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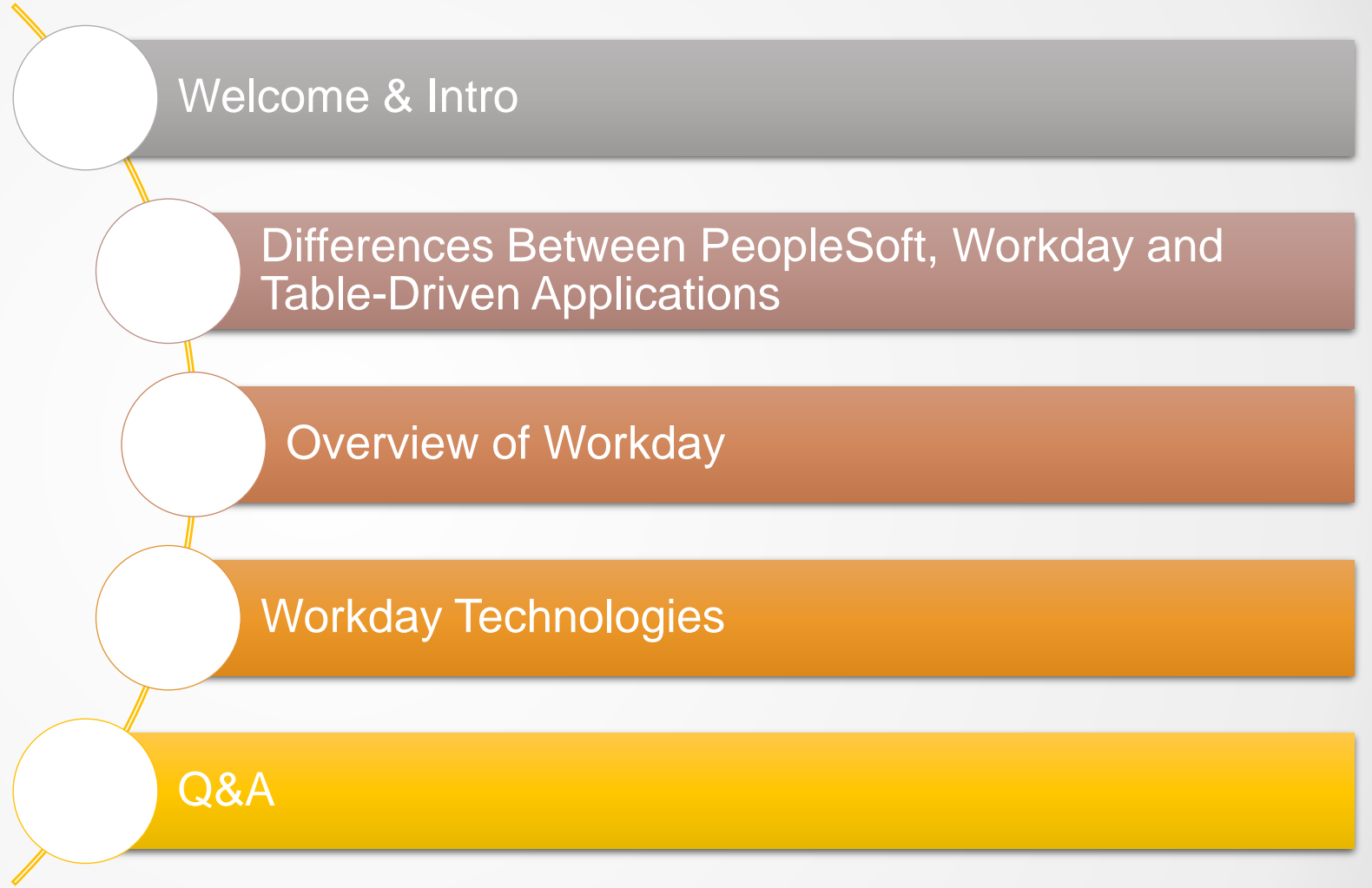
**@UCFKnightVision**

# Knight Vision XChange: Technology

## A Conversation with the Knight Vision Program Teams

June 13, 2022

# Agenda



Welcome & Intro

Differences Between PeopleSoft, Workday and Table-Driven Applications

Overview of Workday

Workday Technologies

Q&A

# Reminders

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During the Q&A session, we invite you all to be on camera and unmute your mic when you're ready to ask a question.



If you missed any previous XChanges, the recordings can be watched here:  
<https://knightvision.it.ucf.edu/recorded-virtual-events/>



All upcoming events are posted to the UCF Events calendar and announced at  
<https://knightvision.it.ucf.edu>

# Training Release Plan

**Workday training is here!** All training materials will follow a roll-release schedule to provide support and enable knowledge retention.

**\*Includes: All on-demand materials (job aids/demos); webcourses; live training sessions (support labs/ILT)**

## May 2 – May 13

- May 2: Workday Essentials, Pay & Absence, Time Tracking, Learning, Benefits UCFAA, Workday for Managers (WDY 100 & 101)
- May 9: Workday Academic Affairs, Workday Reporting Basics

## May 16 – May 23

- May 16: Workday Finance, Workday Procurement - Basics (WDY 200 & 201)
- May 23: Workday Finance, Workday Procurement, Workday Expenses – FULL (WDY 202)

## June 1 – June 30

- June 1: Workday Recruiting, Workday Staffing & Compensation
- June 6: Workday Grants, Workday Endowments
- June 13 – June 30: Drop-in Labs, Filler sessions (extra instruction)

**ONGOING SUPPORT LABS**

# Before I Start.....

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- Presentation geared toward people:
  - PeopleSoft application programmers
  - .Net programmers who interact with PeopleSoft
  - Integration programmers who interact with PeopleSoft
  - People Interested in what type of technology is used to get things done in Workday
- Workday stores the data encrypted at rest, uses https for user access, and web services. PGP can be used for flat files.

# Differences Between ...

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- Does not have an SQL, ODBC interface
- All access is done via web services
- There is no Application Designer to open pages and records to see behind the covers
- There is no control-shift-j to get information about the page you are viewing
- No QueryTool, to write a query you write a report
- No “bolt-on” applications with Workday Studio – Workday Extend is what would be used

# Overview of Workday

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- Article about Workday architecture - [The Workday architecture — a new kind of OLTP software stack | DBMS 2 : DataBase Management System Services \(dbms2.com\)](#)
- Data model is based on the Entity-Attribute-Value model - [Entity–attribute–value model – Wikipedia](#)
- Workday notes it might be better to call it the instanceID-attribute-value model
- Another article about Workday's architecture - [Exploring Workday's Architecture. By James Pasley, \(Fellow\) Software... | by Workday Technology | Workday Technology | Medium](#)

# Overview of Workday (Cont.)

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- Examples of Entity–Attribute–Value model
  - [SQL: Design - Entity Attribute Value Tables \(Part 1\) - Why? - The Bit Bucket \(greglow.com\)](#)
  - [SQL: Design – Entity Attribute Value Tables \(Part 2\) – Pros and Cons - The Bit Bucket \(greglow.com\)](#)



# Workday Technologies

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- Tools used
  - Workday Studio – based on eclipse
  - SoapUI
  - Oxygen XML Editor
- Technologies used
  - Flat files (csv)
  - EIB (Enterprise Interface Builder)
    - Like PeopleSoft excel to CI
    - Data from either a report or a web service – outbound
    - Excel format for inbound, which pushes to a web service
  - RAS ( reports as a service ) – utilizes REST to export data

# Workday Technologies (Cont.)





## Workday Web Services (WWS) Directory (v38.1 / 2022R1)

The following directory provides the (v38.1) WWS API Documentation for our SOAP-based web services with corresponding WSDL and XML Schemas (XSD's).
















Click [Version Directory](#) to access other versions.

Click [Operation Directory](#) to list all operations.

### Service Directory Legend

-  - Click on this icon to display the Web Service Description Language (WSDL) for a service.
-  - Click on this icon to display the XML Schema (XSD) for a service.

Click a web service for a directory of operations in that service.

Service	Description	Definitions
<a href="#">ACA_Partner_Integrations</a>	The ACA Partner Integrations Web Service provides Federal and State reporting operations for ACA partners and vendor integrations that report customer ACA data	 
<a href="#">Absence_Management</a>	The Absence Management Web Service contains operations that expose absence-related data, including Employee Time Off and Absence Inputs for time off and accrual adjustments and overrides, and Leave Requests, in Workday Human Capital Management Business Services.	 
<a href="#">Academic_Advising</a>	Web Service for retrieving objects related to Academic Advising, such as Student Academic Requirement Assignments.	 
<a href="#">Academic_Foundation</a>	Public Web Service for creating, editing and retrieving the foundational objects for the Student System, such as Programs of Study, Educational Institutions, and other other objects with cross-module uses.	 
<a href="#">Admissions</a>	Web Service for creating, editing and retrieving objects related to Admissions, such as Applicants.	 
<a href="#">Adoption</a>	Adoption Web Service Operations.	 
<a href="#">Benefits_Administration</a>	The Benefits Administration Web Service contains operations that expose Workday Human Capital Management Business Services benefits-related data.	 
<a href="#">Campus_Engagement</a>	Public Web Service for creating, editing and retrieving objects related to planning and organizing communication between Student Prospects and Recruiters.	 
<a href="#">Cash_Management</a>	The Cash Management Web Service contains operations that expose Workday Financials Cash	 

- XSLT – used to do transformations on either inbound or outbound
- [Web Services - Workday Web Services \(WWS\) Directory \(v38.1\)](#)

# Examples – Workday Studio

8. CallAwardModsCheck => local-out - Endpoint: vm://INT134\_STU\_HuronResearchSuite\_Grants\_Inbound/AwardModCheck
  - AwardModCheck => local-in
  - WorkdayOutRest2 => workday-out-rest
    - @{intsys.reportService.getExtrapath('INT134 Award Mods Check')}
  - AsyncMediation41 => async-mediation
    - XsltPlus
      - AwardModsChecker.xsl -> Stores output from report into “awardReportMods.hashmap.name”
  
9. CallWorkerTypeCheck => local-out – Endpoint: vm://INT134\_STU\_HuronResearchSuite\_Grants\_Inbound/WorkerTypeCheck
  - WorkerTypeCheck => local-in
  - WorkdayOutRest3 => workday-out-rest
    - @{intsys.reportService.getExtrapath('INT134 Worker Type')}
  - AsyncMediation42 => async-mediation

# Examples – Workday Studio

The screenshot displays the Workday Studio interface for editing a process flow. The main workspace shows a process flow diagram with two swimlanes. The top swimlane contains the following steps: AwardModCheck, WorkdayOutRest2, and AsyncMediation41. The bottom swimlane contains WorkerTypeCheck, WorkdayOutRest3, and AsyncMediation42. A palette on the left provides various shapes and actions for building the process. The bottom panel shows the properties for the selected 'WorkdayOutRest2' action.

**Project Explorer**

- AWS-Demo-FlexibleDesignSplitProcAgg
- INT134\_STU\_HuronResearchSuite\_Grants\_Inbound
  - src
  - JRE System Library [jdk1.8.0\_281]
  - Workday Runtime [Workday Runtime]
  - Assembly (2021.34)
    - Member of [INT134\_STU\_HuronResearchSuite\_Grants\_Inbound]
    - build
    - ws
      - WorkdayManifest.xml
  - INT224\_STD\_Student\_to\_FIN\_MaterialandSupplyFees\_Inbound

**Cloud Explorer**

- INT069\_Canvas\_LMS\_Outbound ? 5/24/22 6:25 AM jtorres-imp1
- INT078\_Florida\_Library\_System\_ALMA\_Outbound\_Collection ?
- INT081\_Fusion\_Recreation\_Photo\_Outbound ? 5/16/22 1:46 PM
- INT092\_Photo\_DNA\_Fusion\_Outbound ? 5/16/22 1:44 PM dsage
- INT111\_UCF\_Govolution\_Inbound ? 5/16/22 2:57 PM dsagendo
- INT112\_UCF\_STD\_PitneyBoves\_Inbound\_Collection ? 5/4/22 7:5
- INT120\_STD\_Student\_to\_FIN\_GL\_Inbound ? 5/23/22 1:57 PM mk
- INT121\_STD\_Student\_to\_FIN\_Refunds\_Inbound ? 3/29/22 1:02 A
- INT125\_HomeGrown\_Parking\_System\_Payroll\_Deductions\_Inbc
- INT126\_UCF\_STD\_CounterPoint\_Inbound\_Coll ? 6/1/22 9:35 AM
- INT128\_STD\_IJT\_FSEC\_Time\_Blocks\_Inbound ? 5/24/22 9:48 PM
- INT128\_STD\_IJT\_FSEC\_Time\_Off\_Inbound ? 3/16/22 4:13 PM mk
- INT133\_STD\_Workstudy\_Inbound ? 5/24/22 9:48 PM mkumar-ir
- INT134\_STU\_HuronResearchSuite\_Grants\_Inbound ? 5/12/22 12:
- INT152\_FICAExemptionStatus\_Non\_Students ? 5/25/22 10:17 AM
- INT158\_STD\_Blackbaud\_to\_FIN ? 6/1/22 11:54 AM kmarimuthu-
- INT160\_STD\_Student\_to\_FIN\_AHBT\_Inbound ? 5/24/22 3:16 PM
- INT166\_UCF\_STD\_ColonialBenefits\_Inbound\_Coll ? 6/1/22 9:55 /
- INT177\_ExternalStudentObject\_Inbound ? 3/29/22 1:02 AM mku
- INT190\_UCF\_CardServicesPhoto ? 4/4/22 2:42 PM jmamanteo-i
- INT191\_UCF\_STD\_Gabor\_Life\_Payroll\_Inbound\_Coll ? 6/1/22 9:5

**Properties Panel: workday-out-rest**

Property	Value
Id	WorkdayOutRest2
Routes Response To	AsyncMediation41
Execute When	Press ctrl-space for content assist
Extra Path	@{intsys.reportService.getExtrapath('INT134 Award Mods Check')}

Hover the cursor over the title or attribute names above to see tooltips. Refer to this element's [help](#) for more complete information.

# Example – SoapUI – REST Workday XML(RAS)

**Resource URL defines what REST/RAS report you are hitting against**

Name	Value	Style	Level
Company!WID	b8194fd415db01015a13971d9f660000	QUERY	RESOURCE
Award_Number	0000005074	QUERY	RESOURCE

**Output – Workday XML is more Verbose than Simple XML**

```
<wd:Report_Data xmlns:wd="urn:com.workday.report/CRI_-_INT134_Award_Check">
  <wd:Report_Entry>
    <wd:Award wd:Descriptor="0000005016: Kay_SGEA_Award_12_13_12/01/2013 (ver...
      <wd:ID wd:type="WID">348538c3e4830101a776d1f3885e0000</wd:ID>
      <wd:ID wd:type="Award_Reference_ID">0000005016</wd:ID>
    </wd:Award>
    <wd:Budget_Template wd:Descriptor="Award : 0000005016: Kay_SGEA_Award_12_...
      <wd:ID wd:type="WID">348538c3e4830101c3fe91e5cdeb0000</wd:ID>
      <wd:ID wd:type="Plan_Template_ID">0000005016</wd:ID>
    </wd:Budget_Template>
    <wd:Award_Schedule wd:Descriptor="Kay_SGEA_Award_12_13">
      <wd:ID wd:type="WID">348538c3e4830101592cf4cbdc510000</wd:ID>
      <wd:ID wd:type="Award_Schedule_Reference_ID">0000005016</wd:ID>
    </wd:Award_Schedule>
    <wd:Award_Lines_group>
      <wd:Grant wd:Descriptor="GR102946 What Fosters Professional Identity I...
        <wd:ID wd:type="WID">f00fe2a37a31010155c1ce91b7ed0000</wd:ID>
        <wd:ID wd:type="Grant_ID">GR102946</wd:ID>
      </wd:Grant>
      <wd:CF_LRV_Grant_ID>GR102946</wd:CF_LRV_Grant_ID>
      <wd:referenceID>0000005016_GR102946</wd:referenceID>
      <wd:Company wd:Descriptor="The University of Central Florida Board of...
        <wd:ID wd:type="WID">b8194fd415db01015a13971d9f660000</wd:ID>
        <wd:ID wd:type="Organization_Reference_ID">UNV</wd:ID>
        <wd:ID wd:type="Company_Reference_ID">UNV</wd:ID>
      </wd:Company>
    </wd:Award_Lines_group>
    <wd:Award_Lines_group>
      <wd:Grant wd:Descriptor="GR102948 MATCH to 25058001 - 25059901">
        <wd:ID wd:type="WID">f00fe2a37a31010155c1ce91b7ed0000</wd:ID>
        <wd:ID wd:type="Grant_ID">GR102948</wd:ID>
      </wd:Grant>
      <wd:CF_LRV_Grant_ID>GR102948</wd:CF_LRV_Grant_ID>
      <wd:referenceID>0000005016_GR102948</wd:referenceID>
      <wd:Company wd:Descriptor="The University of Central Florida Board of...
        <wd:ID wd:type="WID">b8194fd415db01015a13971d9f660000</wd:ID>
```

# Example – SoapUI – REST SimpleXML (RAS)

The screenshot displays the SoapUI 5.6.0 interface. The main window is titled "Simple XML" and shows a REST client configuration. The "Request" tab is active, displaying a table of parameters:

Name	Value	Style	Level
Company!WID	b8194fd415db01015a...	QUERY	RESOURCE
format	simplexml	QUERY	RESOURCE

The "Request Properties" tab is also visible, showing the following details:

Property	Value
Name	Simple XML
Description	Simple XML
Encoding	
Endpoint	https://wd2-impl-servic...
Timeout	
Bind Address	
Follow Redirects	true
Username	[REDACTED]
Password	*****
Domain	[REDACTED]
Authentication Type	No Authorization
SSL Keystore	
Strip whitespaces	false
Remove Empty Content	false
Entitize Properties	false
Multi-Value Delimiter	

The "Response" tab is active, displaying the raw XML response. The XML content is as follows:

```
<wd:Report_Data xmlns:wd="urn:com.workday.report/CRI_-_INT134_Award_Check">
  <wd:Report_Entry>
    <wd:Award>0000005016: Kay_SGEA_Award_12_13 12/01/2013 (version 0)</wd:Award>
    <wd:Budget_Template>Award : 0000005016: Kay_SGEA_Award_12_13 12/01/2013 (version 0)
    <wd:Award_Schedule>Kay_SGEA_Award_12_13</wd:Award_Schedule>
    <wd:Award_Lines_group>
      <wd:Grant>GR102946 What Fosters Professional Identity Development in Medical Ed
      <wd:CF_LRV_Grant_ID>GR102946</wd:CF_LRV_Grant_ID>
      <wd:referenceID>0000005016_GR102946</wd:referenceID>
      <wd:Company>The University of Central Florida Board of Trustees</wd:Company>
    </wd:Award_Lines_group>
    <wd:Award_Lines_group>
      <wd:Grant>GR102948 MATCH to 25059001 - 25059901</wd:Grant>
      <wd:CF_LRV_Grant_ID>GR102948</wd:CF_LRV_Grant_ID>
      <wd:referenceID>0000005016_GR102948</wd:referenceID>
      <wd:Company>The University of Central Florida Board of Trustees</wd:Company>
    </wd:Award_Lines_group>
  </wd:Report_Entry>
  <wd:Report_Entry>
    <wd:Award>0000005037: Garmor(Seal)_Contract_2013.12. 12/01/2013 (version 0)</wd:Av
    <wd:Budget_Template>Award : 0000005037: Garmor(Seal)_Contract_2013.12. 12/01/2013
    <wd:Award_Schedule>Garmor(Seal)_Contract_2013.12.</wd:Award_Schedule>
    <wd:Award_Lines_group>
      <wd:Grant>GR100803 Development of a plasma spray deposition process and other
      <wd:CF_LRV_Grant_ID>GR100803</wd:CF_LRV_Grant_ID>
      <wd:referenceID>0000005037_GR100803</wd:referenceID>
      <wd:Company>The University of Central Florida Board of Trustees</wd:Company>
    </wd:Award_Lines_group>
    <wd:Award_Lines_group>
      <wd:Grant>GR102624 Development of a plasma spray deposition process of Egde-Fur
      <wd:CF_LRV_Grant_ID>GR102624</wd:CF_LRV_Grant_ID>
      <wd:referenceID>0000005037_GR102624</wd:referenceID>
      <wd:Company>The University of Central Florida Board of Trustees</wd:Company>
    </wd:Award_Lines_group>
    <wd:Award_Lines_group>
      <wd:Grant>GR103219 Development of a plasma spray deposition process of Egde-Fur

```

The status bar at the bottom indicates a response time of 2524ms (2531506 bytes) and a status of 84: 27.

# Example – SoapUI – REST CSV (RAS)

The screenshot displays the SoapUI 5.6.0 interface. The main window shows a REST client configuration for a CSV endpoint. The Request Properties tab is active, showing the following details:

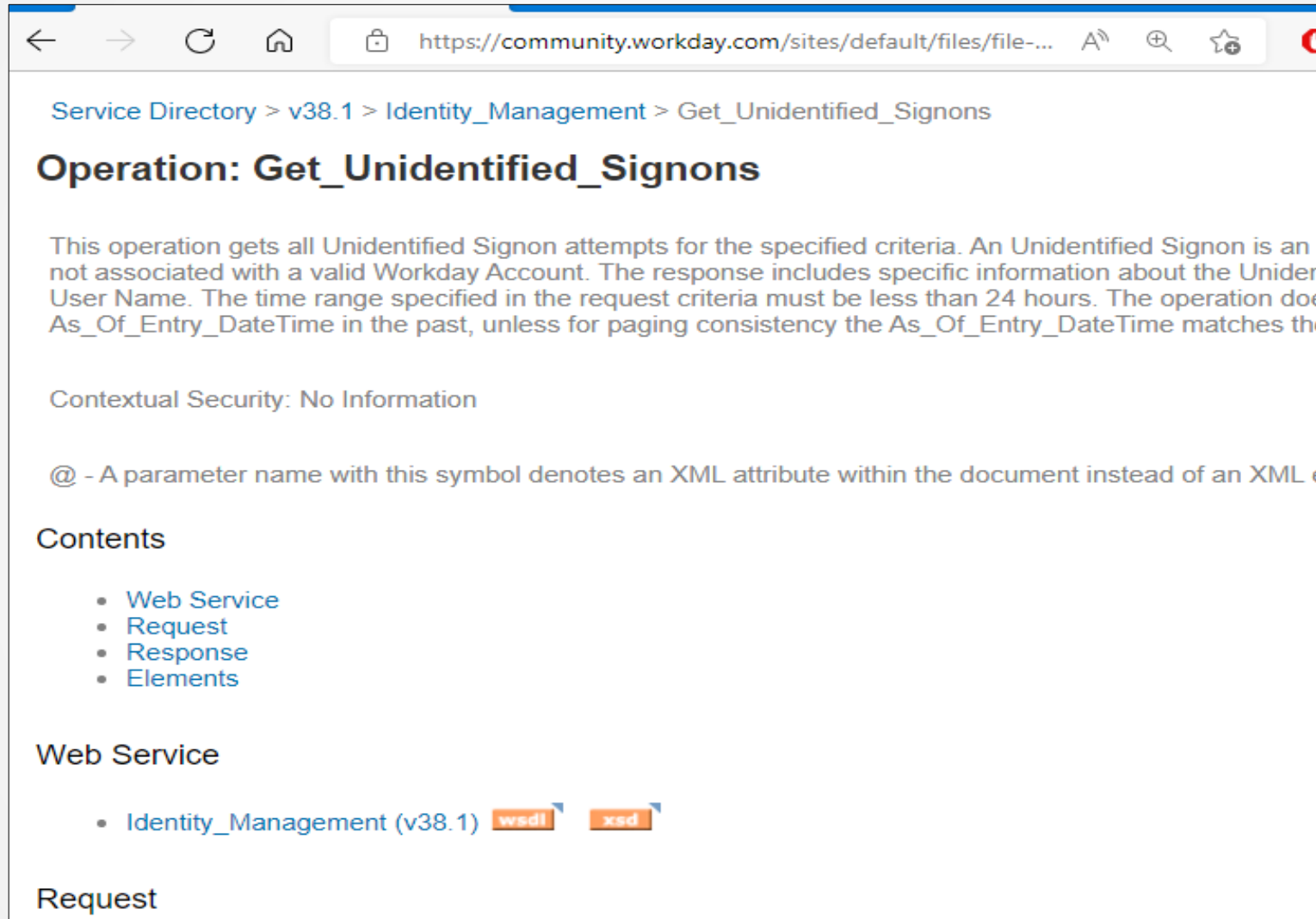
Property	Value
Name	CSV
Description	CSV
Encoding	
Endpoint	https://wd2-impl-servic...
Timeout	
Bind Address	
Follow Redirects	true
Username	[REDACTED]
Password	*****
Domain	[REDACTED]
Authentication Type	No Authorization
SSL Keystore	
Strip whitespaces	false
Remove Empty Content	false
Entitize Properties	false
Multi-Value Delimiter	

The Request Params tab is also visible, showing a parameter for the endpoint:

Name	Value	Style	Level
Company!WID	b8194fd415db0101...	QUERY	RESOURCE
format	csv	QUERY	RESOURCE

The Raw view shows the response data in CSV format, with columns for ID, Name, Date, and Award details. The response time is 3018ms (1599082 bytes).

# Example API - Get\_Unidentified\_Signons\_Request



The screenshot shows a web browser window with the URL <https://community.workday.com/sites/default/files/file-...>. The breadcrumb navigation is [Service Directory](#) > [v38.1](#) > [Identity\\_Management](#) > [Get\\_Unidentified\\_Signons](#).

## Operation: Get\_Unidentified\_Signons

This operation gets all Unidentified Signon attempts for the specified criteria. An Unidentified Signon is an attempt to sign on that is not associated with a valid Workday Account. The response includes specific information about the Unidentified Signon, including the User Name. The time range specified in the request criteria must be less than 24 hours. The operation does not return results for As\_Of\_Entry\_DateTime in the past, unless for paging consistency the As\_Of\_Entry\_DateTime matches the current page's As\_Of\_Entry\_DateTime.

Contextual Security: No Information

@ - A parameter name with this symbol denotes an XML attribute within the document instead of an XML element.

### Contents

- [Web Service](#)
- [Request](#)
- [Response](#)
- [Elements](#)

### Web Service

- [Identity\\_Management \(v38.1\)](#) [wsdl](#) [xsd](#)

### Request



# Example – SoapUI – Web Service API

The screenshot displays the SoapUI 5.6.0 interface. On the left, the Navigator pane shows a tree structure of test cases, with 'Request 1' selected under the 'Identity Management' section. The main workspace is split into two panes: 'Request 1' on the left and 'Inspector' on the right. The 'Request 1' pane shows the raw XML of the SOAP request, with a yellow arrow pointing to the `<bsvc:Get_Unidentified_Signons_Request>` element. The 'Inspector' pane shows the raw XML of the response, with a yellow arrow pointing to the `<wd:Response_Data>` element. Below the XML panes, the 'Request Properties' table is visible, and at the bottom, the status bar shows 'response time: 389ms (8327 bytes)'.

Property	Value
Name	Request 1
Description	
Message Size	518
Encoding	UTF-8
Endpoint	https://wd2-impl-servic...
Timeout	
Bind Address	
Follow Redirects	true
Username	*****
Password	*****
Domain	*****
Authentication Type	*****
WSS-Password Type	*****
WSS TimeToLive	
SSL Keystore	
Skip SOAP Action	false
Enable MTOM	false

Request 1

```
<?xml version='1.0' encoding='UTF-8'>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:bsvc="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header>
    <bsvc:Workday_Common_Header>
      <!--Optional:-->
      <bsvc:Include_Reference_Descriptors_In_Response>1</bsvc:Include_Reference_Desc...
    </bsvc:Workday_Common_Header>
  </soapenv:Header>
  <soapenv:Body>
    <bsvc:Get_Unidentified_Signons_Request >
    </bsvc:Get_Unidentified_Signons_Request>
  </soapenv:Body>
</soapenv:Envelope>
```

Inspector

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Body>
    <wd:Get_Unidentified_Signons_Response xmlns:wd="urn:com.workday/...
      <wd:Response_Results>
        <wd:Total_Results>12</wd:Total_Results>
        <wd:Total_Pages>1</wd:Total_Pages>
        <wd:Page_Results>12</wd:Page_Results>
        <wd:Page>1</wd:Page>
      </wd:Response_Results>
      <wd:Response_Data>
        <wd:Unidentified_Signon>
          <wd:Signon_DateTime>2022-06-01T12:01:05.388-07:00</wd:S...
          <wd:User_Name>Invalid Authentication</wd:User_Name>
          <wd:Authentication_Failure_Message>Invalid/Expired Acce...
          <wd:Signon_IP_Address>73.76.32.254</wd:Signon_IP_Addres...
          <wd:Authentication_Type>OAuth 2.0</wd:Authentication_Ty...
          <wd:Forgotten_Password_Reset_Request>0</wd:Forgotten_Pa...
          <wd:Request_Originator_Reference wd:Descriptor="Web Ser...
            <wd:ID wd:type="WID">02f60ab5ed5744c0afb9c5096d7a7...
          </wd:Request_Originator_Reference>
        </wd:Unidentified_Signon>
        <wd:Unidentified_Signon>
          <wd:Signon_DateTime>2022-06-01T12:01:05.390-07:00</wd:S...
          <wd:User_Name>Invalid Authentication</wd:User_Name>
          <wd:Authentication_Failure_Message>Invalid/Expired Acce...
          <wd:Signon_IP_Address>73.76.32.254</wd:Signon_IP_Addres...
          <wd:Authentication_Type>OAuth 2.0</wd:Authentication_Ty...
          <wd:Forgotten_Password_Reset_Request>0</wd:Forgotten_Pa...
          <wd:Request_Originator_Reference wd:Descriptor="Web Ser...
            <wd:ID wd:type="WID">02f60ab5ed5744c0afb9c5096d7a7...
          </wd:Request_Originator_Reference>
        </wd:Unidentified_Signon>
        <wd:Unidentified_Signon>
          <wd:Signon_DateTime>2022-06-01T12:05:21.743-07:00</wd:S...
          <wd:User_Name>Invalid Authentication</wd:User_Name>
          <wd:Authentication_Failure_Message>Invalid/Expired Acce...
          <wd:Signon_IP_Address>132.170.203.43</wd:Signon_IP_Addr...
        </wd:Unidentified_Signon>
      </wd:Response_Data>
    </wd:Get_Unidentified_Signons_Response>
  </env:Body>
</env:Envelope>
```

Request Properties

Property	Value
Name	Request 1
Description	
Message Size	518
Encoding	UTF-8
Endpoint	https://wd2-impl-servic...
Timeout	
Bind Address	
Follow Redirects	true
Username	*****
Password	*****
Domain	*****
Authentication Type	*****
WSS-Password Type	*****
WSS TimeToLive	
SSL Keystore	
Skip SOAP Action	false
Enable MTOM	false

Auth Headers (0) Attachments (... WS-A WS-RM JMS Headers JMS Property (0))  
response time: 389ms (8327 bytes)

Headers (8) Attachments (... SSL Info (2 certs) WSS (0) JMS (0))  
12:20

SoapUI log http log jetty log error log wrsm l... memory l...

This is the request API we are calling

This is the output from the API

# Q&A

# How to Get Involved?



Keep up to date by visiting the Knight Vision website at [knightvision.it.ucf.edu](https://knightvision.it.ucf.edu)



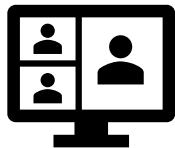
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