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U. S. DEPARTMENT OF THE INTERIOR

Volunteer.Gov/Gov

XML Data Sharing Instructions

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Chapter 1: Introduction

The purpose of this document is to provide a brief background of the Volunteer.Gov/Gov Web Portal and to detail the technical procedures and requirements for Volunteer.Gov/Gov partners to share volunteer opportunity data over the internet. This document is intended to serve as a technical reference manual for IT professionals who wish to share data with Volunteer.Gov/Gov via an XML web service.

Project Background

Volunteer.Gov/Gov is a web-based, one-stop source of volunteer opportunities that revolutionizes the matching of volunteer interests and abilities with available opportunities in the public sector nationwide. The innovative site was created by multiple Federal and State agencies. Launched at a White House ceremony on July 31st, 2002, the Volunteer.Gov/Gov portal is designed to serve as the clearinghouse for public sector volunteer opportunities and is a keystone of the President's USA Freedom Corps Network.

The Volunteer.Gov/Gov initiative aligns with the President's effort for all citizens to perform at least 4,000 hours of volunteer service over a lifetime. Its objective is to promote civic ties and to foster a lifelong ethic of good citizenship and service among Americans of all ages. It also is a tool that government agencies can use to enhance their volunteer programs. Every year, volunteers contribute millions of dollars in services to Federal programs. Within the Department of the Interior alone, more than 200,000 volunteers provide in excess of seven million hours of service. This service is valued at over \$95 million dollars.

Volunteer.Gov/Gov is the only interagency portal that brings together public sector volunteer opportunity information and services across agencies in a searchable, interactive, web-based database. It is now included in the Office of Management and Budget's (OMB's) portfolio of cross-agency E-government initiatives.

Portal Operation

Volunteer.Gov/Gov is modeled after the award-winning site, www.recreation.gov, now also one of OMB's electronic government initiatives as Recreation One Stop. Citizens can search for public sector volunteer opportunities within these areas by location, agency, personal interests, or keywords, and submit applications on-line.

Existing partner agencies, mainly Federal land management agencies, the Department of Veterans Affairs and the State of New York Division of Veterans Affairs, have populated the portal database with thousands of volunteer opportunities related to their mission areas (i.e., natural resources, public land management and recreation, and veterans). Future stages of Volunteer.Gov/Gov will include volunteer opportunities in other service areas across the government, such as science, healthcare, and social services.

Once an advertised volunteer opportunity is filled or time has elapsed for filling the opportunity, the database automatically removes the opportunity by a preset default. Each partner agency is responsible for maintaining and updating its own information on the database.

After conducting a search, a potential volunteer can click on any opportunity on a list to view a detailed description of the volunteer position. The description links to an on-line position application. Completed applications may be submitted via the web using the Volunteer.Gov/Gov secure 128 bit Secure Socket Layer (SSL) encryption.

Types of Opportunities

At present, the website offers thousands of opportunities related to natural resources and veterans' health. Within the natural resources area, opportunities involve our public lands including national parks, forests, and wildlife refuges as well as scientific areas supporting these. Volunteer opportunities related to veterans' health encompass administrative work, home care, counseling, and transportation assistance. The thousands of opportunities posted on Volunteer.Gov/Gov are located across the Nation. For some volunteer positions, host agencies may offer stipends or cover travel and/or housing costs. Most do not. Some positions may require special skills; others simply need an enthusiastic, positive attitude. Volunteer opportunities may span a few hours or several months, depending upon the interest of the potential volunteer and the requirements of the host agency. Specifics are offered along with each volunteer opportunity description.

In the future, as other agencies and organizations join the Volunteer.Gov/Gov team, additional volunteer opportunity areas will be included to accommodate other programs. These might range from social services, education to health care and science.

Chapter 2: Technology Overview

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Chapter 2 provides a brief overview of the technology used for the Volunteer.Gov/Gov data sharing project. The technology used to run this project can be best viewed in terms of four major components: 1) web/application servers; 2) backend Volunteer.Gov/Gov database/server; 3) XML web service (Robot); and 4) partner databases. Figure 1 shows a graphic detail of the component architecture for the data sharing project. Each of these components is explained as follows:

1. **Web/Application Server:** the web/application server is housed at a secure facility and serves as the primary software/hardware for controlling database functions and the XML Robot. Specifically, this server is responsible for generating HTML pages at Volunteer.Gov/Gov as well as instantiating the XML Robot web service for exporting XML data and importing XML data for inclusion in the Volunteer.Gov/Gov database. The application server also controls administrative access to Volunteer.Gov/Gov. The web server runs on a Windows™ 2000 server platform and the application server runs with ColdFusion™ version 5.0.
2. **Backend Database Server:** the backend database server is housed at a secure facility and is the primary data warehouse for all Volunteer.Gov/Gov data. This database is responsible for retrieving volunteer data for presentation on Volunteer.Gov/Gov web pages as well as retrieving data for XML web services. Volunteer.Gov/Gov uses a SQL Server™ 2000 database.
3. **XML Robot:** the XML robot is a web service written in ColdFusion Mark Up Language (CFML). The XML robot actually resides on the Volunteer.Gov/Gov application server. The primary function of the XML Robot is to parse data from the backend database (according to instructions from the web/application server) and format/write that data to an XML file according to an XSD schema. The XML Robot is also responsible for exporting/importing volunteer data (XML format) from/to Volunteer.Gov/Gov trusted partners. When data is received (import) from Volunteer.Gov/Gov partners, it is validated for data integrity and then the data is mapped

into the Volunteer.Gov/Gov database. Through this process, Partner data is automatically updated and kept current. The XML robot currently is scheduled to run on a nightly basis starting at approximately 12:05 am to ensure daily data freshness.

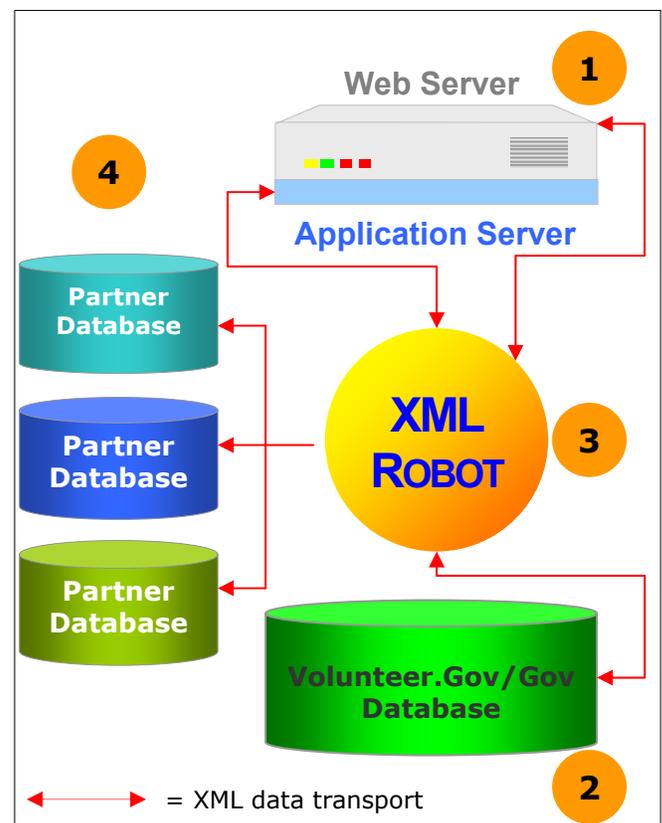


Figure 1 XML Data Sharing Component Architecture

4. **Partner Databases:** the partner databases include those databases maintained by individual Volunteer.Gov/Gov partners. Conceptually, these are the databases that feed data to the Volunteer.Gov/Gov XML Robot for data import/mapping to the Volunteer.Gov/Gov backend database.

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Chapter 3: Data Requirements

Chapter 3 describes the data sharing requirements for partners who wish to participate in the Volunteer.Gov/Gov Initiative. The purpose of these data requirements is to ensure consistency of data among all partners and to ensure smooth and automatic system operation.

XML Data Format

The format for the data import and export to and from the Volunteer.Gov/Gov database is XML. The XML format is based on the Volunteer XSD schema developed by Volunteer.Gov/Gov. The specific XSD schema file is titled VOL.xsd and is available in the Resources chapter (Chapter 5) of this manual as well as the following URL:

<http://www.volunteer.gov/gov/XML/VOL.xsd>

Chapter 5 includes the detail XSD file including a narrative detail of each of the XML data elements. In order for partners to share data with Volunteer.Gov/Gov, data must be exchanged via XML using the referenced VOL.xsd schema.

Web Service-Data Import

The import of Partner data into the Volunteer.Gov/Gov database will occur via an XML web service. Specifically, Partners are expected to provide once-daily XML data imports of their volunteer data via the VOL.xsd schema. Partners are expected to write the resulting XML file to their own servers for pick-up by the Volunteer.Gov/Gov XML Robot. In the event that Partners servers require authentication for XML file pick-up, partners are expected to provide Volunteer.Gov/Gov with the authentication parameters. In the event Partners are unable to write the XML data file to their servers, Volunteer.Gov/Gov may be able to provide services for writing the XML data file to Volunteer.Gov/Gov servers. This will be arranged on a Partner by Partner basis.

Web Service-Data Export

Volunteer.Gov/Gov has included within the XML Robot the functionality to provide partners with exports of their

data. Partners may want this data for reporting and/or for use on their own web sites. The XML Robot is configurable by Partner data administrators. This configuration allows Partners to extract custom data sets real-time. Partner configurations can also be programmed as a web service which Partners can run at their discretion.

Data Confirmation

During the XML data import procedures, Volunteer.Gov/Gov creates a log file of the actual data import event. Upon completion of the Data import process, the data imported is validated and a confirmation email is sent to the Partner administrator. This email includes a time stamp of the data import, the number of data imported and a status of the data. The confirmation email is a record of the status of the data import process. In the event that the data import process fails, email will be generated and sent to the Partner administrator indicating specifics of the failure.

Web-based Data Management

In addition to the automated XML Robot, Volunteer.Gov/Gov also includes web-based tools to manage volunteer data on an individual basis. Partner data managers are provided with access to the Volunteer.Gov/Gov web portal for content management. This portal is designed for use in individual cases where few or single records need to be modified online real-time. This content management portal also provides access to Partner statistics and several error checking tools as well as configurable XML Robot data export tools.

Technical Contacts

Partners for this data sharing project are expected to provide Volunteer.Gov/Gov will a technical point of contact (POC). This POC will serve as the technical liaison between the Partner organization and Volunteer.Gov/Gov for matters concerning data sharing.

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Chapter 4: Participation

Chapter 4 describes the specific steps required for Partners to participate in the Volunteer.Gov/Gov Initiative. These steps are detailed below. Please also make sure to review Chapter 5 for technical resources and explanations of the required XML data import files.

1.0 Create XML Data File

The first step towards importing Partner data to the Volunteer.Gov/Gov data base is for a Partner to create an XML data file. This XML file should be in conformance with the Volunteer.Gov/Gov XSD schema (VOL.xsd) which is included in Chapter 5 of this document. The XML data file created in this step should include all of the volunteer data a Partner wants to include in Volunteer.Gov/Gov and the file should have a consistent name (e.g. volunteer.xml or something similar).

2.0 Provide Access to XML Data File

Upon completion of the XML data file, this file should be placed on a server where the Volunteer.Gov/Gov XML Robot can pick it up. If there are any authentication procedures for accessing the XML data file, those procedures and required parameters (port numbers, username/password) should be conveyed to Volunteer.Gov/Gov so that the XML Robot will be successful in the file Pick Up.

3.0 Test XML Data

The first time a partner has successfully created the XML data file and Volunteer.Gov/Gov has retrieved the file for

data import, Volunteer.Gov/Gov will test the XML file prior to placing it into the production database on Volunteer.Gov/Gov. Testing parameters will include XML validation, data integrity checking, and data quality checking. During this testing phase, Partners are expected to make their Technical POC available to work with Volunteer.Gov/Gov technical developers to address any data issues that may arise. This testing phase will be a one-time procedure for new Partners or when Partner technologies change enough to warrant a repeat test.

4.0 Confirm Successful Data Upload

Upon successful XML data file testing, Volunteer.Gov/Gov will initiate automatic XML data file pickup from the Partner in accordance with the scheduler parameters specified in Section 5.0 below. Once Volunteer.Gov/Gov has picked up the XML data file from a Partner, Volunteer.Gov/Gov will send an email to the Partner Technical POC confirming the data pick-up and the final resolution of the data file.

5.0 Initiate XML Data Scheduler

After the completion of sections 1.0—4.0 above, Volunteer.Gov/Gov will work together with Partners to set a scheduled time for automatic XML Data file pick-up from Partner servers. It is anticipated that the XML data file will be picked-up on a nightly basis sometime after 12:00 midnight. Volunteer.Gov/Gov can adjust this schedule for individual Partners as needed. Once a pick-up time is agreed to, Partners will need to inform Volunteer.Gov/Gov if alternate pick-up schedules are needed.

Chapter 5: Resources



As part of this document, Volunteer.Gov/Gov is providing several resources to assist Partners in this XML data sharing project. These resources are listed below as well as linked on the Volunteer.Gov/Gov web server.

Volunteer.Gov/Gov Technical Point of Contact

Keith Stewart | webmaster@volunteer.gov | 703.231.3335 (24/7)

Volunteer.Gov/Gov Program Point of Contact

Doug Blankinship | Douglas_J_Blankinship@ios.doi.gov | 202.208.7439

Volunteer.Gov/Gov XSD Data Schema

Source: <http://www.volunteer.gov/gov/XML/VOL.xsd>
See Appendix A for details

Volunteer.Gov/Gov CFML Code for XML Generation

Source: <http://www.volunteer.gov/gov/XML/wsXML.cfm>
See Appendix B for details



Appendix A: XSD Source Code

VOL.xsd source (copy code between === lines):

```

=====
<?xml version="1.0" ?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:element name="Volunteers">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="id" type="xsd:string" minOccurs="0" />
<xsd:element name="partner" type="xsd:string" minOccurs="0" />
<xsd:element name="partnerCode" type="xsd:string" minOccurs="0" />
<xsd:element name="partnerUrl" type="xsd:anyURI" minOccurs="0"/>
<xsd:element name="partnerImageUrl" type="xsd:anyURI" minOccurs="0" />
<xsd:element name="jurisdictionType" type="xsd:string" minOccurs="0" />
<xsd:element name="jurisdictionName" type="xsd:string" minOccurs="0" />
<xsd:element name="opportunityName" type="xsd:string" minOccurs="0" />
<xsd:element name="opportunityUrl" type="xsd:anyURI" minOccurs="0" />
<xsd:element name="opportunityDescription" type="xsd:string" minOccurs="0" />
<xsd:element name="opportunityImageUrl" type="xsd:anyURI" minOccurs="0" />
<xsd:element name="streetAddress" type="xsd:string" minOccurs="0" />
<xsd:element name="city" type="xsd:string" minOccurs="0" />
<xsd:element name="postalCode" type="xsd:string" minOccurs="0" />
<xsd:element name="county" type="xsd:string" minOccurs="0" />
<xsd:element name="state" type="xsd:string" minOccurs="0" />
<xsd:element name="country" type="xsd:string" minOccurs="0" />
<xsd:element name="contactEmail" type="xsd:string" minOccurs="0" />
<xsd:element name="contactPhone" type="xsd:string" minOccurs="0" />
<xsd:element name="contactName" type="xsd:string" minOccurs="0" />
<xsd:element name="coordinatorEmail" type="xsd:string" minOccurs="0" />
<xsd:element name="coordinatorPhone" type="xsd:string" minOccurs="0" />
<xsd:element name="coordinatorFirstName" type="xsd:string" minOccurs="0" />
<xsd:element name="coordinatorLastName" type="xsd:string" minOccurs="0" />
<xsd:element name="enableDate" type="xsd:string" minOccurs="0" />
<xsd:element name="disableDate" type="xsd:string" minOccurs="0" />
<xsd:element name="holder01" type="xsd:string" minOccurs="0" />
<xsd:element name="holder02" type="xsd:string" minOccurs="0" />
<xsd:element name="holder03" type="xsd:string" minOccurs="0" />
<xsd:element name="holder04" type="xsd:string" minOccurs="0" />
<xsd:element name="activities" type="xsd:string" minOccurs="0" />
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="archaeology" type="xsd:string" minOccurs="0" />
      <xsd:element name="botany" type="xsd:string" minOccurs="0" />
      <xsd:element name="host" type="xsd:string" minOccurs="0" />
      <xsd:element name="construction" type="xsd:string" minOccurs="0" />
      <xsd:element name="computers" type="xsd:string" minOccurs="0" />
      <xsd:element name="conservation" type="xsd:string" minOccurs="0" />
      <xsd:element name="research" type="xsd:string" minOccurs="0" />
      <xsd:element name="historical" type="xsd:string" minOccurs="0" />
      <xsd:element name="pest" type="xsd:string" minOccurs="0" />
      <xsd:element name="geology" type="xsd:string" minOccurs="0" />
      <xsd:element name="resources" type="xsd:string" minOccurs="0" />
      <xsd:element name="office" type="xsd:string" minOccurs="0" />
      <xsd:element name="livestock" type="xsd:string" minOccurs="0" />
      <xsd:element name="soil" type="xsd:string" minOccurs="0" />
      <xsd:element name="fire" type="xsd:string" minOccurs="0" />
    
```

XML DATA SHARING INSTRUCTIONS

```

<xsd:element name="trail" type="xsd:string" minOccurs="0" />
<xsd:element name="guide" type="xsd:string" minOccurs="0" />
<xsd:element name="visitor" type="xsd:string" minOccurs="0" />
<xsd:element name="mapping" type="xsd:string" minOccurs="0" />
<xsd:element name="volunteer" type="xsd:string" minOccurs="0" />
<xsd:element name="fish" type="xsd:string" minOccurs="0" />
<xsd:element name="apartment" type="xsd:string" minOccurs="0" />
<xsd:element name="counseling" type="xsd:string" minOccurs="0" />
<xsd:element name="domicile" type="xsd:string" minOccurs="0" />
<xsd:element name="donation" type="xsd:string" minOccurs="0" />
<xsd:element name="editor" type="xsd:string" minOccurs="0" />
<xsd:element name="grantw" type="xsd:string" minOccurs="0" />
<xsd:element name="visits" type="xsd:string" minOccurs="0" />
<xsd:element name="outreach" type="xsd:string" minOccurs="0" />
<xsd:element name="stand" type="xsd:string" minOccurs="0" />
<xsd:element name="transportation" type="xsd:string" minOccurs="0" />
<xsd:element name="science" type="xsd:string" minOccurs="0" />
<xsd:element name="backc" type="xsd:string" minOccurs="0" />
<xsd:element name="ga" type="xsd:string" minOccurs="0" />
</xsd:sequence>
</xsd:complexType>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:schema>

```

=====
 END OF CODE ABOVE === LINE

Explanation of the XSD Code elements:

The following narrative explains each of the XSD elements above and indicates whether they are required or not:

Data Item	Description	Required
ID	Unique ID that you may assign to each of your data rows or records. This would be important in the event you wish to have data exported back to your system	optional
partner	The name of the Partner that owns/manages the opportunity	required
partnerCode	Partner name abbreviation (e.g. NPS for National Park Service)	optional
partnerUrl	URL for the managing Partner	required
partnerImageUrl	URL for the managing Partner logo	optional
jurisdictionType	Type of Jurisdiction of Partner (e.g. county, state, federal, etc.)	required
jurisdictionName	Name of your Jurisdiction (e.g. Fairfax County)	optional
opportunityName	The name of your opportunity (e.g. Washington Forest Trail Builders)	required
opportunityUrl	The URL for your facility	optional
opportunityDescription	Paragraph description of your opportunity. This should be approximately 100–500 words and should describe the main responsibilities of your opportunity	required
opportunityImageUrl	URL to sample image/photo of your opportunity	optional
streetAddress	Street address for your opportunity	required
city	City address for your opportunity	required
postalCode	Postal (Zip) code for your opportunity	required
county	County where your opportunity is located	optional
state	State where your opportunity is located	required
country	Country where your facility is located (default is US)	required
contactName	Contact name of the person for your opportunity	required
contactPhone	Phone number of the person for your opportunity	required
contactEmail	Email for the contact person for your opportunity	required
coordinatorEmail	Email of the Coordinator for your opportunity	required
coordinatorPhone	Phone number of the Coordinator for your opportunity	required

XML DATA SHARING INSTRUCTIONS

coordinatorFirstName	Coordinator first name	required
coordinatorLastName	Coordinator last name	required
enableDate	The Date your opportunity starts (mm/dd/yyyy)	required
disableDate	The Date your opportunity ends (mm/dd/yyyy)	required
holder01	Reserved for future use	N/A
holder02	Reserved for future use	N/A
holder03	Reserved for future use	N/A
holder04	Reserved for future use	N/A
ACTIVITIES LIST		
archaeology	1 if available, 0 if not available-Archeological opportunities	required
botany	1 if available, 0 if not available-Botany opportunities	Required
host	1 if available, 0 if not available-Campground Hosts opportunities	Required
construction	1 if available, 0 if not available-Construction/Maintenance opportunities	Required
computers	1 if available, 0 if not available-Computer opportunities	Required
conservation	1 if available, 0 if not available-Conservation opportunities	Required
research	1 if available, 0 if not available-Research opportunities	Required
historical	1 if available, 0 if not available-Historic/Cultural opportunities	Required
pest	1 if available, 0 if not available-Pest control opportunities	Required
geology	1 if available, 0 if not available-Geology/Earth Science opportunities	Required
resources	1 if available, 0 if not available-Natural Resources opportunities	Required
office	1 if available, 0 if not available-Office/Clerical opportunities	Required
livestock	1 if available, 0 if not available-Livestock management opportunities	Required
soil	1 if available, 0 if not available-Soil/Watershed opportunities	Required
fire	1 if available, 0 if not available-Fire Management opportunities	Required
trail	1 if available, 0 if not available-Trail building opportunities	Required
guide	1 if available, 0 if not available-Tour guide/interpretation opportunities	Required
visitor	1 if available, 0 if not available-Visitor Center opportunities	Required
mapping	1 if available, 0 if not available-Mapping/Geography opportunities	Required
volunteer	1 if available, 0 if not available-Volunteer coordinator opportunities	Required
fish	1 if available, 0 if not available-Fish/Wildlife opportunities	Required
apartment	1 if available, 0 if not available-Resident manager opportunities	Required
counseling	1 if available, 0 if not available-Counseling opportunities	Required
domicile	1 if available, 0 if not available-Domiciliary opportunities	Required
editor	1 if available, 0 if not available-Editor/Writer opportunities	Required
grantw	1 if available, 0 if not available-Grant writer opportunities	Required
visits	1 if available, 0 if not available-Home Visits/Support opportunities	Required
outreach	1 if available, 0 if not available-Outreach coordinator opportunities	Required
stand	1 if available, 0 if not available-Stand Down coordinator opportunities	Required
transportation	1 if available, 0 if not available-Driver/Transportation opportunities	Required
science	1 if available, 0 if not available-General Science opportunities	Required
backc	1 if available, 0 if not available-Back County/Wilderness opportunities	Required
ga	1 if available, 0 if not available-General Assistance opportunities	Required

Appendix B: CFML Source Code



CFML Source Code

(copy lines between ==== DO NOT INCLUDE LINE NUMBERS):

wsXML.cfm

=====

```

1 <!--
2 XML Robot Code for XML Web Service at Volunteer.Gov/Gov
3 Created by: Keith H. Stewart
4 Email: webmaster@volunteer.gov
5 Corporate Contact: Keith Stewart ceo@espherical.com 703.231.3335
6 Date: 01/20/2003
7 Revised: 02/01/2003 Added specific activities fields (KHS)
8 --->
9
10 <CFQUERY NAME="GetVO" DATASOURCE="#DataSource#">
11 SELECT *
12 FROM units
13 WHERE disable >= #createodbcdate(todayDate)# AND mySwitch = 'on'
14 ORDER BY ID
15 </CFQUERY>
16
17 <cffile action="WRITE" addnewline="Yes"
18 output="<?xml version='1.0' encoding='utf-8' ?><Volunteers xsi:noNamespaceSchemaLocation='VOL.xsd'
19 xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance' timestamp='#DateFormat(todaydate,'yyyy-mm-
20 dd')#T#TimeFormat(todaydate,'hh:mm:ss')#'" nameconflict="OVERWRITE" file="X:myPath\volunteers.xml">
21
22 <cfoutput query="GetVO">
23
24 <cffile action="APPEND" addnewline="Yes"
25 output="<id>#Trim(ID)#</id>
26 <partner>#XMLFormat(variable)#</partner>
27 <partnerCode>#XMLFormat(variable)#</partnerCode>
28 <partnerUrl>#XMLFormat(variable)#</partnerUrl>
29 <partnerImageUrl>#XMLFormat(variable)#</partnerImageUrl>
30 <jurisdictionType>#XMLFormat(variable)#</jurisdictionType>
31 <jurisdictionName>#XMLFormat(variable)#</jurisdictionName>
32 <opportunityName>#XMLFormat(variable)#</opportunityName>
33 <opportunityUrl>#XMLFormat(variable)#</opportunityUrl>
34 <opportunityDescription>#XMLFormat(variable)#</opportunityDescription>
35 <opportunityImageUrl>#XMLFormat(variable)#</opportunityImageUrl>
36 <streetAddress>#XMLFormat(variable)#</streetAddress>
37 <city>#XMLFormat(variable)#</city>
38 <postalCode>#XMLFormat(variable)#</postalCode>
39 <county>#XMLFormat(variable)#</county>
40 <state>#XMLFormat(variable)#</state>
41 <country>#XMLFormat(variable)#</country>
42 <contactEmail>#XMLFormat(variable)#</contactEmail>
43 <contactPhone>#XMLFormat(variable)#</contactPhone>
44 <contactName>#XMLFormat(variable)#</contactName>
45 <coordinatorEmail>#XMLFormat(variable)#</coordinatorEmail>
46 <coordinatorPhone>#XMLFormat(variable)#</coordinatorPhone>
47 <coordinatorFirstName>#XMLFormat(variable)#</coordinatorFirstName>
48 <coordinatorLastName>#XMLFormat(variable)#</coordinatorLastName>
49 <enableDate>#XMLFormat(variable)#</enableDate>
50 <disableDate>#XMLFormat(variable)#</disableDate>
51 <holder01>#XMLFormat(variable)#</holder01>

```

XML DATA SHARING INSTRUCTIONS

```
52 <holder02>#XMLFormat(variable)#</holder02>
53 <holder03>#XMLFormat(variable)#</holder03>
54 <holder04>#XMLFormat(variable)#</holder04>
55 <activities>
56     <archaeology>#variable#</archaeology>
57     <botany>#variable#</botany>
58     <host>#variable#</host>
59     <construction>#variable#</construction>
60     <computers>#variable#</computers>
61     <conservation>#variable#</conservation>
62     <research>#variable#</research>
63     <historical>#variable#</historical>
64     <pest>#variable#</pest>
65     <geology>#variable#</geology>
66     <resources>#variable#</resources>
67     <office>#variable#</office>
68     <livestock>#variable#</livestock>
69     <soil>#variable#</soil>
70     <fire>#variable#</fire>
71     <trail>#variable#</trail>
72     <guide>#variable#</guide>
73     <visitor>#variable#</visitor>
74     <mapping>#variable#</mapping>
75     <volunteer>#variable#</volunteer>
76     <fish>#variable#</fish>
77     <apartment>#variable#</apartment>
78     <counseling>#variable#</counseling>
79     <domicile>#variable#</domicile>
80     <donation>#variable#</donation>
81     <editor>#variable#</editor>
82     <grantw>#variable#</grantw>
83     <visits>#variable#</visits>
84     <outreach>#variable#</outreach>
85     <stand>#variable#</stand>
86     <transportation>#variable#</transportation>
87     <science>#variable#</science>
88     <backc>#variable#</backc>
89     <ga>#variable#</ga>
90 </activities>" nameconflict="OVERWRITE" file="X:myPath\volunteers.xml">
91 </cfoutput>
92 <cffile action="APPEND" addnewline="Yes"
93 output="</Volunteers>" nameconflict="OVERWRITE" file="X:myPath\volunteers.xml
94
```

NOTES on this code:

If you elect to use this code, you must be running a ColdFusion Application Server or have permission to access a ColdFusion Server. There are some changes that you will also need to make for this code to execute properly. Code changes include:

LINE 10: you must change your Datasource name to match your own data source. Also you must specify your own query items in the associated query

LINE 18: you must point the xsi to <http://www.volunteer.gov/gov/XML/VOL.xsd>

LINE 20: you must change the file path from "F:\MyPath\volunteer.xml" to your own path on your own server

LINE 90: must change the file path from "F:\MyPath\volunteer.xml" to your own path on your own server

LINE 93: must change the file path from "F:\MyPath\volunteer.xml" to your own path on your own server

Other instructions: You will also need to change the query output parameters to match your own database table structure. For assistance, please contact Keith Stewart at 703.231.3335.