

# SAM Reference Data API Integration Guide

Version 1.0

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# SAM Reference Data Overview

## Business Information in SAM Reference Data

Partners use SAM reference data to ensure that all TAS-BETC information is up to date and correct. If transactions enter CARS with invalid TASes or BETCs, those transactions will default instead of posting to the intended account. This will necessitate research from agencies and reclassification of these transactions. Sending this information into CARS correctly will post transactions successfully on initial load and save agencies time.

Partners can also retrieve a list of ALCs including contact information for those locations. This can be used for reference purposes or to populate a list of valid ALCs.

## Page Size

By default, all SAM Reference Data APIs return 20 items to a page. This number can be increased to return up to 1000 items on a page by entering the pageSize parameter in the URL. For searches that return more than 1000 results, the pageNo can be included in the URL as a parameter and incremented to get more results.

As an example, the All ALCs search returns over 1000 results. The following URL will return results on page 2 of a search for All ALCs where the page size is set to return 1000 results on a page:

```
https://api-  
preprod.fiscal.treasury.gov/aps/{env}/exp/v1/sam/alcs/search?pageNo=2&pageSize=1000
```

## Authentication

To gain access to the SAM Reference Data APIs, users must first onboard to Mulesoft. When these permissions are requested, users will specify if they need access to ALC information, TAS-BETC information, or both.

Once Mulesoft access is configured, users will authenticate through Mulesoft, which will create a token that CARS can authenticate. Services within CARS will read and verify the token, including which sections of the API the user can access. Included is the CARS token is user Access Group information. This will limit specific ALC or TAS-BETC information that users can see. Users will not be able to see reference data they would not be able to access within the CARS application. For example, if your user only has access to

Department of Treasury accounts, only Department of Treasury accounts will be visible in the API. Attempting to view information for other agencies will return a message that user does not have the proper privileges to view the information.

For information on configuring user access to APIs, please see the PDF on the Bureau of the Fiscal Service website here: <https://www.fiscal.treasury.gov/files/sam/accessing-sam-reference-data-apis-in-mulesoft.pdf>

## Searching TAS-BETC Information

Users can search valid TAS-BETCs using the POST URL below. Note that the proper environment must be referenced in the URL.

<https://api-preprod.fiscal.treasury.gov/aps/{environment}/exp/v1/sam/trading-partner/account-details>

Several fields are usable as search parameters. Parameters are added to the request body in JSON format. Only those parameters that you want included need to be listed in the request body. Any field not included will include all TAS-BETCs that otherwise meet the criteria.

Most parameters for the TAS-BETC search are single value parameters. For example, you can limit results to TAS with agency identifier 020, but not to TAS with agency identifier 020 or 021. However, multiple parameters can be combined to further narrow a search. For example, you can search for TAS with an agency identifier of 020 and an ending period of availability of 2025. When using multiple parameters, the parameters must be separated with a comma.

Example request body:

```
{  
  "agencyId": "068",  
  "availabilityTypeCode": "X"  
}
```

A list of parameters is below. If a parameter's name is entered incorrectly, the API will ignore it (for example, if you enter 'businessEventTypeCd' instead of 'businessEventTypeCode', all BETCs will be included in search results). The example input column reflects the proper way to enter the value in the request body (i.e., if the example is enclosed in double quotation marks, that is how it should be entered in the request body).

Parameter	Description	Example Input
businessEventTypeCode	BETC	“COLL”
starTas	String TAS	“44X1234.1”
availabilityTypeCode	Identifies periods of availability not tied to specific years. Values are X (no year accounts), F (clearing or suspense accounts) and A (General Ledger accounts)	“X”
subLevelPrefixCode	Programmatic breakdown of the account for Treasury publication purposes	“12”
allocationTransferAgencyIdentifier	Agency Identifier of the agency that manages an account owned by another agency	“042”
agencyId	Identifies the agency that owns an account	“020”
managingAgencyId	Identifies the agency that manages the account. In an account with an ATA, this will be the transfer agency. Otherwise, it will be the owning agency.	“013”
beginningPeriodOfAvailability	The first fiscal year that an account is available for use	“2025”
endingPeriodOfAvailability	The final fiscal year that an account is available for use (note that an account will remain open for five years after its EPOA)	“2025”
mainAccountCode	Identifies the type and purpose of the fund	["1234", "4321"]
subAccountCode	Identifies Treasury-defined subdivisions of a main account	“001”
state	Indicates whether an account is expired, not expired (open or closed) or active. These entries are in all caps.	“NOTEXPIRED”, “EXPIRED”, “ACTIVE”

systemTypeCode	Entered as an array to show which systems the TAS-BETC is valid for	[“Collection”, “IPC”, “Payment”, “NTDOPMT”]
debitCreditIndicator	Credit or Debit, entered as uppercase C or D	“C”

An example of the JSON output the API returns is available in Mulesoft. Fields returned that are not available as parameters are defined in the table below.

Field	Description
id	System generated number that uniquely identifies an account in the database
accountSymbolText	String TAS
accountSymbolName	The title of the account
accountSymbolStartDate	The date the account was established
accountSymbolEndDate	The date the account was closed (null if the account is still open)
isValidAccountSymbol	Indicates if the TAS is usable
accountTypeCode	Indicates what kind of account this is, for example, Unavailable Receipt
accountTypeDescription	Text description of the account type code
legislativeBureauCode	Code for the bureau that owns or manages the account
fundTypeCode	Indicates the kind of fund this account belongs to, for example, the General Fund
fundTypeDescription	Text description of the fund type code
managingAgency: agencyName	Name of the agency that manages the account
businessEventTypeRecords: accountSuspendDate	Date that the TAS-BETC was suspended (null if not suspended)
businessEventTypeRecords: accountEffectiveDate	Date that the TAS-BETC became a valid combination
accountEndDate	Date that the TAS-BETC closed (null if still open)
businessEventType: businessEventTypeName	Text description of the Business Event Type Code

internalClassification: coManagingAgencyCode	Agency ID of other agency that owns account on a transfer account
internalClassification:subClassificationSymbol	The sub-class or sub-level prefix code for an account
internalClassification:internalAccountSymbolText	String TAS
internalClassification:FiscalYearText	Text string with either two digit BPOA/EPOA or Availability Type Code

## Active and Inactive ALC List

Users can retrieve a list of all active and inactive ALCs through the GET URL below. Note that users must specify the environment in the URL.

<https://api-preprod.fiscal.treasury.gov/aps/{environment}/exp/v1/sam/alcs/search>

Only ALCs that a user has access to will return in the list of results. The URL accepts no further parameters. To use parameters in an ALC search, see the next section.

An example of the JSON output the API returns is available in Mulesoft. Fields returned are defined in the next section.

## Search ALCs

Users can search ALC information using a POST request at the URL below. Note that users must enter the environment in the URL.

<https://api-preprod.fiscal.treasury.gov/ap/{environment}/exp/v1/sam/alcs/search>

Three parameters are available for the ALC search. Parameters are added to the request body.

ALC search parameters are arrays, which means that users can input multiple parameters as an 'or' search. For example, users can enter multiple values for the cgacAgencyIds parameter which will return ALCs belonging to any of the listed agencies.

An example request body that searches for active ALCs belonging to one of three agencies.

```
{
  "isActiveAlcOnly": true,
```

```

"cgacAgencyIds": [
  "017", "020", "068"
]
}

```

A list of parameters is below. If a parameter's name is entered incorrectly, the API will ignore it (for example, if you enter 'alcTypeCds' instead of 'alcTypeCodes', all ALC Type Codes will be included in search results). The example input column reflects the proper way to enter the value in the request body (i.e., if the example is enclosed in double quotation marks, that is how it should be entered in the request body).

Parameter	Description	Example Input
isActiveAlcOnly	Will limit the list of results to only active ALCs if set to true	true
cgacAgencyIds	Three digit agency identifier of agency that owns ALC	"020"
alcTypeCodes	Indicates what kind of ALC will return in results	"TDORPTAUD"

An example of the JSON output the API returns is available in Mulesoft. Fields returned that are not available as parameters are defined in the table below.

Field	Description
alcAgencyName	Name of the agency that owns the ALC
alcBureauName	Name of the owning bureau within the agency that owns the ALC
alcLegislativeBureauCode	Two digit code number for owning bureau
alcLegacyBureauCode	Bureau code in string format (no leading zero)
alcAgencyLocationCode	Eight digit agency location code
alcAgencyIdentifier	Three digit ID for the agency that owns the ALC
alcDepartmentRegularCode	Two digit code for the agency that owns the ALC
alcAgencyLocationTypeCode	Indicates what kind of ALC this is (e.g., TDORPTAUD)
alcSuccessorCode	ALC that receives this ALC's information upon closure
alcOrganizationalIdentifier	System generated number that uniquely identifies an ALC in the database
alcOrganizationalTitle	Title of ALC

alcOrganizationalDisplayName	ALC name that appears in CARS reports
alcOrganizationEstablishedDate	Date that ALC opened
alcOrganizationDissolvedDate	Date that ALC closed
alcAgencyAddress: cityName	Name of the city where the ALC resides
alcAgencyAddress: postalCode	The ALC's zip code
alcAgencyAddress: stateCode	Name of the state where the ALC resides
alcAgencyAddress: addressLine	Street address or P.O. Box of the ALC
alcAgencyContactInfos: contactTitle	Honorific for ALC contact person
alcAgencyContactInfos: personName: fullName	Name of the ALC's contact person
alcAgencyContactInfos: phone: phoneNumber	Phone number for the ALC's contact person
alcAccountingReportingStatus: reportingStatusTimestamp	Date and time the ALC became a full reporter for the listed system type
alcAccountingReportingStatus: reportingTransactionEffectiveDate	Date only that the ALC became a full reporter for the listed system type
alcAccountingReportingStatus: isBusinessTransactionTypeReporter	System type for which ALC is a full reporter
alcAccountingReportingStatus: businessTransactionTypeCode	Code for system type for which ALC is a full reporter

## Open API Specification

Open API specifications as well as the RAML for all APIs are available in Mulesoft. To find these, log in to Mulesoft and navigate to the SAM Experience API. Specifications are available from the Download menu at the top right of the page.