Authentication for Request Processing Interconnection

Integration security and the protection of information are of the highest priority. To support organization integration, USA Staffing incorporates the following:

- Secure Connection. All integration communication will be HTTPS over TLS. The USA Staffing Program Office and the HR Tools and Technology team will work with each integration partner to ensure the appropriate version is utilized.
- IP Address Validation. For each SOAP request generated from an agency, the IP address is validated against the Authenticate Token to verify the message as authentically being from an approved Organization Partner. Each Organization authorized (Partner) will have a defined TCP/IP range of addresses which are considered valid. For communication to occur through the Staffing Integration Framework, the combination of IP address and Authenticate Token must be valid.
- Once the authentication has been confirmed, the SOAP XML package will be processed by the UIS (USA Staffing Integration Server).
- We will have separate authenticate token for Request status and task updates we will be sending to the agency web service.

AUTHENTICATE TOKEN

The Authenticate Token is required for all organizations utilizing the upgraded USA Staffing interconnection. Each organization partner will request approval to integrate with the upgraded version of USA Staffing, as noted below.

- Couple of Authenticate Tokens will be generated for each organization within USA Staffing. One is used for send request and another one is used for Request status and task updates. Then token can be used for all staffing offices within one organization.
- Each Authenticate Token will be associated with a set of IP addresses.
- Each agency should provide a list of IP addresses for each USA Staffing organization.

The following steps are provided to assist with the request of your token and how to verify connectivity.

Step 1: Obtaining your AuthenticateTokens

When you are ready to receive and start using the AuthenticateToken, the POC indicated on the registration form must send an email to staffingsifhelp@opm.gov. The password protected zip file containing the tokens along with contact information of whom to call for the password will be returned via email.

Step 2: Validating access to the UIS sandbox

To validate access to the UIS Sandbox from the provided IP address, navigate to the following website:

https://connect.stage.usastaffing.gov/StaffingServices.svc?wsdl

Step 3: Validating the AuthenticateToken for Send Request

You may validate the AuthenticateToken for send request by performing the following actions:

- Get a sample ProcessPositionOpening XML
- Replace the AuthenticateToken with the send request token provided in Step 1.
- Utilize a tool such as Fiddler to post the request with the following information:
- POST: https://connect.stage.usastaffing.gov/StaffingServices.svc
- Request Headers
- SOAPACTION: http://uis.staffing.gov/IProcessRequest/ProcessRequest
  CONTENT-TYPE: text/xml
  Request Body – contents of the sample xml document.
- Check the response AcknowledgePositionOpening XML if request is accepted or rejected. Rejected response displays error messages indicating why request is rejected.

Sample ProcessPositionOpening with SOAP header


```
<?xml version="1.0"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  - <s:Header>
      - <h:StaffingHeader xmlns:h="http://uis.staffing.gov" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://uis.staffing.gov">
          - <AuthenticationHeader>
              <AuthenticateToken>testtoken</AuthenticateToken>
            </AuthenticationHeader>
        </h:StaffingHeader>
    </s:Header>
  - <s:Body xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
      - <t:ProcessPositionOpening xmlns="http://www.hr-xml.org/3" xmlns:oa="http://www.openapplications.org/oagis/9"
        xmlns:t="http://uis.staffing.gov" releaseID="">
          - <oa:ApplicationArea>
                <!-- Date of request -->
              <oa:CreationDateTime>2014-11-01T10:09:30.01Z</oa:CreationDateTime>
              <oa:BODID>Unique_TransactionID_2014-11-01T10:09:02.01Z</oa:BODID>
            </oa:ApplicationArea>
          - <DataArea>
              - <oa:Process>
```

Sample accepted Acknowledge Position Opening


```
- <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  - <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    - <AcknowledgePositionOpening xmlns="http://uis.staffing.gov">
      - <ApplicationArea xmlns="http://www.openapplications.org/oagis/9">
          <CreationDateTime>7/17/2014 11:17:36 AM</CreationDateTime>
          <BODID>Unique_TransactionID_2014-11-01T10:09:02.01Z</BODID>
        </ApplicationArea>
      - <DataArea xmlns="http://www.hr-xml.org/3">
        - <Acknowledge xmlns="http://www.openapplications.org/oagis/9">
          - <ResponseCriteria>
              <ResponseExpression actionCode="Accepted" />
            </ResponseCriteria>
          </Acknowledge>
        - <PositionOpening>
            <DocumentID>SYSREQ-1111</DocumentID>
          </PositionOpening>
        </DataArea>
      </AcknowledgePositionOpening>
    </s:Body>
  </s:Envelope>
```


Sample rejected Acknowledge Position Opening


```
- <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  - <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    - <AcknowledgePositionOpening xmlns="http://uis.staffing.gov">
      - <ApplicationArea xmlns="http://www.openapplications.org/oagis/9">
          <CreationDateTime>7/17/2014 11:33:08 AM</CreationDateTime>
          <BODID>Unique_TransactionID_2014-11-01T10:09:02.01Z</BODID>
        </ApplicationArea>
      - <DataArea xmlns="http://www.hr-xml.org/3">
        - <Acknowledge xmlns="http://www.openapplications.org/oagis/9">
          - <ResponseCriteria>
              <ResponseExpression actionCode="Rejected">Validation errors</ResponseExpression>
            - <ChangeStatus>
                <Description>Please correct errors before resubmitting.</Description>
                <EffectiveDateTime>7/17/2014 11:33:08 AM</EffectiveDateTime>
                <Reason>Job Category Code '5555' is invalid.</Reason>
                <Reason>Job Grade Code 'GS15' must be 2 characters or less.</Reason>
              </ChangeStatus>
            </ResponseCriteria>
          </Acknowledge>
        </DataArea>
      </AcknowledgePositionOpening>
    </s:Body>
  </s:Envelope>
```

Step 4: Request Status and Task updates

We need to know the agency web service URL in order to send request status and task updates. We will be sending authenticate token for status updates as a part of SOAP header of the web request made to agency web service.

Sample NotifyPositionOpening with SOAP header


```
<?xml version="1.0"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  - <s:Header>
      - <h:StaffingHeader xmlns:h="http://uis.staffing.gov" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://uis.staffing.gov">
          - <AuthenticationHeader>
              <AuthenticateToken>testtoken2</AuthenticateToken>
            </AuthenticationHeader>
        </h:StaffingHeader>
    </s:Header>
  - <s:Body xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
      - <NotifyPositionOpening xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xmlns="http://www.hr-xml.org/3" releaseID="">
          - <ApplicationArea xmlns="http://www.openapplications.org/oagis/9">
              <CreationDateTime>2014-10-07T10:09:02.01Z</CreationDateTime>
              <BODID>Unique_TransactionID_2014-11-01T10:09:02.01Z</BODID>
            </ApplicationArea>
          - <DataArea>
              - <Notify xmlns="http://www.openapplications.org/oagis/9">
```