

CA LISA Release Automation

Foundations Training – Syllabus

General

The LISA Release Automation Foundations Training Course is designed to provide trainees with the knowledge required to build integration processes using LISA Automation Studio and Release Operation Center (ROC) from scratch. The course covers fundamental concepts of LISA Release Automation as well as basic work patterns. The course enables trainees to experience the product by executing labs and completing exercises which simulate real life processes. Throughout this course the trainees will experience the key features of the Automation Studio and ROC. There will be a maximum number of eight trainees per class in order to ensure that every trainee receives personal attention and productivity is maximized.

Course Profile

Instructor Led. Schedule: Three days, 9:00-16:30, 40% lectures, 60% labs

Maximum Number of Trainees per Class: Up to eight trainees per class only (Prior approval is required for more trainees)

Location: Customer site

Objectives

By the end of this course, the trainees will gain:

- Understanding of core concepts and workflows of LISA Release Automation system
- Competency in creating automated IT processes using LISA Automation Studio
- Running these automated processes as Releases from the Release Operations Center (ROC)

Audience

Operation experts, Integrators, IT experts, Developers, System Administrators

Knowledge Requirements

- IT operations experience
- Basic development background (Loops, Conditions, Arrays, XML)
- Basic operating system administration experience (Linux/Unix/Windows)
- Basic networking administration experience

Syllabus

Day 1	Day 2	Day 3
Introduction Lesson 1: Overview Lesson 2: Actions Lesson 3: Flows Lesson 4: Processes	Lesson 5: Loop Flows Lesson 6: Working with XML Lesson 7: Parameters in depth Lesson 8: File Distribution	Lesson 9: .ini Files Lesson 10: Release Operation Center (ROC) Basics Lesson 11: ROC – Artifacts If time permits: Lesson 12: ROC – Initialization Step Lesson 13: Administration

Course Setup and Class Requirements

Classroom HW requirements

- Projector 1024*768 minimum resolution VGA connector (Higher resolution highly recommended)
- White Board / Flip Board + Erasable Markers
- Desktops or Laptops (see HW Requirements)
- Internet connectivity for all participants and the trainer
- Electricity outlets for all computers/monitors and other equipment.
- At least three electricity outlets next to the instructor's location.
- Pre-class setup requirements

Lab Environment Setup Requirements

Any of the following lab setup options can be used for the training. Please contact 123Completed in order to determine the setup that should be configured for your training. We will be happy to assist you in this process.

Option A (Preferred)

- A centralized LISA Release Automation installation dedicated for training purposes.
- Per trainee computer (Windows preferred) with the ability to connect the LISA Data Management server.
- An agent to be configured on all trainee machines
- Access from Trainer laptop (or trainer computer in class) to the LISA server
- Remote access to agent computers at OS level
- Firefox or Chrome installed on trainees' computers

Option B

- A centralized LISA Release Automation installation dedicated for training purposes.
- Per trainee computer (Windows preferred) with the ability to connect the LISA Data Management server.
- LISA agents on server(s) in the LAN (may be VMs). There must be one agent per trainee to avoid conflicts.
- Access from Trainer laptop (or trainer computer in class) to LISA server
- Remote access from trainee machines to agent computers at OS level
- Firefox or Chrome installed on trainees' computers

Option C

- Trainer laptop will serve as the LISA Release Automation server
- Per Trainee computer (Windows preferred) with the ability to connect to the trainer laptop. Trainees' computers and the trainer's laptop should be placed on the same network.
- An agent to be configured on all trainee machines
- Firefox or Chrome installed on trainees computers.

Option D

- Full LISA Release Automation installation on every trainee computer. Should be installed prior to the course.
- Minimum requirements for each trainee computer:
 - OS must be 64bit! (Windows preferred)
 - Minimum 4 GB RAM and 20GB free disc space
 - Firefox or Chrome browser installed
 - Admin privileges
- Each installation of the full LISA Release Automation suite requires access to a database which could be installed locally or a separate schema on a database in the LAN.
 - Supported databases are Oracle and MS-SQL.
 - Consult LISA documentation for other system requirements and setup procedures.

Day 1 Agenda

Introduction

- Course objectives
- Course agenda
- Course expectations

Lesson 1: Overview

- The motivation for using LISA Release Automation
- Conceptual building blocks
- Runtime architecture
- Labs

Lesson 2: Actions

- What are actions?
- Action structure and creation
- Defining parameters - Basics
- Labs

Lesson 3: Flows

- What are flows?
- Flows logic and structure
- Labs

Lesson 4: Processes

- Server Types and Architectures
- The LISA Process
- Publishing Processes
- Reports
- Labs

Day 2 Agenda

Lesson 5: Arrays & Loops

- Array parameters
- Loops flows
- Labs

Lesson 6: Working with XML

- XPath Basics
- XML in LISA
- Labs

Lesson 7: Parameters in depth

- Parameter scope
- Parameters best practices
- Labs

Lesson 8: File Distribution

- File distribution actions
- Using agents for transferring files
- Labs

Day 3 Agenda

Lesson 9: .ini Files (*.properties files)

- Structure of an ini file.
- .ini file actions
- Labs

Lesson 10: Release Operation Center Basics

- Introduction to the Release Operations Center
- ROC basic concepts
- Labs

Lesson 11: ROC – Artifacts

- Artifacts
- Labs

Lesson 12: ROC – Initialization Step (If time permits)

- Initialization Step Overview
- Dynamically Create Release Steps
- Initialize Parameters
- Assign Servers
- Labs

Lesson 13: Administration (If time permits)

- Managing Users
- Managing Agents
- Permissions