

# SAFIS Unified API

---

Overview .....	2
USER_PERMITS - retrieve a list of permits for the user .....	6
TRIPS_UPLOAD - send a set of trips rows to safis .....	8
TRIPS_UPLOAD_ERRORS - fetch a list of errors from trip rows that did not load .....	12
NEG_TRIPS_UPLOAD - send a set of negative trip reports to safis .....	13
NEG_TRIPS_UPLOAD_ERRORS - fetch a list of errors from negative reports that didn't load .....	15
LOOKUP_LIST - fetch a set of rows for a specified lookup table .....	16
LOOKUP_LIST_DATE_CHANGED - fetch the last date a specified lookup table was changed .....	19
TRIP_LOCATIONS - send a set of trip location data rows to safis .....	20
PERMIT_COMPLIANCE - checks the current compliance status of a dealer permit .....	21
REPORTS_UPLOAD - send a set of rows to safis .....	22
REPORTS_UPLOAD_ERRORS - fetch a list of errors from rows that did not load .....	25
PERMIT_ENDORSEMENTS - fetch a list of endorsements for a given a partner .....	26
NEG_REPORTS_UPLOAD - send a set of negative dealer reports to safis .....	28
NEG_REPORTS_UPLOAD_ERRORS - fetch a list of errors from negative dealer reports that didn't load .....	30

## Overview

This API is used by remote applications to communicate with the SAFIS backend database server. It is not intended for any other purpose, for example it does not supply a web-page interface.

This document is intended as a programmer's reference manual. It is used by both application developers who build a front-end, and the Oracle PL/SQL programmers who maintain this API back-end. Using it assumes you are already familiar with the upload data but do not need any understanding of underlying Oracle technology.

Data is passed in in JSON format, and returned the same way.

A remote application using this API can be either web based, or a mobile application in an embedded device or a phone, so we choose to use the term "device" to refer to the remote.

## COMMAND MECHANISM

This API breaks the interaction between device and server into "commands". The device sends a command to the server and gets back a status message, and possibly some data in a pre-specified format. This response is formatted as a JSON object. The API uses a common format for this described in detail later.

All of these commands are detailed, with examples, later in this document.

The interaction mechanism for all commands is the same, as follows:

- The mobile app submits a page to a URL
- The domain-name, TCP-port-number and base-URL are all pre-defined. The connection between web and oracle is supplied by an oracle restful service.
- The specific command is added to the base URL (see examples below)
- The "payload" of the request is passed as a the body of the http POST request using the JSON object format.
- The database will return the results formatted as a JSON object.
- Each specific command will have its own result-object-format (see below)
- The result will always contain a STATUS
- No data found will result in returning an empty array, i.e. no data rows but there will be a "row" object. So the returned row-array length will be zero.
- All errors will return a STATUS format, this format will be shared by all commands. It will include an error code and a text description.
- The result is a JSON object. Note that this is NOT a valid piece of html, there is no markup, so it will not display correctly in a browser window.

## BASE URL

For test and production these will be:

- protocol: https
- domain & base URL:
  - test - "safis.accsp.org:8443/safis\_test/safist/"
  - prod - "safis.accsp.org:8443/safis\_prod/safis\_prod/"
- Command: The command is added to the base-url separated with a slash. All commands are implemented as a procedure in a single package called "API".

- Parameters: for an http POST operation these are all embedded in the body of the http request as a JSON object.

## REQUIRED PARAMETERS

All commands require basic HTTP authentication. All commands requesting or receiving confidential data will supply a an API key along with the username and password of the end-user. Access to non-user specific data, like the gears for a given partner, only requires an API. The format for HTTP Basic Authentication is as follows.

### Confidential-user-specific data

Username: my\_user\_name@my\_api\_key

Password: my\_password

### Non-confidential non-user specific data

Username: @my\_api\_key

Password: <<Leave it blank>>

The use of basic authentication makes the API truly stateless and therefore each transaction request is self-contained and there are no sessions to track. Also there are no user login and user logout function as these are unnecessary.

ALL parameters are sent to the server in their prescribed JSON format. The order does not matter.

## JavaScript and JSON

The API is designed to be callable from a JavaScript application, usually using the jQuery library.

All responses are a single JSON object, this encapsulates a status code and description and a set of data rows.

**Example JSON call**

To make the call from a JavaScript function using JQuery a typical call would look like this:

JavaScript

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js"></script>
```

```
<script>
```

```
function callSomething(){
```

```
var mydata = JSON.stringify({"p_usertype": "FISHER"});
```

```
var my_user = "username@myapikey";
```

```
var my_pass = "password";
```

```
$.ajax (  
  { url: "https://safis.accsp.org:8443/safis_test/safist/user_permits",  
    data: mydata,  
    async: true,  
    dataType: "json",  
    contentType: "application/json; charset=utf-8",  
    type: "POST",  
    headers: {'Authorization': 'Basic ' + window.btoa(my_user + ':' + my_pass)  
  },  
  success: function(data, textStatus, jqXHR){  
    console.log("you got in");  
  },  
  error: function(jqXHR, textStatus, errorThrown) {  
    console.log("you got 99 problems:" + JSON.stringify(jqXHR));  
  }  
}  
);
```

```
}
```

```
</script>
```

```
</script>
```

**Example JSON response**

A typical response from this call would be:

```
"row": [
    {
        "license_nbr": "123",
        "license_type": "FL_COMMERCIAL",
        "permit_type": "Commercial",
        "agency": "0015",
        "in_use": "Y"
    }
],
"OK": "User :flfisher Active Permit Count:1"
}
```

In this example the response is read in as a JavaScript object called “data” as an argument to a function called “callback\_success()” that must exist in the same javascript page.

The JavaScript developer does not really need to know anything about the internal workings, all they need is to know what parameters to pass the API, and what to expect back. All API calls always return a status and description, if there is no data they return a “row” object that is empty, so the .rows.length property will be zero.

Remember to replace the username, password and API key in the example above with valid values.

The remainder of this document is a description of each command, in a standard format. Each has examples and sample output. The description of each contains notes on when and how it is intended to be used.

## USER\_PERMITS - retrieve a list of permits for the user

This call retrieves a list of dealer permits for the logged in user with a valid username, password and API key.

Parameters:

P\_USERTYPE char, required, no wildcards.

### Description

The user type is passed in with the P\_USERTYPE parameter. The type of PERMIT being requested is sent in as P\_USERTYPE. The only current valid values of P\_USERTYPE are *DEALER* and *FISHER*. As the API is expanded to accommodate more types of users, the list will grow.

### Authorization Header:

username@apikey:password

### Example Request Body:

```
{
  "p_usertype":"DEALER"
}
```

### Returns

```
row[n].DATA
  .status
  .description
```

### Row Response

It returns a list of license numbers and corresponding agency for the user whose user type is passed in. A status of OK is returned, with a single row that has the username and the total count of licenses being returned.

<b>.row[n].</b>	
license_nbr	the license number is the SAFIS database for a given permit
License_type	The license type assigned by the partner
permit_type	The type of permit being returned. There are 4 current possible values: <i>Dealer</i> (for all dealer permits) <i>Commercial</i> (Commercial Fisher permits) <i>For-Hire</i> (For-Hire Fisher permits) <i>Operator</i> (Operator permits for federally permitted fishermen)
agency	The issuing agency of the corresponding license number above.

<code>in_use</code>	A flag to indicate whether the permit is active or not: 'Y' or 'N' values.
<code>.status</code>	
<code>.description</code>	

## TRIPS\_UPLOAD - send a set of trips rows to safis

### Parameters:

P\_PIN (optional) alphanumeric value. Might be required for GARFO operators.  
 TRIPS table of "trips" records (see description below )

### Description:

The calling app will compose a table of trip records to upload, note that since they are submitted as the body of an http POST request they are all char data even if the underlying datatype is date or number.

The data values are submitted as a JSON array of trip objects each containing a nested array of 1 or more efforts and each effort optionally containing an array of 0 or more catch objects.

Below is a list of the valid columns expected to make a complete row. are:

#### *Trip level information*

CF_LICENSE_NBR	TRIP_END_TIME
ISS_AGENCY	NUM_CREW
TRIP_TYPE	NUM_ANGLERS
SUPPLIER_TRIP_ID	VTR_NUMBER
PORT	VESSEL_PERMIT
STATE	SUB_TRIP_TYPE
COAST_GUARD_NBR	REPORTING_SOURCE
STATE_REG_NBR	FUEL_USED
TRIP_START_DATE	FUEL_PRICE
TRIP_START_TIME	CHARTER_FEE
TRIP_END_DATE	

#### *Effort level information*

DISTANCE	GEAR_SETS
IN_STATE	FISHING_HOURS
AREA_CODE	HOURS_DAYS
SUB_AREA_CODE	TOTAL_GEAR
LOCAL_AREA_CODE	GEAR_SIZE
LATITUDE	MESH_RING_LENGTH
LONGITUDE	MESH_RING_WIDTH
GEAR	STRETCH_SIZE
LMA	TARGET_SPECIES
GEAR_QUANTITY	AVG_DEPTH



SPECIES_ITIS	SALE_DISPOSITION_FLAG	DEA_ISS_AGENCY
DISPOSITION	DEALER_LICENSE_NBR	CATCH_SOURCE
MARKET_CODE	DATE_SOLD	CATCH_LATITUDE
GRADE_CODE	REPORTED_QUANTITY	CATCH_LONGITUDE
UNIT_OF_MEASURE	PRICE	SUPPLIER_CATCH_ID

This API returns an event\_id to the calling application, which can be used to check the status of the upload, and once it is finished The EVENT ID can be used to fetch any records that had errors.

**Authorization Header:**

username@apikey:password

**Example Request Body:**

```
{  
  "p_pin": "1222",  
  "trips": [{  
    "supplier_trip_id": "1231231",  
    "trip_start_date": "11/22/2015",  
    "cf_license_nbr": "999999",  
    "state": "MA",  
    "efforts": [{  
      "gear": "234",  
      "latitude": "-70.1213",  
      "distance": "1",  
      "area_code": "202",  
      "catches": [{  
        "species": "123131",  
        "quantity": "23",  
        "disposition": "100",
```

```
"grade_code": "01"
}, {
  "species": "333333",
  "quantity": "12",
  "disposition": "050",
  "grade_code": "23"
}]
}, {
  "gear": "700",
  "latitude": "-70.1212",
  "distance": "2",
  "area_code": "202"
}]
}]
}
```

**Row response**

a status of OK is returned, with a single row that has same format at the UPLOAD\_LIST API, but for just this one upload

<b>.row[n].</b>	
event_id	the unique job-id /event_id for this upload assigned by the system
upload_date	when the upload was received
process_date	When the upload was processed. This might be some time after the user submitted it
total_count	count of the trip/effort/catch combinations for this event_id
errorred_count	count of rows that had an error of some kind. If the value is more than 0, TRIP_UPLOAD_ERRORS should be called to get the details
<b>.status</b>	
<b>.description</b>	

## TRIPS\_UPLOAD\_ERRORS - fetch a list of errors from trip rows that did not load

### Parameters:

P\_EVENT\_ID id from previous upload\_put or upload\_list command

### Description:

Fetch any errors in the records from this event id. Returned as a JSON encoded object. If no rows had errors there will be no data, and status record will indicate zero errors

### Authorization Header:

username@apikey:password

### Example Request Body:

```
{  
  "p_event_id":"54321"  
}
```

### Rows response

If there are no errors a status response of OK is returned, with a no rows. In this case the .rows.length property is zero.

The format returned is has 3 rows with addition of an ERR\_DESC field at the start. The first row is used to hold the explanation of what is wrong with the record. The 2<sup>nd</sup> row can either be the supplier trip, effort or catch id whichever is appropriate and helps reference the original row passed by trips\_upload. Event\_id is the event id number given by trips\_upload identifying the upload.

```
row[n].ERR_DESC  
  SUPPLIER_CATCH_ID (if applicable)  
  SUPPLIER_EFFORT_ID (if applicable)  
  SUPPLIER_TRIP_ID(if applicable)  
  EVENT_ID  
  
.status  
.description
```

## NEG\_TRIPS\_UPLOAD - send a set of negative trip reports to safis

**Parameters:**

NEG\_TRIPS table of neg\_trips records (see description below)

**Description:**

The calling app will compose a table of negative trip records to upload, note that since they are submitted as the body of an http POST request they are all char data even if the underlying datatype is date or number.

The data values are submitted as a collection of rows with each value denoting the type and column number it belongs.

Below is a list of the valid columns expected to make a complete row. All fields but the end date are required:

CF\_LICENSE\_NBR -(valid alphanumeric field)  
ISS\_AGENCY - (valid alphanumeric field)  
START\_DATE -(MM/DD/YYYY)  
END\_DATE - (MM/DD/YYYY) must be empty or greater than START\_DATE  
SUPPLIER\_ROW\_ID - numerical field

This API returns an event\_id to the calling application, which can be used to check the status of the upload, and once it is finished The EVENT ID can be used to fetch any records that had errors.

**Authorization Header:**

username@apikey:password

**Example Request Body:**

```
{
  "neg_trips":[
    {
      "supplier_row_id":"1231231",
      "iss_agency":"0003",
      "start_date":"11/22/2015",
      "end_date":"11/22/2015",
      "cf_license_nbr":"999999"
    },
    {
      "supplier_row_id":"12312331",
      "iss_agency":"0003",
      "start_date":"11/23/2015",
      "end_date":"11/23/2015",
      "cf_license_nbr":"999999"
    }
  ]
}
```

**Row response**

<b>.row[n].</b>	
event_id	the unique job-id /event_id for this upload assigned by the system
upload_date	when the upload was received
process_date	When the upload was processed. This might be some time after the user submitted it
total_count	count of the neg_trips for this event_id
errorred_count	count of rows that had an error of some kind. If the value is more than 0, NEG_UPLOAD_ERRORS should be called to get the details
<b>.status</b>	
<b>.description</b>	

## NEG\_TRIPS\_UPLOAD\_ERRORS - fetch a list of errors from negative reports that didn't load

**Parameters:**

P\_EVENT\_ID      id from previous neg\_upload command

**Description:**

Fetch any errors in the records from this event id. Returned as a JSON encoded object. If no rows had errors there will be no data, and status record will indicate zero errors

**Authorization Header:**

username@apikey:password

**Example Request Body:**

```
{  
  "p_event_id":"54321"  
}
```

**Rows response**

If there are no errors a status response of OK is returned, with a no rows. In this case the .rows.length property is zero.

The format returned is has 3 rows with addition of an ERR\_DESC field at the start. That is used to hold the explanation of what is wrong with the record. The supplier\_row\_id is a row identifier that helps reference the original row passed by neg\_upload. Event\_id is the event id number given by neg\_upload identifying the upload.

```
row[n].ERR_DESC  
  SUPPLIER_ROW_ID  
  EVENT_ID  
  
  .status  
  .description
```

## LOOKUP\_LIST - fetch a set of rows for a specified lookup table

### Parameters:

**P\_PARTNER** char, required, no wildcards. This is 4 character representation of the partner to be checked.

**P\_LISTNAME** char, required, no wildcards. Name of the list being requested. More lists may be added with time. As of this publishing, the list is

- **GEARS** – returns list of rows with 5 columns. (code, description, category code, category description, lma flag, in-use flag)
- **CATCH\_SOURCE** – returns a list of rows with 3 columns ( source\_code, source\_description, in-use)
- **DISPOSITION**- returns list of rows with 5 columns. (code, description, category code, category description, trip type, in-use flag)
- **AREASFISHED** – returns a list of rows with 10 columns ( area\_code, area\_name, sub\_area\_code, sub\_area\_name, local\_area\_code, local\_area\_name, state, area\_display\_name, waters, in-use flag)
- **SPECIES** - returns list of rows with 14 columns. The in\_use indicator indicates whether a given row is currently active. Value returned is 'Y' when active and 'N' when no longer active.
- **TARGET\_SPECIES** - returns list of rows with 3 columns ( species\_itis, species\_name, in\_use). The in\_use indicator indicates whether a given row is currently active. Value returned is 'Y' when active and 'N' when no longer active.
- **PARTICIPANTS**– returns list of users and permits for a given partner. Each row has 3 columns. (ID, Name, License Nbr, in-use flag). All the licenses numbers returned are implicitly associated with the requested partner.
- **VESSELS**– returns list of vessels and associated permits. Each row has 7 columns. vessel id (ID), Name, registering state (state), coast guard number, state registration number, vessel permit number (permit), in-use flag). At this time the P\_PARTNER field is ignored.
- **SWIPE\_CARDS**– returns list of swipe cards for a given partner. Each row has 3 columns. (card number, License Nbr, in-use flag). All the licenses numbers returned are implicitly associated with the requested partner.

**P\_LASTDATE** (*optional*) changes made since a given date. Format is MM/DD/YYYY hh24:mi:ss. So a representation of Dec 27<sup>th</sup> 2010 2:45p.m. would be given as 12/27/2010 14:45:00 While optional, the p\_lastdate is highly recommended to increase performance since it only returns a smaller list when a minimum date is used.

**P\_LISTTYPE** (*optional*) char, no wildcards. This specifies the list being requested. Allowed values are EDR, ETRIP, ETRIPFORHIRE and ETRIPCOMMERCIAL. If no values is provided, ETRIPCOMMERCIAL is used as the default.

### Authorization Header:

@apikey

### Example Request Body:

```
{
  "p_partner":"0023",
  "p_listname":"GEARS",
  "p_listtype":"EDR",
  "p_lastdate":"12/27/2010 14:45:00 "
}
```



**Description:**

Fetch a list of valid values for a specified list noted in `p_listname` above. Returned as a JSON encoded object. If no rows exist, there will be no data, and status record will indicate zero errors

**Rows response**

If there are no errors a status response of OK is returned. The row response varies based on the type of `P_LISTNAME` that was passed in.

<p>For gears, the format is as follows.</p> <pre> row[n].CODE   DESCRIPTION   CATEGORY_CODE   CATEGORY_NAME   LMA   IN_USE  .status .description </pre> <p>For disposition, the format is as follows.</p> <pre> row[n].CODE   DESCRIPTION   CATEGORY_CODE   CATEGORY_NAME   TRIP_TYPE   IN_USE  .status .description </pre> <p>For <i>areasfished</i>, the format is as follows.</p> <pre> row[n].CODE   DESCRIPTION   CATEGORY_CODE   CATEGORY_NAME   WATERS   IN_USE  .status .description </pre>	<p>For catch source, the format is as follows.</p> <pre> row[n]. CODE   DESCRIPTION   IN_USE .status .description </pre> <p>For species, the format is as follows.</p> <pre> row[n].SPECIES_QC_ID   SPECIES_ITIS   SPECIES_NAME   UOM   GRADE   GRADE_DESCRIPTION   MARKET   MARKET_DESCRIPTION   MIN_PRICE   MAX_PRICE   HMS   SHARK   AREA   IN_USE  .status .description </pre> <p>For participants, the format is as follows.</p> <pre> row[n].ID   NAME   LICENSE_NBR </pre>
---	---

<p>For vessels, the format is as follows.</p> <pre> row[n].ID   NAME   STATE   COAST_GUARD   STATE_REG   PERMIT   IN_USE  .status .description  For target_species, the format is as follows.  row[n]. SPECIES_ITIS   SPECIES_NAME   IN_USE  .status .description                     </pre>	<pre> LICENSE_TYPE IN_USE  .status .description  For swipe_cards, the format is as follows.  row[n].CARD_NBR   LICENSE_NBR   IN_USE  .status .description                     </pre>
--	--

## LOOKUP\_LIST\_DATE\_CHANGED - fetch the last date a specified lookup table was changed

### Parameters:

P\_PARTNER char, required, no wildcards. This is 4 character representation of the partner to be checked.

P\_LISTNAME name of the list whose last date change is being requested. More lists may be added with time. As of this publishing, the list is

- *GEARS*
- *DISPOSITION*
- *AREASFISHED*
- *SPECIES*
- *CATCH\_SOURCE*
- *PARTICIPANTS*
- *VESSELS*
- *SWIPE\_CARDS*

### Description:

Fetch the last date a specified lookup table, noted in p\_listname, was changed. The value is returned in the format of MM/DD/YYYY hh24:mi:ss. So a representation of Dec 27<sup>th</sup> 2010 2:45p.m. would be given as 12/27/2010 14:45:00  
Returned as a JSON encoded object. If no date exist, there will be result will be empty

### Authorization Header:

@apikey

### Example Request Body:

```
{  
  "p_partner":"0023",  
  "p_listname":"GEARS"  
}
```

### Rows response

If there are no errors a status response of OK is returned.

For all valid values of P\_LISTNAME, the format is as follows.

row[1].LAST\_DATE

.status  
.description

## TRIP\_LOCATIONS - send a set of trip location data rows to safis

### Parameters:

P\_EVENT\_ID number, required. id from previous trips\_upload command  
 P\_DATA table of trip location records (see description below)

### Description:

The calling app will compose a table of trip location records to upload, note that since they are submitted as the body of an http POST request they are all char data even if the underlying datatype is date or number.

The data values are submitted as a collection of rows with each value denoting the type and column number it belongs.

Below is a list of the valid columns expected to make a complete row. are:

```
SUPPLIER_TRIP_ID
LATITUDE
LONGITUDE
TIMESTAMP
```

The timestamp format is YYYYMMDDhh24miss e.g. 20141225131755 for Dec 25<sup>th</sup> 2014 at 1:17:55p.m. This API call fetches the body of the request and loads the records into a table.

It returns an event\_id to the calling application, which can be used as a reference for these records.

### Authorization Header:

```
username@apikey:password
```

### Example Request Body:

```
{
  "p_event_id":"1222",
  "locations":[
    {"supplier_trip_id":"1231", "latitude":"43.31238", "longitude":"-72.11428", "timestamp":"20141225131755"},
    {"supplier_trip_id":"4231", "latitude":"43.32238", "longitude":"-72.11628", "timestamp":"20141225131845"}
  ]
}
```

### Row response

a status of OK is returned, with a single row that has same format at the UPLOAD\_LIST API, but for just this one upload

event_id	. the unique job-id /event_id for this upload assigned by the system
total_count	count of the locations processed for the event_id
.status	
.description	

**PERMIT\_COMPLIANCE - checks the current compliance status of a dealer permit****Parameters:**

P\_LICENSE\_NBR alphanumeric , required. The license number of the permit number to be checked.

P\_PARTNER The partner id associated with the license number given above.

**Description:**

The calling app will send a list of three variables above to identify the individual checking and the permit being checked.

**Authorization Header:**

username@apikey:password

**Example Request Body:**

```
{
  "p_license_nbr":"54321",
  "p_partner":"0023"
}
```

**Row response**

a status of OK is also returned for a successful check.

.compliant	a flag (Y or N) to identify whether a given permit is compliant
.last_record_date	the date of the last report entered into the system
.last_record_type	the type of record last entered (P/N) for positive or negative report
.non_compliance_dates	A list of dates that the dealer is not compliant in the format MM/DD/YYYY that are delimited by a semi-colon. Ex. "09/10/2015;09/11/2015"
<b>.status</b>	
<b>.description</b>	

## REPORTS\_UPLOAD - send a set of rows to safis

### Parameters:

REPORTS table of dealer report and landing records (see description below)

### Description:

The calling app will compose 2 tables of dealer reports and landings associated with those reports to upload. Note that since they are submitted as the JSON body of an http POST request they are all char data even if the underlying datatype is date or number.

The dealer report information is submitted as a collection of rows with each value denoting the type and column number it belongs.

Below is a list of the valid dealer report columns expected to make a complete row:

CF_LICENSE_NBR	STATE_REG_NBR
CF_PARTNER_ID	VTR_NBR
LANDING_DATE	DEA_LICENSE_NBR
TIME_LANDED	DEA_PARTNER_ID
TRIP_START_DATE	OBSERVER_LOG_ID
TRIP_START_TIME	HMS_LATE_REPORT
DATE_OF_PUR	SUPPLIER_DR_ID
PORT	SUBMIT_METHOD
COAST_GUARD_NBR	

Below is a list of valid landings columns expected to make a complete row. Note that the SUPPLIER\_DR\_ID denotes which dealer report it belongs.

REPORTED_QUANTITY	TOTAL_GEAR	ADDITIONAL_UNIT
DOLLARS	AREA_FISHED	HMS_FINS_ATTACHED
DISPOSITION_CODE	SUB_AREA_FISHED	HMS_EXPLANATION
GRADE_CODE	LOCAL_AREA_CODE	HMS_AREA_CODE
UNIT_MEASURE	CATCH_SOURCE	HMS_SALE_PRICE
SPECIES_ITIS	TIME_OF_HARVEST	FISHING_HOURS
MARKET_CODE	TIME_OF_ICING	HOURS_DAYS
PRICE	TEMP_AT_RECEIVING	SUPPLIER_LANDING_ID
GEAR_CODE	TEMP_UNIT (F or C)	
GEAR_QUANTITY	ADDITIONAL_COUNT	

This API returns an event\_id to the calling application, which can be used to check the status of the upload, and once it is finished The EVENT ID can be used to fetch any records that had errors.

**Authorization Header:**

username@apikey:password

**Example Request Body:**

```
{
  "reports":[
    {"supplier_dr_id":"1231231",
      "state_reg_nbr":"SMUE939",
      "dea_license_nbr":"773737",
      "landing_date":"11/22/2015",
      "cf_license_nbr":"999999",
      "landings":[
        { "species_itis":"172409", "reported_quantity":"234", "dollars":"80.22",
          "grade_code":"01", "supplier_landing_id":"1202"},
        { "species_itis":"173408", "reported_quantity":"234", "dollars":"80.22",
          "grade_code":"01", "supplier_landing_id":"1203"}
      ]
    }
  ]
}
```

**Row response**

a status of OK is returned, with a single row that has same format at the UPLOAD\_LIST API, but for just this one upload

<b>.row[n].</b>	
event_id	the unique job-id /event_id for this upload assigned by the system
upload_date	when the upload was received
process_date	when the upload was processed, this might be some time after the user submitted it
total_report_count	count of the supplier_dr_id for a single event_id

total_landing_count	count of the supplier_landing_id for a single event_id
errorred_report_count	count of the reports with at least 1 error for a single event_id
errorred_landing_count	count of rows that had an error of some kind. If the value is more than 0, UPLOAD_GET should be called to get the details
<b>.status</b>	
<b>.description</b>	



## REPORTS\_UPLOAD\_ERRORS - fetch a list of errors from rows that did not load

**Parameters:**

P\_EVENT\_ID      id from previous upload\_put or upload\_list command

**Description:**

Fetch any errors in the records from this event id. Returned as a JSON encoded object. If no rows had errors there will be no data, and status record will indicate zero errors

**Authorization Header:**

username@apikey:password

**Example Request Body:**

```
{  
  "p_event_id":"54321"  
}
```

**Rows response**

If there are no errors a status response of OK is returned, with a no rows. In this case the .rows.length property is zero.

The format returned is has 4 rows with addition of an ERR\_DESC field at the start. That is used to hold the explanation of what is wrong with the record. The supplier\_landing\_id and supplier\_dr\_id combine to form a row identifier that helps reference the original row passed by reports\_upload. Note that supplier\_landing\_id will be empty if the error is on the dealer\_report information.

```
row[n].ERR_DESC  
      SUPPLIER_DR_ID  
      SUPPLIER_LANDING_ID  
      EVENT_ID  
  
      .status  
      .description
```

## PERMIT\_ENDORSEMENTS - fetch a list of endorsements for a given a partner

### Parameters:

**P\_PARTNER** char, required, no wildcards. This is 4 character representation of the partner to be checked.

**P\_LISTNAME** name of the list being requested. More lists may be added with time. As of this publishing, the list is

- **VESSELS\_ON\_LICENSE**– returns list of rows with 6 columns. (vessel ID, name, coast guard #, state reg #, license #, in use flag )
- **ENDORSEMENTS\_ON\_LICENSE** - returns list of rows with 3 columns (license\_nbr, endorsement type, in\_use flag). The in\_use indicator indicates whether a given e is currently active. Value returned is 'Y' when active and 'N' when no longer active.
- **SPECIES\_BY\_ENDORSEMENT** - returns list of rows with 6 columns (name, species\_itis, endorsement type, health\_dept, area, in\_use flag). The HEALTH\_DEPT field has a value of Y or N indicating whether this species requires the dept. of health fields. The AREA field has a value of Y or N indicating whether the area fished is required for this species. The in\_use indicator indicates whether a given row is currently active. Value returned is 'Y' when active and 'N' when no longer active.
- **SPECIES\_BY\_LICENSE** - returns list of rows with 6 columns (name, species\_itis, license\_type, health\_dept, area, in\_use flag). The HEALTH\_DEPT field has a value of Y or N indicating whether this species requires the dept. of health fields. The AREA field has a value of Y or N indicating whether the area fished is required for this species. The in\_use indicator indicates whether a given row is currently active. Value returned is 'Y' when active and 'N' when no longer active.

**P\_LASTDATE** (*optional*) changes made since a given date. Format is MM/DD/YYYY hh24:mi:ss. So a representation of Dec 27<sup>th</sup> 2010 2:45p.m. would be given as 12/27/2010 14:45:00 While optional, the p\_lastdate is highly recommended to increase performance since it only returns a smaller list when a minimum date is used.

**P\_LICENSE** (*optional*) filter the endorsements with a given license number. This field must be omitted to get the full list.

### Description:

Fetch a list of valid values for a specified list noted in p\_listname above. Returned as a JSON encoded object. If no rows exist, there will be no data, and status record will indicate zero errors

### Authorization Header:

@apikey

### Example Request Body:

```
{
  "p_partner":"0023",
  "p_listname":"VESSELS_ON_LICENSE",
  "p_license":"123456",
  "p_lastdate":"12/27/2010 14:45:00 "
}
```

**Rows response**

If there are no errors a status response of OK is returned. The row response varies based on the type of P\_LISTNAME that was passed in.

For vessels\_on\_license, the format is as follows.

```
row[n].VESSEL_ID
      NAME
      COAST_GUARD
      STATE_REG
      LICENSE_NBR
      IN_USE
.status
.description
```

For endorsements on license, the format is as follows.

```
row[n]. LICENSE_NBR
      ENDORSEMENT_TYPE
      IN_USE
```

For species\_by\_endorsement, the format is as follows.

```
row[n].ENDORSEMENT_TYPE
      SPECIES_ITIS
      NAME
      HEALTH_DEPT
      IN_USE
.status
.description
```

For species\_by\_license, the format is as follows.

```
row[n].LICENSE_TYPE
      SPECIES_ITIS
      NAME
      HEALTH_DEPT
      IN_USE
.status
.description
```

## NEG\_REPORTS\_UPLOAD - send a set of negative dealer reports to safis

### Parameters:

NEG\_REPORTS table of neg\_reports records (see description below)

### Description:

The calling app will compose a table of negative dealer report records to upload, note that since they are submitted as the body of an http POST request they are all char data even if the underlying datatype is date or number.

The data values are submitted as a collection of rows with each value denoting the type and column number it belongs.

Below is a list of the valid columns expected to make a complete row. All fields but the end date are required:

DEA\_LICENSE\_NBR - (valid alphanumeric field)  
 ISS\_AGENCY - (valid alphanumeric field)  
 START\_DATE - (MM/DD/YYYY)  
 END\_DATE - (MM/DD/YYYY) must be empty or greater than START\_DATE  
 SUPPLIER\_ROW\_ID - numerical field

It returns an event\_id to the calling application, which can be used to check the status of the upload, and once it is finished The EVENT ID can be used to fetch any records that had errors.

### Authorization Header:

username@apikey:password

### Example Request Body:

```
{
  "neg_reports":[
    {
      "supplier_row_id":"1231231",
      "iss_agency":"0003",
      "start_date":"11/22/2015",
      "end_date":"11/22/2015",
      "dea_license_nbr":"999999"
    },
    {
      "supplier_row_id":"12312331",
      "iss_agency":"0003",
      "start_date":"11/23/2015",
      "end_date":"11/23/2015",
      "dea_license_nbr":"999999"
    }
  ]
}
```

### Row response

a status of OK is returned, with a single row that has same format at the UPLOAD\_LIST API, but for just this one upload

.row[n].event\_id            the unique event\_id for this upload assigned by the system  
    upload\_date when the upload was processed,  
                            this might be some time after the user submitted it  
    process\_date            the date of processing completion  
    total\_count            count of the total reports entered for this event. Note that  
date range counts as one.  
    errorred\_count         count of rows that had an error of some kind. If the value is  
                            more than 0, NEG\_REPORTS\_UPLOAD\_ERRORS should be called to  
                            get the details

.status  
.description

## NEG\_REPORTS\_UPLOAD\_ERRORS - fetch a list of errors from negative dealer reports that didn't load

**Parameters:**

P\_EVENT\_ID      id from previous neg\_upload command

**Description:**

Fetch any errors in the records from this event id. Returned as a JSON encoded object. If no rows had errors there will be no data, and status record will indicate zero errors

**Authorization Header:**

username@apikey:password

**Example Request Body:**

```
{  
  "p_event_id":"12345"  
}
```

**Rows response**

If there are no errors a status response of OK is returned, with a no rows. In this case the .rows.length property is zero.

The format returned is has 3 rows with addition of an ERR\_DESC field at the start. That is used to hold the explanation of what is wrong with the record. The supplier\_row\_id is a row identifier that helps reference the original row passed by neg\_upload. Event\_id is the event id number given by neg\_upload identifying the upload.

```
row[n].ERR_DESC  
  SUPPLIER_ROW_ID  
  EVENT_ID  
  
  .status  
  .description
```