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| Basics of LuvitRED |
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# What is LuvitRED?

A visually configurable device agent that is part of the CloudGate solution. The visual editor of LuvitRED is based on the User Interface from IBM's NodeRed. The NodeRed server is rewritten in a Lua server called Luvit.

Why Lua?

Lua is a lightweight, simple to learn programming language that has and easy to use native C interface that makes integration of C libraries relatively simple.

An extensive node set has been developed with M2M use cases in mind. Nodes such as serial, modbus, connection to M2M servers, GPIOs, GPS, etc. The list of nodes is continuously increasing with every new LuvitRED release.

A simple web interface is available for the most simple configurations such as serial port to TCP local or remote server and GPS to TCP local or TCP/UDP remote server. An advanced editor is available for any other custom configuration.

The LuvitRED configuration is stored on the CloudGate´s file system (UCI), this means that the same configuration can be propagated to other CloudGates via CloudGate Universe.

The development of LuvitRED is done in house by Option using **only** the CloudGate´s SDK.

## What is the benefit of using LuvitRED?

LuvitRED is intended to reduce time to solution, sales cycle, solution cost and risk of making a new development from zero every time a new project comes.

## Who is intended for?

* Support staff at system integrators/VARs
* Developers
* Option staff

## Where to get LuvitRED from and how to install it?

LuvitRED can be installed remotely on the CloudGate by using the CloudGate Universe server (http://cloudgate.option.com/), but can also be installed manually on the CloudGate by using the CloudGate´s web interface under the provisioning tab.

The LuvitRED package for manual upgrade can be downloaded from the CloudGate Universe by going into the Library> Applications (View applications)> Option LuvitRED (View details) and clicking on the download button located next to the desired LuvitRED version:



The latest version of LuvitRED is (as of July 1, 2015).

Downloading the file will create a bin file on your computer, this bin file can be directly uploaded into the CloudGate using the provisioning tab.

Notes:

* Be aware that LuvitRED has always a minimum firmware requirement in order to work correctly. The minimum firmware version for LuvitRED to work correctly is 1.44.0.
* LuvitRED v 1.x.x is only compatible with firmware versions 1.x.x. A new version of LuvitRED is being develop (2.x.x), this version will only be compatible with firmware versions 2.x.x.
* If the Plugin page does not show after uploading LuvitRED and rebooting the CloudGate, and/or the Image version under System Information on the Home page is shown in red, this means that the combination of firmware and LuvitRED is not correct. Please, verify the two previous notes.