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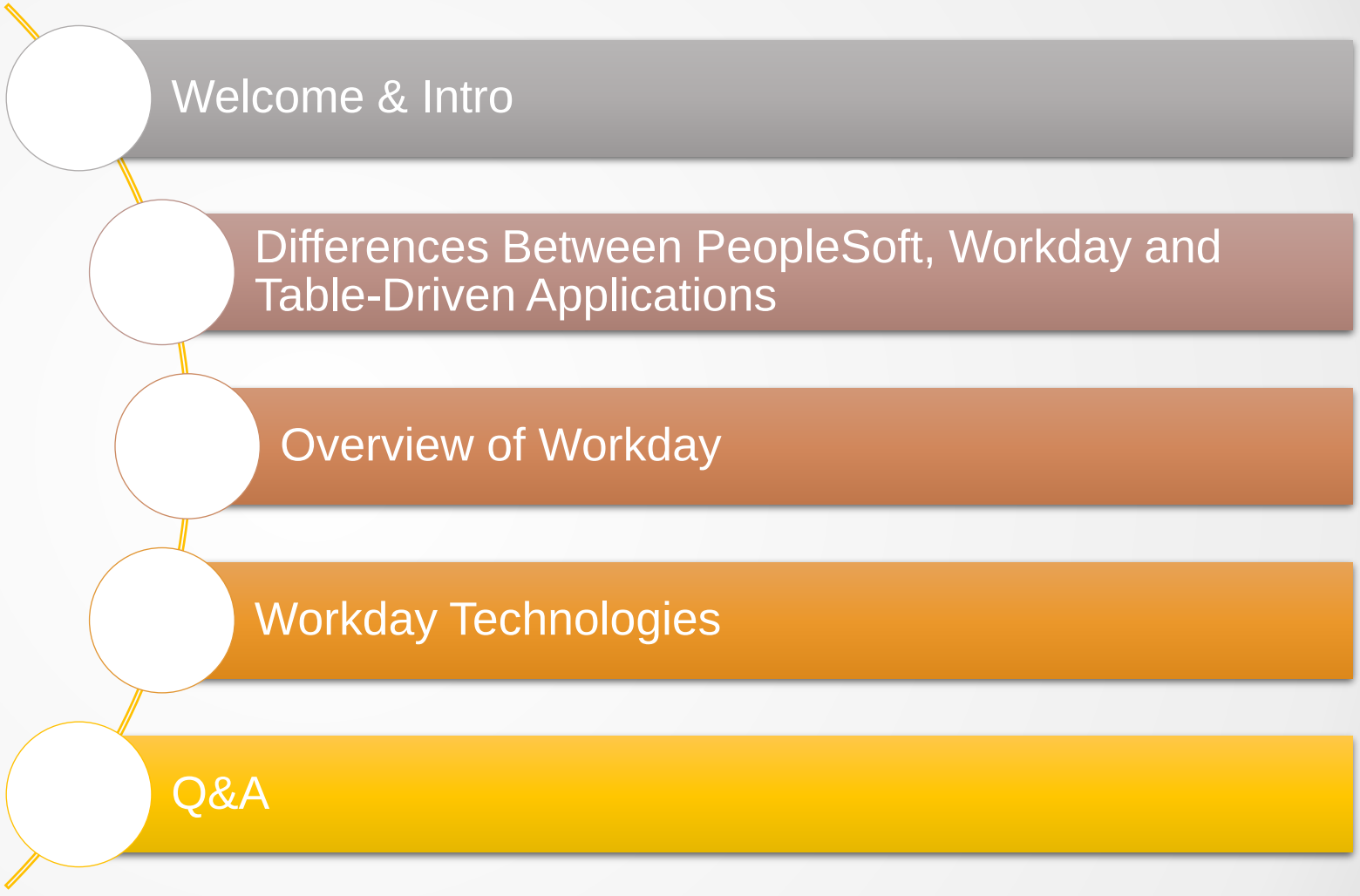
Knight Vision XChange: Technology

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

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…..

- 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 …

- 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

- 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

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Overview of Workday (Cont.)

- 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)

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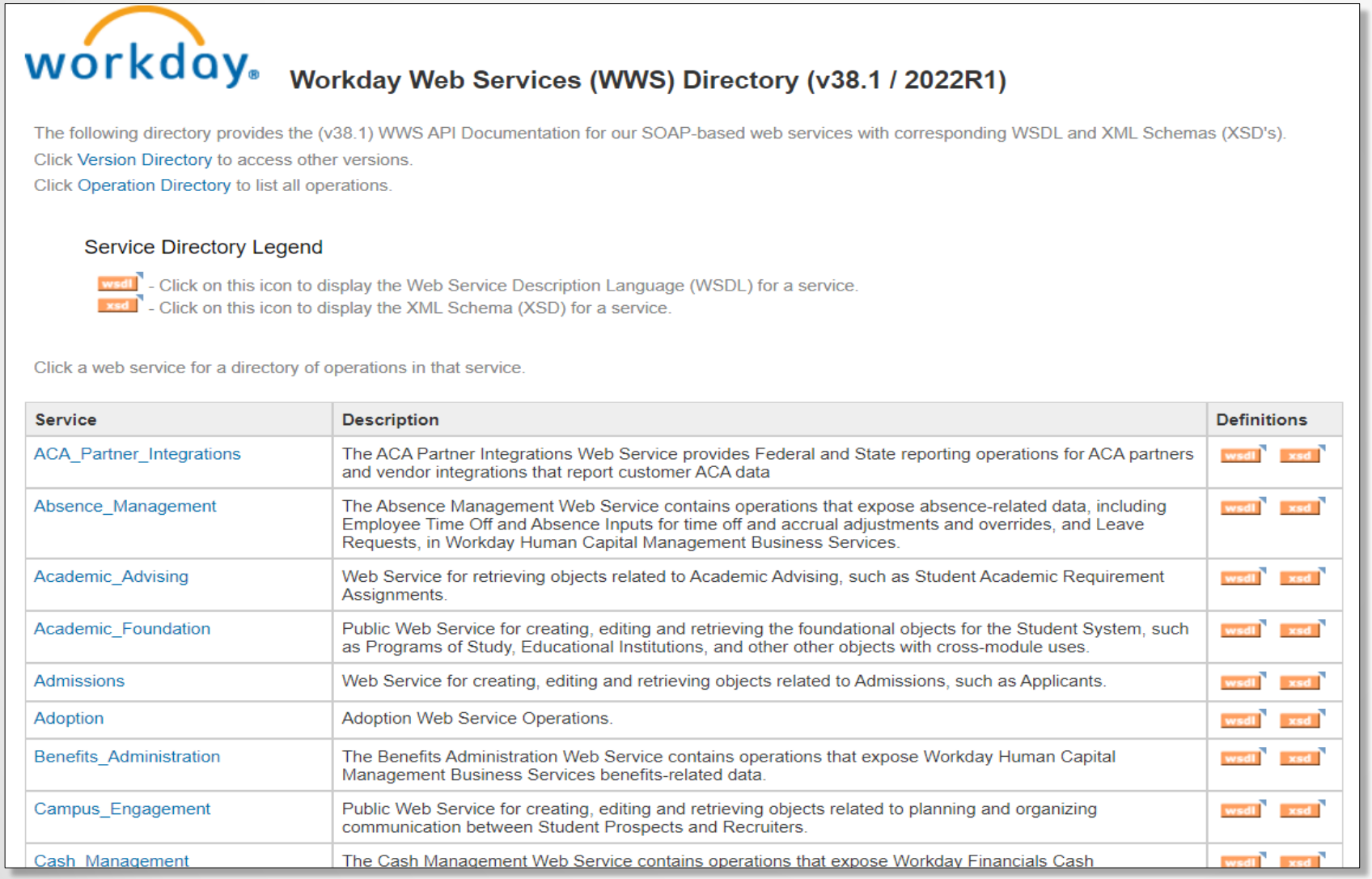
Workday Technologies

- 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.

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

wsdl - Click on this icon to display the Web Service Description Language (WSDL) for a service.
xsd - 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
ACA_Partner_Integrations	The ACA Partner Integrations Web Service provides Federal and State reporting operations for ACA partners and vendor integrations that report customer ACA data	wsdl xsd
Absence_Management	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.	wsdl xsd
Academic_Advising	Web Service for retrieving objects related to Academic Advising, such as Student Academic Requirement Assignments.	wsdl xsd
Academic_Foundation	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.	wsdl xsd
Admissions	Web Service for creating, editing and retrieving objects related to Admissions, such as Applicants.	wsdl xsd
Adoption	Adoption Web Service Operations.	wsdl xsd
Benefits_Administration	The Benefits Administration Web Service contains operations that expose Workday Human Capital Management Business Services benefits-related data.	wsdl xsd
Campus_Engagement	Public Web Service for creating, editing and retrieving objects related to planning and organizing communication between Student Prospects and Recruiters.	wsdl xsd
Cash_Management	The Cash Management Web Service contains operations that expose Workday Financials Cash	wsdl xsd

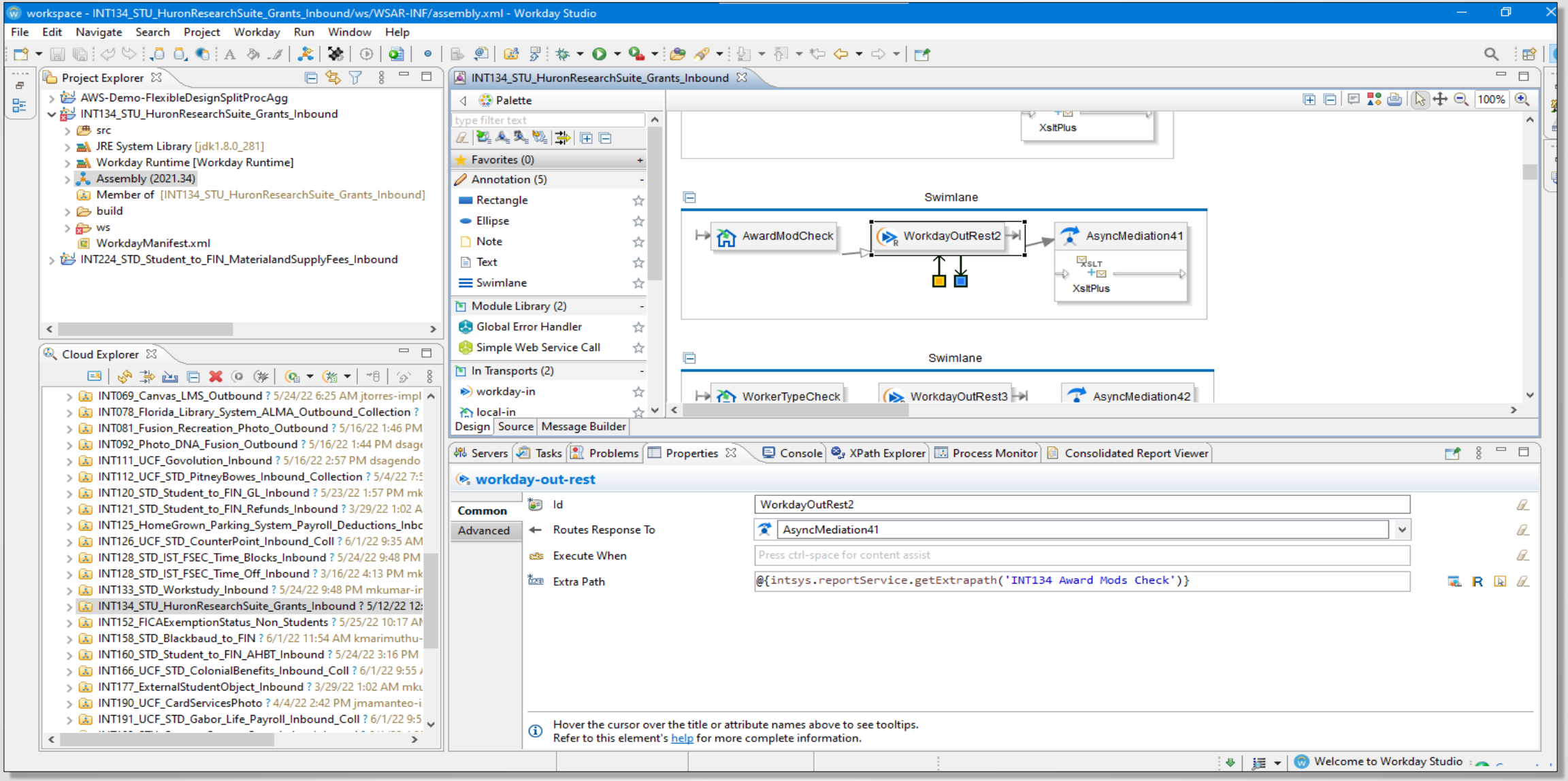
- XSLT – used to do transformations on either inbound or outbound
- Web Services - Workday Web Services (WWS) Directory (v38.1)

Examples – Workday Studio

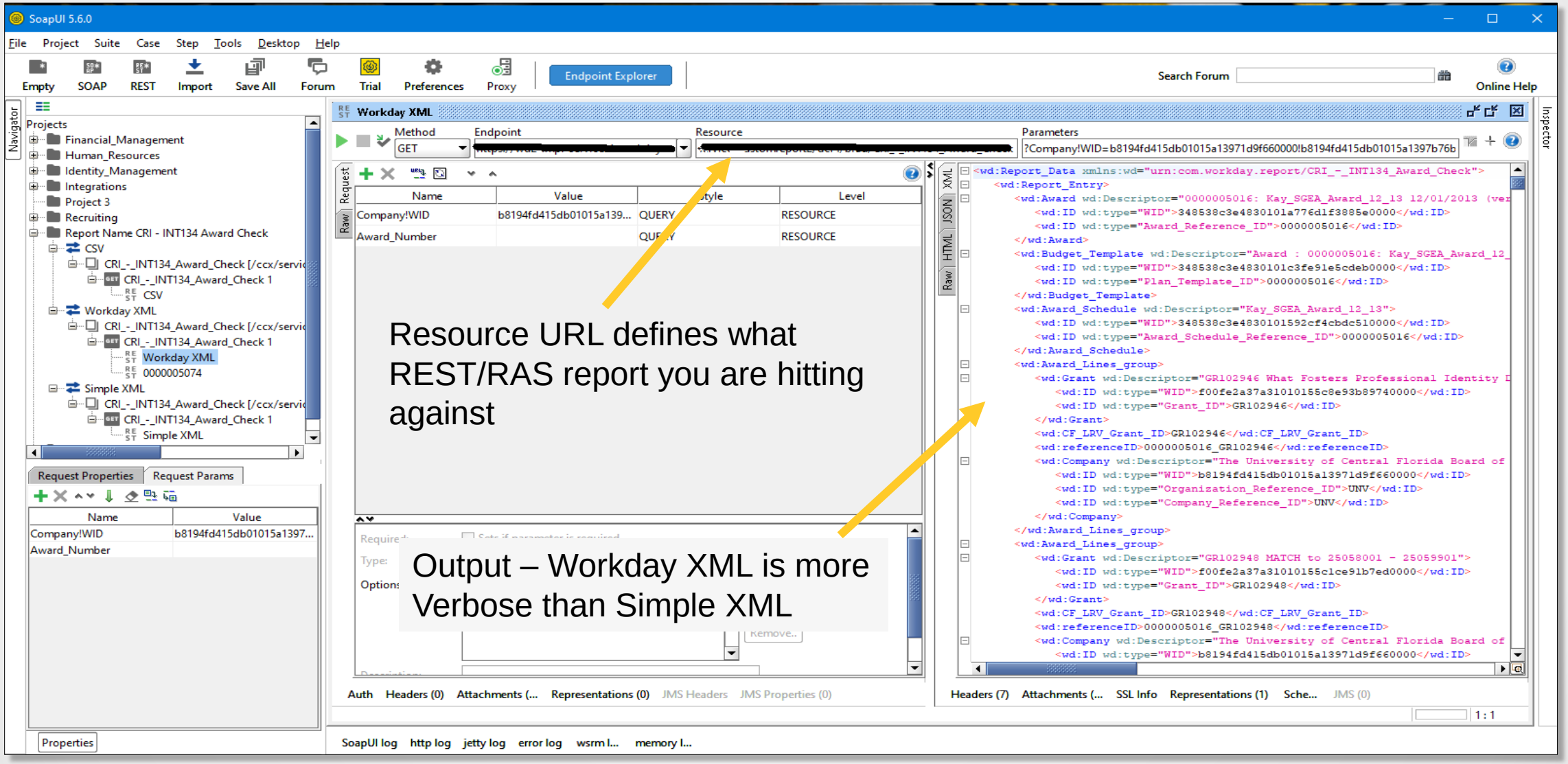
8. CallAwardModsCheck => local-out - Endpoint: vm://INT134_STU_HuronResearchSuite_Grants_Inbound/AwardModCheck
    - AwardModCheck => local-in
    - WorkdayOutRest2 => workday-out-rest
        - @{intsys.reportService.getExtrapath('INT134 Award Mods Check')}
    - AsyncMediation41 => async-mediation
        - 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



Example – SoapUI – REST Workday XML(RAS)



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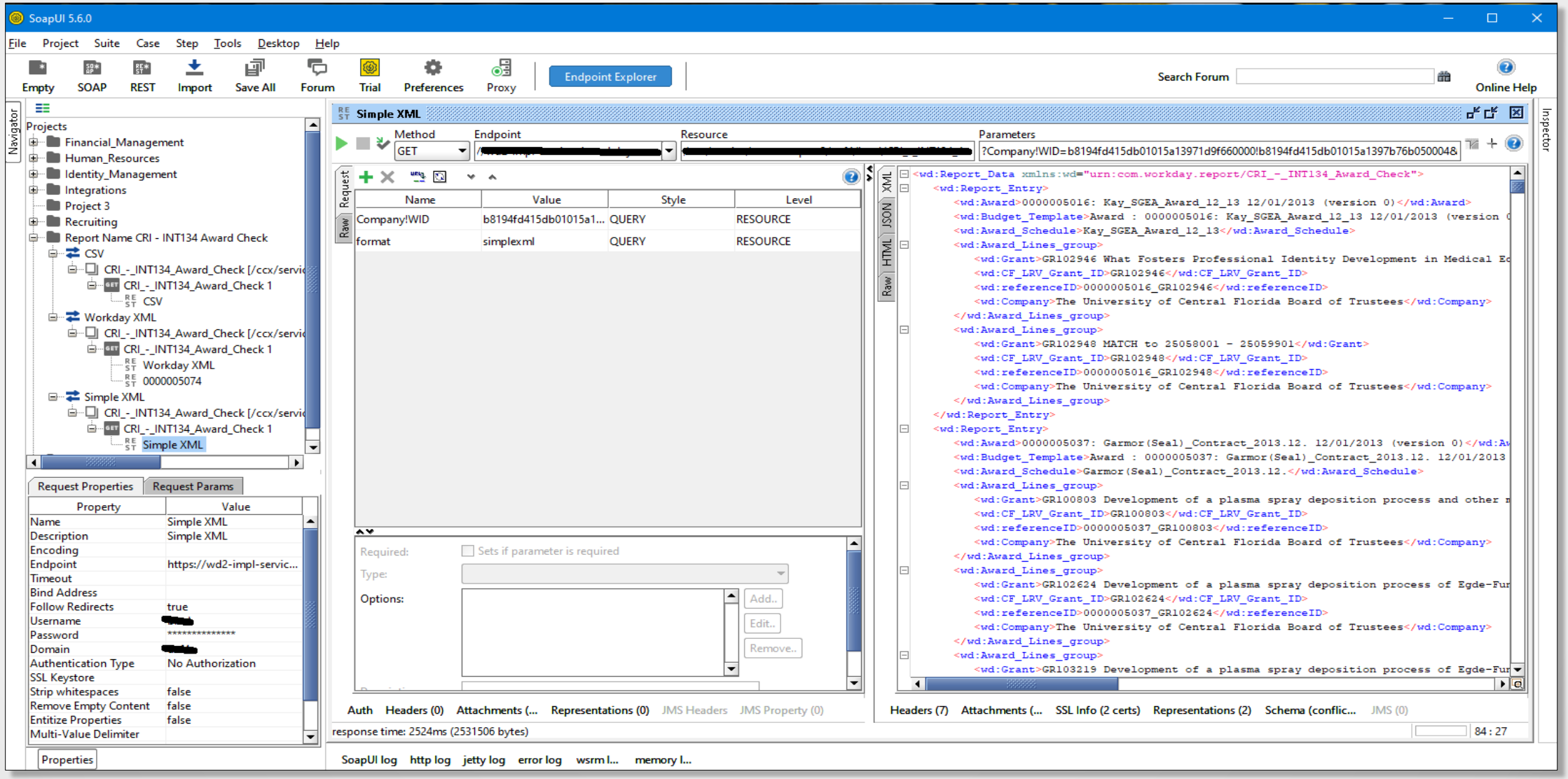
Example – SoapUI – REST SimpleXML (RAS)



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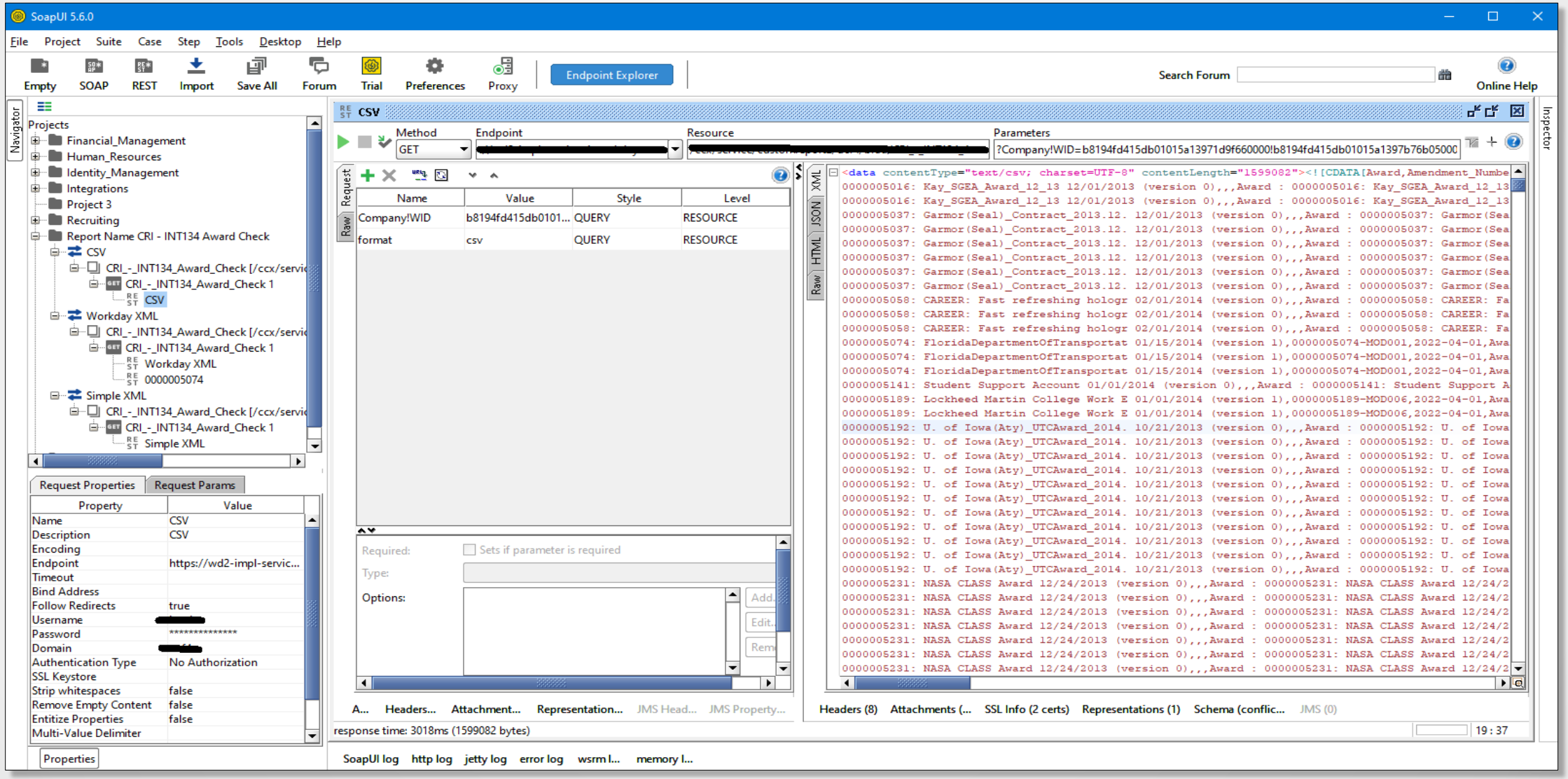
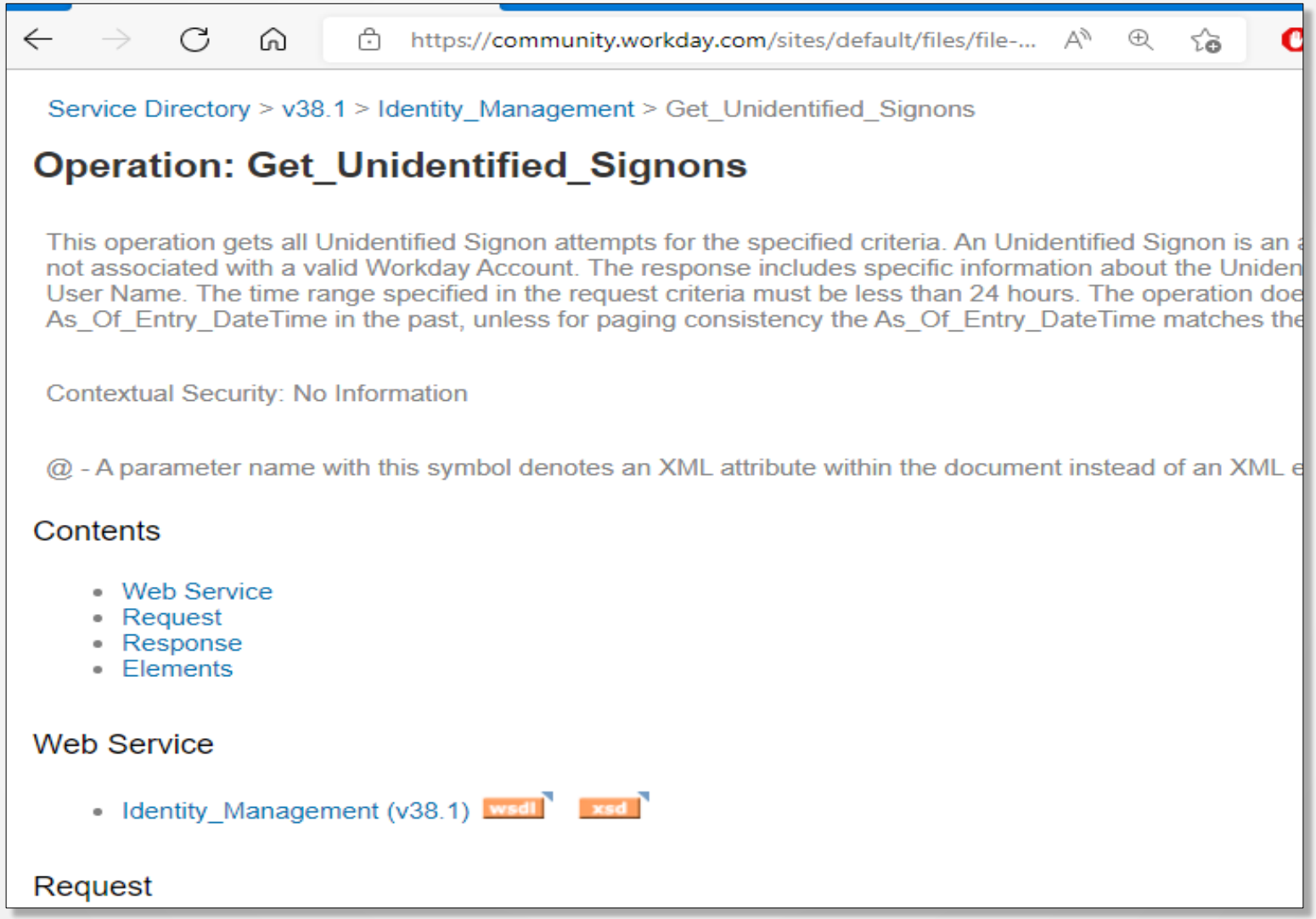
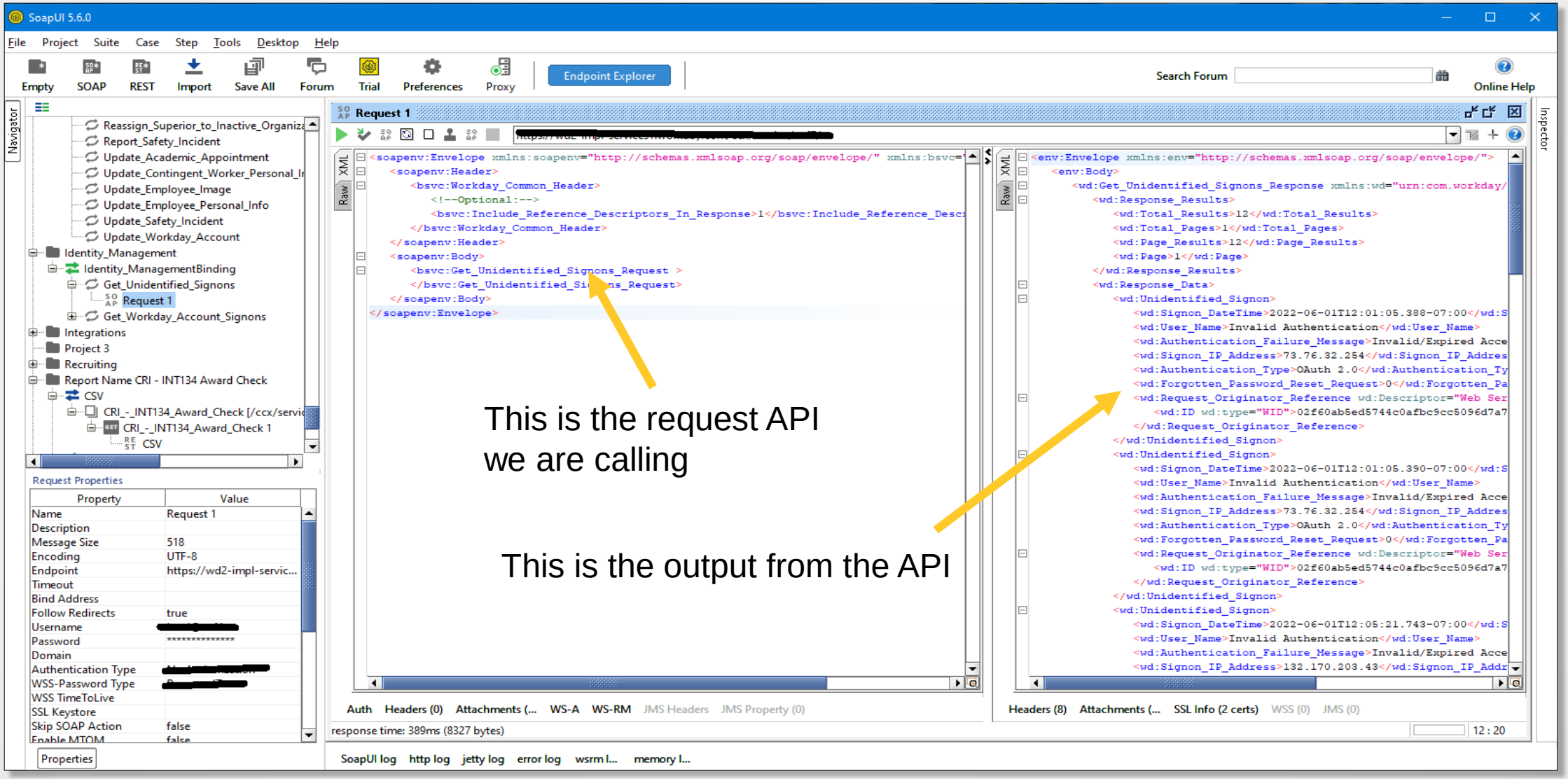
Example – SoapUI – REST CSV (RAS)



Example API - Get_Unidentified_Signons_Request



Example – SoapUI – Web Service API



Q&A

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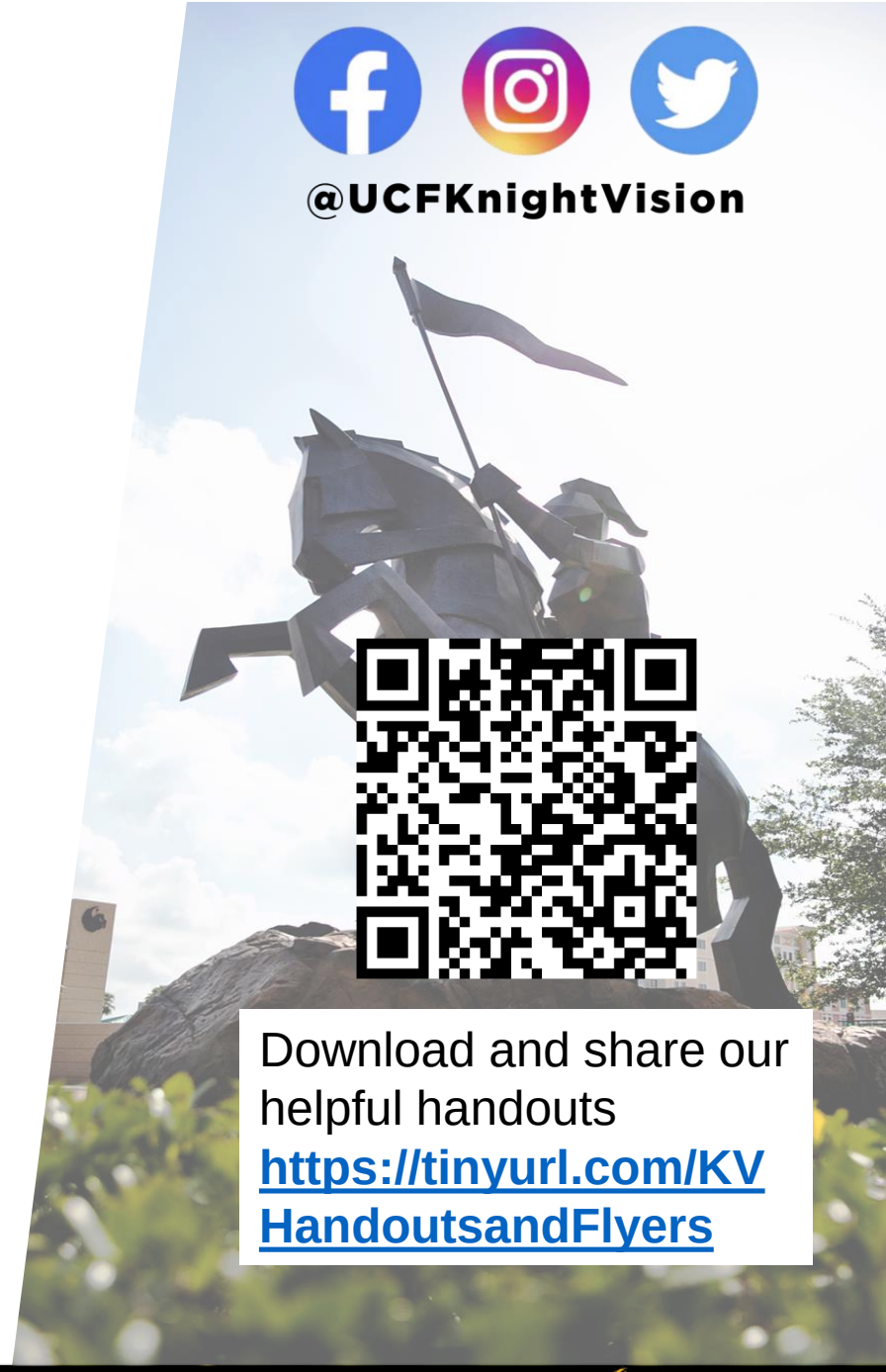

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