THE CITY OF
COLUMBUS
ANDREW J. GINTHER, MAYOR

DEPARTMENT OF
TECHNOLOGY

◆ **Enable** ◆ **Optimize** ◆ **Empower** ◆ **Modernize**

Data and Analytic Services Team
Talend Professional Services
Scope of Work

Contents

Introduction

This document lists the software to be acquired and describes the associated Talend professional services to be performed. Talend will develop a project work plan that provides the following:

- Staffing plan.
- Detail cost including labor hours.
- Project schedule including start date.

Talend Software to be Purchased

Talend software to be acquired is listed below:

Product Description	SKU	Quantity	Unit Price ACV	Total Cost ACV	Years 4 & 5 (plus 1 month) through 8/29/24
Talend Data Prep - Expansion	2001358	QTY. 1-Pack of 10 Named Users	$900	$900	$1,875
Talend Studio - Additional Named Users	2001014	QTY. 1-3 Named Users	$52,400	$52,400	$109,166.67
Talend Data Integration - High Availability	2001073	1 Additional 4 Core Server (Pre-prod)	$11,650.37	$11,650.37	$24,271.62
Talend Enterprise Service Bus - High Availability	2001235	1 Additional 4 Core ESB Server (Pre-prod)	$4,660.15	$4,660.15	$9,708.64
Talend Enterprise Service Bus - High Availability	2001235	3 Additional 4 Core ESB Servers (prod including 1 in the DMZ)	$9320.30	$27,960.89	$58,251.88
Total				$97,571.41 (12 months)	$203,273.81 (25 months)

Talend Software Support through August 2024

Software & Support	Support Term	Cost
All new Talend products listed above	Year 4 & 5 through August 29, 2024 (25 months)	$203,273.81

Talend Professional Services for Installation & Configuration

Talend professional services will install work with DAS team Data Engineers to install and configure newly purchased software acquired. A brief description of software installation services to be performed is provided.

Software Installation/Configuration	Position Title	Total Hours	Hourly Rate	Total Cost USD
All new Talend products listed above	Senior Consultant	60	233.75	14,025.00
	Delivery Manager	6	199.75	1,198.50

Talend Data Integration – High Availability (Pre-Production Environment)

Talend professional services will support DAS team Data Engineers to install and configure a new a Data Integration Job server (DI) in the City's pre-production environment. This will make the City's pre-production and production Talend DI environments match, allowing the City to test upgrades and patches and configuration changes in our pre-production environment prior to performing these tasks in the production environment. A brief list of tasks and deliverables is provided:

Tasks
- Installation and configuration of a new Talend DI Job server in the pre-production environment.
- Configuration of high-availability of Talend DI job servers in pre-production environment.
- Architecting and implementation of High Availability (HA) and Load Balancing (LB). This work will support the City's Enhanced Meter Project (EMP).
- Joint implementation of HA/LB with City of Columbus team (Pre-Prod & Production). This work will support the City's OneView integration project.

Deliverables
- Resumes of professionals.
- Pre-production Talend DI job server configuration that matches production environment.
- Documentation and Runbook.

High Availability ESB Runtime Installation & Configuration in DMZ (Pre-Production & Production Environment)

Talend professional services will support DAS team Data Engineers to install and configure ESB runtime with high availability in a DMZ environment. This will allow DAS team Data Engineers to publish Web Services that can receive messages from externally hosted applications (i.e. outside the City's network). A brief list of tasks and deliverables is provided:

Tasks
- ESB software installation and configuration.
- Setup SSL and security.
- Configure ESB runtime in TAC.
- Architecting and implementation of High Availability (HA) and Load Balancing (LB). This work will support the City's Enhanced Meter Project (EMP).
- Joint implementation of HA/LB with City of Columbus team (Pre-Prod & Production). This work will support the City's OneView integration project.

Deliverables
- ESB Runtime Installed in DMZ.
- Documentation and Runbook.

Talend Professional Services for Staff Augmentation

Talend professional services will perform the following activities.

1) Talend Architecture Review (Health Check)

Talend professional services will perform a comprehensive review of the Talend infrastructure (Software & Hardware) deployed by the City of Columbus, Department of Technology, Data Analytic Services Team (DAS team). A brief list of tasks and deliverables is provided:

Tasks
- Review server platform and currently installed modules. Provide advice on additional modules that City of Columbus should consider installing.
- Review of installed Talend configuration to see if it is optimally configured to needs and best practices.
- Assistance with identifying Talend logs and KPIs/metrics for use in Splunk. This work will support the City's Enhanced Meter Project (EMP).

Deliverables
- Documentation, Health Check documentation, walk through on how to operate and maintain environment.

2) Enhanced Metering Project – ESB / Data Integration Development (Staff Augmentation)

Talend professional services will support the development of a Talend integration job for the City's Enhanced Metering Project (EMP). DAS team Data Engineers have developed a job that leverages ESB data services to integrate an existing internally hosted application with an externally hosted application via REST and SOAP endpoints. A brief list of tasks and deliverables is provided:

Tasks
- Review use case requirements.
- Review the architecture for building the use case.
- Talend job development & refactoring.
- Unit Testing & Integration Testing.
- Advice on error handling and logging.

Deliverables
- Talend Data Integration Job Code.
- Documentation and Runbook.

3) OneView – ESB / Data Integration Job Development (Staff Augmentation)

Talend professional services will support the development of a Talend integration job developed by City of Columbus Data Engineers to integrate a new, cloud hosted Microsoft D365

CRM application with three existing applications hosted internally on City of Columbus infrastructure. A brief list of tasks and deliverables is provided:

Tasks
- Review use case requirements.
- Review the architecture for building the use case.
- Talend job development & refactoring.
- Unit Testing & Integration Testing.
- Advice on error handling and logging.

Deliverables
- Talend Data Integration Job Code.
- Documentation and Runbook.

4) General / As Needed Data Integration Job Development (Staff Augmentation)

Talend professional services will support the development of a Talend integration jobs on an as needed basis. Columbus Data Engineers will work with Talend professional services to determine specific use case requirements and project timeline. A brief list of tasks and deliverables is provided:

Tasks
- Review use case requirements.
- Review the architecture for building the use case.
- Talend job development & refactoring.
- Unit Testing & Integration Testing.
- Advice on error handling and logging.

Deliverables
- Talend Data Integration Job Code.
- Documentation and Runbook.

Project Name	Position Title	Total Hours	Hourly Rate	Total Cost USD
1. Health Check	Strategic Architect	32	250.75	8,024.00

	Senior Consultant	22	233.75	5,142.50
	Delivery Manager	6	199.75	1,198.50
2. EMP Project	Strategic Architect	24	250.75	6,018.00
	Senior Consultant	84	233.75	19,635.00
	Delivery Manager	11	199.75	2,197.25
3. OneView project	Strategic Architect	20	250.75	5,015.00
	Senior Consultant	84	233.75	19,635.00
	Delivery Manager	11	199.75	2,197.25
4. Staff Augmentation	Strategic Architect	20	250.75	5,015.00
	Senior Consultant	84	233.75	19,635.00
	Delivery Manager	10	199.75	1,997.50

Talend Training

The City will be purchasing unlimited access to Talend Academy. A table including the cost of the Talend Academy access is provided.

Talend Academy Access	Total Cost (Annual)	Year 4 & 5 (25 months)
Unlimited Access for additional Talend users	$9757.90	$20,328.93

Key Assumptions

A list of key assumptions is provided.

Vendor Access

- Talend professional services will connect to a City hosted virtual (persistent) workstation using VMWare Horizon desktop client.
- Talend professional services will be provided with a City Active Directory user account.
- Talend professional services will be provided with appropriate credentials to access endpoints / development resources.
- Talend professional services will provide resumes of the team members to be used for the described professional services efforts listed herein by July 19, 2021 with the anticipated project start date of August 9, 2021. Any changes to schedules may result in Talend staffing changes.

Development Resources

- DAS team will provide Talend professional services with existing requirements, documentation, and solution architecture diagrams to support Talend professional services performing the work.
- Talend professional services will utilize City's existing licenses for developing.
- Talend professional services will utilize City's existing versioning system (GitLab).

Appendix: Document History

Name	Comments	Date
DAS team	Draft	6/28/2021