

## LICENSE PACKAGES UNLIMITED

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## TABLE OF CONTENTS

1	Introduction .....	3
2	License Package Unlimited .....	4
2.1	Overview .....	4
2.2	Commercial .....	4
2.3	Technical .....	5
2.4	Support and Maintenance .....	6

## 1 INTRODUCTION

The STACKFORCE Protocol Stacks are sold in License Packages, containing software, legal and commercial elements, which are mandatory for the use of our Protocol Stacks.

We provide different licensing options for both, small and large quantities.

Usually, customized upgrades of individual elements within a License Package are possible – On request to [info@stackforce.com](mailto:info@stackforce.com), we will provide a customized quotation.

Thus, a suitable License Package is available for every IoT project. We will be happy to advise you on this!

### A License Package consists of:



#### **License**

Usage rights for a defined Protocol Stack



#### **Deliverable**

Verified Protocol Stack software package for a certain hardware platform



#### **Support & Maintenance**

Active maintenance and support budget according to the relevant license package

## 2 LICENSE PACKAGE UNLIMITED

### 2.1 OVERVIEW

**UNLIMITED**

No limits, no reports – unlimited wireless connectivity!

Commercial

One-off license fee:

- **Lifetime license:**
  - Unlimited copies
  - Unlimited term
- **Term license:**
  - Unlimited copies
  - 3-year term<sup>1</sup>

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Technical

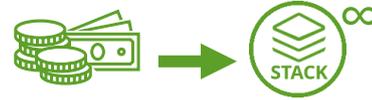
- Protocol Stack: Object code
- RF Driver: Source code<sup>2</sup>
- HAL: Source code

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Support & Maintenance

- 12 months maintenance & warranty
- 8 hours of support
- Response time: < 2 business days

### 2.2 COMMERCIAL



#### One-off license...

...is an agreement meant for device manufacturers that grants license rights for **unlimited copies** by paying the full license **fee** in advance to delivery of the software, while the **term** may be **either unlimited or three years**, according to the relevant license agreement.

In the Term License, the Licensee is obliged to provide STACKFORCE with the production start date at least two weeks prior to the commencement of production.

<sup>1</sup> The term of the Unlimited License Package Term License starts with licensee's beginning of production (effective date) and automatically expires after three years. Licensee shall inform STACKFORCE about the effective date in writing until two weeks after the beginning of production.

<sup>2</sup> Source code delivery depending on stack package.

## 2.3 TECHNICAL

### RF Driver

The RF Driver implements the actual interface to a certain radio silicon. It contains all relevant configurations and state management of the respective radio and connects to the actual Protocol Stack. This component is hardware specific and not part of the actual Protocol Stack.

### Hardware Abstraction Layer (HAL)

In order to operate a Protocol Stack in conjunction with a certain hardware, a HAL for a certain platform is required. The HAL consists of the necessary drivers and driver abstractions for either

- a microcontroller (MCU) or microprocessor (CPU),
- a single chip transceiver (TRX), or
- a system-on-chip (SoC) combining MCU / CPU and TRX in one package or silicon.

The HAL typically connects the following required hardware functions to software (depends on stack and configuration):

- 1 – 2 x Timer
- 1 x SPI, 2 – 4 x GPIO (applies to and depends on the actual single chip transceiver)
- Software RF interface (applies to system-on-chip)
- AES encryption, CRC calculation, encodings (if available and applicable)

## 2.4 SUPPORT AND MAINTENANCE

### Support

The Unlimited License Package initially includes 8 hours of support<sup>2</sup>. Additional support budget can be purchased at any time.

Workflow for every support request:

1. STACKFORCE receives a support request.
2. STACKFORCE provides first feedback including an effort estimation and a possible service period.
3. Based on feedback and effort estimation, the customer will decide:
  - a. Approved: STACKFORCE will process the support request.
  - b. Declined: Processing of support case will be rejected (Up to 2 h will be charged to the budget though for first feedback.).
4. In case STACKFORCE recognizes unforeseen issues preventing to keep efforts within initially approved budget, STACKFORCE will immediately inform the customer. Based on this updated effort estimation, the customer will decide:
  - a. Approved: Updated overall effort estimation accepted and processing of the support request will be continued.
  - b. Declined: Support case processing stopped, already spent efforts will be charged to the budget.

All details regarding support are specified in STACKFORCE's "Standard Support Conditions" document, which is available on our website [stackforce.com](https://stackforce.com) or upon request at [info@stackforce.com](mailto:info@stackforce.com).

### Maintenance

One year of maintenance is included in the Unlimited License Package, while an extension of the maintenance period is possible on an annual base.

During the active maintenance period, maintenance includes the reception of new package versions (= package updates) providing updates against the background of

- a) removal of malfunctions (bug fixes),
- b) functional improvements, and
- c) functional extensions,

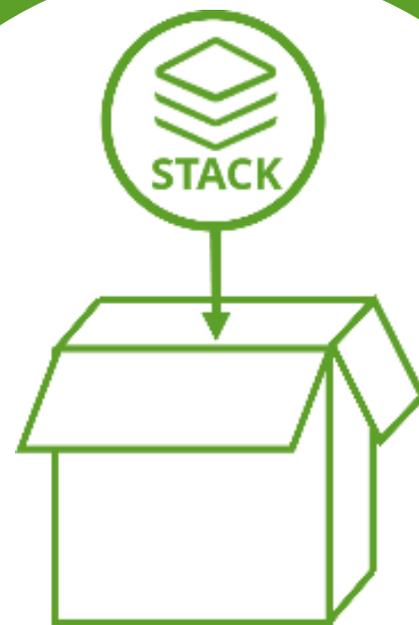
whereas type and scope regarding b) and c) are up to STACKFORCE.

Advantages by extension of the maintenance period:

- ✓ Extension of **warranty**
- ✓ Benefit of **package updates**

Package updates outside maintenance period will be charged with full license fee.

<sup>2</sup> Unused support budget expires 12 months after the effective date of the respective license agreement and a new support budget can be purchased.



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