Federal Procurement Data System – Next Generation (FPDS-NG)

Upcoming WSDL and Specification Changes for the new webServices for
CO Determination of Business Size

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**General Services Administration
GSA**

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Table of Contents

List of Tables

Revision History

Date	Version Number	Changed By	Change Summary
09/19/2012	1.0	GCE	Initial version

1   Scope

FPDS-NG is introducing 2 new web services to help government finance systems to pay vendors in timely manner in accordance to the Prompt Payment Act (PPA). This document details all the changes to Web Services.

This document describes upcoming changes to the FPDS-NG XML and Web Services Specifications in Version 1.4.

For a detailed description of the existing specifications, please refer to the 'Web Service Specifications' document and XML Schema specifications on the FPDS-NG project website (http://www.fpds.gov).

The finalized Version 1.4 FPDS-NG XML and Web Services Specifications will be published on the on the FPDS-NG project website soon.

2   Background

The Prompt Payment Act (PPA) ensures that federal agencies pay vendors in a timely manner. Prompt Payment assesses late interest penalties against agencies that pay vendors after a payment due date of 30 days.

The Prompt Payment Act also allows for early payment in certain circumstances if doing so is in the best interest of the government. Agencies may make early payment for single invoices under $2,500, payments to small businesses, or payments related to emergencies, disasters, and military deployments.

OMB is advising agencies to reduce the time for paying small businesses from 30 days to 15 days. FPDS-NG is providing a web service that finance systems could utilize in identifying these small businesses to assist them in meeting the Prompt Payment rule/act (PPA) issued by OMB.The Version 1.4 functionality requires changes to the XML specifications.

3   Summary

The federal agencies are being advised by the OMB to follow the Prompt Payment Act (PPA) to make early payments to small businesses or payments related to emergencies, disasters, and military deployments. To do this the agencies need to find whether ethe vendors on the contract are either a small business or not.

Finance systems have the option of either validating if a vendor on a contract is a small business or to get an extract of all the vendors matching a certain criteria through the following Web Services:

- *getCODeterminationOfBusinessSize*: This web service shall provide customers the ability to request CO business size for a specific contract by contract PIID and Modification. The web service shall return Vendor information and contract identification information. If a Modification Number is not provided then the data for the latest Mod shall be provided.
- *getListCODeterminationBusinessSiz***e:** This web service shall provide customers the ability to download a large number of contracts based on search criteria for e.g. Vendor DUNS/Dates/CO business size. This web service can be used to retrieve the same information as that of the get web service for each of the contracts matching the search criteria. The web service shall return a download URL which can be accessed to download a list of contracts. Each of the contracts will have the same information as the response of *getCODeterminationOfBusinessSize.*
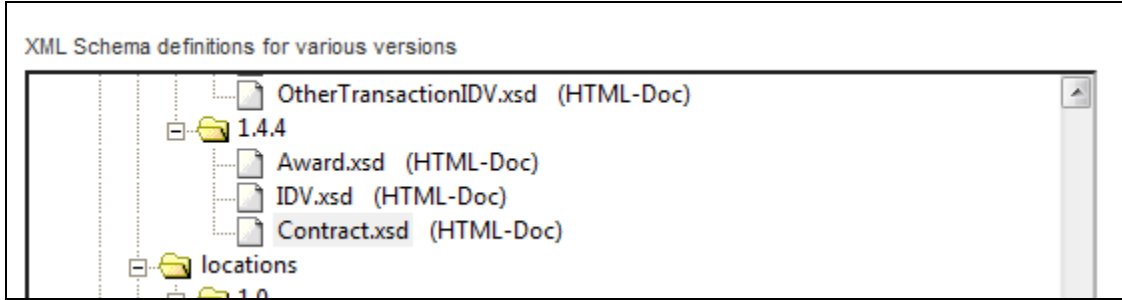
The schema for Contract.XSD has been updated to include two new complexTypes:
- *contractVendorSummaryType*
- *CODeterminationOfBusinessSizeSearchCriteriaType*

This file can be found at https://www.fpds.gov/fpdsng_cms/index.php/worksite under section 1.4.4 in Data Collection/Contracts as shown in **Figure 1.** below.

Figure 1. Contract.XSD on the worksite

4   Web Services

The enhancements to the Version 1.4 Web Services are explained in detail below:

Table 1. Version 1.4 Web Services

Service Classification	Service	Version	Change Description
Business Services	Contract	1.4	New Webservices • *getCODeterminationOfBusinessSize* • *getListCODeterminationOfBusinessSize*

Updated versions of the XML Schema Definitions (XSD) used by the Version 1.4 Web Services:

Table 2. Version 1.4 XSD to WSDL Mapping

Service	List of XSDs
BusinessServices/DataCollection/contracts/1.4/Contract.wsdl	Contract.xsd

4.1   WSDL Changes

The updated WSDLs can be found at https://www.fpds.gov/downloads/V14WSDLFiles_11_20_2009.zip

1. The following new operations have been added to the WSDL:

    • *getCODeterminationOfBusinessSize:* This web service shall service customers having ability to request CO business size for a specific contract by contract PIID and Modification. The web service shall return Vendor information and contract identification information. If a Modification Number is not provided then the data for the latest Mod shall be provided.

    • *getListCODeterminationOfBusinessSize:* This web service shall service customers who wish to download a large number of contracts based on search criteria for e.g. Vendor DUNS/Dates/CO business size. This web service can be used to retrieve the same information as that of the get web service for each of the contracts matching the search criteria.

2. The following new response types have been added to the WSDL to accommodate the responses of the WSDL:

    • *getCODeterminationOfBusinessSizeResponseType:* This type lists all the xml types that the *getCODeterminationOfBusinessSize* web service response will return. This contains the type

'contractVendorSummary' which contains all the elements that are returned in the web service response. This can be verified by viewing the contract schema (contract.xsd explained in Section 4).

- *getListCODeterminationOfBusinessSizeResponseType:* This type lists all xml types that the *getListCODeterminationOfBusinessSize* web service response will return. This contains the type 'downloadURL' which is a link to download a file. This file will contain the same elements as that returned by *getCODeterminationOfBusinessSize* web service for each of the contracts.

3. The following new message types have been added to the WSDL:

- *getCODeterminationOfBusinessSizeInput:* This type lists all the XML types that the *getCODeterminationOfBusinessSize* web service expects in the request.

- *getCODeterminationOfBusinessSizeOutput:* This type lists all the XML types that the *getCODeterminationOfBusinessSize* web service returns in the response.

- *getListCODeterminationOfBusinessSizeInput:* This type lists all the XML types that the *getListCODeterminationOfBusinessSize* web service expects in the request.

- *getListCODeterminationOfBusinessSizeOutput:* This type lists all the XML types that the *getListCODeterminationOfBusinessSize* web service returns in the response.

5   XML Specification changes

5.1   Contract.xsd

The contract.xsd has been updated to accommodate the schema for the request and response elements of the new webservices. The newer version of Contract.xsd is released as Version 1.4.4.

This updated schema (Contract.xsd) is posted in the worksite section @ https://www.fpds.gov/fpdsng_cms/index.php/worksite under section 1.4.4 in Data Collection/Contracts as shown in **Figure 1.**

All the elements are listed below as a part of the following 2 complex types *contractVendorSummaryType* and *CODeterminationOfBusinessSizeSearchCriteriaType*.

The description for most of the elements can be found in the Version 1.4 Data Dictionary at https://www.fpds.gov/downloads/Version_1.4_specs/FPDSNG_DataDictionary_V1.4.pdf.

1. *contractVendorSummaryType*

    a. contractType (Award or IDV)

    b. departmentID (Department Code)

    c. agencyID (Agency Code)

    d. PIID (PIID)

e. referencedIDVAgencyID (Refererenced IDV's Agency Code)

f. referencedIDVPIID (Refererenced IDV's PIID)

g. modNumber (Modification Number)

h. transactionNumber (Transaction Number)

i. contractActionType (Award Type or IDV Type)

j. contractingAgencyCode (Contracting Agency Code)

k. contractingOfficeID (Contracting Office Code)

l. fundingAgencyCode (Funding Agency Code)

m. totalObligatedAmount (Total Dollars Obligated of the Award (Rolled up to the modification number in the request. If modification number is not provided, this will be rolled up to the latest modification.)

n. signedDate (Date Signed)

o. vendorName (Vendor Name)

p. DUNSNumber (DUNS Number)

q. vendorAddress (Vendor Address)

r. vendorPhoneNo (Vendor Phone)

s. vendorFaxNo (Vendor Fax)

t. contractingOfficerBusinessSizeDetermination (Contracting Officer's Determination of Business Size

2. *CODeterminationOfBusinessSizeSearchCriteriaType*

a. contractType (Award or IDV)

b. departmentID (Department Code)

c. agencyID (Agency Code)

d. PIID (PIID)

e. referencedIDVAgencyID (Refererenced IDV's Agency Code)

f. referencedIDVPIID (Refererenced IDV's PIID)

g. modNumber (Modification Number)

h.   transactionNumber (Transaction Number)

i.   contractingAgencyCode (Contracting Agency Code)

j.   contractingOfficeID (Contracting Office Code)

k.   fundingAgencyCode

     (Funding Agency Code)

l.   fundingOfficeCode (Funding Office Code)

m.   DUNSNumber (DUNS Number)

n.   signedDateFrom (Date Range for Signed Date)

o.   signedDateTo (Date Range for Signed Date)

p.   contractingOfficerBusinessSizeDetermination (Contracting Officer's Determination of
     Business Size)

q.   isActive (Will be Yes if Last Date to Order has not passed)

5.2   Sample XMLs for new services

5.2.1   *CODeterminationOfBusinessSizeSearchCriteria*

Table 3. Sample CODeterminationOfBusinessSizeSearchCriteria XML in Request for both the web services

CODeterminationOfBusinessSizeSearchCriteria XML
| ```
<CODeterminationOfBusinessSizeSearchCriteria>
        <contractType>AWARD</contractType>
        <departmentID>4700</departmentID>
        <agencyID>4700</agencyID>
        <PIID>GSTEST233</PIID>
        <referencedIDVAgencyID></referencedIDVAgencyID>
        <referencedIDVPIID></referencedIDVPIID>
        <modNumber>0</modNumber>
        <transactionNumber>0</transactionNumber>
        <contractingAgencyCode>4740</contractingAgencyCode>
        <contractingOfficeID></contractingOfficeID>
        <fundingAgencyCode></fundingAgencyCode>
        <fundingOfficeCode></fundingOfficeCode>
        <DUNSNumber>123456789</DUNSNumber>
        <signedDateFrom>2012-09-12 00:00:00</signedDateFrom>
        <signedDateTo>2012-09-12 00:00:00</signedDateTo>
        <contractingOfficerBusinessSizeDetermination></contractingOfficerBusinessSizeDetermination>
</CODeterminationOfBusinessSizeSearchCriteria>
``` |

5.2.2   *contractVendorSummary*

Table 4. Sample contractVendorSummary XML in Response for *getCODeterminationOfBusinessSize* webservice

contractVendorSummary XML in Response
| ```
<ns1:contractVendorSummary>
      <ns1:contractType>AWARD</ns1:contractType>
      <ns1:departmentID name="GENERAL SERVICES ADMINISTRATION">4700</ns1:departmentID>
      <ns1:agencyID name="GENERAL SERVICES ADMINISTRATION">4700</ns1:agencyID>
      <ns1:PIID>GS343sdfds</ns1:PIID>
      <ns1:modNumber>A0</ns1:modNumber>
``` |

contractVendorSummary XML in Response

```
    <ns1:transactionNumber>0</ns1:transactionNumber>
    <ns1:contractActionType>B</ns1:contractActionType>
    <ns1:contractingAgencyCode name="GENERAL SERVICES ADMINISTRATION">4700</ns1:contractingAgencyCode>
    <ns1:fundingAgencyCode name="GENERAL SERVICES ADMINISTRATION">4700</ns1:fundingAgencyCode>
    <ns1:totalobligatedAmount>110</ns1:totalobligatedAmount>
    <ns1:signedDate>2012-09-01 00:00:00.0</ns1:signedDate>
    <ns1:vendorName>CITIBANK</ns1:vendorName>
    <ns1:DUNSNumber>123456789</ns1:DUNSNumber>
    <ns1:vendorAddress>
        <ns1:streetAddress>10780 Parkridge Blvd</ns1:streetAddress>
        <ns1:streetAddress2/>
        <ns1:streetAddress3/>
        <ns1:city>Reston</ns1:city>
        <ns1:state>VA</ns1:state>
        <ns1:ZIPCode>20191</ns1:ZIPCode>
        <ns1:countryCode>USA</ns1:countryCode>
    </ns1:vendorAddress>
    <ns1:vendorPhoneNo/>
    <ns1:vendorFaxNo/>
    <ns1:contractingOfficerBusinessSizeDetermination description="Other than Small
Business">O</ns1:contractingOfficerBusinessSizeDetermination>
</ns1:contractVendorSummary>
```