## Life Cycle Management for ODI Getting Started Guide

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### GENERAL INFORMATION

### Introduction

IKAN ALM provides a Life Cycle Management Solution for ODI using specific Solution Phases. Our LCM4ODI solution needs the following working installations:

- One of the following versions of ODI: ODI 11gR1, ODI 12cR1 or ODI 12cR2
- The corresponding version of ODI Studio
- The IKAN ALM Demo Version
  - Note: the IKAN ALM Demo version used for this *LCM for ODI Trial* comes with a pre-installed file-based Subversion repository.
- The VCR4ODI Connector (for ODI 11gR1, ODI 12cR1 or ODI 12cR2)

All these components can run on one and the same machine, or on different machines.

#### For example:

You could have your ODI Repositories on a Linux machine and IKAN ALM running on the same or on another Linux machine, or on a Windows system. The VCR4ODI connector together with ODI Studio could be installed on yet another machine (usually a Windows workstation) and Subversion could run on the machine where ODI or IKANALM or VCR4ODI runs or on another Linux or Windows machine.?

The only requirement is that ODI Studio is installed on the same machine as IKAN ALM and on the same machine as VCR4ODI. So if IKAN ALM and VCR4ODI are not installed on the same machine, you will need two installations of ODI Studio.

#### 1.1. System Setup for this Getting Started Guide

For this Getting Started Guide, we have chosen a simple setup whereby:

- Windows is used as main environment.
- On one and the same Windows machine, the following components must be installed: IKAN ALM Demo (containing Subversion), VCR4ODI and ODI Studio.
- ODI can be installed on that same Windows machine or on any other machine.

**Note:** If the Oracle DB that is being used for the ODI repositories requires connections via TNS, Oracle client software must be installed on the developer machine running VCR4ODI. See also <u>Installing VCR4ODI</u> (page 27).

#### 1.2. Files Needed

All necessary files are available on our website <a href="https://www.redbridgesoftware.com/download.html">https://www.redbridgesoftware.com/download.html</a>.

You can also download LCM4ODI\_trial folder from our FTP Server. In that case, you will find the necessary FTP details (user name and password) in the mail you received from our Support Team.

#### **Targeted Audience** 1.3.

The target audience of this guide are engineers who want to know how to fully automate the Life Cycle Management process using ODI and ODI Studio in combination with the VCR4ODI connector, IKAN ALM and its dedicated ODI Solution Phases.

#### What Will You Learn? 1.4.

After you followed this tutorial, you will be able to:

- set up a Project,
- implement you own life cycle in IKAN ALM and create the necessary Levels and Environments,
- install the ODI Solution Phases and adapt them to your requirements, and
- understand how the full process of versioning, managing life cycles, creating archives and restoring objects using the ODI Solution phases works.

### **About this Guide**

This *Getting Started Guide* describes the complete procedure to install all the different components and set up and adapt the ODI Solution Phases using a simple example.

For the examples in this guide, we use Windows in combination with ODI 11gR1, IKAN ALM 5.7 and the corresponding ODI Solution Phases. If you are using ODI cR1 or cR2, you can use this guide as well. The only difference resides in the parameters for the ODI Solution Phases.

#### **IMPORTANT!**

For the purpose of this *Getting Started Guide*, all components, except for ODI, must be installed on the same machine! See also <u>System Setup for this Getting Started Guide</u> (page 1).

#### 2.1. Installing the Different Components

The first parts in this *Getting Started Guide* will guide you trough the different steps for installing the following components.

- 1. [A working installation of ODI must be available (may be installed on a different machine).]
- 2. Downloading the required files (Getting Started (page 10))
- 3. Installing the IKAN ALM Demo version (<u>Installing the IKAN ALM Demo Version</u> (page 13))
  The IKAN ALM Demo installation will fulfill the following requirements: the IKAN ALM Server and Agent will be installed and the Ant scripting tool and Subversion repository will be installed and configured. It also includes the Subversion server.
- 4. Setting up Subversion (<u>Setting Up Subversion</u> (page 24))
- 5. Installing the VCR4ODI connector (<u>Installing VCR4ODI</u> (page 27))
  The VCR4ODI connector enables the interaction between the ODI Repositories and the Version Control Repository (Subversion). It is used to commit ODI objects to the VCR and, vice versa, to restore objects from the VCR into ODI.

Note that the full versions of the different installation guides can be found on our website.

#### **Demonstration of the Life Cycle Management Functionalities for** 2.2. ODI

Next, all components being installed and configures, the part Using the LCM4ODI Solution explains how to achieve full Life Cycle Management for ODI using a simple example (ODI Solution Phases (page 47)).

The different steps include:

- creating an IKAN ALM project,
- creating the required Life Cycle, Levels and Environments,
- importing the ODI Solution Phases and adapt them to your requirements,
- auditing the project,
- committing a change using VCR4ODI,
- creating a Build Level Request using the Sources in the Subversion Repository,
- creating a Deploy Level Request to deliver the Build result to the Test Environment.

If you want to follow this step-by-step Getting Started Guide, continue to the first step: downloading the required files (Downloading the "LCM4ODI trial" folder from the FTP Server (page 11)).

#### **Quick Start** 2.3.

You might also download, install and configure the different components separately without following this Getting Started Guide step-by-step.

The installation of the components is straight-forward and consists of the following actions:

1. Install IKAN ALM Demo

If you downloaded the files from our FTP Server: extract the ikanalm\_trial\_x64.exe file and execute the almdemo\_install\_5-7\_x64.exe file.

If you dowloaded the files from our website, you can immediately execute the installer.

2. Set up Subversion for ODI

See also <u>Setting Up Subversion</u> (page 24).

3. Install and configure the VCR4ODI connector

Install the VCR4ODI connector for the ODI Version you are using.

See also <u>Installing VCR4ODI</u> (page 27).

4. Install and configure the ODI Solution Phases

See also <u>ODI Solution Phases</u> (page 47).

### **Required Information**

To follow the procedure described in this *Getting Started Guide*, you need the following information to configure the connections between ODI, IKAN ALM and VCR4ODI.

#### 3.1. Required Information for Configuring IKAN ALM

The following information is needed when creating the Subversion definition in IKAN ALM.

Required Information

Your Value

The name of the VCR Project you will be using. See also <u>Setting Up Subversion</u> (page 24).

#### **Required Information for Configuring VCR4ODI** 3.2.

The following information is needed when creating the VCR4ODI User Profile.



#### The name of the ODI User. The password of the ODI User. The Schema name of the Master Repository. The Schema password of the Master Repository. The class name of the jdbc driver used to connect to the ODI repository. The URL path of the Master Repository. The name of the ODI Work Repository you want to connect to.

The URL path of the Subversion Repository.

This path is composed as follows:

file:///<ALM\_HOME>/vcr/subversion/repository/

<MyProject>/trunk

In which <ALM\_HOME> stands for the IKAN ALM demo installation location) and <MyProject> for the VCR Project name you created earlier

(Setting Up Subversion (page 24))?

The path to the repository can also be found in the Version Control Repository definition in the Global Administration section in IKAN ALM (Subversion Definition (page 36)).

The path to a local working copy.

This folder will be the starting point for checking out objects from the repository and for managing the comparison between ODI and Subversion.

Important: each user should have his/her own local working repository.

#### Required Information for Configuring the ODI Solution Phases 3.3.

The following information is needed when defining the parameters used in the ODI Solution Phases.

		Name	Default value	Description	Mandatory	<b>Secure</b>	Integration Type
×	0	alm.phase.builder			1		ANT
×	6	alm.phase.extractBundle	true		1		None
×	0	alm.phase.mainScript	restoreODI11.xml	Main Script	1		None
×	<u>C</u>	odi.action	restoreAllObjects	ODI Restore Action. Valid values are : r estoreAllObjects, restoreFromProjectLis t, restoreAllScenarios	4		None
×	ø	odi.action.loglevel	info	Log Level of the ODI Restore Action. Va lid values are : error, warning, info, deb ug	4		None
×	ď	odi.export.dir	\${source}/odi	Folder that contains the exported ODI fi les that will be restored	1		None
×	0	odi.home	C:\oracle\product\ODI_11117	ODI_HOME Location	1		None
×	ď	odi.home.classpath.includes	oracledi.sdk/lib/*.jar	List of paths to jars to include on the cl asspath of the phase. Paths should be s eparated by a "," and are relative to th e ODI_HOME	*		None
×	ď	odi.home.jps-config	oracledi/client/odi/bin/jps-config.xml	Path to ODI jps-config.xml file, relative to ODI_HOME	1		None
×	0	odi.user.name	SUPERVISOR	ODI User Name	1		None
×	0	odi.user.passwd	***	ODI User password	1	1	None
×	0	odi.workRepository.name		ODI Work Repository Name	1		None
×	Œ.	oracle.home		ORACLE_HOME Location. Required whe n rdbms.master.tns.connect.descriptor has been set			None
×	ď	project.codes		ODI Project Name(s) to Restore. Names must be separated by a comma (,).			None
×	ď	rdbms.master.host	localhost	Hostname of the ODI Master Repository Database Connection	1		None
×	0	rdbms.master.passwd	****	Password of the ODI Master Repository Database Connection	1	*	None
×	ď	rdbms.master.port	1521	TCP port of the ODI Master Repository Database Connection			None
×	0	rdbms.master.sid	orcl1107	SID of the ODI Master Repository Data base Connection	1		None
×	e e	rdbms.master.tns.connect.desc riptor	(DESCRIPTION=(ADDRESS=(PROTOC OL=TCP)(HOST=\${rdbms.master.hos t})(PORT=\${rdbms.master.port}))(C ONNECT_DATA=(SERVER=DEDICATE D)(SERVICE NAME=\${rdbms.master.port})	TNS Connect Descriptor of the ODI Mas ter Repository Database Connection			None
×	ď	rdbms.master.username	ALM_MASTER_11	User Name of the ODI Master Repositor y Database Connection	*		None
×	4	restore.odi.dependencies	false	Flag to indicate whether to also restore the dependencies of the ODI objects (li sted in .shadow files) or not	*		None
×	Ġ,	topology.context.restore	true	Flag to indicate whether to restore the contexts or not	1		None
×	Ø.	topology.logical.restore	true	Flag to indicate whether to restore the I ogical topology or not	*		None
×	6	topology.physical.restore	true	Flag to indicate whether to restore the physical topology or not	1		None

Required Information	Parameter Name	Your Value
ODI_HOME Location	odi.home	
ODI User Name	odi.user.name	
ODI User Password	odi.user.passwd	
The ODI Work Repositories you use for the different environments	odi.workRepository.name	
Password of the ODI Master Repository Database Connection	rdbms.master.passwd	

Required Information	Parameter Name	Your Value
SID of the ODI Master Repository Database Connection	rdbms.master.sid	
User Name of the ODI Master Repository Database Connection	rdbms.master.username	

#### 3.4. **Other Oracle Initialization Values**

For the following parameters, we use the Oracle initialization values.

If your value is the same as the initialization value, no modification will be required. If not, you will have to modify their initialization value. How you do this will be explained later on, in the section Specifying the <u>Initialization Values for the Parameters (Global Administration)</u> (page 51).

Required Information	Parameter Name	Default Value	Your Value
Hostname of the ODI Master Repository Database Connection	rdbms.master.host	localhost	
TCP port of the ODI Master Repository Database Connection	rdbms.master.port	1521	

### **Getting Started**

You can either download the required files from our website or from our FTP Server.

#### 4.1. Downloading the zip files from our website

You need to download the following files from our website:

- The LCM framework (IKAN ALM)
- LCM for ODI (for the ODI version you are using)

#### THE IKAN ALM Demo folder

This folder contains the installation files for the IKAN ALM 5.7 Demo version: ikanalm\_demo\_x64.exe.

#### The ODI\_xx folder (xx being the version of ODI you are using (11gR1, 12cR1 or 12cR2)

This folder contains the IKAN ALM Solution Phases for ODI and the installation files for the VCR4ODI connector:

- SolutionPhases ODI xx folder
  - com.ikanalm.phases.database.odi.copyODIFiles-*X.Y.Z.*jar *X.Y.Z* being the release ID of the Phase. This Phase is the same for all versions of ODI.
  - com.ikanalm.phases.database.odi.restoreODIxxObjects-X.Y.Z.jar
    xx being the version of ODI and X.Y.Z being the release ID of the Phase.
- VRCR4ODI xx.zip
- Dcoumentation
  - LCM4ODI\_GettingStartedGuide\_4.2.pdf
  - VCR4ODI\_InstallationGuide\_4.0.pdf

#### Downloading the "LCM4ODI\_trial" folder from the FTP Server 4.2.

Download the following folders from our FTP Server:

#### THE IKAN ALM Demo folder

This folder contains the installation files for the IKAN ALM 5.7 Demo version: ikanalm\_demo\_x64.exe.

#### The ODI\_xx folder (xx being the version of ODI you are using (11gR1, 12cR1 or 12cR2)

This folder contains the IKAN ALM Solution Phases for ODI and the installation files for the VCR4ODI connector:

- SolutionPhases ODI xx folder
  - com.ikanalm.phases.database.odi.copyODIFiles-X.Y.Z.jar X.Y.Z being the release ID of the Phase. This Phase is the same for all versions of ODI.
  - com.ikanalm.phases.database.odi.restoreODIxxObjects-X.Y.Z.jar xx being the version of ODI and X.Y.Z being the release ID of the Phase.
  - LCM4ODI\_GettingStartedGuide.pdf
- VRCR4ODI\_xx.zip
- VCR4ODI\_InstallationGuide.pdf (full version)

#### Let's get started ... **4.3**.

### INSTALLING IKANALM

# Installing the IKAN ALM Demo Version

#### 5.1. Installing the Software

**Note:** A Java Development Kit (JDK) version 1.8 or higher is required. Java Runtime Environment (JRE) will not be sufficient!

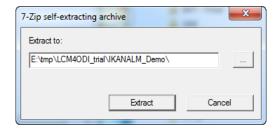
#### Step 1: Start the Installation

The IKANALM\_Demo folder you downloaded from our FTP server contains a self-extractable archive (ikanalm\_trial\_x64).

**Note:** If you downloaded the "IKAN ALM Demo folder" from our website, you can skip steps 1 and 2 and immediately execute the installer.

1. Double-click or execute this archive.

A window similar to this one will pop up:



2. Choose a destination folder.

The files will be extracted in a subfolder named "ikanalm\_trial\_x64".

After extraction, the folder will contain:

- alm\_license.lic: a Demo license (valid for 30 days) for IKAN ALM
- almdemo\_install\_5-7\_x64.exe
   The 64-bit installer image for IKAN ALM Demo
- IKAN ALM 5.7 Windows Demo Installation Guide.pdf: full installation guide for installing IKAN ALM Demo

#### 3. Execute the installer.

The graphical IKAN ALM installer will start. Refer to the section *Troubleshooting* in the full *IKAN ALM* Windows Demo Installation Guide if the IKAN ALM installer does not start.

Depending on the flavor of Windows OS used, there can be differences in the installer's behavior.

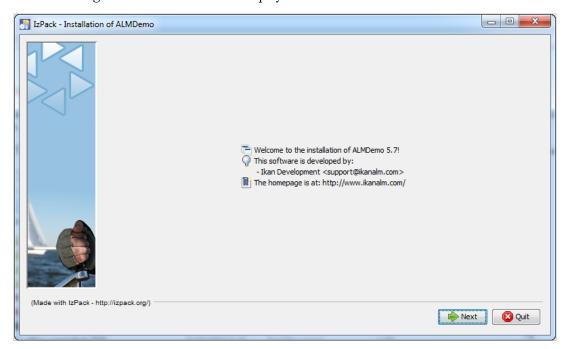
If UAC is enabled (Windows Vista and later), Windows will ask for a confirmation for the program to make changes to the computer (if your User account is an Administrator). If you are trying to install the application from an account other than Administrator, you might get the message "requested operation requires elevation."

Double-click the almdemo\_install\_5.7\_x64.exe file. The following window will pop up:

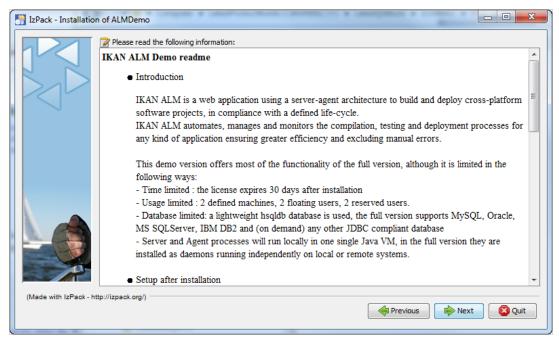


Select your preferred installation language and click *OK*.

The following welcome screen will be displayed:

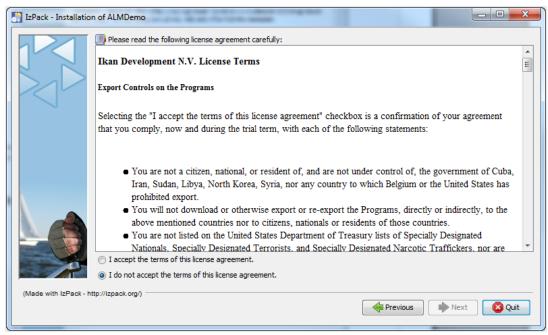


#### Click Next to continue.



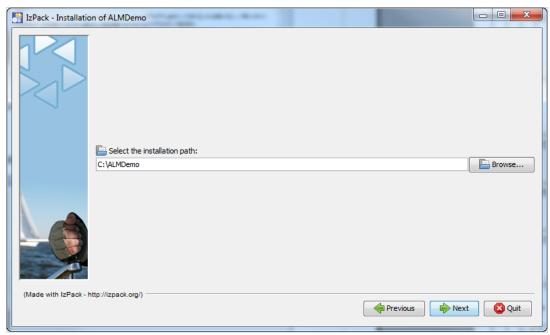
Carefully read the readme information. Click the *Next* button to continue.

#### **Step 2: License Agreement**



Read the license agreement carefully. Select the option I accept the terms of this license agreement. and click the *Next* button.

#### **Step 3: Installation Location**

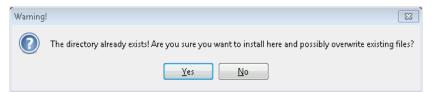


Select the home directory for installing the Demo Application on your file system. The default home directory is C:\ALMDemo. You can change this location using the *Browse* button.

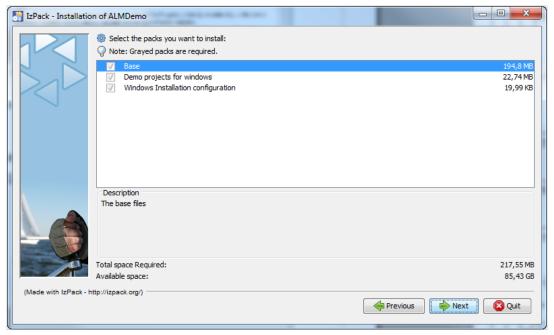
Further on in this document, this location will be referred to as ALM\_HOME.

Click *Next* to continue.

If the directory already exists, a warning message will appear.

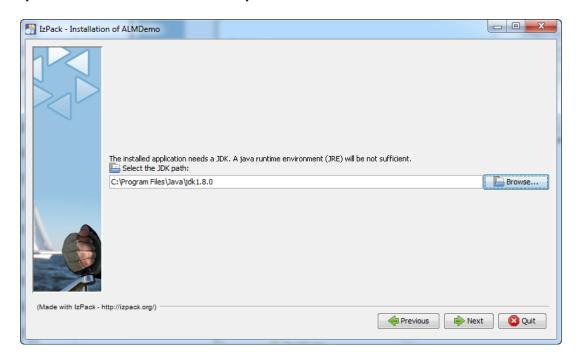


All installation packs must be installed.



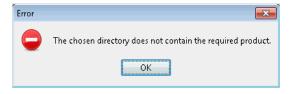
Click *Next* to proceed to the selection of a Java Development Kit (JDK).

#### Step 4: Select a Java Development Kit

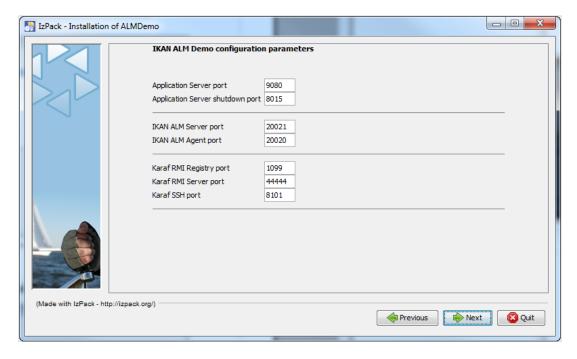


Note: A Java Development Kit (JDK) version 1.8 or higher is required. Java Runtime Environment (JRE) will not be sufficient!

If the selected directory does not contain a proper JDK, the following error message will be displayed:



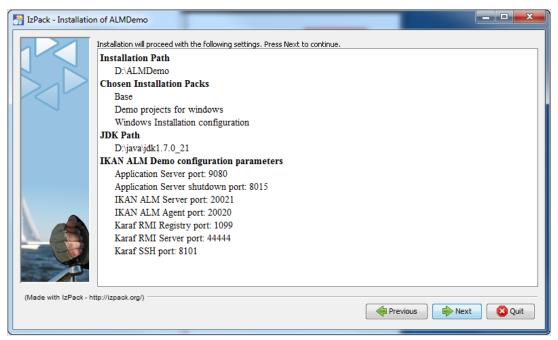
**Step 5: Configuration Settings** 



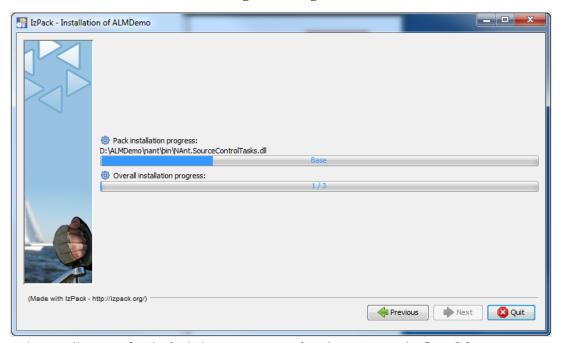
Configure the network ports used by IKAN ALM. Normally, the defaults presented should be OK, but it is important that these port numbers are not in use by other processes.

Get to a command prompt and type netstat -an to check which ports are currently in use.

In the remainder of this guide, the Application Server Port will be referred to as ALM\_APPSERVER\_PORT. Click Next to obtain an installation summary.

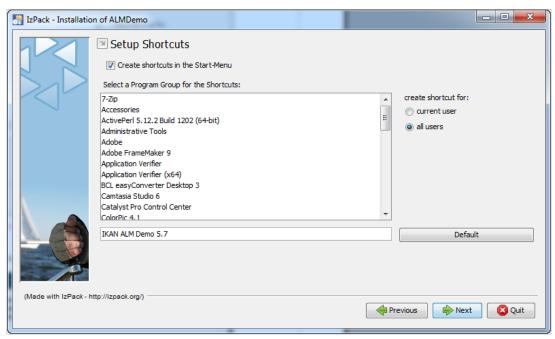


Click *Next* to start the installation with the given settings:



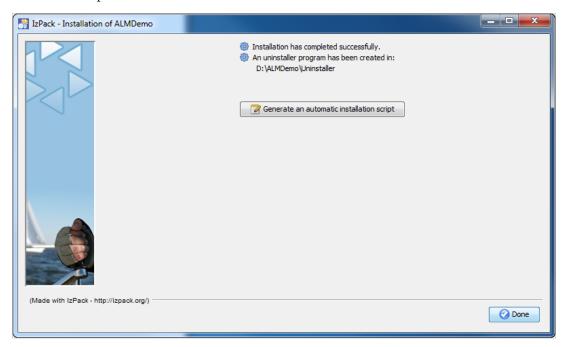
Once the installation is finished, click *Next* to proceed with setting up the Start Menu.

#### Step 6: Start Menu Shortcuts



Select the Program Group and Shortcut Name for the Start Menu. The default group and name is IKAN ALM Demo 5.7. You may change these names.

Click Next to complete the IKAN ALM Demo installation.



#### Install the IKAN ALM License 5.2.

Together with this IKAN ALM Demo Installation, you have received a license file named alm\_license.lic. This demo license will expire after 30 days (See Step 2: License Agreement on page 15.). Contact IKAN ALM support if you want to extend the license period.

#### Start the IKAN ALM Demo Server:

- Via the Start Menu: Applications > IKAN ALM Demo 5.7 > Start IKAN ALM Demo server
- Or via the batch file:

Double click the ALM HOME/startDemo.cmd file.

Open the IKAN ALM web application:

- Via the start menu: Start > Programs > IKAN ALM Demo 5.7 > Open IKAN ALM in browser
- Or via a web browser: Provide the following URL: http://MACHINE\_NAME:ALM\_APPSERVER\_PORT/alm (e.g., http://

The *Install license* screen will appear.

ikan009:9080/alm)



Enter or browse to the file location of the alm\_license.lic file you received and click Submit. Do not alter the file or filename. The following screen will appear when the license is installed:



#### 5.3. Start

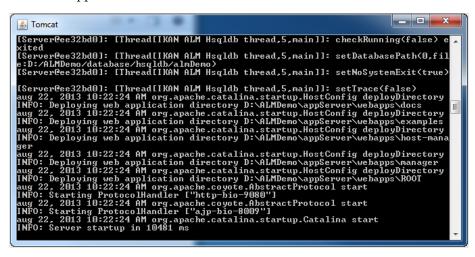
The IKAN ALM Demo Server must be running in order to work with IKAN ALM. Start the IKAN ALM Demo Server:

- Via the shortcut menu: Start > Programs > IKAN ALM Demo 5.7 > Start IKAN ALM Demo server
- Or via the batch file: Double click the ALM\_HOME/startDemo.cmd file.

This will launch a Tomcat webserver and the IKAN ALM Demo server (which runs both the IKAN ALM Server and Agent). When the IKAN ALM Demo server prompt window displays a message like: "Successfully connected with IKAN ALM server", the ALM Demo is fully started.

```
Select Start IKAN ALM Demo server
                                             ! LM BuilderDaemon | BuilderDaemon
4.0.0 | Agent Machine information
                                                 DeployerDaemon
                                             M DeployerDaemon | DeployerDaemon
.O.O | IKAN ALM DeployerDaemon sta:
```

If a message such as "INFO: Server startup in nnn ms", the Tomcat Server is completely up and running and you can use the Web application.



Note: After having terminated this Getting Started Guide, you should stop the IKAN ALM Demo Server: Via the shortcut menu: Start > Programs > IKAN ALM Demo 5.7 > Stop IKAN ALM Demo server or via the batch file: ALM\_HOME/stopDemo.cmd

#### **5.4**. Open the IKAN ALM Web Application

If you installed the shortcuts:

Start > Programs > IKAN ALM Demo 5.7 > Open IKAN ALM in browser If you did not install the Start Menu shortcuts do the following:

1. Start an internet browser

#### Provide the following URL: http://MACHINE\_NAME: ALM\_APPSERVER\_PORT/alm

Note:

MACHINE\_NAME may be replaced by the machine name or IP address, e.g., 127.0.0.1, IKAN001, ...) of the system where you installed IKAN ALM demo. ALM APPSERVER PORT as configured in section Step 5: Configuration Settings (page 17). For example, an IKAN ALM start URL could be http://ikan009:9080/alm.

An internet browser window will appear, displaying the IKAN ALM Log in screen.

#### Log on to the IKAN ALM Web Application 5.5.

You are ready to start working with the IKAN ALM web interface.



You may add this link to your internet browser's Favorites.

Log on to IKAN ALM with the following predefined User ID and password:

User ID	Password	Access Rights
global	global	Global Administration

Provide the User ID and Password, and select Log in. The IKAN ALM home page will be displayed and you can start working in IKAN ALM.

Next, we will set up the Subversion repository.

### SETTING UP SUBVERSION

### **Setting Up Subversion**

#### 6.1. Setting up the Subversion Versioning System

The IKAN ALM Demo installation includes a Subversion installation as well as an SVN repository holding source files for some IKAN ALM demo projects.

As far as the Life Cycle Management solution for ODI is concerned, these demo projects are irrelevant. You can however use that repository for this LCM4ODI\_TRIAL, provided you perform the following steps:?

1. Create a new folder that you have write access to.
For the purpose of this *Getting Started Guide*, we will call this folder *MyFolder*.?

#### 2. Create the following structure in *MyFolder*:

MyProject

MyProject/trunk

MyProject/tags

MyProject/branches

#### IMPORTANT!

In this example, MyProject is the VCR Project name. This name can be replaced by a name of your choice.

When creating the Subversion definition in IKAN ALM, you will need to specify the VCR Project name you have chosen in this step!

#### 3. Import the created MyFolder into Subversion

3.1. Open a command prompt and change the directory to MyFolder.

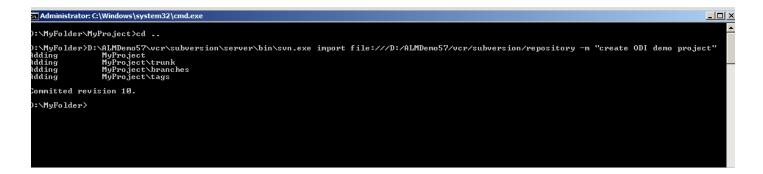
CD ...\MyFolder

#### 3.2.Execute the following command to import the folder into Subversion

<ALM\_HOME>\vcr\subversion\server\bin\svn.exe import file:///<ALM\_HOME>/
vcr/subversion/repository -m "create ODI demo project"
(in which <ALM HOME> stands for the IKAN ALM demo installation location)?

#### **IMPORTANT!**

Carefully copy the slashes exactly as mentioned above. The first part of the command is a Windows command, therefor backslashes should be used!



The Subversion repository included in the IKAN ALM Demo installation is set up as a so-called Note: "project-oriented" repository, and these actions will add a new project for the ODI application to this repository.

# INSTALLING THE VCR4ODI CONNECTOR

### **Installing VCR40DI**

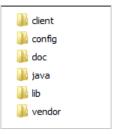
Each ODI User needing *VCR4ODI*, must install the connector in his/her local environment. The installation process consists of extracting the zip file.

To complete the installation process, you will need the following information:

- the installation zip file
- the location of the ODI\_HOME and ORACLE\_HOME directories.
- 1. Copy the VCR4ODI\_xx.zip file to the location where you want to install VCR4ODI.
- 2. Extract the zip file.

**Note:** *VCR4ODI* is shipped with a Java version so that the connector can be started immediately.

The following folders will be extracted:



Folder	Description
client	The bin folder inside this folder contains the vcr4odi.bat file, which launches the connector.
config	Contains the Log file, the configuration files (to connect ODI to the VCR) and the License file.
doc	Contains the documentation.
java	The Java installation shipped with VCR4ODI.
lib	Contains the core Java application.
vendor	Contains the external jars.

- 3. All applications depend on the setting of the *%ODI\_HOME%* variable in the setEnv.bat file. Therefore, you must first of all specify the ODI home directory.
  - 3.1.Go to the config folder and open the setEnv.bat file using a text editor.
  - 3.2. Specify the ODI and Oracle Home directories.

Note: Specifying ORACLE\_HOME is only needed if the Oracle DB that is being used for the ODI repositories requires connections via TNS. In that case, Oracle client software must be installed on the developer machine running VCR4ODI, and the ORACLE\_HOME variable must point to this installation. If the method for connecting to the ODI repository is the standard JDBC user/pwd method, the Oracle client software is not required and the ORACLE\_HOME variable can be left

```
16 REM # VARIABLES DESCRIPTION
17 REM #
18 REM # The following variables can be changed to tune VRC40DI configuration.
19 REM #
20 REM # VCR4ODI_HOME
21 REM #
          Installation directory of VRC40DI software
22 REM # VCR4ODI INIT HEAP
23 REM #
            Initial java machine heap size used by VRC40DI.
24 REM # VCR4ODI MAX HEAP
25 REM #
            Maximum jaya machine heap size used by VRC40DI.
26 REM # VCR4ODI_JAVA_HOME
27 REM #
            Installation directory of the java virtual machine. Java 1.7 and above is necessary
28 REM # ODI_HOME
29 REM #
             Installation directory of ODI software
30 REM #
32 REM #
33 REM # VARIABLES
34 REM #
                                       Specify the ODI and Oracle Home Directories
36 set ODI_HOME="C:/oracle/product/ODI_11117"
37 set ORACLE_HOME="C:/oracle/product/11.1.0/db_1"
   set JPS_CONFIG="%ODI HOME%/oracledi/client/odi/bin/jps-config.xml"
39
40
```

- 4. Save and close the file.
- 5. Go to the client/bin folder and execute the vcr4odi.bat file to start VCR4ODI. The VCR4ODI startup window will be displayed.

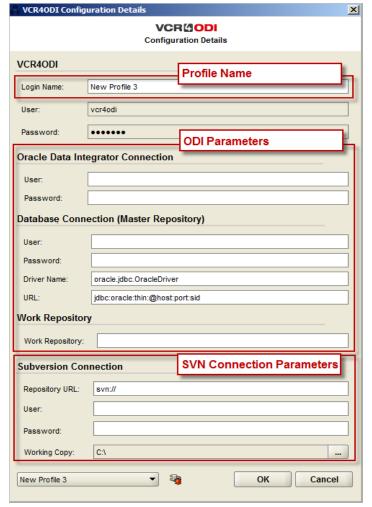


#### 6. Start the VCR4ODI Connector

- If this is the first time you use the VCR4ODI connector, you first need to define a Profile. In that case, continue to the section Creating a VCR4ODI Profile (page 30).
- If a Profile has already been defined, select it from the drop-down list and click the *Start* button. In that case continue to the section **Starting VCR4ODI** (page 34).

### Creating a VCR4ODI Profile

1. On the VCR4ODI startup window, click the (Add New Profile) button. The following screen is displayed:



The screen is divided into three panels:

- the VCR4ODI profile parameters
- the ODI parameters: all parameter necessary to connect to the master and to the repository,
- the Subversion connection information
- 2. Provide a name for the new Profile.

#### 3. Update the "ODI Parameters" panel as required.

#### Oracle Data Integrator Connection

Field	Meaning
User	The name of the ODI User.
Password	The password of the ODI User.

#### Database Connection (Master Repository)

Field	Meaning
User	The Schema name of the Master Repository.
Password	The Schema password of the Master Repository.
Driver Name	The class name of the jdbc driver used to connect to the ODI repository.
URL	The URL path of the Master Repository.

#### Work Repository

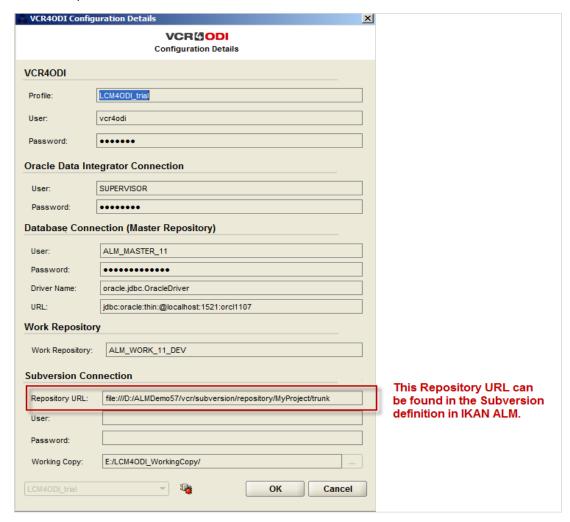
Field	Meaning
Work Repository	The name of the ODI Work Repository you want to connect to.

All passwords will be encoded using the ODI encode.bat file that you can find under Note: %ODI\_HOME%/oracledi/agent/bin.

#### 4. Update the "SVN Connection parameters" panel as required.

Field	Meaning
Repository URL	The URL path of the Subversion Repository. This path is composed as follows: file:/// <alm_home>/vcr/subversion/repository/ <myproject>/trunk In which <alm_home> stands for the IKAN ALM demo installation location) and <myproject> for the VCR Project name you created earlier (Setting Up Subversion (page 24))? The path to the repository can also be found in the Version Control Repository definition in the Global Administration section in IKAN ALM (Subversion Definition (page 36)).</myproject></alm_home></myproject></alm_home>
User ID	As we are using the Subversion file protocol to establish the connection, a User ID is not required.
Password	As we are using the Subversion file protocol to establish the connection, a Password is not required.
Working Copy	The path to a local working copy.  This folder will be the starting point for checking out objects from the repository and for managing the comparison between ODI and Subversion.  Important: each user should have his/her own local working repository.

The completed form will look similar to the one below.



#### Test the connection.

You can test whether the connection is working by clicking the



If the test succeeds, the following message will be displayed:



If the test failed, an error message similar to the one below will be displayed.

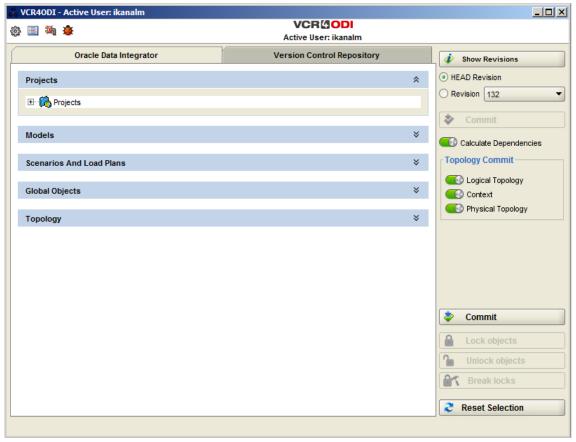


You can click the *More Details* button for more information concerning the connection problems.

- 7. If all properties are set correctly, click the OK button to return to the startup window. The new profile will be automatically selected.
- 8. Click the Start button to start using the VCR4ODI connector.

## **Starting VCR40DI**

After having clicked the Start button, the following screen is displayed.



This screen contains two tab pages:

- The Oracle Data Integrator page
   This tab page is used to commit modified ODI objects from a selected ODI Repository into Subversion.
- The Version Control Repository page
   This page is used to restore objects from Subversion into the selected ODI Repository.

   Next, we will start using IKAN ALM and create a first project.

# USING THE LCM40DI SOLUTION

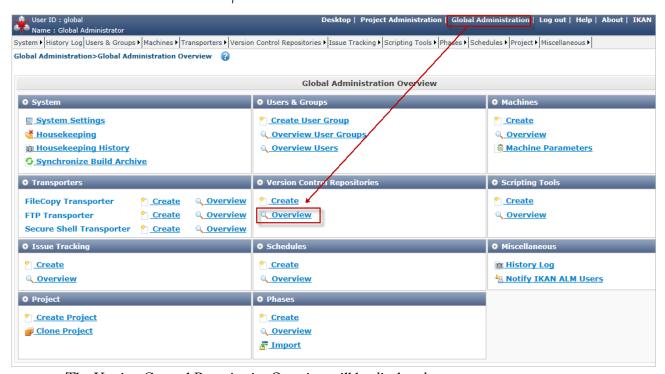
## **Creating a Project**

#### First, we will:

- verify the definition of the Subversion repository
- and, next, create our first project.

### 10.1. Subversion Definition

- 1. Go to the Global Administration section.
- 2. Select Version Control Repositories > Overview



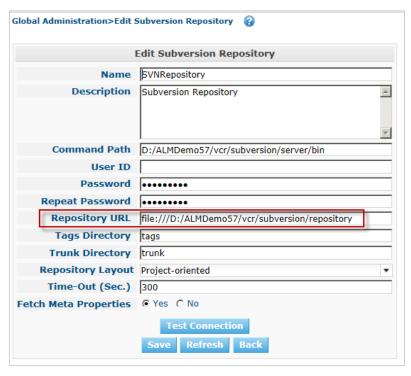
The Version Control Repositories Overview will be displayed.

3. Click the **Edit** icon in front of the SVNRepository.



The *Edit Subversion Repository* window will be displayed.

On this screen, you will find the URL to the Repository containing your VCR Project (in our example: MyProject).

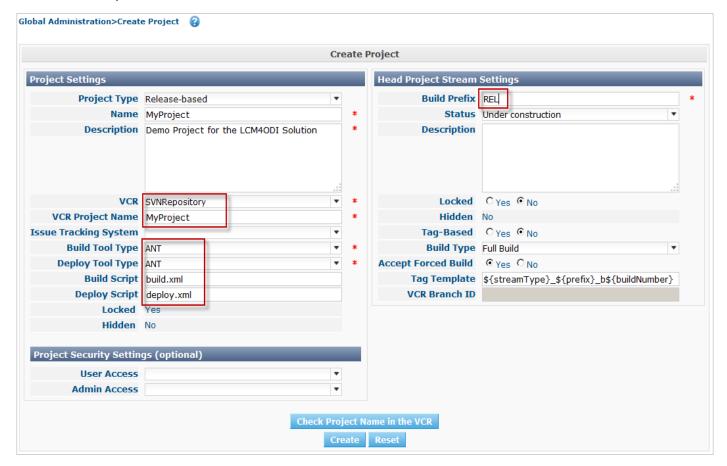


This Repository URL is the same as the one used in the VRC4ODI Profile. Note:

## 10.2. Create your First Project

Now we can start with the actual creation of our Project.

1. In the Global Administration section, select Project > Create Project and fill out the fields as required.



- 1.1. Specify the Subversion repository containing your project and its project name in the VCR. Important: The name of the project in the SVN repository is case-sensitive!
- 1.2. Choose ANT for the Build and Deploy Tool Type. Together with the Project, a Head Project Stream is automatically created that points to the trunk in you project in Subversion.
- 1.3. Provide a Build Prefix.
- 2. Click the Create button to create the project.

Note: Before creating the Project, you can use the Check Project Name in the VCR button to check whether the Project Name exists in the VCR. Do not forget to click the Create button afterwards.

## The BASE Life Cycle

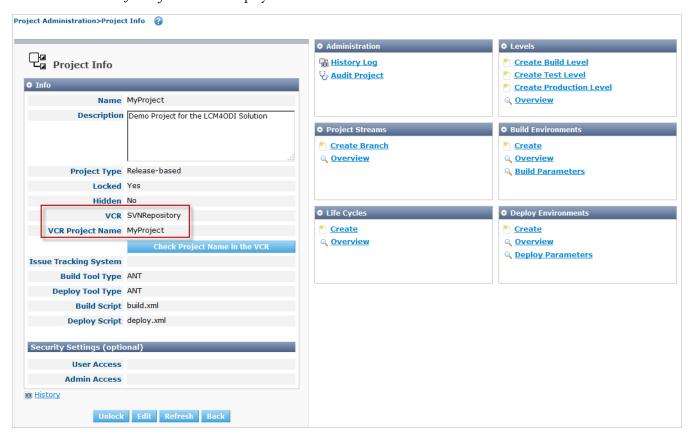
At the moment you created the project, the BASE Life Cycle, which is linked to the Subversion trunk, has been created automatically. This Life Cycle will be used for ongoing development.

**Note:** In IKAN ALM, a Life Cycle represents the path/stages that software developments go through before reaching the production stage. A typical Life Cycle is DEV-TEST-UAT-PROD, but IKAN ALM also supports other Life Cycles, e.g., HOTFIX-PROD.

1. On the Main Menu, select *Project Administration*. The *Projects Overview* screen is displayed.

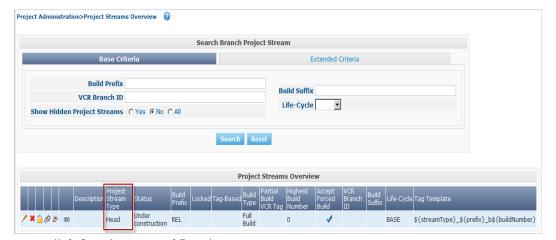


2. Click the Z Edit icon in front of the name of your project (in our example MyProject). The Project Info screen is displayed.



3. On the submenu, select *Project Stream > Overview*.

The *Project Streams Overview* screen is displayed. You will notice that when you created the Project, a Project Stream linked to the Subversion trunk has been created automatically.



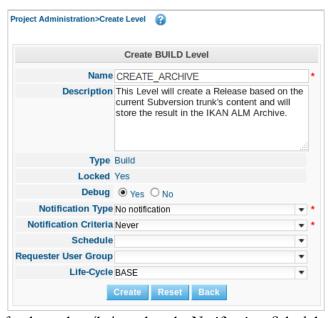
Next, we will define the required Levels.

## Setting up the Build and Deploy Levels

- 1. On the submenu, select Life-Cycles > Overview.
- 2. On the Life-Cycle: BASE panel, click the Create Build Level.

The Create BUILD Level screen is displayed.

Fill out the fields as required and click the Create button.



Most fields speak for themselves (let's neglect the Notification, Schedule and Requester fields for now).

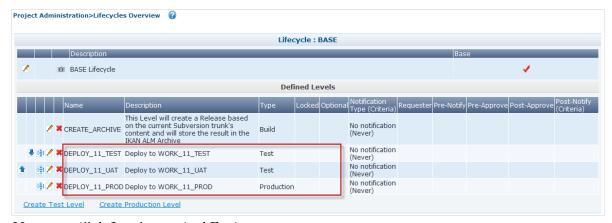
**Note:** Activating the *Debug* option makes it easier to track stuff in the beginning, especially when a Build fails. Once everything runs smoothly, set it to *No*.

The BUILD Level is used for creating the Development Archive.

3. Repeat the previous action to create the Test Levels (Test and Acceptance) using the *Create Test Level* link and the Production Level using the *Create Production Level* link.

TEST, ACCEPTANCE and PRODUCTION Levels are used to restore the Deploy to the respective Test, Acceptance and Production ODI Repositories.

### The result will look similar to the following overview:



Next, we will define the required Environments.

## Creating the Build and Deploy Environments

A Level is a conceptual step in the Lifecycle. As we need a concrete Machine to execute our Build and Deploys on, we need to link a Build and Deploy Environment(s) to the Level.

The sources we want to Build will be transferred from the Version Control Repository to a subdirectory of the Source Location. The results will be placed in the Target Location. Note that, normally, those locations will be cleaned up after the Build, unless you activate the *Debug* option, which we do for the same reason as explained in the section about setting up the Build and Deploy Levels.

The following steps need to be repeated for every Level and for both Environments.

Note: For this LCM4ODI\_trial, we only use the machine on which you installed IKAN ALM!

1. On the submenu, select *Build Environments > Create* and fill out the fields as required.



Note:

The source and target location are preferably located in the ALM\_DATA folder. You are free to specify the Source and Targets. We recommend to store them in a separate ALM\_DATA folder to prevent those folders from being deleted during an eventual deinstallation. The structure entered in the Source and Target Location fields will be created automatically.

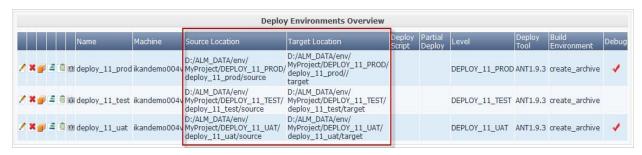
In our example we use D:/ALM\_DATA/env/MyProject/BUILD/build/source.

D:/ALM\_DATA is the ALM\_DATA directory, followed by the env directory containing our project, MyProject (the project directory), BUILD (the level), build (the environment) and finally the source or target directory.

In order to distinguish Levels from Environments, we use uppercase for the level and lowercase for the environment directories.

2. Repeat the same process for the Deploy Environment selecting Deploy Environments > Create on the submenu.

As the Source and Target locations differ for the three Levels, you need to create three environments. The result will look similar to the following overview:



## Using Phases to define the Build and Deploy processes

Next, we need to define our Build (Create Archives) and Deploy (Restore) processes. The Build and Deploy processes are unique to every Solution you want to implement.

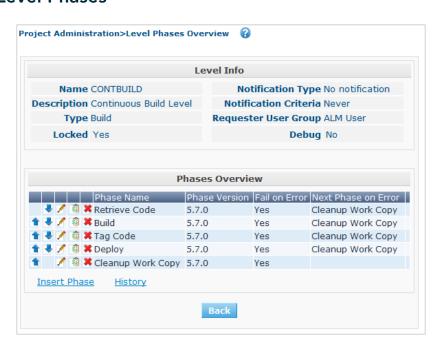
The behavior of the Build and Deploy processes is defined in the IKAN ALM Phases.

### 14.1. Core IKAN ALM Phases

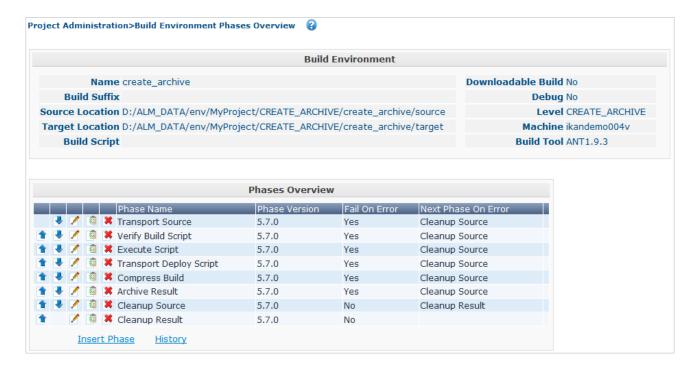
Below you will find an overview of the default Phases generated by IKAN ALM at the moment you create your Levels and Build and Deploy environments.

To display them, select the *Edit Phases* link in front of the required Level, Build or Deploy Environment on the respective Overviews (In the *Project Administration* section, select *Levels > Overview*, *Build Environments > Overview* or *Deploy Environments > Overview*).

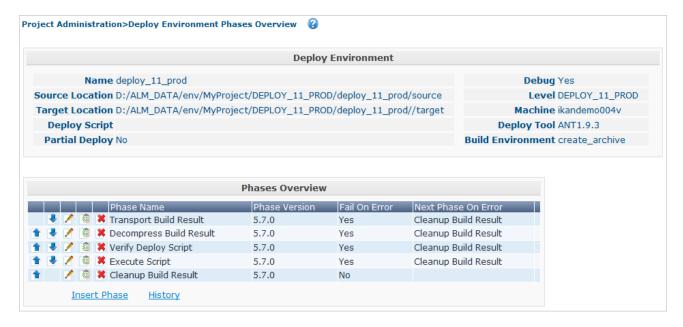
#### **Default Level Phases**



#### **Default Build Environment Phases**



## **Default Deploy Environment Phases**



## 14.2. Specific Solution Phases

IKAN ALM provides specific Solution Phases for ODI, OWB and Mainframe.

In the next section, we will guide you through the installation of the Solution Phases for ODI, explaining how to import and configure them, and how to adjust the parameters.

## **ODI Solution Phases**

The IKAN ALM ODI Solution uses two Solution Phases.

Solution Phase	Usage
Copy ODI Files	This phase is used to collect the objects from Subversion, which will be part of your ODI Release.
Restore Oracle DI Objects	This phase restores/imports Oracle DI Objects to a specified Work Repository.

## 15.1. Copying the ODI Solution Phases

Before you can install and use the Phases in IKAN ALM, you need to copy the *SolutionPhases\_ODI\_xx* folder to the right location.

1. Create an new folder, called ALM\_DATA, at the same level as your IKANALM\_HOME folder.

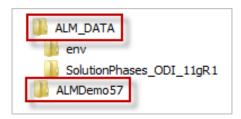
Note:

When installing the IKAN ALM Demo version, by default, the IKANALM\_HOME directory is set to *ALMDemo*.

We recommend creating a separate folder for your ALM data at the same level as the IKANALM\_HOME directory. This will prevent those data from being deleted during an eventual deinstallation. This ALM\_DATA folder will be used to store the build and deploy information (in the *env* folder) and all data related to the Phases.

- 2. In the ALM\_DATA folder, create the subfolder *env*. This folder will contain all Build and Deploy information.
- 3. Copy the SolutionPhases\_ODI\_xx subfolder from your temporary location to the ALM\_DATA folder.

Your directory structure should now look as follows:



The procedure for implementing the Phases consist of the following steps:

- 1. Importing the ODI Solution Phases in IKAN ALM (page 48)
- 2. Specifying the Initialization Values for the Parameters (Global Administration) (page 51)
- 3. Adding the "Copy ODI Files" Phase to the Build Environment (page 54)
- 4. Adding the "Restore Oracle DI Objects" Phase to the Deploy Environments (page 56)
- 5. Modifying the Phase Parameters in the Deploy Environments (page 56)

## Importing the ODI Solution Phases in IKAN ALM

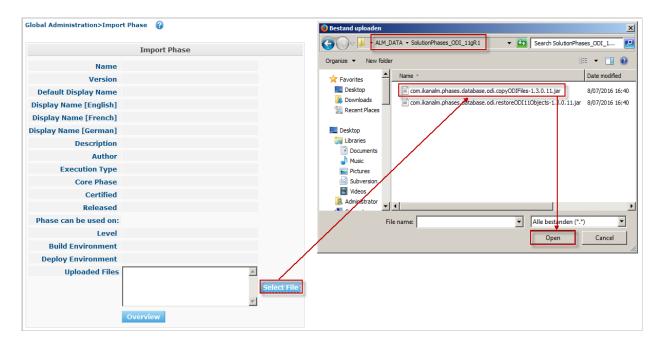
First of all, you need to import the Solution Phases in IKAN ALM.

In this example, we will import the following Phases (X.Y.Z being the release ID of the Phase):

Solution Phase	Corresponding JAR File
Copy ODI Files	com.ikanalm.phases.database.odi.copyODIFiles-X.Y.Z
Restore Oracle DI Objects	Import the Solution Phases corresponding to the version of ODI you are using: For ODI 11gR1: com.ikanalm.phases.database.odi.restoreODI11Objects-X.Y.Z For ODI 12cR1: com.ikanalm.phases.database.odi.restoreODI12R1Objects-X.Y.Z For ODI 12cR2: com.ikanalm.phases.database.odi.restoreODI12R2Objects-X.Y.Z

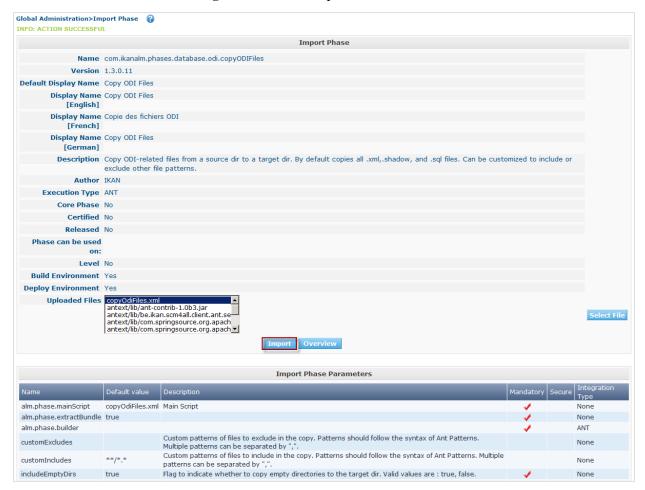
2. On the Import Phase panel, click the Select File button. Select the JAR file associated with the Copy ODI Files phase and click Open.

**Note:** In our example, the ODI Solution Phases are located in ALM\_DATA/ SolutionPhases\_ODI\_XX.



3. On the *Import Phase* panel, click the *Import* button.

As a result, the *Import Phase* screen will display the information concerning the Phase, the files it contains (PHASE\_NAME.xml being the main Ant script) and the Phase Parameters.



4. Repeat this procedure for the Restore Oracle DI Objects phase. The *Phases Overview* displays the imported Phases.



#### 5. Next, you need to adapt the default parameter values.

#### Note:

Parameters can be defined on Phase, Environment or Machine level. The Phase parameter takes precedence over the Environment Parameter which takes precedence over the Machine parameter.

There is no general rule to determine on which level you want to define the parameters. It depends on your company standards, on how unique the parameter is (whether it is only used in one single phase or in multiple phases), whether the value of the parameter is the same for all Levels and Environments on a Machine (in which case it might be interesting to define the parameter on Machine level) or whether it is different for each Environment (in which case it would probably be best to define it on Environment level), etc.

For a more detailed explanation on the definition of parameters, please refer to the chapter Phases in the IKAN ALM User Guide or contact IKAN ALM Support if you need advice on a particular situation.

As this Getting Started Guide is using a very basic example, we will keep the definition of the parameters as simple as possible. Only for a few parameters we will need to specify a different value for each of the Environments.

## Specifying the Initialization Values for the Parameters (Global Administration)

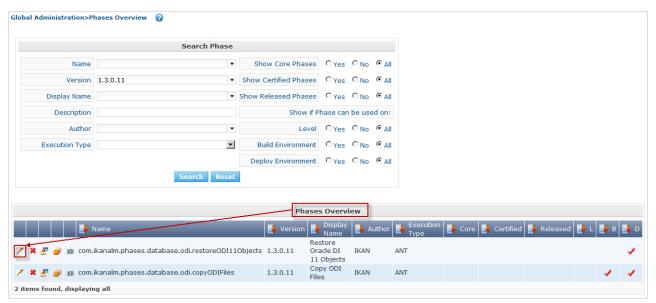
For the ODI Solution to work for you, you need to verify and, if required, modify the initialization values of the Phase Parameters for each Phase. This is done in the Global Administration section of IKAN ALM.

The following table lists the parameters of the Deploy (Restore) Phase which you will need to modify in the Global Administration section.

Parameter	Phase	Description	Mandatory/ Optional
odi.home	Restore Oracle DI Objects	ODI_HOME Location	Mandatory
odi.user.name	Restore Oracle DI Objects	ODI User Name	Mandatory
odi.user.passwd	Restore Oracle DI Objects	ODI User Password	Mandatory
oracle.home	Restore Oracle DI Objects	ORACLE_HOME Location. Required when rdbms.master.tns.connect.de scriptor has been set	Mandatory
rdbms.master.passwd	Restore Oracle DI Objects	Password of the ODI Master Repository Database Connection	Mandatory
rdbms.master.sid	Restore Oracle DI Objects	SID of the ODI Master Repository Database Connection	Mandatory
rdbms.master.username	Restore Oracle DI Objects	User Name of the ODI Master Repository Database Connection	Mandatory

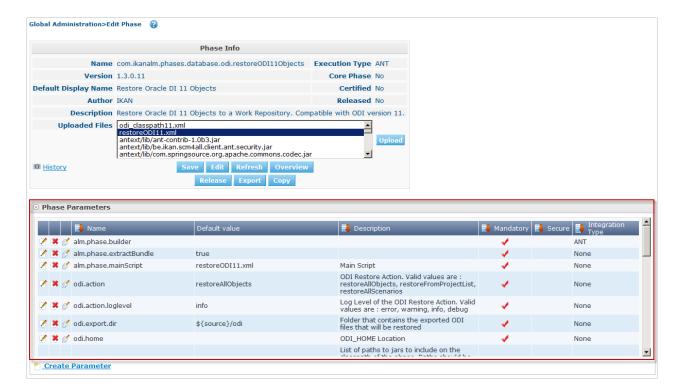
As you can see, the parameters are set to mandatory by default. In this context, *mandatory* means that the parameters will be automatically created when adding the Phase to a Level or Build/Deploy Environment.

- Go to Global Administration > Phases > Overview.
- 2. On the Phases Overview panel, click the Z Edit icon in front of the Restore Oracle DI Objects phase you imported.

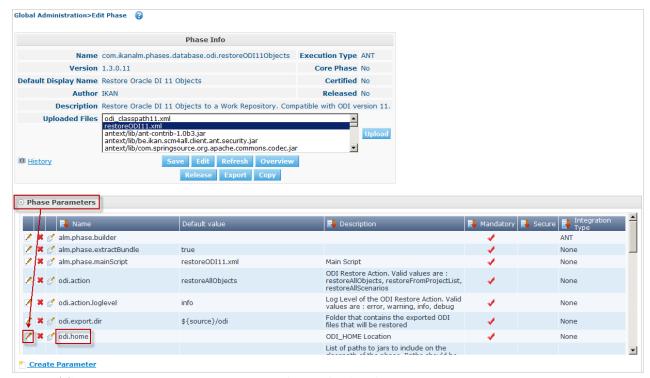


The Edit Phase screen will be displayed. Underneath the Phase Info panel, you will find the list of all defined Phase Parameters.

Note: You can sort this list alphabetically by clicking the Name column heading.



3. Click the Z Edit icon in front of the odi.home parameter.



The *Edit Phase Parameter* pop-up window is displayed.

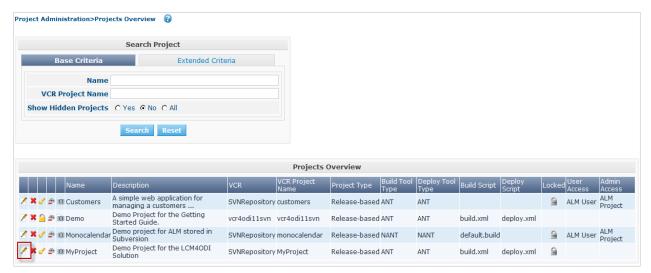
- Specify the value in the Default Value field and click Save.
- Repeat this procedure for each of the global mandatory parameters that need to be adapted.

Parameter	Description
oracle.home	Oracle Home Directory  Note: this is only required if you are using a TNS connection, in which case you should also set the rdbms.master.tns.connect.descriptor parameter.
odi.user.name	ODI User Name
odi.user.passwd	ODI User Password
rdbms.master.passwd	Password of the ODI Master Repository Database Connection
rdbms.master.sid	SID of the ODI Master Repository Database Connection
rdbms.master.username	User Name of the ODI Master Repository Database Connection
restore.odi.dependencies	It is recommended to set the default value of this parameter to true.

As mentioned before, if you do not use the Oracle defaults for rdbms.master.host and rdbms. Note: master.port (see Other Oracle Initialization Values (page 9)), you will have to modify those parameters as well (set them to mandatory and specify your value).

## Adding the "Copy ODI Files" Phase to the Build Environment

1. Go to Project Administration > Projects Overview and click the 🗹 Edit icon in front of your Project.



2. On the submenu, select Build Environments > Overview and click the 📑 Edit Phases icon in front of your Build Environment.

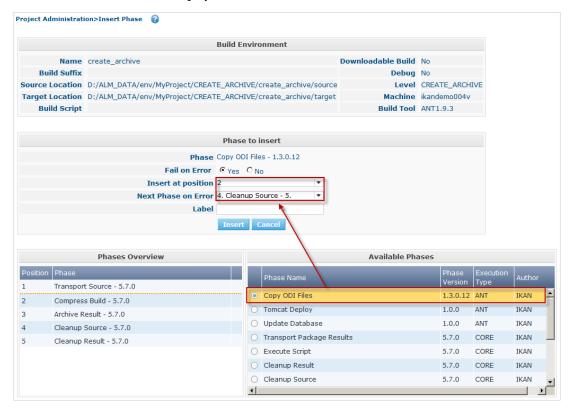
The Build Environment Phases Overview screen is displayed. It lists the default IKAN ALM Phases. Some of those phases need to be removed and replaced with the specific ODI Solution Phases.



Delete the Verify Build Script, the Execute Script and the Transport Deploy Script using the 🝊 Delete icon.

Next, we will insert the appropriate ODI Solution Phases.

4. Click the Insert Phase link underneath the Phases Overview. The *Insert Phase* screen is displayed.



- 4.1.On the Available Phases panel, select the Copy ODI Files phase.
- 4.2. Specify its position in the *Insert at position* field, by selecting 2 from the drop-down menu. While going trough the drop-down menu, the position will be indicated with a dotted line on the Phases Overview panel at the left.

- 4.3. Select the Next Phase on Error, which will be the Cleanup Source phase.
- 4.4. Finally, click Insert.

The Phase will be added to the *Phases Overview*.



- Before continuing, check the order of the Phases. If needed, you can modify the order using the Up and Down arrows.
- 6. Next, we will use the same procedure to add the required phases to the Deploy Environments.

## Adding the "Restore Oracle DI Objects" Phase to the Deploy Environments

- 1. Select Deploy Environments > Overview and click the Edit Phases icon in front of your Deploy Environment.
- Delete the Verify Deploy Script and the Execute Script phases.
- Insert the Restore Oracle DI Objects phase after the Decompress Build Result phase.
- 4. Select the Next Phase on Error, which will be the Cleanup Build Result phase.
- Repeat the previous steps for each of your Deploy Environments (in our example: Test, Acceptance and Production).

## Modifying the Phase Parameters in the Deploy Environments

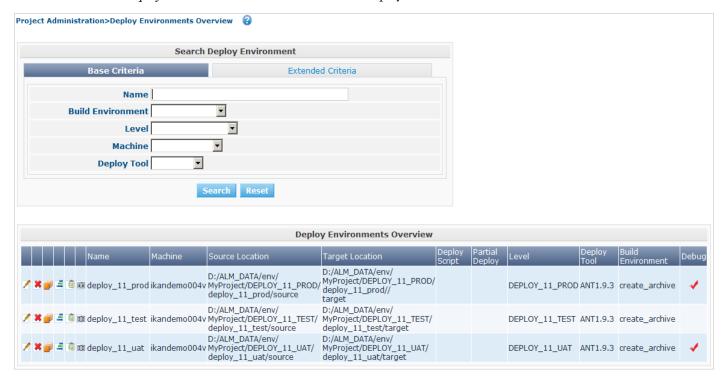
At the beginning of this section, we have modified the default values for all mandatory parameters.

Before we can really use our Phases, we still need to make a few modifications to some parameters which have different values for the Deploy Environments. For example: the odi.workRepository.name parameter specifies the location of the ODI Work Repository, which is different for each Deploy environment.

These changes are made in the Project Administration section of IKAN ALM.

Environment	Parameter	Explanation	Mandatory/ Optional
Deploy	odi.workRepository.name	ODI Work Repository	Mandatory
Deploy	odi.action	Repository actions. Use the following values: For the TEST environment: restoreAllObjects For the ACCEPTANCE and PRODUCTION environments: restoreAllScenarios	Mandatory

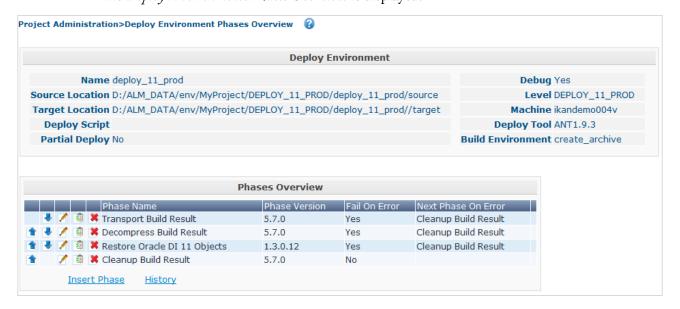
- 1. Go to Project Administration > Projects Overview and click the 🗹 Edit icon in front of your Project.
- 2. On the submenu, select Deploy Environments > Overview. The Deploy Environments Overview screen is displayed.



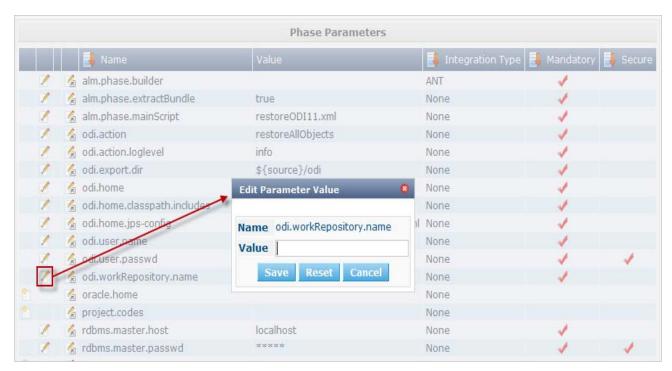
3. Modify the odi.workRepository.name parameter.

As the odi.workRepository.name parameter is Mandatory, the parameter has already been created in our Deploy Environments.

Therefore, we only need to specify the appropriate value for the selected Deploy Environment.



- 3.2.Click the 💆 View Parameters icon in front of the Restore Oracle DI Objects phase.
- 3.3.Click the Z Edit icon in front of the odi.workRepository.name parameter.
- 3.4.Enter the correct value and click Save.



3.5.Return to *Deploy Environments > Overview* and do the same for the other Deploy Environments.

4. The last parameter to modify is the *odi.action* parameter which specifies the repository action to be executed.

The default value (restoreAllObjects) is correct for the TEST environment, so we only need to modify the value for the ACCEPTANCE and PRODUCTION environment.

Follow the procedure described in the previous step and set the value to restoreAllScenarios for ACCEPTANCE and PRODUCTION.

5. All parameters have now been set.

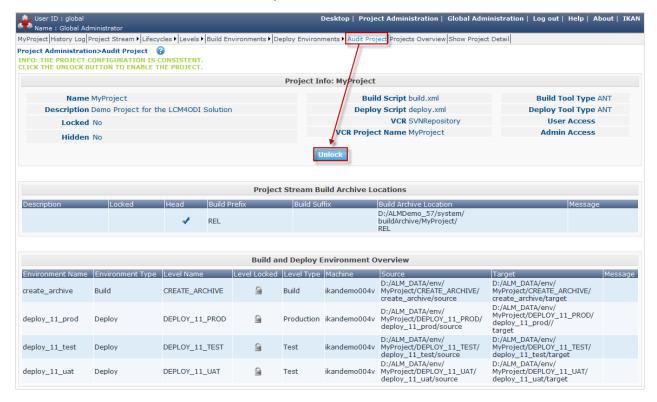
## **Auditing the Project**

Everything is ready to start a Build, except that the Level was locked when we created it: first we need to verify if our definitions are consistent. Do so by selecting *Audit Project* on the submenu.

On the overview, you will see most of the different objects we created.

The information screen for the *MyProject* Project displays the Build Archive of the Head Project Stream (where our future Builds will be stored) and the Build Level containing one Build Environment on the IKAN ALM Agent.

Click the *Unlock* button, and we are ready to build!



## Committing a Change Using VCR4ODI

Before we execute a Build in IKAN ALM, we have to make sure that changes we made in ODI have been committed to the Subversion repository.

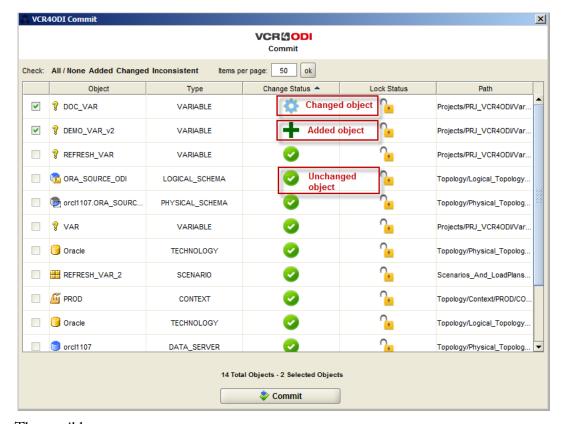
Here is where VCR4ODI comes into the picture.

The VCR4ODI connector enables the interaction between ODI Studio (the ODI Repositories) and the Version Control Repository (Subversion). It is used to commit ODI objects to the VCR and, vice versa, to restore objects from the VCR into ODI.

- 1. Start the VCR4ODI connector using your User Profile and select the Oracle Data Integrator tab to display the objects in the ODI Repository.
- 2. Select the object(s) you want to commit.
- 3. Click the Commit button.

The operation of controlling the status and locking the objects starts. This may take a while depending on the number of selected objects and their dependencies.

The list of all the selected objects, and the dependencies that were calculated by the commit check-in operation, will be displayed in a new window. For each of the objects, the status and the locks are indicated.



### The possible statuses are:

Status	Description
<b>②</b>	The object has not been changed.
40	The object has been changed by the current user.
	The object has been changed by another user.  Note: If objects have been modified by another user, you will not be able to commit.
+	The object is new.
4.5	The object is inconsistent.
<u>.</u>	The object is not locked.

Status	Description
<del>•</del>	The object is locked by the current user.
<b>₽</b>	The object is locked by another user.  Note: If the object has been modified by that other user, you will not be able to commit.

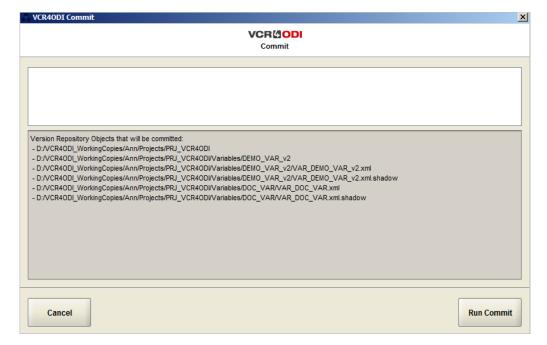
If required, you can still refine the selection of objects that will be committed using the selection options above the displayed list.

Several additional selection options are available:

Note: You can	use the left/right navigation arrows to go to the next/previous page.
Inconsistent	Clicking the <i>Inconsistent</i> option will select/deselect the inconsistent objects.
Changed	Clicking the Changed option will select/deselect the modified objects.
Added	Clicking the Added option will select/deselect the new objects.
All/None	Clicking the All/None option will select/deselect all objects.

- Confirm the selection by clicking the Commit button.
- 6. The list of all objects that will be committed is displayed. Next, you have to enter a comment. This comment will be stored in Subversion.

Note: if you use IKAN ALM to build your application, combined with a Jira or HP Quality Center Issue Tracking System, you could enter the issue number(s) in this field. IKAN ALM will automatically update Jira/HP Quality Center and create a direct link to the issue in the IKAN ALM interface.



- 7. Click the Run Commit button to finalize the commit procedure. You can also click Cancel to stop the commit operation and return to the Oracle Data Integrator tab.
- 8. If the commit procedure executes correctly, the following message will be displayed:



Click the *Close* button to return to the *Oracle Data Integrator* tab.

9. Your changes have been committed to the Repository and, next, IKAN ALM will be able to restore the committed ODI objects and use them for the Build and Deploy processes.

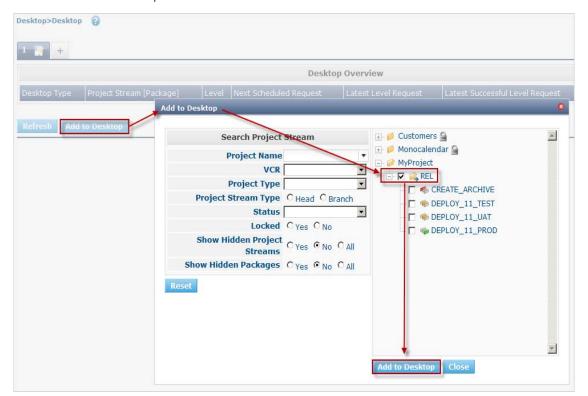
## **Creating the Build Level Request**

What have we done so far?

- We have defined a Subversion repository in IKAN ALM
- Next, we have created an IKAN ALM Project and defined the necessary Lifecycles, Levels and Environments.
- After that, we have imported and configured our Solution Phases.
- Finally, we have committed our development changes to the Subversion repository.

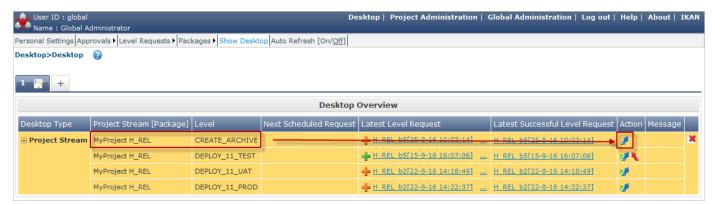
The next step will be to create a Build Level Request using the Sources in the Subversion repository.

- 1. First, we will add the Head Project Stream of the *MyProject* Project to our Desktop. Go to your Desktop and click the *Add to Desktop* button at the bottom of the screen.
- 2. In the pop-up window, find the Head Project Stream (REL) of the *MyProject* project, select it and click *Add to Desktop*.

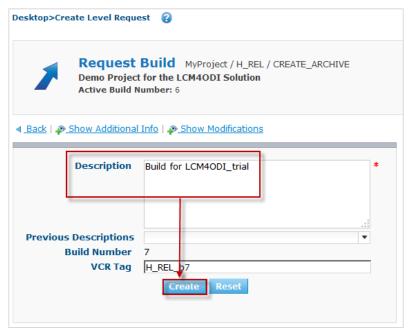


The Project stream will be added to your Desktop. Click the *Close* button to close the pop-up window.

3. Click the *Action* Request icon in the Action column of our Project Stream.



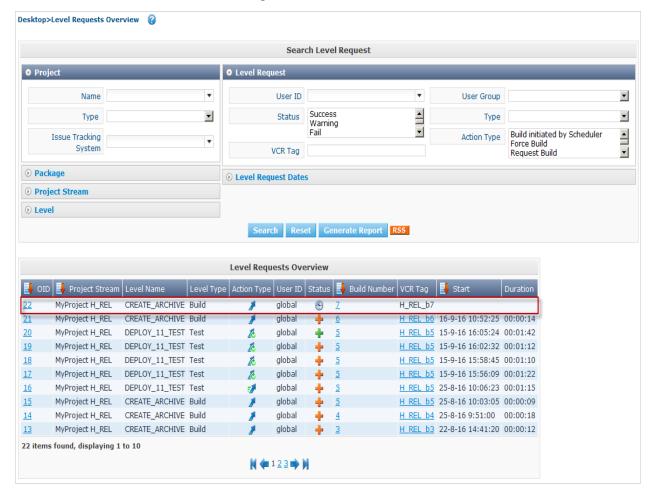
The *Create Level Request* screen will be displayed.



Provide a meaningful description, do not modify the Indicative VCR Tag which will be created in Subversion when the Build is successful.

#### 4. Click the Create button.

You are forwarded to the *Level Requests Overview* screen.

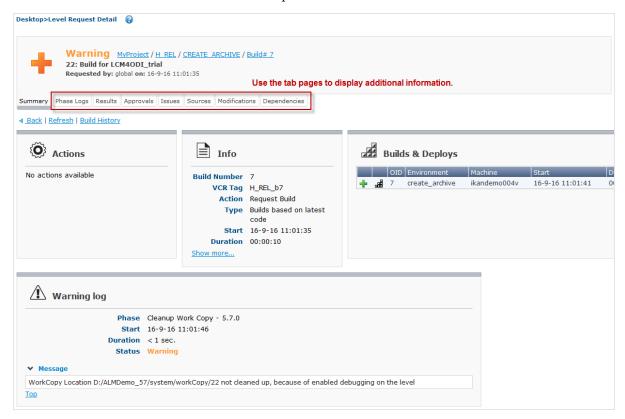


Click the OID number in front of the Project Stream (22 in this example).

You are forwarded to the *Level Requests Detail* screen.

The header of the Level Request Detail screen displays information on the status of the Level Request. The different tab pages underneath the header display additional information such as the status of each of the Phases (on the *Phase Logs* tab).

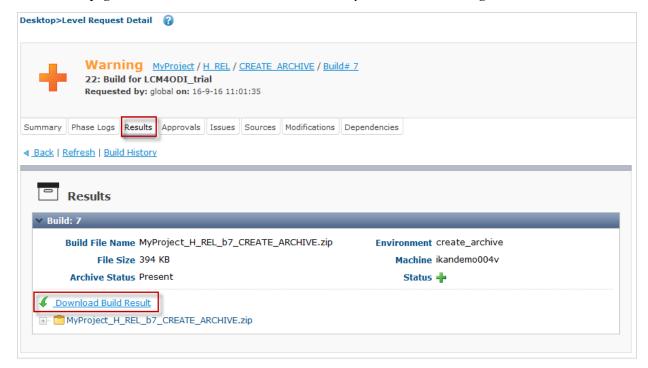
This is how it should look when the Request is finished:



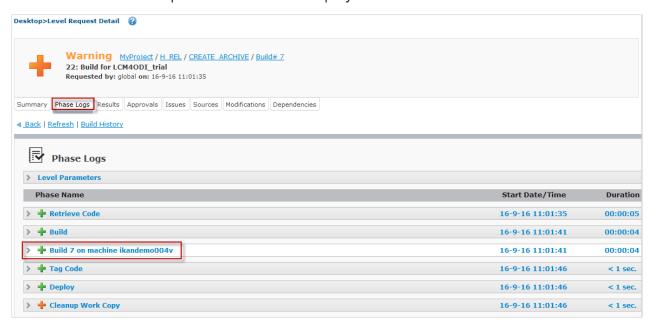
Note: The Deploy ended in warning. That is due to the fact that the Debug option is still set for the

6. Select the Results tab page.

This page shows the result of the Build executed by the IKAN ALM Agent on the Build Environment.



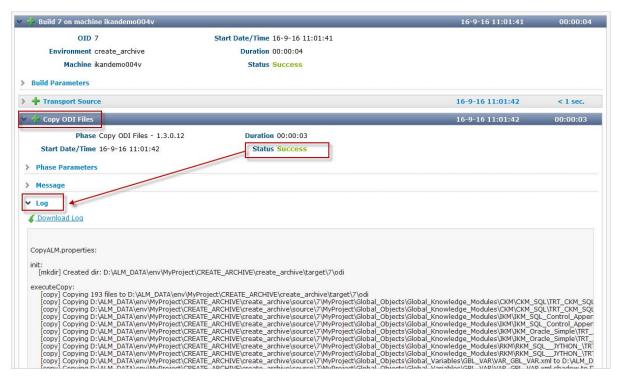
- 7. Click the Download Build Result link to download and check the Build Result.
- 8. Select the Phase Logs tab page. The gray lines on the overview represent the different Phases, the white lines represent the Build or Deploy actions.



Click the Build name (in our example: Build 7 on machine ikandemo004v) to expand the information panel displaying the Phase details.



10. Next, you can click one of the Phases to immediately jump to its *Phase Log*. The Copy ODI Files Phase Log shows the result of the copyODIFiles.xml script executed by the Ant scripting tool.



11. The Build has been successful. The next step will be to deliver the Build to the TEST environment.

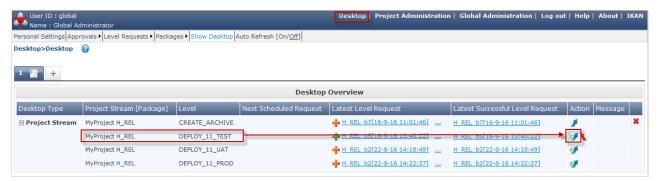
## Creating the Deliver Level Request(s)

Now, let's deliver the build result to the TEST environment.

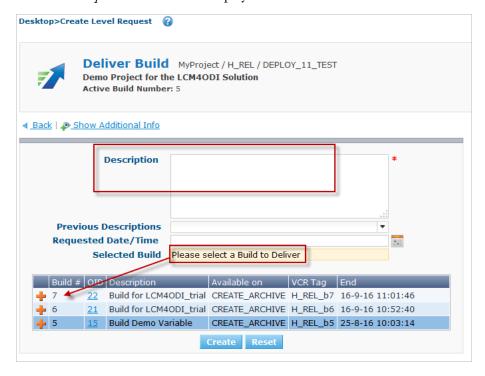
Just like when we created the Build Level Request, we create the Deploy Level Request via the Desktop.

**Note:** Afterwards, using the same procedure, you can create the Level Requests to deliver the results to the ACCEPTANCE and, finally, to the PRODUCTION environment.

- 1. On the main menu, select Desktop.
- Select the Deliver icon in the Action Column of the TEST Level to create the Deliver Level Request.

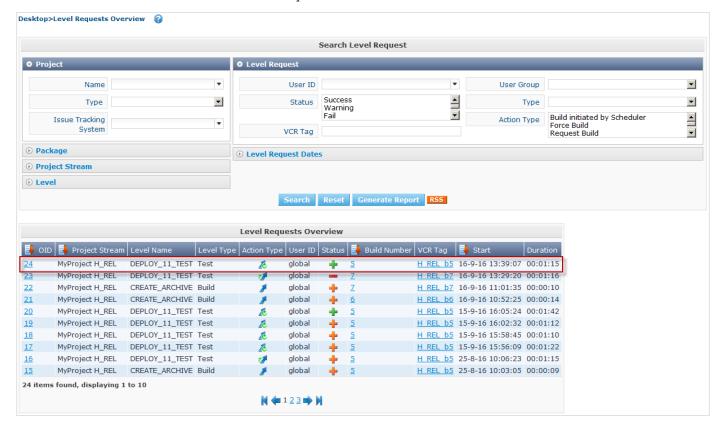


The *Create Level Request* screen will be displayed.



3. Provide a meaningful description, select the Build that was created earlier on our Build Level, and click the Create button.

You are forwarded to the *Level Requests Overview* screen.



4. Click the OID number in front of the Project Stream.

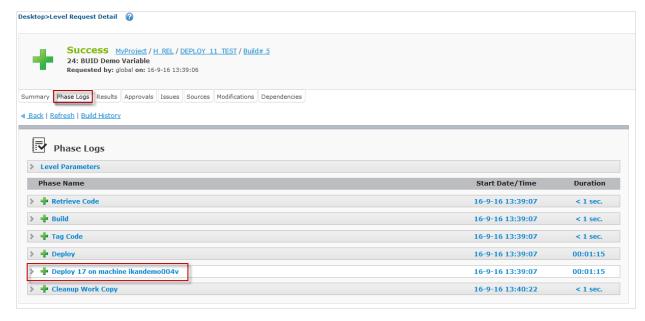
You are forwarded to the *Level Requests Detail* screen.

The Detailed Overview for the Deploy Level Request is similar to the one for the Build Level Request.

The execution of the Level Request may take several minutes dependent on the number of files Note: that need to be processed. You can use the Refresh button to refresh the window.



Select the *Phase Logs* tab page. The gray lines on the overview represent the different Phases, the white lines represent the Build or Deploy actions.



6. Click the Deploy name (in our example: Deploy 17 on machine ikandemo004v) to expand the information panel displaying the Phase details.



The most important Phase is the Restore Oracle DI Objects Phase log where we can find the result of the restoreODI.xml script executed by Ant.

Click the Restore Oracle DI Objects Phase to open its Phase Log.



7. The next steps will be to deliver the results to the ACCEPTANCE and/or PRODUCTION environments.

The procedure for doing this is exactly the same as the one described for delivering the results to the TEST environment.

8. You have reached the end of this Getting Started Guide.

You have learned to perform the following basic actions:

- define a Subversion repository,
- create a Project,
- set up the different Build and Test Levels within a Life Cycle,
- create different Environments,

- set up the different Build and Test Levels within a Life Cycle,
- import the Solutions Phases and get them to work by adapting the different parameters,
- and, finally, create Build and Deploy Level Requests and follow up on the results.

If you still have unresolved questions or comments, do not hesitate to contact us at info@redbridgesoftware.com.

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