**TALEND ESB**

**Training Syllabus**

| **I. Introduction to Talend ESB** | | |
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| Module Code | ESB01 | |
| Description | This module describes the concept of ESB, what is the difference between Data Integration and how it is implemented in the Talend ESB | |
| Duration | 3 hours | @ Day 1 |
| Objectives | At the end of this lesson, the participants will be able to: | |
| * Define ESB and application integration * Explore ESB capabilities vs. Data Integration capabilities * Identify the main ESB features * Describe a mediation route use case * Describe a simple ESB reference infrastructure | | |

| **II. Webservice** | | |
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| Module Code | ESB02 | |
| Description | This module describes about how to create and access SOAP and REST Webservice in the Talend ESB | |
| Duration | 3 hours | @ Day 2 |
| Objectives | At the end of this lesson, the participants will be able to: | |
| * Define web services (REST & SOAP) * Explain a standard web service use case * Create a web service in Talend Studio * Test a web service using a dedicated client * Create a job to consume a web service | | |

| **III. Messages, Exchanges, and the SIMPLE Language** | | |
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| Module Code | ESB03 | |
| Description | This module describes the Camel message model, exchange, message headers, and how to use the SIMPLE language in the Talend ESB | |
| Duration | 3 hours | @ Day 3 |
| Objectives | At the end of this lesson, the participants will be able to: | |
| * Describe the structure of a message * Describe the structure of an exchange * Use the SIMPLE language in a mediation route * Access message elements with Java code * Send a message from one route to another * Use the cDirect component as a producer and consumer | | |

| **IV. Case Study** | | |
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| Module Code | - | |
| Description | The game to be solved by participants | |
| Duration | 8 hours | @ Day 4 |
| Objectives | At the end of this lesson, the participants will be able to: | |
| * Utilizing components in the Talend ESB * Deploy ESB in the production environment | | |

| **V. Enterprise Integration Patterns (EIP)** | | |
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| Module Code | ESB04 | |
| Description | This module describes about the Enterprise integration patterns (EIP) and how it is implemented in the Talend ESB | |
| Duration | 3 hours | @ Day 5 |
| Objectives | At the end of this lesson, the participants will be able to: | |
| * Define enterprise integration patterns (EIP) * Name four common EIPs * Use EIPs in a mediation route * Use more-advanced EIPs | | |

| **VI. Calling Data Integration Jobs in Mediation Routes & Use the Message Broker** | | |
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| Module Code | ESB05 | |
| Description | This module describes about how to call DI Job from a route, receive a route message in a DI Job and connect to ActiveMQ message broker | |
| Duration | 3 hours | @ Day 6 |
| Objectives | At the end of this lesson, the participants will be able to: | |
| * Call DI Jobs in mediation routes * Configure a DI Job to receive a Camel exchange * Define enterprise messaging * Choose between two messaging strategies * Send messages from a route to a message broker * Receive messages from a message broker | | |