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AP E-Invoice Reference Application

AGENDA

- 01 Problem Statement**
- 02 Proposed Solution**
- 03 Key Features**
- 04 Benefits**
- 05 Application Overview**
- 06 AP E-Invoice Modules**
- 07 AP E-Invoice Data Transformation**

Problem Statement

AP e-invoicing present challenges for Workday, its partners, and customers. Common pain points include:

- Variations in e-invoice formats
- Additional attribute data requirements
- Text data to Workday reference mapping
- Tax data mapping
- Purchase order matching
- Error handling and resolution

Customers, partners, and consultants frequently seek guidance on how to address these issues, often encountering a lack of consistent guidances or best practices. This results in repeated questions and ad hoc solutions, placing a heavy burden on Workday product teams and Consultants.

Success in navigating these challenges often depends on individual connections and access to specific expertise, creating an inconsistent and uneven experience across the ecosystem.

Proposed Solution

Develop an AP E-Invoicing Reference Application

Design and build a reference application using **Workday Extend** and **Orchestrate** to demonstrate an approach for addressing the full range of AP e-Invoicing challenges — from ingesting an e-invoice to generating a supplier invoice in Workday.

The application will be **modular**, with each module focused on a specific challenge area. Comprehensive documentation will accompany each module to ensure clarity and reusability.

Each implemented module will reflect **collaborative expertise** drawn from Workday Product Managers, Developers, and expert Workday Consultants.

Key Features

The key features of the AP e-invoicing reference application are:

- Detects inbound format and uses appropriate mappings for data extraction
- Exception handling to allow for corrective actions before an invoice with detected exceptions is submitted. Additional options allowing invoices with exceptions to be submitted to Workday using “Put Supplier Invoice Text”
- Handling of additional attributes through custom object
- All parts of this application are built on Extend/Orchestrate, allowing customers and partners to tailor it to their particular needs
- A modular architecture with comprehensive documentation that makes the application easy to understand and modify

Benefits

By delivering an AP e-invoicing reference application, we can demonstrate to our customers, partners, and consultants effective approaches for addressing common pain points, as previously discussed.

This reference application serves as a single source of truth, showcasing best practices drawn from the collective experience of Workday product managers, developers, and consultants.

More importantly, it reduces the need to repeatedly answer similar questions about the e-invoicing application, as its comprehensive documentation is designed to address the most common inquiries.

AP E-Invoice Application

An **AP E-Invoice application** is a **Workday Orchestrate integration** that exposes an inbound endpoint and associated orchestration logic to receive **text-based electronic invoices** in multiple XML schemas.

The orchestration performs schema handling, data validation, mapping, and other processing before invoking Workday Financials services to generate a **Supplier Invoice (AP Invoice)** record in Workday.



Application Overview

The AP e-Invoicing reference application will be built using Extend and Orchestrate.

We will leverage Model Components from extend to store configuration information that will drive how an inbound e-invoice is processed.

We will leverage Extend UI to view/create/update configuration information. An UI task will also be created to support exception handling.

Orchestrate will be used for ingestion of the e-invoice document (XML). The ingested data will then be successively refined until it reaches a state that is ready to submit to Workday.

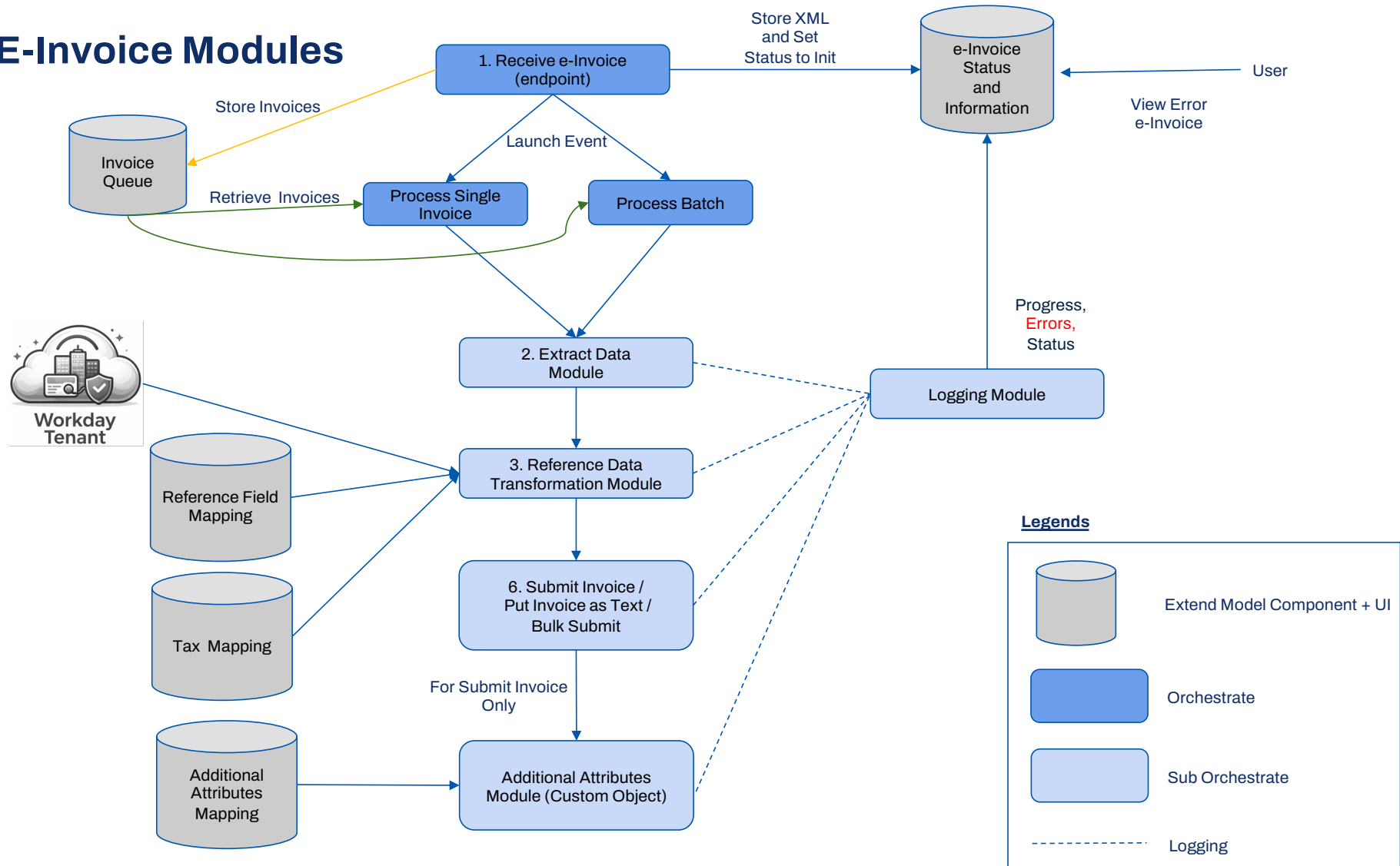
The diagram in the next page depicts the components we mentioned above.

Application Overview

A high-level flow as follow

1. Upon ingesting of e-invoice XML, we will persist the XML doc along with the status of INIT into a model component table 'e-invoice status/Lifecycle' that is meant to track the lifecycle of the inbound e-invoice
2. Detecting the XML format (i.e. UBL 2.1, PEPPOL BIS 3.0, etc), we will use the appropriate mappings to extract data to some intermediate storage. A separate name:value pair data will be created for global attributes (i.e. custom object) to be persisted after invoice creation in Workday. If required fields are missing or other anomalies detected, it will be logged in the 'e-invoice status/Lifecycle' table. Depend on configuration, the processing may stop here for the e-invoice, or proceed to the next step.
3. The data in the intermediate storage is enhanced by transforming text data to Workday references with exception handling similar to the above.
4. The data in the intermediate storage is enhanced by mapping tax information to Workday tax code, with exception handling similar to the above.
5. Typically, an inbound e-invoice without exceptions will be submitted. Based on configuration, an exception e-invoice may be created in Workday using "Put Supplier Invoice Text"
6. High volume of batch invoices are Bulk Submitted to Workday.

AP E-Invoice Modules



AP E-Invoice Data Transformation

