

SL-BUS APIs

Product Information

VADACTRO Technologies India Pvt. Ltd.

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Abstract

This document is created to provide brief information about this product (i.e. SL-BUS APIs) and it's secured usage.

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1 What is SL-BUS Library Component?

- It is a software component that is used by any third-party systems to get control and configuration access for SL-BUS Technology based Devices.
- Data exchange is typical JSON format.
- This library need to be placed between third-party s/w and the network layer
- It is available for Java and Swift

2 What is SL-BUS JAVA Library Component?

- It is a software component that is used by any third-party java based application to get control and configuration access for SL-BUS Technology based Devices.
- It comes in the form of .jar file supported with API document in xls
- This can be executed on any java compliant system. For ex: Android, Linux, windows, raspberry-pi or any custom system h/w that works with JAVA
- This library is compliant with JDK Version 1.8

3 What is SL-BUS Swift Library Component?

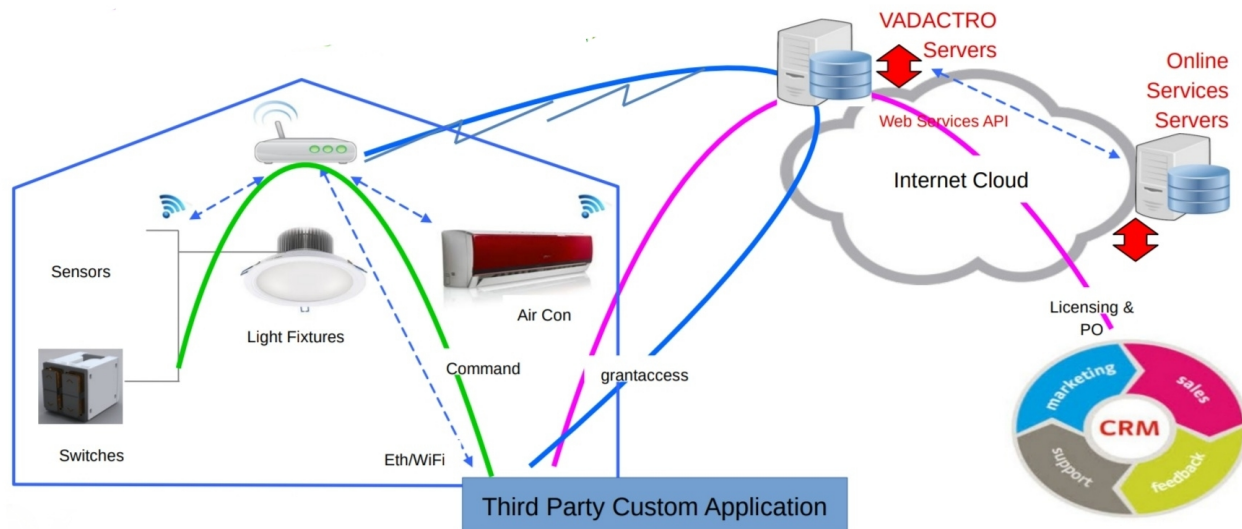
- It is a software component that is used by any third-party application based upon swift language to get control and configuration access for SL-BUS Technology based Devices.
- It comes in the form of folders with binaries in it supported with API document in xls
- This can be executed on iOS or macOS compliant system.

4 What is SL-BUS Device Access License?

- SL-BUS Device access is protected, encrypted and authenticated.
- To access or control SL-BUS Technology based product using SL-BUS Java Library, “Access token” or “Key” is needed, This key is called as “SL-BUS Device Access License”.
- SL-BUS Device Access License is solely managed by VADACTRO cloud.
- All rights are reserved with VADACTRO.

5 SL-BUS Devices Access Licensing Information flow

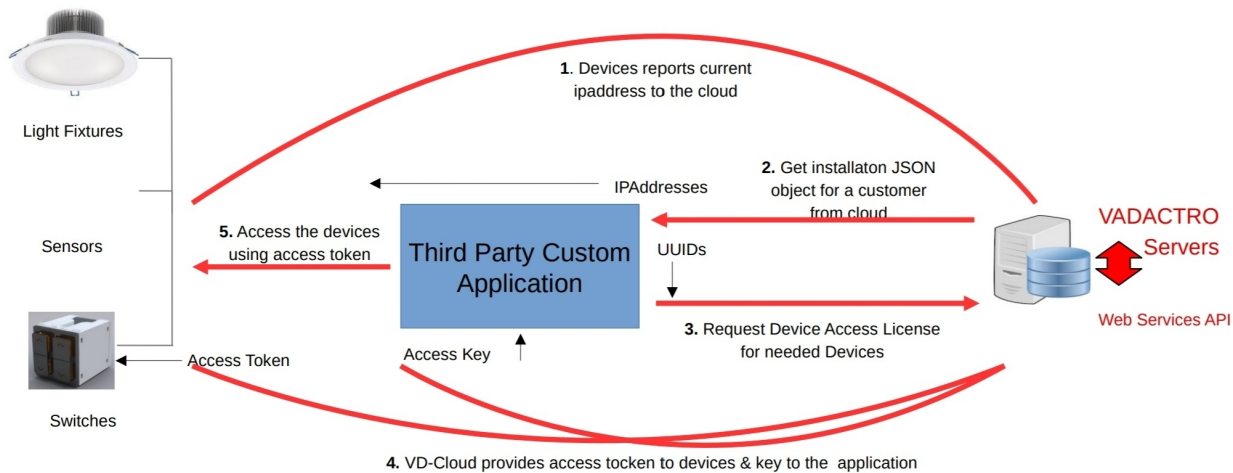
- It has three main phases
 1. Procure Licenses
 2. Acquire Licenses (grantaccess)
 3. Use Licenses for Devices Access (command)



5.1 Process to procure SL-BUS Device Access Licenses

- Sign up NDA with VADACTRO
- Request for Quote to VADACTRO for number of SL-BUS Device access Licenses needed (for ex: Say 1000 Devices Access)
- Finish of payment, an invoice will be generated and invoice number will be used for license tracking for future reference.
- For a new customer, create VDCloud account visiting on <https://vdccloud.slbus.in>.
- Generate a Support Request on VDCloud to enable you DLM Manager Account to manage and view your license usage details. You can also request to create User Accounts associated with your MANAGER account. USER accounts authentication are recommended to use in the application code.
- VADACTRO HelpDesk will assist you get through this process if needed.
- Same access token will be shared with Multiple USERS or Manager associated with your DLM account with VADACTRO safeguarding your privacy and safety

5.2 SL-BUS Device Access flow in the application

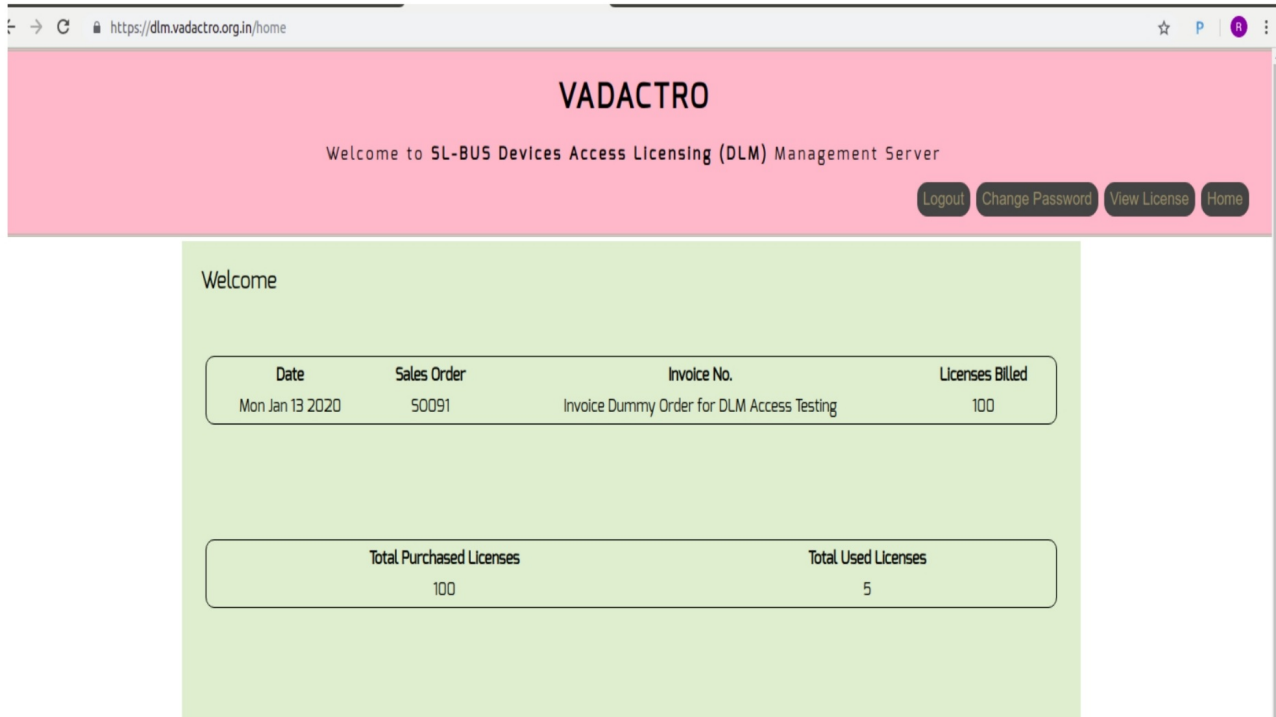


5.3 How to use SL-BUS Device Access Licenses in your application?

- Create buscom class
- App need to know list of SL-BUS devices available on the network.
- This list can be pulled by using busCom.CloudCommand method from SL-BUS library.
- This call requires end-users login credential as inputs and it provides installation JSON object, UUIDs and devices IP addresses as output
- For a specific SL-BUS device, you need to grant a license for access using busCom.CloudCommand method from SL-BUS library. This call needs Licenses Owner's login credentials (i.e. you), as a result one license per device will be deducted from your account and respective "access token" will be pushed to the device for your access and "access token" will be returned to you. You have to set DLM access token received from this method to the SL-BUS Library by busCom.setCid
- For Cloud Operation, access token is needed. This can be pulled by using busCom.CloudCommand method from SL-BUS library. This call requires end users login credential as inputs.
- For Local Device Access (To read Configuration/Status and to Control) you will need to use busCom.Command method from SL-BUS library. Before execution of it
 - a) You have to set IP address of the device using method busCom.setUrl
 - b) You have to set uuid of the device using method busCom.setUuid
 - c) Make sure that DLM Access Token is set using busCom.setCid
- For Cloud Device Access (To read Configuration/Status and to Control) you will need to use busCom.CloudCommand method from SL-BUS library. Before execution of it
 - a) You have to set uuid of the device using method busCom.setUuid
 - b) Make sure that DLM Access Token is set using busCom.setCid
 - c) Make sure that Cloud User Access Token is set using busCom.setUserAccessToken

6 Licensing Data Management

- API License owner can go to the online Device Licensing Managment tool console (<https://dlm.vadactro.org.in>) and see the licensing usage information any time via :



The screenshot shows the VADACTRO DLM Management Server interface. The header is pink and contains the VADACTRO logo, the text "Welcome to SL-BUS Devices Access Licensing (DLM) Management Server", and buttons for Logout, Change Password, View License, and Home. The main content area is green and contains a "Welcome" message, a table with licensing data, and a summary box.

Date	Sales Order	Invoice No.	Licenses Billed
Mon Jan 13 2020	50091	Invoice Dummy Order for DLM Access Testing	100

Total Purchased Licenses	Total Used Licenses
100	5

- Login
- Change Password
- Recover forgot passowrd
- View Purchased Licenses
- View Licenses information assigned to the devices