



PSC Public API documentation

Prepared for

General Services Administration (GSA)
Integrated Award Environment (IAE)

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1. Overview

PSC API provides PSC data (PSC Code, PSC Name, PSC Full Name, Status, Parent PSC Code, Start Date, End date and updated date etc.) based on the request parameters.

This API supports pagination as needed.

2. PSC API Request Parameters

Users can search by any of the below request parameters.

Table 1: PSC Request Parameters

Request Parameters that API accepts	Description	Mandatory?	Data Type
api_key	Public Key of users	Yes	String
searchby	Users can search by <ul style="list-style-type: none"> - group - parentpsc - psc <i>Note: If searchby is used, then appropriate search term (q) respective to the searchby should be provided.</i>	No	String
q	Search term for users to search PSC data <i>Note:</i> <ul style="list-style-type: none"> - If searchby = group, then enter q = product OR q = service OR q=RD to get respective PSC Codes - If searchby = parentpsc, then enter q = any parent PSC code that users wish to search for - If searchby = psc, then enter q= any PSC code that users wish to search for - If searchby = group and q=product, then API provides PSC codes whose first 2 digits start with (10-99) - If searchby = group and q=service, then API provides PSC codes whose first 2 digits start with (B-Z) (1-9) - If searchby = group and q=RD, then API provides PSC codes whose first digit starts with A 	No	String

size	Size of PSC code	No	String
active	Status of PSC Code Active = Y = Active PSC Code Active = N = Inactive PSC Code Active = ALL = Both active and inactive PSC code Default value is Active = ALL	No	String
startDateFrom	Start Date Range From <i>Note: Format is YYYY-MM-DD</i>	No	String
startDateTo	Start Date Range To <i>Note: Format is YYYY-MM-DD</i>	No	String
endDateFrom	End Date Range From <i>Note: Format is YYYY-MM-DD</i>	No	String
endDateTo	End Date Range To <i>Note: Format is YYYY-MM-DD</i>	No	String
updatedDateFrom	Updated Date Range From <i>Note: Format is YYYY-MM-DD</i>	No	String
updatedDateTo	Updated Date Range To <i>Note: Format is YYYY-MM-DD</i>	No	String
limit	This field must be a number. Total number of records to be retrieved per page. <i>NOTE: If limit is not provided, this field will return maximum of 100 records.</i>	No	Int
offset	Indicates the page index. Default offset starts with 0	No	Int

3. PSC API Response Parameters

Based on the request parameters, API provides below response parameters.

Table 2: PSC API Response Parameters

Response Parameters that API provides	Description	Data Type
pscID	System generated ID of a PSC Code	Int
pscCode	PSC Code	String
pscName	PSC Name	String
pscFullName	PSC Full Name	String
activeInd	Active status indicator activeInd = Y = active activeInd = N = inactive	String
pscNote	PSC Code Notes	String
pscinclude	PSC Code Inclusion	String

pscExclude	PSC Code Exclusion	String
parentPscCode	PSC code of the parent PSC	String
activeStartDate	Start date of the PSC Code	
activeEndDate	End date of the PSC Code	
updatedAt	Date when PSC code was last updated	

4. Examples

URLs for production and staging:

- Beta (Production) Production URL:
<https://api.sam.gov/prod/locationservices/v1/api/publicpscdetails>
- Alpha (Staging) URL: <https://api-alpha.sam.gov/prodlike/locationservices/v1/api/publicpscdetails>

4.1 Example 1: Search for PSC Codes with start date between a given date range

Request URL

https://api-alpha.sam.gov/prodlike/locationservices/v1/api/publicpscdetails?api_key={User's Public API Key}&active=ALL&startDateFrom=1978-01-01&endDateTo=2015-01-01

Note: Request URL for staging is used in this example

Response

```
[
  {
    "pscId": 2,
    "pscCode": "1000",
    "pscName": "EXPIRED",
    "activeInd": "N",
    "parentPscCode": "10",
    "activeStartDate": "2003-12-12",
    "activeEndDate": "2006-10-01",
    "updatedAt": "2017-09-09"
  },
  {
    "pscId": 4,
```

```
"pscCode": "1005",
"pscName": "GUNS, THROUGH 30 MM",
"pscFullName": "Guns, through 30 mm",
"pscInclude": "Machine guns; Brushes, Machine Gun and Pistol.",
"activeInd": "N",
"pscExclude": "Turrets, Aircraft.",
"parentPscCode": "10",
"activeStartDate": "1978-10-15",
"activeEndDate": "2011-09-30",
"updatedAt": "2017-09-09"
},
{
  "pscId": 6,
  "pscCode": "1010",
  "pscName": "GUNS, OVER 30 MM UP TO 75 MM",
  "pscFullName": "Guns, over 30 mm up to 75 mm",
  "pscInclude": "Breech Mechanisms; Mounts Grenade Launchers for Integral-
Cartridge Grenades, Single-Shot or Auto-Loading or Automatic-Firing.",
  "activeInd": "N",
  "parentPscCode": "10",
  "activeStartDate": "1978-10-15",
  "activeEndDate": "2011-09-30",
  "updatedAt": "2017-09-09"
},
{
  "pscId": 8,
  "pscCode": "1015",
  "pscName": "GUNS, 75 MM THROUGH 125 MM",
  "pscFullName": "Guns, 75 mm through 125 mm",
  "pscInclude": "Breech Mechanisms; Mounts; Rammers.",
  "activeInd": "N",
  "parentPscCode": "10",
  "activeStartDate": "1978-10-15",
  "activeEndDate": "2011-09-30",
  "updatedAt": "2017-09-09"
},
{
  "pscId": 10,
  "pscCode": "1020",
```

```
"pscName": "GUNS OVER 125 MM THROUGH 150 MM",
"pscFullName": "Guns, over 125 mm through 150 mm Includes Breech
Mechanisms, Power Drives; Gun Shields.",
"activeInd": "N",
"parentPscCode": "10",
"activeStartDate": "1978-10-15",
"activeEndDate": "2011-09-30",
"updatedDate": "2017-09-09"
},
{
"pscId": 12,
"pscCode": "1025",
"pscName": "GUNS OVER 150 MM THROUGH 200 MM",
"pscFullName": "Guns, over 150 mm through 200 mm Includes Firing Platforms;
Mounts; Gun Shields.",
"activeInd": "N",
"parentPscCode": "10",
"activeStartDate": "1978-10-15",
"activeEndDate": "2011-09-30",
"updatedDate": "2017-09-09"
},
{
"pscId": 14,
"pscCode": "1030",
"pscName": "GUNS OVER 200 MM THROUGH 300 MM",
"pscFullName": "Guns, over 200 mm through 300 mm Includes Gun Yokes;
Rammers; Reflectors.",
"activeInd": "N",
"parentPscCode": "10",
"activeStartDate": "1978-11-15",
"activeEndDate": "2011-09-30",
"updatedDate": "2017-09-09"
},
{
"pscId": 16,
"pscCode": "1035",
"pscName": "GUNS, OVER 300 MM",
"pscFullName": "Guns, over 300 mm",
"pscInclude": "Breech Mechanisms; Training Gears; Power Drives.",
```

```

    "activeInd": "N",
    "parentPscCode": "10",
    "activeStartDate": "1979-01-15",
    "activeEndDate": "2011-09-30",
    "updatedDate": "2017-09-09"
  },
  {
    "pscId": 22,
    "pscCode": "1075",
    "pscName": "DEGAUSSING & MINE SWEEPING EQUIPMEN",
    "pscFullName": "Degaussing and Mine Sweeping Equipment",
    "activeInd": "N",
    "parentPscCode": "10",
    "activeStartDate": "1978-10-15",
    "activeEndDate": "2011-09-30",
    "updatedDate": "2017-09-09"
  },
  {
    "pscId": 25,
    "pscCode": "1090",
    "pscName": "WPNS ASSY INTERCHANGE BETWN 2/MORE",
    "pscFullName": "Assemblies Interchangeable Between Weapons in Two or More
Classes",
    "pscInclude": "Components and Accessories used on or with weapons falling in two
or more classes of group 10.",
    "activeInd": "N",
    "parentPscCode": "10",
    "activeStartDate": "1978-10-15",
    "activeEndDate": "2011-09-30",
    "updatedDate": "2017-09-09"
  }
]

```

4.2 Example 2: Search for PSC codes starting with ‘15’

Request URL

https://api-alpha.sam.gov/prodlike/locationservices/v1/api/publicpscdetails?api_key={User's Public API Key}&q=15&active=ALL

Note: Request URL for staging is used in this example

Response

```
[
  {
    "pscId": 128,
    "pscCode": "15",
    "pscName": "AIRCRAFT/AIRFRAME STRUCTURE COMPTS",
    "activeInd": "N",
    "activeStartDate": "1979-10-01",
    "activeEndDate": "2015-09-30",
    "updatedAt": "2017-07-09"
  },
  {
    "pscId": 129,
    "pscCode": "15",
    "pscName": "AEROSPACE CRAFT AND STRUCTURAL COMPONENTS",
    "activeInd": "Y",
    "activeStartDate": "2015-10-01",
    "updatedAt": "2017-07-09"
  },
  {
    "pscId": 130,
    "pscCode": "1510",
    "pscName": "AIRCRAFT, FIXED WING",
    "pscFullName": "Aircraft, Fixed Wing",
    "activeInd": "Y",
    "pscNote": "This class includes only complete aircraft. End items, assemblies, parts,
    attachments, or accessories for use in or on fixed wing aircraft are classified in classes other
    than this class.",
    "parentPscCode": "15",
    "activeStartDate": "1978-10-15",
    "updatedAt": "2017-07-09"
  },
  {
    "pscId": 131,
    "pscCode": "1520",
    "pscName": "AIRCRAFT, ROTARY WING",
```

```

    "pscFullName": "Aircraft, Rotary Wing",
    "pscInclude": "Helicopters.",
    "activeInd": "Y",
    "pscNote": "This class includes only complete aircraft. End items, assemblies, parts,
attachments, or accessories for use in or on rotary wing aircraft are classified in classes other
than this class.",
    "parentPscCode": "15",
    "activeStartDate": "1978-10-15",
    "updatedAt": "2017-07-09"
  },
  {
    "pscId": 132,
    "pscCode": "1540",
    "pscName": "GLIDERS",
    "pscFullName": "Gliders",
    "pscInclude": "Motorized Gliders.",
    "activeInd": "Y",
    "pscNote": "This class includes only complete gliders. End items, assemblies, parts,
attachments, or accessories for use in or on gliders are classified in classes other than this class.",
    "parentPscCode": "15",
    "activeStartDate": "1979-05-15",
    "updatedAt": "2017-07-09"
  },
  {
    "pscId": 133,
    "pscCode": "1550",
    "pscName": "DRONES",
    "pscFullName": "Drones",
    "pscInclude": "Drones specifically designed for such uses as targets, training,
surveillance, missile evaluation, and photographic reconnaissance.",
    "activeInd": "N",
    "pscExclude": "Piloted aircraft and guided missiles converted to drone use.",
    "pscNote": "This class includes only complete drones. End items, assemblies, parts,
attachments, or accessories for use in or on drones are classified in classes other than this class.",
    "parentPscCode": "15",
    "activeStartDate": "1978-10-15",
    "activeEndDate": "2011-09-30",
    "updatedAt": "2017-07-09"
  },
}

```

```
{
  "pscId": 134,
  "pscCode": "1550",
  "pscName": "UNMANNED AIRCRAFT",
  "pscFullName": "Drones",
  "pscInclude": "Drones specifically designed for such uses as targets, training,
surveillance, missile evaluation, and photographic reconnaissance.",
  "activeInd": "Y",
  "pscExclude": "Piloted aircraft and guided missiles converted to drone use.",
  "pscNote": "This class includes only complete drones. End items, assemblies, parts,
attachments, or accessories for use in or on drones are classified in classes other than this class.",
  "parentPscCode": "15",
  "activeStartDate": "2011-10-01",
  "updatedAt": "2017-07-09"
},
{
  "pscId": 135,
  "pscCode": "1555",
  "pscName": "SPACE VEHICLES",
  "activeInd": "Y",
  "pscNote": "This class includes only complete space vehicles in assembled or
unassembled form.",
  "parentPscCode": "15",
  "activeStartDate": "2015-10-01",
  "updatedAt": "2017-07-09"
},
{
  "pscId": 136,
  "pscCode": "1560",
  "pscName": "AIRFRAME STRUCTURAL COMPONENTS",
  "pscFullName": "Airframe Structural Components",
  "pscInclude": "Flight Control Surfaces, internal and external Auxiliary Fuel Tanks;
Exhaust Systems, Pylons, Trim Tabs; Aircraft.",
  "activeInd": "Y",
  "pscExclude": "Fitted Covers; Helicopter Rotor Brake System and Components;
Aircraft Loose Equipment and Alternate Mission Configuration Equipment stored on board the
Aircraft.",
```

"pscNote": "This class includes fabricated system parts that are permanently attached or peculiar to the integral airframe of an aircraft, such as support structural components, spars, ribs, ailerons, stablizers, bulkheads.",

"parentPscCode": "15",
"activeStartDate": "1978-10-15",
"updatedAt": "2017-07-09"

},
{

"pscId": 10,
"pscCode": "1020",
"pscName": "GUNS OVER 125 MM THROUGH 150 MM",
"pscFullName": "Guns, over 125 mm through 150 mm Includes Breech Mechanisms, Power Drives; Gun Shields.",

"activeInd": "N",
"parentPscCode": "10",
"activeStartDate": "1978-10-15",
"activeEndDate": "2011-09-30",
"updatedAt": "2017-07-09"

},
{

"pscId": 9,
"pscCode": "1020",
"pscName": "GUNS, OVER 125MM THROUGH 150MM",
"pscFullName": "Guns, over 125 mm through 150 mm Includes Breech Mechanisms, Power Drives; Gun Shields.",

"activeInd": "Y",
"parentPscCode": "10",
"activeStartDate": "2011-10-01",
"updatedAt": "2017-07-09"

},
{

"pscId": 12,
"pscCode": "1025",
"pscName": "GUNS OVER 150 MM THROUGH 200 MM",
"pscFullName": "Guns, over 150 mm through 200 mm Includes Firing Platforms; Mounts; Gun Shields.",

"activeInd": "N",
"parentPscCode": "10",
"activeStartDate": "1978-10-15",

```

    "activeEndDate": "2011-09-30",
    "updatedAt": "2017-07-09"
  },
  {
    "pscId": 11,
    "pscCode": "1025",
    "pscName": "GUNS, OVER 150MM THROUGH 200MM",
    "pscFullName": "Guns, over 150 mm through 200 mm Includes Firing Platforms;
Mounts; Gun Shields.",
    "activeInd": "Y",
    "parentPscCode": "10",
    "activeStartDate": "2011-10-01",
    "updatedAt": "2017-07-09"
  }
]

```

4.3 Example 3: Search for PSC Codes which belong to product group

Request URL

https://api-alpha.sam.gov/prodlike/location/services/v1/api/publicpscdetails?api_key={User's Public API Key}&searchby=group&q=product&active=ALL&limit=10

Note: Request URL for staging is used in this example

Response

```

[
  {
    "pscId": 1,
    "pscCode": "10",
    "pscName": "WEAPONS",
    "activeInd": "Y",
    "pscNote": "This group includes combat weapons as well as weapon-like noncombat
items, such as line throwing devices and pyrotechnic pistols. Also included in this group are
weapon neutralizing equipment, such as degaussers, and deception equipment, such as
camouflage nets. Excluded from this group are fire control and night devices classifiable in
groups 12 or 58.",
    "activeStartDate": "1979-10-01",

```

```
"updatedAt": "2017-07-09"
},
{
  "pscId": 2,
  "pscCode": "1000",
  "pscName": "EXPIRED",
  "activeInd": "N",
  "parentPscCode": "10",
  "activeStartDate": "2003-12-12",
  "activeEndDate": "2006-10-01",
  "updatedAt": "2017-07-09"
},
{
  "pscId": 4,
  "pscCode": "1005",
  "pscName": "GUNS, THROUGH 30 MM",
  "pscFullName": "Guns, through 30 mm",
  "pscInclude": "Machine guns; Brushes, Machine Gun and Pistol.",
  "activeInd": "N",
  "pscExclude": "Turrets, Aircraft.",
  "parentPscCode": "10",
  "activeStartDate": "1978-10-15",
  "activeEndDate": "2011-09-30",
  "updatedAt": "2017-07-09"
},
{
  "pscId": 3,
  "pscCode": "1005",
  "pscName": "GUNS, THROUGH 30MM",
  "pscFullName": "Guns, through 30 mm",
  "pscInclude": "Machine guns; Brushes, Machine Gun and Pistol.",
  "activeInd": "Y",
  "pscExclude": "Turrets, Aircraft.",
  "parentPscCode": "10",
  "activeStartDate": "2011-10-01",
  "updatedAt": "2017-07-09"
},
{
  "pscId": 5,
```

```
"pscCode": "1010",
"pscName": "GUNS, OVER 30MM UP TO 75MM",
"pscFullName": "Guns, over 30 mm up to 75 mm",
"pscInclude": "Breech Mechanisms; Mounts Grenade Launchers for Integral-Cartridge
Grenades, Single-Shot or Auto-Loading or Automatic-Firing.",
"activeInd": "Y",
"parentPscCode": "10",
"activeStartDate": "2011-10-01",
"updatedAt": "2017-07-09"
},
{
  "pscId": 6,
  "pscCode": "1010",
  "pscName": "GUNS, OVER 30 MM UP TO 75 MM",
  "pscFullName": "Guns, over 30 mm up to 75 mm",
  "pscInclude": "Breech Mechanisms; Mounts Grenade Launchers for Integral-Cartridge
Grenades, Single-Shot or Auto-Loading or Automatic-Firing.",
  "activeInd": "N",
  "parentPscCode": "10",
  "activeStartDate": "1978-10-15",
  "activeEndDate": "2011-09-30",
  "updatedAt": "2017-07-09"
},
{
  "pscId": 7,
  "pscCode": "1015",
  "pscName": "GUNS, 75MM THROUGH 125MM",
  "pscFullName": "Guns, 75 mm through 125 mm",
  "pscInclude": "Breech Mechanisms; Mounts; Rammers.",
  "activeInd": "Y",
  "parentPscCode": "10",
  "activeStartDate": "2011-10-01",
  "updatedAt": "2017-07-09"
},
{
  "pscId": 8,
  "pscCode": "1015",
  "pscName": "GUNS, 75 MM THROUGH 125 MM",
  "pscFullName": "Guns, 75 mm through 125 mm",
```

```
"pscInclude": "Breech Mechanisms; Mounts; Rammers.",
"activeInd": "N",
"parentPscCode": "10",
"activeStartDate": "1978-10-15",
"activeEndDate": "2011-09-30",
"updatedAt": "2017-07-09"
},
{
  "pscId": 10,
  "pscCode": "1020",
  "pscName": "GUNS OVER 125 MM THROUGH 150 MM",
  "pscFullName": "Guns, over 125 mm through 150 mm Includes Breech Mechanisms,
Power Drives; Gun Shields.",
  "activeInd": "N",
  "parentPscCode": "10",
  "activeStartDate": "1978-10-15",
  "activeEndDate": "2011-09-30",
  "updatedAt": "2017-07-09"
},
{
  "pscId": 9,
  "pscCode": "1020",
  "pscName": "GUNS, OVER 125MM THROUGH 150MM",
  "pscFullName": "Guns, over 125 mm through 150 mm Includes Breech Mechanisms,
Power Drives; Gun Shields.",
  "activeInd": "Y",
  "parentPscCode": "10",
  "activeStartDate": "2011-10-01",
  "updatedAt": "2017-07-09"
}
]
```

5. API Versions

Version 1.0

6. Authentication and API Keys

Users of this public API must provide an API key to use this PSC public API. Request per day are limited based on the federal or non-federal or general roles.

Note: Users can request a public API Key in their Account Details page on beta.sam.gov (if on production) or on alpha.sam.gov (if on staging)

7. HTTP Response Codes

- 200 - Success
- 404 – No Data found
- 400 – Bad Request
- 500 – Internal Server Error

8. Error Messages

#	Scenario	Error Messages
1	User enters an invalid date in startDateFrom. E.g. 201-hh-0j	Please pass a valid date for startDateFrom in the format yyyy-mm-dd
2	User enters an invalid date in startDateTo. E.g. 201-hh-0j	"Please pass a valid date for startDateTo in the format yyyy-mm-dd"
3	User enters an invalid date in endDateFrom. E.g. 201-hh-0j	"Please pass a valid date for endDateFrom in the format yyyy-mm-dd"
4	User enters an invalid date in endDateTo. E.g. 201-hh-0j	"Please pass a valid date for endDateTo in the format yyyy-mm-dd"
5	User enters an invalid date in updatedDateFrom. E.g. 201-hh-0j	"Please pass a valid date for updatedDateFrom in the format yyyy-mm-dd"
6	User enters an invalid date in updatedDateTo. E.g. 201-hh-0j	"Please pass a valid date for updatedDateTo in the format yyyy-mm-dd"
7	User enters a startDateFrom greater than startDateTo	startDateFrom cannot be greater than startDateTo

8	User enters a endDateFrom greater than endDateFrom	"endDateFrom cannot be greater than endDateFrom "
9	User enters a updatedDateFrom greater than updatedDateTo	"updatedDateFrom cannot be greater than updatedDateTo"