FPDS Atom Feed vs
SAM Contract API

Contents

1. Introduction

FPDS currently provides Atom Feeds to users wishing to pull contract data in a contract writing or other systems. This service is aimed primarily at federal systems, though it is available for anyone.

SAM will replace and enhance the FPDS Atom Feed with a RESTful API. This API will provide the same role of serving federal systems with contract data.

This document will outline the critical differences in schema and approach between the FPDS Atom Feed and the SAM Contract API to help bridge the gap in testing and provide direction for downstream system consumers.

2. High-Level Differences

	FPDS Web Service	**SAM Contract API**
Protocol	SOAP	REST
Format	XML	JSON
Authentication	Username / Password	API Key
Roles	● Public ● Government (Civilian) ● Government (DoD) ● System	● Public ● FOUO (Civilian) ● FOUO (DoD) ● System
Access Control	Role tied to FPDS account	● Role tied to SAM account ● IP address whitelisting (System Account)
Request Schema Approach	Request parameters to allow for request construction	Currently supported request parameters and new parameters to allow for additional customized requests.
Response Schema Approach	All contract data provided based on role	All contract data provided based on role

3. FPDS Atom Feed vs SAM Contract API Request Differences

See below for the FPDS Atom Feed request parameter and the SAM Contract API equivalent:

FPDS Atom Feed	SAM Contract API
APPROVED_BY	approvedBy
APPROVED_DATE	approvedDate
SOCIO_ECONOMIC_INDICATORS	awardeeBusinessTypeName
CAGE_CODE	awardeeCageCode
VENDOR_ADDRESS_CITY	awardeeCityName
VENDOR_CONGRESS_DISTRICT_CODE	awardeeCongressionalDistrict
VENDOR_ADDRESS_COUNTRY_CODE	awardeeCountryCode
VENDOR_ADDRESS_COUNTRY_Name	awardeeCountryName
VENDOR_DOING_BUSINESS_AS_NAME	awardeeDoingBusinessAsName
UEI_NAME/VENDOR_NAME	awardeeLegalBusinessName
VENDOR_ADDRESS_STATE_CODE	awardeeStateCode
VENDOR_ADDRESS_STATE_NAME	awardeeStateName
VENDOR_UEI	awardeeUniqueEntityId
VENDOR_ADDRESS_ZIP_CODE	awardeeZipCode
CONTRACT_TYPE	awardOrIDV
LEGISLATIVE_MANDATES	clingerCohenActName
CLOSED_BY	closedBy
CLOSED_DATE	closedDate
CLOSED_STATUS	closedStatus
LEGISLATIVE_MANDATES	constructionWageRateRequirementsName
DEPARTMENT_ID	contractingDepartmentCode
DEPARTMENT_NAME	contractingDepartmentName

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CONTRACTING_OFFICE_ID	contractingOfficeCode
CONTRACTING_AGENCY_ID	contractingSubtierCode
CONTRACTING_AGENCY_NAME	contractingSubtierName
CREATED_BY	createdBy
CREATED_DATE	createdDate
AWARD_COMPLETION_DATE	currentCompletionDate
SIGNED_DATE	dateSigned
AWARD_STATUS	documentStatus
OBLIGATED_AMOUNT	dollarsObligated
FUNDING_OFFICE_ID	fundingOfficeCode
FUNDING_AGENCY_ID	fundingSubtierCode
LEGISLATIVE_MANDATES	laborStandardsName
LAST_MODIFIED_BY	lastModifiedBy
LAST_MOD_DATE	lastModifiedDate
LOCAL_AREA_SET_ASIDE	localAreaSetAsideName
LEGISLATIVE_MANDATES	materialsSuppliesArticlesAndEquipName
MODIFICATION_NUMBER	modificationNumber
MULTIYEAR_CONTRACT	multiyearContractName
PRINCIPAL_NAICS_CODE	naicsCode
NATIONAL_INTEREST_CODE	nationalInterestActionCode
NATIONAL_INTEREST_DESCRIPTION	nationalInterestActionName
EFFECTIVE_DATE	periodOfPerformanceStartDate
AGENCY_CODE	piidSubtierCode
AGENCY_NAME	piidSubtierName
POP_CONGRESS_DISTRICT_CODE	placeOfPerformCongressionalDistrict
POP_COUNTRY_NAME	placeOfPerformCountryName
POP_STATE_NAME	placeOfPerformStateName
PRODUCT_OR_SERVICE_CODE	productOrServiceCode

REASON_FOR_MODIFICATION	reasonForModificationCode
IDV_MUL_OR_SINGLE_AWARD_IDC	referencedIdvMultipleOrSingleCode
IDV_PART8_OR_PART13	referencedIdvPart8OrPart13
REF_IDV_PIID	referencedIdvPiid
REF_IDV_AGENCY_ID	referencedIdvPIIDSubtierCode
IDV_CONTRACT_TYPE	referencedIdvTypeCode
SOURCE_SELECTION_PROCESS_DESC	sourceSelectionProcessName
TYPE_OF_CONTRACT_PRICING	typeOfContractPricingCode
ESTIMATED_COMPLETION_DATE	ultimateCompletionDate
ULTIMATE_CONTRACT_VALUE	ultimateContractValue
ULTIMATE_UEI_NAME	ultimateParentLegalBusinessName
ULTIMATE_UEI	ultimateParentUniqueEntityId

The FPDS Atom Feed request parameters below have been deprecated and are not supported by the SAM Contract Data API:
1. DESCRIPTION_OF_REQUIREMENT
2. CONTRACTING_OFFICE_NAME
3. FUNDING_OFFICE_NAME

For a full list of the SAM Contract Data API parameters, view the GitHub site available here: https://open.gsa.gov/api/.

> **Commented [1]:** need our link when created

4. FPDS Atom Feed vs SAM Contract Data API Response Differences

Response Structure

The response structures for both FPDS Atom Feed and SAM Contract Data API are different. With the introduction of the core and contract section. In addition to reorganizing the response, there are changes to the naming convention used for certain data elements. The below table provides a one to one mapping for data elements which have had a name change:

FPDS Web Service	SAM API
agencyID	*subtier*

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modNumber	modificationNumber
signedDate	dateSigned
effectiveDate	periodOfPerformanceStartDate
obligatedAmount	actionObligation
totalObligatedAmount	totalActionObligation
contractingOfficeAgencyID	contractingSubtier
contractingOfficeID	contractingOffice
fundingRequestingAgencyID	fundingSubtier
fundingRequestingOfficeID	fundingOffice
purchaseReason	reasonForInterAgencyContracting
contractActionType	awardOrIDVType
nationalInterestActionCode	nationalInterestAction
inherentlyGovernmentalFunction	natureOfServices
GFE-GFP	GFEGFP
availabilityTypeCode	availabilityType
contingencyHumanitarianPeacekeepingOperation	emergencyAcquisition
additionalReportingValue	additionalReporting
productOrServiceCode	productOrService
claimantProgramCode	dodClaimantProgram
principalNAICSCode	principalNaics
manufacturingOrganizationType	domesticOrForeignEntity
systemEquipmentCode	dodAcquisitionProgram
vendorName	awardeeName
vendorAlternateName	awardeeAlternateName
vendorLegalOrganizationName	legalBusinessName
vendorDoingAsBusinessName	awardeeDoingBusinessAsName
vendorEnabled	awardeeEnabled

isAlaskanNativeOwnedCorporationOrFirm	alaskanNativeCorporationOwnedFirm
isIndianTribe	indianTribeFederallyRecognized
isNativeHawaiianOwnedOrganizationOrFirm	nativeHawaiianOrganizationOwnedFirm
isVeteranOwned	veteranOwnedBusiness
isServiceRelatedDisabledVeteranOwnedBusiness	serviceDisabledVeteranOwnedBusiness
isWomenOwned	womenOwnedBusiness
isEconomicallyDisadvantagedWomenOwnedSmallBusiness	economicallyDisadvantagedWomenOwnedSmallBusiness
isJointVentureWomenOwnedSmallBusiness	womenOwnedSmallBusinessJointVenture
isJointVentureEconomicallyDisadvantagedWomenOwnedSmallBusiness	economicallyDisadvantagedWomenOwnedSmallBusinessJointVenture
isMinorityOwned	minorityOwnedBusiness
isSubContinentAsianAmericanOwnedBusiness	subcontinentAsianAsianIndianAmericanOwned
isAsianPacificAmericanOwnedBusiness	asianPacificAmericanOwned
isBlackAmericanOwnedBusiness	blackAmericanOwned
isHispanicAmericanOwnedBusiness	hispanicAmericanOwned
isNativeAmericanOwnedBusiness	nativeAmericanOwned
isOtherMinorityOwned	individualOrConcernOtherThanOneOfThePreceding
isCommunityDevelopedCorporationOwnedFirm	communityDevelopmentCorporationOwnedConcern
isFederalGovernment	usFederalGovernment
isFederalGovernmentAgency	federalAgency
isStateGovernment	usStateGovernment
isLocalGovernment	usLocalGovernment
isCityLocalGovernment	city
isCountyLocalGovernment	County
isInterMunicipalLocalGovernment	intermunicipal
isMunicipalityLocalGovernment	municipality

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isSchoolDistrictLocalGovernment	schooldistrict
isTownshipLocalGovernment	township
isTribalGovernment	usTribalGovernment
isSolePropreitorship	soleProprietorship
receivesContracts	contracts
receivesGrants	federalassistanceawards
receivesContractsAndGrants	allawards
isHousingAuthoritiesPublicOrTribal	housingAuthoritiesPublicTribal
isForeignOwnedAndLocated	foreignOwned
isShelteredWorkshop	theAbilityOneProgram
isSBACertifiedHUBZone	sbaCertifiedHubZoneFirm
countryCode	country
phoneNo	phoneNumber
faxNo	faxNumber
congressionalDistrictCode	congressionalDistrict
vendorLocationDisabledFlag	awardeeLocationDisabledFlag
entityDataSource	awardeeDataSource
vendorAlternateSiteCode	awardeeAlternateSiteCode
UEILegalBusinessName	legalBusinessName
immediateParentUEI	awardeeImmediateParentUEI
immediateParentUEIName	awardeeImmediateParentName
domesticParentUEI	awardeeDomesticParentUEI
domesticParentUEIName	awardeeDomesticParentName
ultimateParentUEI	awardeeUltimateParentUniqueEntityId
ultimateParentUEIName	awardeeUltimateParentName
CCRException	far1102Exception
locationCode	city
stateCode	state

placeOfPerformanceZIPCode	zipCode
placeOfPerformanceCongressionalDistrict	CongressionalDistrict
research	sbirSTTR
reasonNotCompeted	otherThanFullAndOpenCompetition
commercialItemAcquisitionProcedures	commercialProductsAndServicesAcquisition Procedures
fedBizOpps	contractOpportunitiesNotice
genericString01	solicitationDate
genericString02	uniqueEntityId
genericString06	sourceSelectionProcess
genericBoolean01	smallBusinessJointVenture
genericBoolean02	serviceDisabledVeteranOwnedBusinessJointVenture
genericBoolean03	sbaCertifiedWomenOwnedSmallBusiness
genericBoolean04	sbaCertifiedEconomicallyDisadvantagedWomenOwnedSmallBusiness
IDVcontractingOfficerBusinessSize	idvContractingOfficerBusinessSizeDetermination
IDVcontractingOfficerBusinessSizeSource	contractingOfficerBusinessSizeDeterminationSource
nonGovernmentalDollars	nonGovernmentDollars
totalNonGovernmentalDollars	totalNonGovernmentDollars
nonTraditionalGovernmentContractorParticipation	nonTraditionalGovernmentEntityParticipation
PSCCode	productOrService
consortiaFlag	memberFlag
primaryConsortiaMemberUEI	uei
primaryConsortiaMemberName	legalBusinessName
primaryConsortiaMemberCageCode	cageCode

Codes and Descriptions

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FPDS web services and Atom Feeds use SOAP/XML Structure**.** In the FPDS SOAP-based implementation, certain data elements were returned as XML elements where the **value** represented a **code**, and the **descriptive name** was provided as an **attribute** of the element.

Ex.

<ns1:countryOfOrigin name="UNITED STATES">USA</ns1:countryOfOrigin>

<ns1:contractActionType description="DEFINITIVE CONTRACT">D</ns1:contractActionType>

- "USA" and "D" are the **code** (element value)
- "UNITED STATES" and "DEFINITIVE CONTRACT" are the **name/label** (element attribute)

In the JSON-based implementation, these same data elements are now expressed as **JSON objects** containing **explicit key-value pairs** for both the code and the name.

Ex.
```
"countryOfOrigin": {
       "code": "USA",
       "name": "UNITED STATES"
      }
"contractActionType": {
      "code": "D",
      "name": "DEFINITIVE CONTRACT"
     },
```

- "code" holds the same value previously returned as the XML element's text.
- "name" holds the descriptive label previously included as an XML attribute.