTINGCUSTOMID>
      <ARRESTDATE>2017-07-21T20:30:44</ARRESTDATE>
      <FINGERPRINTDATE>2017-07-21T20:44:12</FINGERPRINTDATE>
      <ARRESTOFFENSECATEGORY>Robbery-Firearm</ARRESTOFFENSECATEGORY>
   </ARRESTEE>
</CODISArresteeEnrollment>
```

Appendix B. Arrestee Enrollment Format XSD File

The Arrestee Enrollment Format XSD file used for message validation follows:

```
<schema xmlns="http://www.w3.org/2001/XMLSchema"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xmlns:rapid="urn:CODISArresteeEnrollment-schema"
        targetNamespace="urn:CODISArresteeEnrollment-schema"
        elementFormDefault="qualified"
        xmlns:r="urn:CODISArresteeEnrollment-schema">
   <element name="CODISArresteeEnrollment">
      <complexType>
         <sequence id="SeqArresteeEnrollment" minOccurs="1" maxOccurs="1" >
            <element name="MESSAGEHEADER" type="rapid:MessageHeaderType"
minOccurs="1" maxOccurs="1" />
            <element name="ARRESTEE" type="rapid:RapidArresteeType" minOccurs="1"
maxOccurs="1" >
            </element>
         </sequence>
      </complexType>
   </element>
   <simpleType name="CODISMessageVersionType">
      <restriction base="decimal">
         <totalDigits value="3" />
         <fractionDigits value="1" />
      </restriction>
   </simpleType>
   <simpleType name="CODISMessageType">
      <restriction base="string">
         <maxLength value="32" />
         <minLength value="1" />
         <enumeration value="Arrestee Enrollment" />
      </restriction>
   </simpleType>
   <simpleType name="CODISMessageIDType">
      <restriction base="integer">
         <minInclusive value="1"></minInclusive>
      </restriction>
   </simpleType>
   <simpleType name="CODISDate">
      <restriction base="dateTime">
         <minInclusive value="1900-01-01T00:00:00" />
         <maxInclusive value="9999-12-31T00:00:00" />
      </restriction>
   </simpleType>
   <simpleType name="CODISORIType">
      <restriction base="string">
         <maxLength value="10" />
         <minLength value="1" />
      </restriction>
   </simpleType>
   <simpleType name="CODISUserIDType">
      <restriction base="string">
         <maxLength value="20" />
         <minLength value="1" />
      </restriction>
```

```
   </simpleType>
   <simpleType name="FBINumberUCNType">
      <restriction base="string">
         <maxLength value="9" />
         <minLength value="0" />
      </restriction>
   </simpleType>
   <simpleType name="SIDType">
      <restriction base="string">
         <maxLength value="32" />
         <minLength value="0" />
      </restriction>
   </simpleType>
   <simpleType name="UniqueEventIDType">
      <restriction base="string">
         <maxLength value="32" />
         <minLength value="0" />
      </restriction>
   </simpleType>
   <simpleType name="CustomIDType">
      <restriction base="string">
         <maxLength value="32" />
         <minLength value="0" />
      </restriction>
   </simpleType>
   <simpleType name="OffenseCategoryType">
      <restriction base="string">
         <maxLength value="300" />
         <minLength value="0" />
      </restriction>
   </simpleType>
   <complexType name="MessageHeaderType">
         <sequence id="SeqMessageHeader" minOccurs="1" maxOccurs="1" >
            <element name="MESSAGEVERSION" type="rapid:CODISMessageVersionType"
minOccurs="1" maxOccurs="1" />
            <element name="MESSAGETYPE" type="rapid:CODISMessageType"
minOccurs="1" maxOccurs="1" />
            <element name="MESSAGEID" type="rapid:CODISMessageIDType"
minOccurs="1" maxOccurs="1" />
            <element name="MESSAGEDATETIME" type="rapid:CODISDate" minOccurs="1"
maxOccurs="1" />
            <element name="MSGCREATORUSERID" type="rapid:CODISUserIDType"
minOccurs="1" maxOccurs="1" />
            <element name="DESTINATIONORI" type="rapid:CODISORIType" minOccurs="1"
maxOccurs="1" />
            <element name="SOURCEORI" type="rapid:CODISORIType" minOccurs="1"
maxOccurs="1" />
            <element name="ALTSOURCEORI" type="rapid:CODISORIType" minOccurs="0"
maxOccurs="1" />
         </sequence>
   </complexType>
   <complexType name="RapidArresteeType">
      <sequence id="SeqArrestee" minOccurs="1" maxOccurs="1">
         <element name="SID" type="rapid:SIDType" minOccurs="0" maxOccurs="1" />
         <element name="FBI_NUMBER_UCN" type="rapid:FBINumberUCNType"
minOccurs="0" maxOccurs="1" />
         <element name="UNIQUEEVENTID" type="rapid:UniqueEventIDType"
minOccurs="1" maxOccurs="1" />
```

```
         <element name="BOOKINGCUSTOMID" type="rapid:CustomIDType" minOccurs="0"
maxOccurs="1" />
         <element name="ARRESTINGCUSTOMID" type="rapid:CustomIDType" minOccurs="0"
maxOccurs="1" />
         <element name="ARRESTDATE" type="rapid:CODISDate" minOccurs="0"
maxOccurs="1" />
         <element name="FINGERPRINTDATE" type="rapid:CODISDate" minOccurs="1"
maxOccurs="1" />
         <element name="ARRESTOFFENSECATEGORY" type="rapid:OffenseCategoryType"
minOccurs="1" maxOccurs="1" />
      </sequence>
   </complexType>
</schema>
```