IUCS LEADER Interface Guide

Web Services to
Get Transmittal from LEADER

Developer Guide & Reference

Version: 2.2

11/3/2017

Revision History

Version	Date	By	Description
Draft	Oct 2015	Jignesh Shah	Initial draft
1.0	10/15/2015	Jignesh Shah Lisa Goodwin	First version is released
2.0	02/07/2016	Jignesh Shah	Remove the support for GETTRANSMITTALDATA Introduced two new methods replacement methods GETSTOPIDBYTRANSMITTALCODE GETSTOPDATABYSTOPID
2.1	02/10/2016	Jignesh	Introduce new section "Process Workflow"
2.1	02/11/2016	Jeff Davies	Reviewed this document.
2.2	11/03/2017	Jignesh Shah	Updated GETSTOPDATABYSTOPID method to GETSTOPDATABYSTOPIDNEW

Contents

1   Introduction

The Illinois Uniform Configuration Service (IUCS) is a state-wide data management and configuration service that provides standardized list management and configuration options for any application that could benefit from communication with the Illinois Circuit Clerks court management systems, or state reporting agencies such as the Secretary of State.

The LEADER application is offered through the IUCS platform to allow law enforcement agencies to submit citations and other court-filed documents to the Circuit Clerks, as well as providing a pass-through service to deposit other forms into the Statewide Data Repository.

This document explains the web services that Circuit Clerk technical staff or CMS vendors will use to detect and retrieve agency transmittals that are ready for filing with the Circuit Clerk.
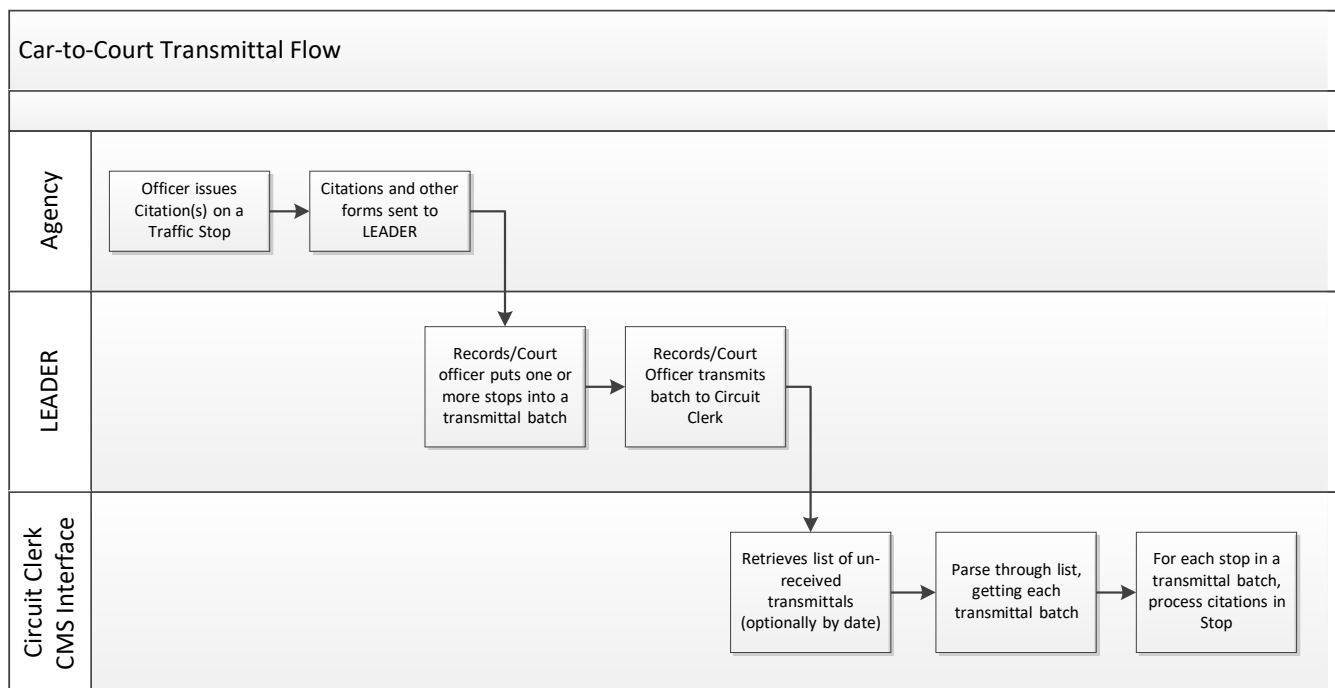
All documentation and reference material can be downloaded from
https://iucs.illinoiscourtservices.net/documents/.
This document should be used along with the following other references:

- The inbound schema definition that defines a Stop – "LEADER inbound schema.xsd"
- The LEADER schema mapping definition spreadsheet – "LEADER schema mapping.xlsx"
- The developers guide for sending stop information into LEADER – "IUCS LEADER Inbound Interface Guide.docx" handle

2   Process Summary

Car-to-Court Transmittal Flow

Agency
- Officer issues Citation(s) on a Traffic Stop
- Citations and other forms sent to LEADER

LEADER
- Records/Court officer puts one or more stops into a transmittal batch
- Records/Court Officer transmits batch to Circuit Clerk

Circuit Clerk CMS Interface
- Retrieves list of un-received transmittals (optionally by date)
- Parse through list, getting each transmittal batch
- For each stop in a transmittal batch, process citations in Stop

3   Process Narrative

1. A law enforcement officer will issue one or more forms as a result of a traffic stop. These forms may consist of citations of various types, warnings, tow forms and/or TSSS records.
   a. If the officer has written paper forms, these forms may be manually entered into LEADER for the purposes of being electronically transmitted to a circuit clerk. These are marked as MANUAL forms.
   b. If the officer has created electronic forms, these forms will be sent electronically to LEADER for the purposes of being electronically transmitted to a circuit clerk.   These forms are submitted to LEADER via the inbound *Send Citations to LEADER* process. These are marked as ELECTRONIC forms.

2. A law enforcement agency court officer or records clerk will create and send a transmittal batch on Leader. One transmittal batch will have one or more stops, by one or more officers; however, each transmittal will be from one and only one law enforcement agency and destined for only one circuit clerk.   Transmittals can be kept in pending status until they are purposefully sent to the circuit clerk. Once marked as COMPLETE in LEADER, the transmittal is now available for the circuit clerk to retrieve.
   a. An agency cannot re-open or cancel a transmittal once it has been marked COMPLETE.

3. The circuit clerk's web service client program must periodically call the "GET NEW TRANSMITTAL LIST" webservice . This web service call will return the list of <u>new and un-retrieved</u> transmittal batches back to the web service client.   Alternatively, the client can call the web service "GET TRANSMITTAL LIST BY DATE" and retrieve all the transmittal batches that were COMPLETE'd over a specific date/time range. This will return a list of all transmittal batches in that time frame, <u>including</u> ones that the web service has previously obtained.

4. Once the transmittal batch list is obtained, the client should call the "GET TRANSMITTAL DATA" web service in order to get the specific citation data in the transmittal batch. One batch is retrieved for each call, so this step 3 should be repeated for all transmittal batches received in the list. Each stop in the transmittal may contain one or more citations.   <u>Only court-filed citations will be sent to the circuit clerk.</u> Non-court filed documents (e.g. warnings) will not be sent.

5. Once the specific transmittal batch has been sent to the circuit clerk, it will be marked and timestamped as SENT. This web service can be called more than once. The TransmittedDateTime element in the Transmittal Header will indicate the previous timestamp that the batch was received. If it is null, then the batch has never been retrieved before.

4   Web Service Connection Details

The following sections provide the information necessary for a Web Service client to call the IUCS LEADER Web Services to send and retrieve information.

4.1 Authentication

Each application that calls the web services will receive a unique set of authentication credentials. IUCS will verify the credentials, and reject the call if they are invalid.

When you begin testing your application, you will receive this information to allow you to access the test environment.   Production system credentials will be provided after the software has been tested and approved for production use.

4.2 Test Environment Parameters

Notice the endpoint for the TEST environment is **IUCSTEST**.

Test WSDL URL: https://iucstest.illinoiscourtservices.net/IUCSTEST/services/configurator.wsdl

IMPORTANT NOTE: When you instantiate the web service object (service name "IUCSService"), the URL returned is not correct. It will return "http://iucs.illinoiscourtservices.net/IUCS/services" or similar so please override that value to the following:

 https://iucstest.illinoiscourtservices.net/IUCSTEST/services

Also note, if you are using Visual Studio, you can modify the app.config parameters for the Web Service Reference:

```
<endpoint address=" https://iucstest.illinoiscourtservices.net/IUCSTEST/services"
binding="basicHttpBinding"
    bindingConfiguration="IUCSSoap11" contract="ServiceReference1.IUCS"
    name="IUCSSoap11" />
```
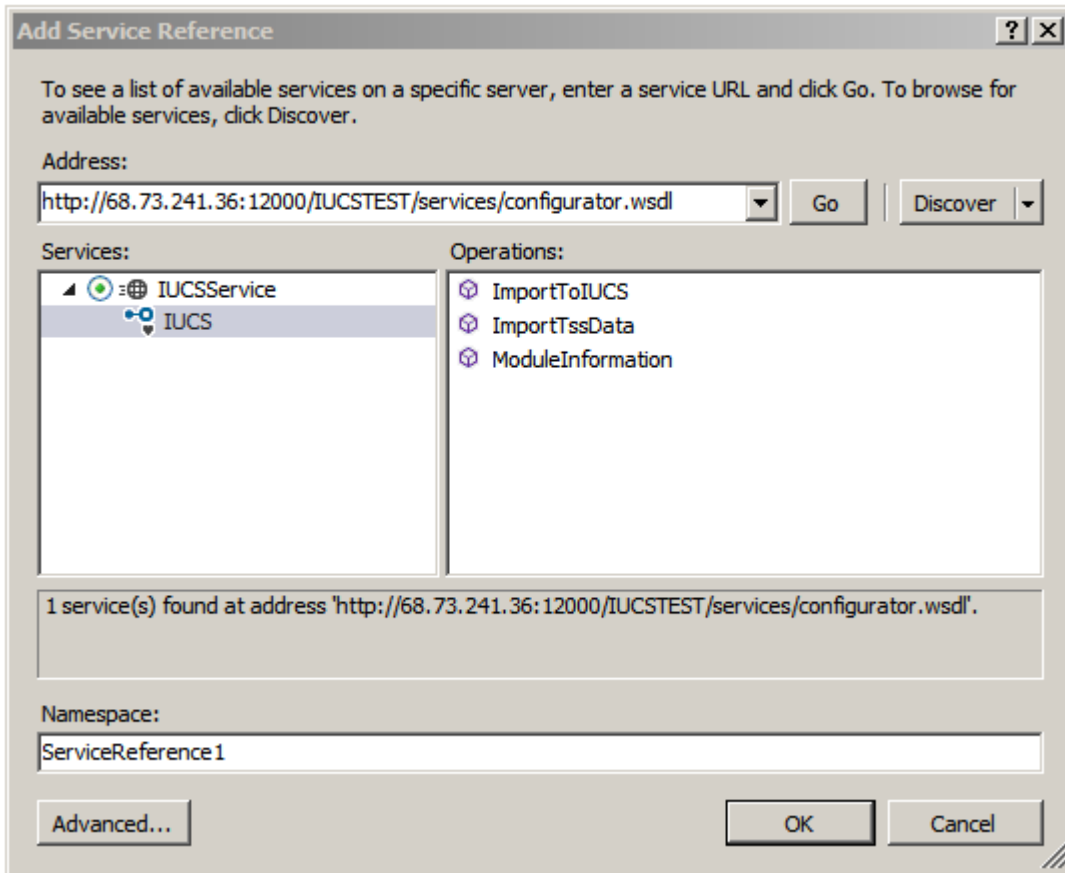
4.3 Production Environment Parameters

Production WSDL URL: https://iucsjob.illinoiscourtservices.net/IUCS/services/configurator.wsdl

End Point: https://iucsjob.illinoiscourtservices.net/IUCS/services

4.4 WSDL Reference

In the IUCS environment, the LEADER web services are published under the operation ModuleInformation. The ImportToIUCS operation is used for sending citations and forms to Leader, and the ImportTSSData is not yet in service.

4.5 Maximum Message Size

Methods to retrieve large violation lists may require the maximum message size to be increased in the HTTP binding.   (In Visual Studio, this is also located in the app.config parameters.)

```
<basicHttpBinding>
 <binding name="IUCSSoap11" maxReceivedMessageSize ="2147483647" />
</basicHttpBinding>
```
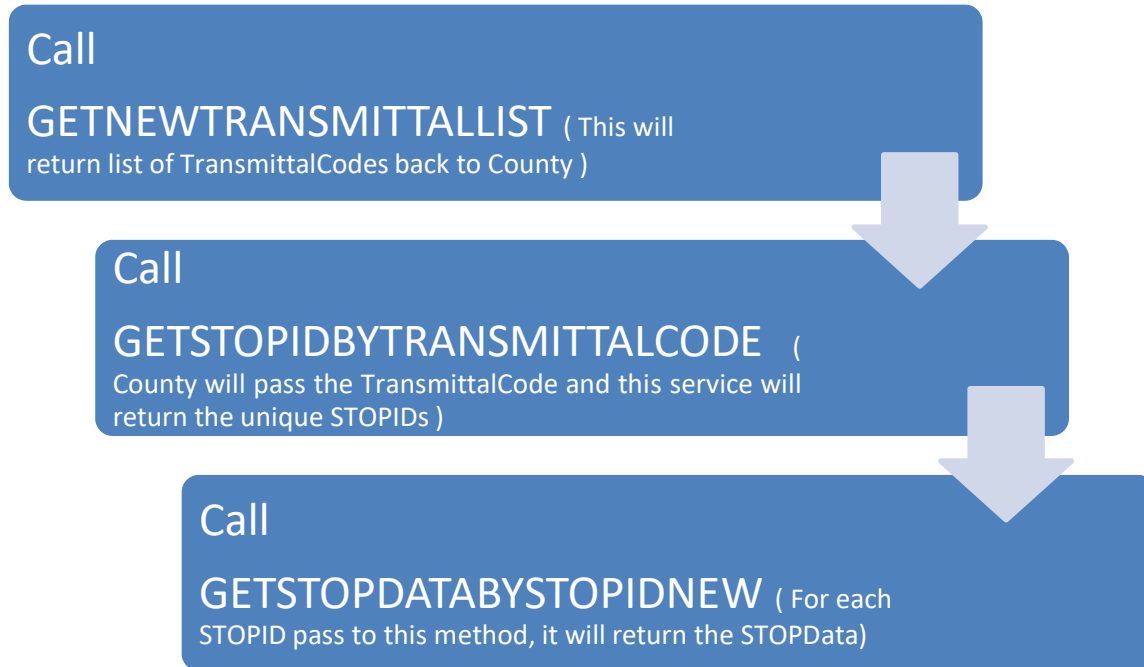
4.6 Encoding

The <data> payloads are Base 64 encoded. You can use https://www.base64decode.org/ to cut and paste responses and decode <data> during testing.

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4.7 Process Flow

In order to get the transmittal, county (County CMS Vendor) have to consume the IUCS web service modules in below sequence. The detail of each method is explained in the section below (Module Names in Detail section).

Call

GETNEWTRANSMITTALLIST (This will return list of TransmittalCodes back to County)

Call

GETSTOPIDBYTRANSMITTALCODE (County will pass the TransmittalCode and this service will return the unique STOPIDs)

Call

GETSTOPDATABYSTOPIDNEW (For each STOPID pass to this method, it will return the STOPData)

4.8 Module Names in Detail

The following module names identify the specific web service to provide the following functionality for receiving transmittal data

4.8.1 Get New Transmittal List (GETNEWTRANSMITTALLIST)

This is the module that is used to get the list of new Transmittal IDs which have been batched by the law enforcement agencies and now available to the Circuit Clerk.   This service only returns transmittals that have not been previously retrieved using the GetTransmittalData web service, as indicated by the SENT status in LEADER.

The CountyName is a required field, passed in the parameterList.

Parameter Name	Parameter Value	Type	Required
CountyName	Name of the county for the transmittal	STRING	Yes

These are references to sample SOAP files. If the link does not work, they are available in a downloadable ZIP file format.

SOAP REQUEST SAMPLE	SOAP RESPONSE SAMPLE	Decoded <Data> from the Sample Response
GetTransmittal List Request SOAP Message.xml	GetTransmittal List Response SOAP Message.xml	GetTransmittal List Data.xml

The <Data> element in the SOAP RESPONSE SAMPLE is encoded using Base 64 encoding. This field contains the list of transmittal IDs. The client program needs to decode the <Data>.

For manual testing, the website https://www.base64decode.org/ can be used to decode the data and see the ASCII text result.

4.8.2 Get Transmittal List By Date (GETTRANSMITTALLISTBYDATE)

This web service provides a list of transmittals created over a certain date range.   This function will return a list of transmittals, their status and the datetime when the transmittal was last requested by the county.

These parameters are required for this web service:

Parameter Name	Parameter Value	Type	Required
CountyName	Name of the county for the transmittal	STRING	Yes
FromDate	From date of the date range for the list of transmittal ids	DATE	YES
ToDate	To date of the date range for the list of transmittal ids	DATE	YES

These are references to sample SOAP files. If the link does not work, they are available in a downloadable ZIP file format.

SOAP REQUEST SAMPLE	SOAP RESPONSE SAMPLE	Decoded <Data> from the Sample Response
GetTransmittal ListByDate_ Request SOAP.xml	GetTransmittal ListByDate_ Response SOAP.xml	GetTransmittal ListByDate_ Data.xml

This <Data> payload is also encoded.

The list returned by this service contains these elements:

TRANSMITTALCODE: The Unique Transmittal ID.

STATUS: COMPLETE or SENT. If the Status is COMPLETE then it has not be downloaded by the county. If the status is SENT then this transmittal has been requested by the county.

COMPLETEDDATE: Date on which the transmittal has been completed by police agency.

SENTDATE: The date on which the county last retrieved the transmittal data.

4.8.3 ~~Get Transmittal Data (GETTRANSMITTALDATA)~~ **(Removed as of 02/10/2016. Refer GETSTOPIDBYTRANSMITTALCODE and GETSTOPDATABYSTOPID as replacement methods.)**

~~GETTRANSMITTALDATA sends the transmittal data for the requested Transmittal ID. The <Data> element in the response will contain all the stops and all the citations in the given transmittal batch.~~

~~Please refer to the schema " County Transmittal Schema_Vxxx.xsd" document for the data elements received on the response of this query.~~

~~Parameter Name~~	~~Parameter Value~~	~~Type~~	~~Required~~
~~TRASNMITTALID~~	~~UniqueID assigned to the transmittal~~	~~STRING~~	~~Yes~~

~~These are references to sample SOAP files. If the link does not work, they are available in a downloadable ZIP file format.~~

~~SOAP REQUEST SAMPLE~~	~~SOAP RESPONSE SAMPLE~~	~~Decoded <Data> from the Sample Response~~
~~GetTransmittalData RequestSOAP.xml~~	~~GETTRANSMITTALDATA Soap response.xml~~	~~County Transmittal Sample.xml~~

4.8.4 Get StopIDs by TransmittalCode Data (GETSTOPIDBYTRANSMITTALCODE)

This method provides the Leader StopIDs (Unique Identifier assigned to each STOP by Leader application) for all the stops with in transmittal. This StopID should be used in the next step by calling GETSTOPDATABYSTOPIDNEW method to get the StopData including all the forms and images.

 These parameters are required for this web service:

Parameter Name	Parameter Value	Type	Required
TRANSMITTALCODE	Unique Transmittal Code	STRING	Yes

These are references to sample SOAP files. If the link does not work, they are available in a downloadable ZIP file format.

SOAP REQUEST SAMPLE	SOAP RESPONSE SAMPLE	Decoded <Data> from the Sample Response
GetStopIdByTransmittalCode_SOAP_request.xml	GetStopIdByTransmittalCode_SOAP_response.xml	GetStopIdByTransmittalCode_data.xml.xml

Transmittal data along with the unique STOPIDs for each stop in the transmittal will be returned.

4.8.5 Get StopData By StopID (GETSTOPDATABYSTOPIDNEW)

Once County has the list of all the stopIDs by the transmittal, this method will be used to get the stopdata (incident information along with all the tickets and images)

These parameters are required for this web service:

Parameter Name	Parameter Value	Type	Required
STOPID	Unique stop id	STRING	Yes

These are references to sample SOAP files. If the link does not work, they are available in a downloadable ZIP file format.

SOAP REQUEST SAMPLE	SOAP RESPONSE SAMPLE	Decoded <Data> from the Sample Response
GETSTOPDATABYSTOPIDNEW_SOAP_request.xml	GETSTOPDATABYSTOPIDNEW_SOAP_response.xml	GETSTOPDATABYSTOPIDNEW_DATA_XML.xml

Transmittal data along with the unique STOPIDs for each stop in the transmittal will be returned.

1.1 Response Codes

Response data will provide an XML construct with an embedded response message, such as:

```
<errored>NO</errored>
    <responseMessage>
            <responseCode>MSG01</responseCode>
    <responseMessage>Request is processed successfully.</responseMessage>
    </responseMessage>
```

ImportToIUCSResponse Parameters	Description	Data Type
errored	This parameter will contains the value Yes or No. Yes indicates the response contains an error; No indicates that request was processed successfully.	string
responseCode	This parameter will contain the success or error code. Please see the response code list.	string
responseMessage	This is the human readable explanation of the response code.	string

These are the possible response codes embedded in <ResponseCode>:

MSG01	Request is processed successfully.
MSG02	Request is partially processed
ERR01	Security violation. Client IP is not authenticated
ERR02	Request XML is not well formed.
ERR03	Module name is missing. Please correct XML and resend it again
ERR031	Module name is invalid. Please correct XML and resend it again
ERR04	Username and password is invalid. Please correct XML and resend it again
ERR05	Username is missing. Please correct XML and resend it again.
ERR06	Password is missing. Please correct XML and resend it again.
ERR07	This module is not accessible for this user. Please correct XML and resend it again
ERR08	Sync date is not well formed, enter date in yyyy-mm-dd format. Please correct XML and resend it again
ERR09	Sync date is future date. Please correct XML and resend it again
ERR091	Sync date is missing. Please correct XML and resend it again.
ERR010	Parameter is not valid number. Please correct XML and resend it again.
ERR011	Parameter is not valid decimal. Please correct XML and resend it again.
ERR012	Parameter is not valid date. Enter date in yyyy-mm-dd format. Please correct XML and resend it again
ERR013	Parameter is not valid timestamp. Enter date in yyyy-mm-dd format. Please correct XML and resend it again.
ERR014	Parameter is not valid time. Enter date in yyyy-mm-dd format. Please correct XML and resend it again
ERR015	Parameter type is missing. Please correct XML and resend it again
ERR016	Parameter date is not a date. Please correct XML and resend it again
ERR017	Parameter is not valid boolean value. Please correct XML and resend it again.
ERR018	Data type is missing. Please correct it and resend again.
ERR019	Data type is XML or CSV. Please correct it and resend again.
ERR020	Data is missing. Please correct it and resend again.
ERR021	County is missing. Please correct it and resend again.

Other Tips

- The client is of type IUCSClient.
- The parameters are an array of type ParameterRequest
- If you specify a parameter type, you must set typeSpecified to true

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