

---

# **LoRaWAN Network Server Demonstration: Source Code Build Guide**

---

1	History.....	2
2	Introduction.....	3
3	Building the servers.....	3
3.1	Linux .....	3
3.2	Windows.....	3
4	References .....	4

## 1 History

Revision	Modification / Remarks / Motive	Author
1.0	Document created	DRo

## 2 Introduction

The document guides the user to build the Semtech LoRa Servers from Source code Version 2.1.x.

## 3 Building the servers

### 3.1 Linux

Extract the files from the supplied (release) zip file.

Set working directory to the directory that contains the file 'Makefile'

Execute the command 'make'. The files loraNS, loraAS, loraNC, loraCS and loracmd should be created.

### 3.2 Windows

Install 'Microsoft Visual Studio 2010 Professional, including the C++ option'

Extract the files from the supplied (release) zip file.

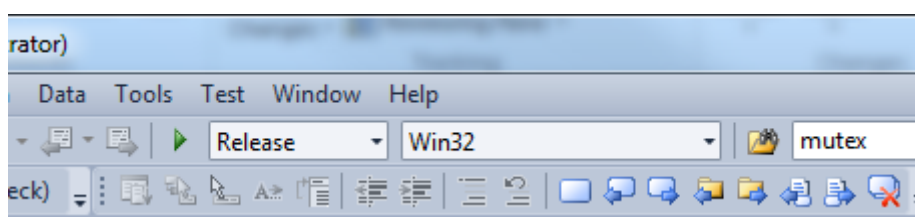
Start 'Microsoft Visual C++ 2010 Professional'

Select Menu File>Open>Project/Solution.

Open the solution 'LoRa Server.sln'

The compilation relies on the include file 'mysql.h' being located in 'C:\xampp\mysql\include\'. If it is not, the file must either be copied to that location or the 'Additional Included Directories' option of each of the projects altered to include the location in which the files exist.

Select 'Release' build



*Figure 1: Screenshot of Microsoft Visual C++ application showing 'release' build selected*

Select Build>Solution.

The executable files ApplicationServer.exe, CustomerServer.exe, LoRaCmd.exe, NetworkController.exe, NetworkServer.exe will be generated.

Now refer to [1] to start the installation.

## 4 References

Each trademark is the property of its owner.

[1] Semtech Ltd, “LoRaWAN Network Server Demonstration: Installation Guide,” 2015.

© Semtech 2015

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent or other industrial or intellectual property rights. Semtech assumes no responsibility or liability whatsoever for any failure or unexpected operation resulting from misuse, neglect improper installation, repair or improper handling or unusual physical or electrical stress including, but not limited to, exposure to parameters beyond the specified maximum ratings or operation outside the specified range.

SEMTECH PRODUCTS ARE NOT DESIGNED, INTENDED, AUTHORIZED OR WARRANTED TO BE SUITABLE FOR USE IN LIFE-SUPPORT APPLICATIONS, DEVICES OR SYSTEMS OR OTHER CRITICAL APPLICATIONS. INCLUSION OF SEMTECH PRODUCTS IN SUCH APPLICATIONS IS UNDERSTOOD TO BE UNDERTAKEN SOLELY AT THE CUSTOMER'S OWN RISK. Should a customer purchase or use Semtech products for any such unauthorized application, the customer shall indemnify and hold Semtech and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs damages and attorney fees which could arise.

---

**Contact Information**

**Semtech Corporation**  
**Wireless Sensing and Timing Products Division**  
**200 Flynn Road, Camarillo, CA 93012**  
**Phone: (805) 498-2111 Fax: (805) 498-3804**  
**E-mail: [support\\_rf\\_na@semtech.com](mailto:support_rf_na@semtech.com)**  
**Internet: <http://www.semtech.com>**