# Fast Lane

# SUSE Edge 3 Platform Deployment (EDGE211V3.4)

**ID** EDGE211V3.4 **Price** CHF 2,050.—(excl. VAT) **Duration** 3 days

## Who should attend

This course is designed for systems administrators responsible for provisioning edge cluster nodes and deploying Kubernetes clusters on them. The key component used for this is Edge Image Builder and output images it creates.

## Prerequisites

A good understanding and experience working with Kubernetes clusters is essential. Operating skills on Linux terminal shells and managing YAML files are also required.

## Course Objectives

Attendees will be taught the following concepts and skills:

- Understanding of edge computing and SUSE Edge stack concepts and benefits
- Functionality and features of Edge Image Builder
- Manual edge management with Standalone provisioning
- Building and deployment of a SUSE Edge Management Cluster
- Phone-Home edge cluster on-boarding with Elemental
- Fully automated cluster management with Directed Network provisioning using Metal3 and Cluster API
- Introduction to edge configuration specifics for SUSE Telco Cloud

## Course Content

### Section 1: Course Introduction

### Section 2: Introduction to SUSE Edge

- Understand the basics of edge computing
- Understand SUSE Edge and its key features
- Be familiar with the software components that build SUSE Edge 3

### Section 3: Edge Image Builder

- Understand the basics of the Edge Image Builder

- Get familiar with the directory structure used to configure the Edge Image Builder
- Learn how to run the EIB container to create an ISO or Raw output image
- Understand how to troubleshoot a failed output image creation

### Section 4: Standalone Provisioning

- Understand how to provision a standalone cluster using Edge Image Builder

### Section 5: SUSE Edge Management Cluster Deployment

- Understand the role of the SUSE Edge Management Cluster
- Learn how to configure Edge Image Builder for management cluster ISO file creation
- Provision EIB images to deploy the SUSE Edge Management Cluster
- Get familiar with how to troubleshoot a failed management cluster deployment
- Understand how to use System Upgrade Controller and Upgrade Controller to transfer SUSE Edge platform components to a newer version

### Section 6: Phone Home Provisioning

- Learn how to install and configure Elemental for remote host onboarding
- Identify how to use the Elemental components in the Rancher Manager GUI

### Section 7: Directed Network Provisioning

- Identify the configuration steps to create a RAW image for bare-metal provisioning
- Learn how to provision a bare-metal downstream cluster
- Learn how to provision a multi-node bare-metal downstream cluster

### Section 8: Provisioning Telco Downstream Clusters with SUSE Telco Cloud

- Understand the requirements in Radio Access Networking
- Get familiar with the special configuration and applications required in Telco environments
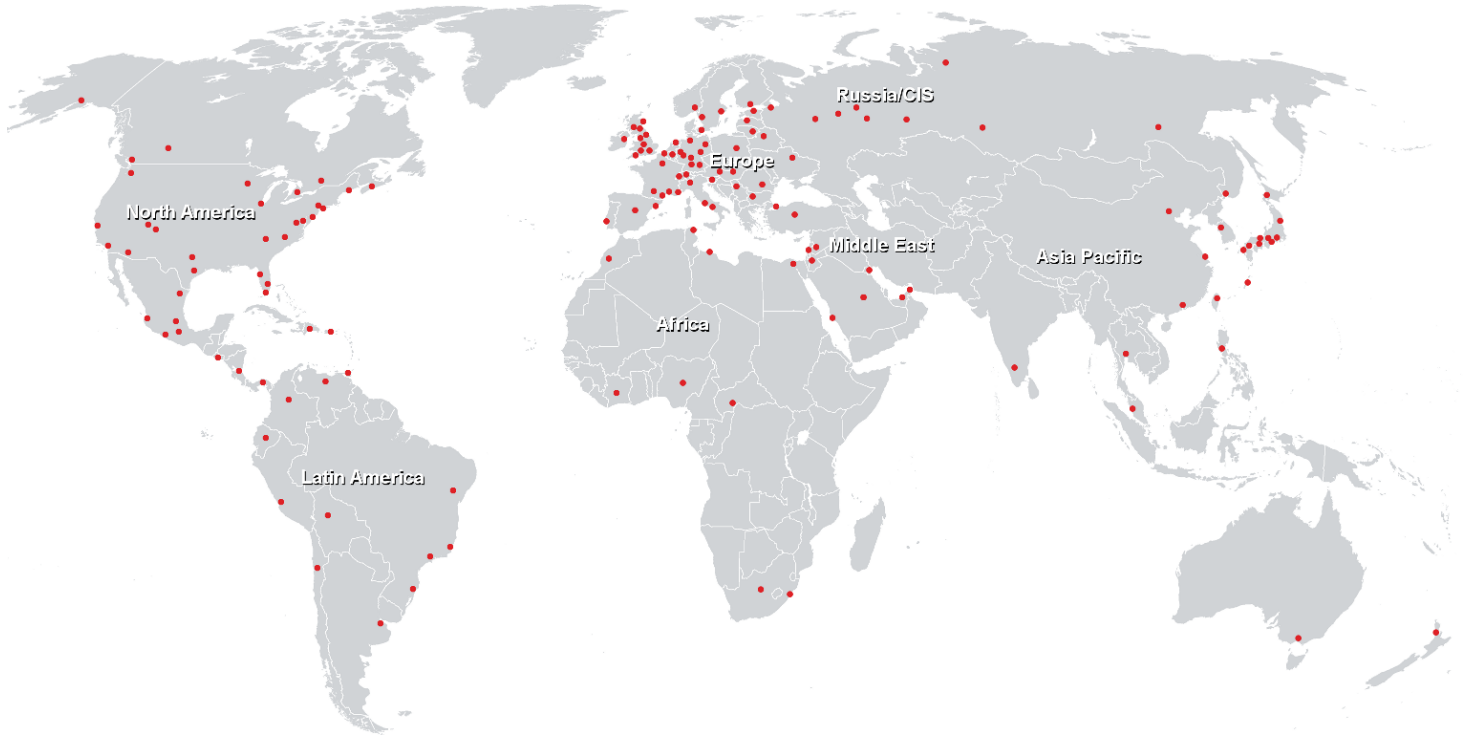
- Learn how to provision a Telco downstream cluster with Directed Network Provisioning method

# SUSE Edge 3 Platform Deployment <span style="color:red">(EDGE211V3.4)</span>

**Training Centres worldwide**





**Fast Lane Institute for Knowledge Transfer (Switzerland) AG**

Husacherstrasse 3
CH-8304 Wallisellen
Tel. +41 44 832 50 80

**info@flane.ch, https://www.flane.ch**