



Alabama

Electronic Title Application Processing System (ETAPS)

ETAPS Dealer Interface Documentation

Current Version

Version 0.7

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Revision History

Date	Version	Description	Author
7/17/2007	0.2	Updated Urls	rstarks
5/15/2008	0.3	Updated Field Lengths	rstarks
5/16/2008	0.4	Update zip code field length	Sdyer
7/27/2008	0.5	Updated submission string to include dealer inventory date.	rstarks
8/12/2008	0.6	Updated naming for Version 1 and Version 2	sdyer
10/11/2011	0.7	Updated branding and changed formatting for clarity	aferguson



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Dealer Interface Overview

The ETAPS Dealer interface will enable the dealers to leverage data captured in the dealer management system so as to avoid having to reenter the information into the ETAPS system.



Transaction Types

Dealers will interface with ETAPS to perform 01 trans code: with *MCO or Out of State title* as the supporting documents or 03 trans code: with an *Alabama title* as the supporting document.

All other transactions such as add lien, delete lien, replace title or correct title will be completed entirely within ETAPS without interfacing with the dealer system.

Interface Process

An interface string (XML string) will be created by the dealer's system. The dealer interface will use either the VIN or the Alabama title number to query the ETAPS system. The string will be validated against the ETAPS shadow database.

Based on the primary document type, the ETAPS system will establish a transaction type of 01 if the primary document is an MCO or OOS title or a transaction type of 03 if the primary document is an AL title number. Any non-required data that is not passed from the dealer system or that is passed incorrectly must be input by the user in the user interface (UI).

If the AL title number and/or VIN does not provide all vehicle information, the dealer will be required to enter all missing data required to complete the application.

If a record is found, ETAPS will pre-populate the UI. If multiple records are found, the interface will return the record with the latest update date (if VIN was used for the search) or the latest issue date (if the Alabama title number was used for the search).

If a record is not found, an error is sent back to the dealer and the process ends.

Data Format

Customer, Operator, and Seller data sent in the xml string must follow the same protocol as if it was being entered directly into the user screens by a DA.

For example, customer information, such as Owner, if the customer is an individual the name should be sent in the following format - LAST FIRST MIDDLE for example:

John Edward Smith would be sent as SMITH JOHN EDWARD

Login Security

The XML string can contain the user information thereby logging the user into the specified web page on the ETAPS site. If it does not contain the login information, the user will be directed to a dealer login page. Once the user is logged in, the process will continue.

Technical Details

- ETAPS will have a web page that will accept incoming form posts. The post to this page will include an XML-formatted string stored in a form variable. This page will then process the request accordingly.
- The ETAPS test web page is located at:

<http://etaps.crdl.ua.edu/title/DealerTitle/DealerTitle.aspx>



User Credentials:

Username: DA<space>User
Password: password

The ETAPS production web page (to be used when testing is complete and you are ready to go-live) is located at:

<https://etaps.mvtrip.alabama.gov/title/DealerTitle/DealerTitle.aspx>

***Note: This has been updated from the standard http protocol to now use https and SSL.**

The form variable name used to post to the ETAPS dealer title page is **XMLDATA**

It is recommended that the Operating system be Windows XP or later

It is recommended that the browser be Internet explorer 6.0.2800.1106 with SP1 or later

When using XML, the “&” symbol must be sent as follows:

If the name of the seller, owner, operator, or lien holder is “A & B Sales”, it should be sent in the string as:

A & B Sales

When submitting the XML string some of the fields are limited in size. If the size is exceeded they will be truncated. Please refer to the [Field Lengths](#) section for more information.

User passwords will expire every 90 days.

XML Specification—Submission

NOTE: The `type="string"` identifier can be omitted from submission string.

Current Version

```
<DealerData>
  <UserAuthentication>
    <userName type="string"></userName>
    <userPassword type="string"></userPassword>
  </UserAuthentication>
  <MinimumData>
    <PrimarySupportingDocumentTypeID type="string"></PrimarySupportingDocumentTypeID>
    <VIN type="string"></VIN>
    <AlabamaTitleNumber type="string"></AlabamaTitleNumber>
  </MinimumData>
  <TitleApplication>
    <VehicleColor1ID type="string"></VehicleColor1ID>
    <VehicleColor2ID type="string"></VehicleColor2ID>
    <VehicleBodyStyleID type="string"></VehicleBodyStyleID>
    <VehicleOdometerReadingTypeID type="string"></VehicleOdometerReadingTypeID>
    <VehicleOdometerReading type="string"></VehicleOdometerReading>
    <VehicleOdometerUnitTypeID type="string"></VehicleOdometerUnitTypeID>
    <PurchasedDate type="string"></PurchasedDate>
    <DealerInventoryDate type="string"></DealerInventoryDate>
    <GrossSellingPrice type="string"></GrossSellingPrice>
```



```
<TradeInAllowance type="string"></TradeInAllowance>
<OOSDocumentTitleNumber type="string"></OOSDocumentTitleNumber>
<OOSDocumentTitleDate type="string"></OOSDocumentTitleDate>
<OOSDocumentTitleState type="string"></OOSDocumentTitleState>
<OwnerName type="string"></OwnerName>
<OwnerAddress type="string"></OwnerAddress>
<OwnerCity type="string"></OwnerCity>
<OwnerState type="string"></OwnerState>
<OwnerZip type="string"></OwnerZip>
<OperatorName type="string"></OperatorName>
<OperatorAddress type="string"></OperatorAddress>
<OperatorCity type="string"></OperatorCity>
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<OperatorZip type="string"></OperatorZip>
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<SellerCity type="string"></SellerCity>
<SellerState type="string"></SellerState>
<SellerZip type="string"></SellerZip>
<LicenseType type="string"></LicenseType>
<LicenseNumber type="string"></LicenseNumber>
<SalesRentalTaxNumber type="string"></SalesRentalTaxNumber>
<LienHolder1Name type="string"></LienHolder1Name>
<LienHolder1Address type="string"></LienHolder1Address>
<LienHolder1City type="string"></LienHolder1City>
<LienHolder1State type="string"></LienHolder1State>
<LienHolder1Zip type="string"></LienHolder1Zip>
<LienHolder1Date type="string"></LienHolder1Date>
<LienHolder2Name type="string"></LienHolder2Name>
<LienHolder2Address type="string"></LienHolder2Address>
<LienHolder2City type="string"></LienHolder2City>
<LienHolder2State type="string"></LienHolder2State>
<LienHolder2Zip type="string"></LienHolder2Zip>
<LienHolder2Date type="string"></LienHolder2Date>
</TitleApplication>
</DealerData>
```

Previous Version (Optional Use)

```
<DealerData>
  <UserAuthentication>
    <userName type="string"></userName>
    <userPassword type="string"></userPassword>
  </UserAuthentication>
  <MinimumData>
    <PrimarySupportingDocumentTypeID type="string"></PrimarySupportingDocumentTypeID>
    <VIN type="string"></VIN>
    <AlabamaTitleNumber type="string"></AlabamaTitleNumber>
  </MinimumData>
  <TitleApplication>
    <VehicleColor1ID type="string"></VehicleColor1ID>
    <VehicleColor2ID type="string"></VehicleColor2ID>
    <VehicleBodyStyleID type="string"></VehicleBodyStyleID>
    <VehicleOdometerReadingTypeID type="string"></VehicleOdometerReadingTypeID>
    <VehicleOdometerReading type="string"></VehicleOdometerReading>
    <VehicleOdometerUnitTypeID type="string"></VehicleOdometerUnitTypeID>
    <PurchasedDate type="string"></PurchasedDate>
  </TitleApplication>
</DealerData>
```



```
<GrossSellingPrice type="string"></GrossSellingPrice>
<TradeInAllowance type="string"></TradeInAllowance>
<OOSDocumentTitleNumber type="string"></OOSDocumentTitleNumber>
<OOSDocumentTitleDate type="string"></OOSDocumentTitleDate>
<OOSDocumentTitleState type="string"></OOSDocumentTitleState>
<OwnerName type="string"></OwnerName>
<OwnerAddress type="string"></OwnerAddress>
<OwnerCity type="string"></OwnerCity>
<OwnerState type="string"></OwnerState>
<OwnerZip type="string"></OwnerZip>
<OperatorName type="string"></OperatorName>
<OperatorAddress type="string"></OperatorAddress>
<OperatorCity type="string"></OperatorCity>
<OperatorState type="string"></OperatorState>
<OperatorZip type="string"></OperatorZip>
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<SpecialMailingAddress type="string"></SpecialMailingAddress>
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<SpecialMailingState type="string"></SpecialMailingState>
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<SellerName type="string"></SellerName>
<SellerAddress type="string"></SellerAddress>
<SellerCity type="string"></SellerCity>
<SellerState type="string"></SellerState>
<SellerZip type="string"></SellerZip>
<LicenseType type="string"></LicenseType>
<LicenseNumber type="string"></LicenseNumber>
<SalesRentalTaxNumber type="string"></SalesRentalTaxNumber>
<LienHolder1Name type="string"></LienHolder1Name>
<LienHolder1Address type="string"></LienHolder1Address>
<LienHolder1City type="string"></LienHolder1City>
<LienHolder1State type="string"></LienHolder1State>
<LienHolder1Zip type="string"></LienHolder1Zip>
<LienHolder1Date type="string"></LienHolder1Date>
<LienHolder2Name type="string"></LienHolder2Name>
<LienHolder2Address type="string"></LienHolder2Address>
<LienHolder2City type="string"></LienHolder2City>
<LienHolder2State type="string"></LienHolder2State>
<LienHolder2Zip type="string"></LienHolder2Zip>
<LienHolder2Date type="string"></LienHolder2Date>
</TitleApplication>
</DealerData>
```

Error Messages

The following error messages could occur with the dealer interface. The information below shows each possible error message and the action that should be taken to correct the problem.

Invalid User: Authentication failed please supply valid authentication credentials

User credentials are invalid. Supply proper user credentials in the XML string and rerun request.

Invalid XML Data: VIN could not be found

VIN number could not be found. The VIN is required information. Enter a VIN and rerun request.

Invalid XML file: Please check file and ensure it is a valid XML file

The XML string passed to the web page is not formatted properly. Check the XML string and



ensure it complies with the XML spec for the dealer interface.

Invalid XML Data: Alabama Title Number could not be found

The Alabama title number could not be found. The Alabama title number is required information. Enter a Alabama title number and rerun request.

Invalid Document Type: The required primary document type is invalid

The primary document type is invalid. Enter a valid primary document type code and rerun request.

Invalid XML Data: VIN must be no longer than 20 characters

Invalid VIN. The VIN must be no longer than 20 characters. Enter a valid VIN in the XML string and rerun request.

Invalid XML Data: Primary Document Type could not be found

The primary document type could not be found. Enter a valid primary document type in the XML string and rerun request.

ETAPS Controlled Values

The following tables should be used for creating the controlled values for Document type, Body Style, Color, Odometer Reading Type, Unit Type, and State Codes. Only these values will be accepted. The XML file should only include the Code.

Vehicle Color	
Code	Color
1	Beige
2	Black
3	Blue
4	Dark Blue
5	Light Blue
6	Bronze
7	Brown
8	Copper
9	Cream or Ivory
10	Gold
11	Green
12	Dark Green
13	Light Green
14	Gray
15	Lavender



16	Maroon
17	Orange
18	Pink
19	Purple
20	Red
21	Silver
22	Tan
23	Turquoise
24	White
25	Yellow

Primary Document Type	
Code	Document Type
TL	Out of State Title
AL	Alabama Title
MS	Manufacturers Certificate of Origin

Vehicle Body Style Codes	
Code	Body Style Description
1	2 Door
2	4 Door
3	Ambulance - Hearse
4	Convertible
5	Coupe
6	Limousine
7	Station Wagon
8	Bus
9	Fire Trucks
10	Manufactured Homes
11	Motorcycles
12	Trailer
13	Travel Trailer
14	Utility Trailer
15	Van
16	Sport Utility Vehicle
18	Armored Car
20	Car Carrier
23	Chassis and Cab



24	Concrete Mixer
26	Dump
29	Garbage
34	Pickup
36	Recreational Vehicle
38	Tank Truck
39	Tractor
40	Wrecker Tow Car

Odometer Reading Type	
Code	Odometer Type Description
71	Actual
75	Exempt From Odometer Disclosure
72	Exceeds Mechanical Limits
78	Digital Unreadable
73	Not Actual Mileage

Unit Type	
Code	Unit Type
Miles	Miles
Kilometers	Kilometers

State Codes	
Code	State
AA	Armed Forces Americas
AB	Alberta
AE	Armed Forces Europe
AK	Alaska
AL	Alabama
AP	Armed Forces Pacific
AR	Arkansas
AS	American Samoa
AZ	Arizona
BC	British Columbia
CA	California
CO	Colorado
CT	Connecticut
DC	District of Columbia



DE	Delaware
FL	Florida
GA	Georgia
GU	Guam
HI	Hawaii
IA	Iowa
ID	Idaho
IL	Illinois
IN	Indiana
KS	Kansas
KY	Kentucky
LA	Louisiana
LB	Labrador
MA	Massachusetts
MB	Manitoba
MD	Maryland
ME	Maine
MH	Marshall Islands
MI	Michigan
MN	Minnesota
MO	Missouri
MP	Northern Mariana Islands
MS	Mississippi
MT	Montana
NB	New Brunswick
NC	North Carolina
ND	North Dakota
NE	Nebraska
NF	Newfoundland
NH	New Hampshire
NJ	New Jersey
NM	New Mexico
NS	Nova Scotia
NT	Northwest Territories
NV	Nevada
NY	New York
OH	Ohio
OK	Oklahoma
ON	Ontario
OR	Oregon
PA	Pennsylvania
PE	Prince Edward Island
PQ	Quebec
PR	Puerto Rico
PW	Palau
PZ	Canal Zone
RI	Rhode Island
SC	South Carolina



SD	South Dakota
SK	Saskatchewan
TN	Tennessee
TX	Texas
UT	Utah
VA	Virginia
VI	Virgin Islands
VT	Vermont
WA	Washington
WI	Wisconsin
WK	Wake Island
WV	West Virginia
WY	Wyoming
YT	Yukon Territory

License Type Codes	
Code	Odometer Type Description
1	Regulatory (539)
2	Motorcycle License (62)
3	Trailer License (169)

Field Lengths

When submitting an XML string, please be sure to adhere to the field lengths; if the field is too long it will be truncated. Below is a list of the fields that are part of the XML string with their associated lengths.

Recently updated field lengths are highlighted.

PRIMARY-SUPPORTING-DOCUMENT TYPE	02
AL-TITLE-NUMBER	08
VIN	20
VEH-BODY-STYLE-ID	02
VEH-COLOR ID	02
CYLINDERS	02
PURCHASE-DATE (format mm/dd/yyyy)	10
DEALER INVENTORY DATE (format mm/dd/yyyy)	10
ODOMETER READING TYPE ID	02
ODOMETER READING	07



ODOMETER UNIT TYPE	10
OOS DOCUMENT TITLE STATE	02
OOS DOCUMENT TITLE DATE (format mm/dd/yyyy)	10
OOS DOCUMENT TITLE NUMBER	17
OWNER-NAME	55
OWNER-ADDRESS	40
OWNER-CITY	22
OWNER-STATE	02
OWNER-ZIP	5
OPERATOR-NAME	55
OPERATOR-ADDRESS	40
OPERATOR-CITY	22
OPERATOR-STATE	02
OPERATOR-ZIP	05
SELLER-NAME	55
SELLER-ADDRESS	50
SELLER-CITY	20
SELLER-STATE	02
SELLER-ZIP	05
GROSS SELLING PRICE	19
TRADE IN ALLOWANCE	19
LIEN1-DATE (format mm/dd/yyyy)	10
LIENHOLDER1-NAME	55
LIENHOLDER1-ADDRESS	40
LIENHOLDER1-CITY	22
LIENHOLDER1-STATE	02
LIENHOLDER1-ZIP	5
LIEN2-DATE (format mm/dd/yyyy)	10
LIENHOLDER2-NAME	55
LIENHOLDER2-ADDRESS	40
LIENHOLDER2-CITY	22
LIENHOLDER2-STATE	02
LIENHOLDER2-ZIP	05
SPECIAL-MAILING-NAME	55
SPECIAL-MAILING-ADDRESS	40
SPECIAL-MAILING-CITY	22
SPECIAL-MAILING-STATE	02
SPECIAL-MAILING-ZIP	05



Sample XML

Sample 1

```
<DealerData>
  <UserAuthentication>
    <userName>johnDoe</userName>
    <userPassword>password</userPassword>
  </UserAuthentication>
  <MinimumData>
    <PrimarySupportingDocumentTypeID>AL</PrimarySupportingDocumentTypeID>
    <VIN>123456789</VIN>
    <AlabamaTitleNumber> 12345678</AlabamaTitleNumber>
  </MinimumData>
  <TitleApplication>
    <VehicleColor1ID></VehicleColor1ID>
    <VehicleColor2ID></VehicleColor2ID>
    <VehicleBodyStyleID></VehicleBodyStyleID>
    <VehicleOdometerReadingTypeID>75</VehicleOdometerReadingTypeID>
    <VehicleOdometerReading></VehicleOdometerReading>
    <VehicleOdometerUnitTypeID>Miles</VehicleOdometerUnitTypeID>
    <PurchasedDate>2/02/2007</PurchasedDate>
    <GrossSellingPrice></GrossSellingPrice>
    <TradeInAllowance></TradeInAllowance>
    <OOSDocumentTitleNumber></OOSDocumentTitleNumber>
    <OOSDocumentTitleDate></OOSDocumentTitleDate>
    <OOSDocumentTitleState></OOSDocumentTitleState>
    <OwnerName>Jane Doe</OwnerName>
    <OwnerAddress>1234 Some Place</OwnerAddress>
    <OwnerCity>Tucson</OwnerCity>
    <OwnerState>AZ</OwnerState>
    <OwnerZip>85710</OwnerZip>
    <OperatorName>John Doe</OperatorName>
    <OperatorAddress>1234 Some Place</OperatorAddress>
    <OperatorCity>Tucson</OperatorCity>
    <OperatorState>AZ</OperatorState>
    <OperatorZip>85710</OperatorZip>
    <SpecialMailingName></SpecialMailingName>
    <SpecialMailingAddress></SpecialMailingAddress>
    <SpecialMailingCity></SpecialMailingCity>
    <SpecialMailingState></SpecialMailingState>
    <SpecialMailingZip></SpecialMailingZip>
    <SellerName>Some Guy</SellerName>
    <SellerAddress></SellerAddress>
    <SellerCity>Tucson</SellerCity>
    <SellerState>
    </SellerState>
    <SellerZip></SellerZip>
    <LicenseType>1</LicenseType>
    <LicenseNumber>123</LicenseNumber>
    <SalesRentalTaxNumber>123</SalesRentalTaxNumber>
    <LienHolder1Name></LienHolder1Name>
    <LienHolder1Address></LienHolder1Address>
    <LienHolder1City></LienHolder1City>
    <LienHolder1State></LienHolder1State>
    <LienHolder1Zip></LienHolder1Zip>
    <LienHolder1Date></LienHolder1Date>
  </TitleApplication>
</DealerData>
```



```
<LienHolder2Name></LienHolder2Name>
<LienHolder2Address></LienHolder2Address>
<LienHolder2City></LienHolder2City>
<LienHolder2State></LienHolder2State>
<LienHolder2Zip></LienHolder2Zip>
<LienHolder2Date></LienHolder2Date>
</TitleApplication>
</DealerData>
```

Sample 2

```
<DealerData>
  <UserAuthentication>
    <userName>johnDoe</userName>
    <userPassword>password</userPassword>
  </UserAuthentication>
  <MinimumData>
    <PrimarySupportingDocumentTypeID>AL</PrimarySupportingDocumentTypeID>
    <VIN>123456789</VIN>
    <AlabamaTitleNumber> 12345678</AlabamaTitleNumber>
  </MinimumData>
  <TitleApplication>
    <VehicleColor1ID></VehicleColor1ID>
    <VehicleColor2ID></VehicleColor2ID>
    <VehicleBodyStyleID></VehicleBodyStyleID>
    <VehicleOdometerReadingTypeID>75</VehicleOdometerReadingTypeID>
    <VehicleOdometerReading></VehicleOdometerReading>
    <VehicleOdometerUnitTypeID>Miles</VehicleOdometerUnitTypeID>
    <PurchasedDate>2/02/2007</PurchasedDate>
    <DealerInventoryDate>2/02/2007</DealerInventoryDate>
    <GrossSellingPrice></GrossSellingPrice>
    <TradeInAllowance></TradeInAllowance>
    <OOSDocumentTitleNumber></OOSDocumentTitleNumber>
    <OOSDocumentTitleDate></OOSDocumentTitleDate>
    <OOSDocumentTitleState></OOSDocumentTitleState>
    <OwnerName>Jane Doe</OwnerName>
    <OwnerAddress>1234 Some Place</OwnerAddress>
    <OwnerCity>Tucson</OwnerCity>
    <OwnerState>AZ</OwnerState>
    <OwnerZip>85710</OwnerZip>
    <OperatorName>John Doe</OperatorName>
    <OperatorAddress>1234 Some Place</OperatorAddress>
    <OperatorCity>Tucson</OperatorCity>
    <OperatorState>AZ</OperatorState>
    <OperatorZip>85710</OperatorZip>
    <SpecialMailingName></SpecialMailingName>
    <SpecialMailingAddress></SpecialMailingAddress>
    <SpecialMailingCity></SpecialMailingCity>
    <SpecialMailingState></SpecialMailingState>
    <SpecialMailingZip></SpecialMailingZip>
    <SellerName>Some Guy</SellerName>
    <SellerAddress></SellerAddress>
    <SellerCity>Tucson</SellerCity>
    <SellerState>
    </SellerState>
    <SellerZip></SellerZip>
    <LicenseType>1</LicenseType>
    <LicenseNumber>123</LicenseNumber>
    <SalesRentalTaxNumber>123</SalesRentalTaxNumber>
    <LienHolder1Name></LienHolder1Name>
    <LienHolder1Address></LienHolder1Address>
```



```
<LienHolder1City></LienHolder1City>
<LienHolder1State></LienHolder1State>
<LienHolder1Zip></LienHolder1Zip>
<LienHolder1Date></LienHolder1Date>
<LienHolder2Name></LienHolder2Name>
<LienHolder2Address></LienHolder2Address>
<LienHolder2City></LienHolder2City>
<LienHolder2State></LienHolder2State>
<LienHolder2Zip></LienHolder2Zip>
<LienHolder2Date></LienHolder2Date>
</TitleApplication>
</DealerData>
```

FAQ

What should happen if the XML string is successful?

Upon a successful post to the ETAPS dealer title page the new title application UI will be shown with partial values filled in based off the xml string. The user will then fill out any additional and/or required values and save the application.

Where will the error messages be displayed if there are any?

If there are any errors with the xml string a dialog window will open up in the web page describing the error. If a successful post has been made to the dealer title page all errors will appear in the new title application UI window upon saving the application.

Why do I only see the log in screen after I've submitted my xml string to the web IP address?

There are two instances where a login screen will show after posting to the dealer title page. The first case is a post to the wrong page on the ETAPS system. In this case the user will be directed to the main login page for ETAPS. The second case is a post to the dealer title page where the xml string does not include or has invalid user credentials. You will be required to login. Upon a successful login the new title application UI will attempt to load using values from the xml string.

What is the provision in the XML for a situation where there are two owners, a primary owner, and a co-buyer?

The owners would be entered the same way they would in the UI: Smith John and Jane; or Smith John and Jane Doe

Are there provisions for our software to determine if the process was successful?

The process will be successful if the new title application UI is shown on the web page. The application will show only after the xml string is valid and proper user credentials are supplied. These user credentials can be supplied either in the xml string or using the dealer login page.

Does the web site recognize any browser other than Internet Explorer (Mozilla Firefox, etc.)?

Currently the system only supports Internet Explorer.

Do the present parameters for title application data still apply such as last name first?

All parameters used in a normal title application apply to the dealer title application interface.



Who do I contact to get set up in ETAPS and acquire a login and password?

You should contact the Alabama Department of Revenue, Designated Agent Unit at titles@revenue.alabama.gov.

Who do I contact if I have technical questions about the service or errors while interfacing with it?

You may contact Adam Ferguson at the Center for Advanced Public Safety (CAPS) at aferguson@cs.ua.edu.