

VYATTA, INC.

| **Vyatta System**

Guide to Vyatta Software Licensing



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Chapter 1: Introduction to Vyatta Software Licensing

This chapter provides a brief background to the Vyatta Software Licensing model.

This chapter presents the following topics:

- Licensing Overview

Licensing Overview

The Vyatta software is provided in three offerings:

- Vyatta Core
- Vyatta Subscription Edition
- Vyatta Plus

Vyatta Core

Vyatta Core is the base Vyatta software product and provides the features necessary for most networking tasks. This software, its source code, as well as associated documentation can be downloaded and used at no cost. Updates are provided periodically and customers have access to the Vyatta forums, but there is no telephone/e-mail support available.

Vyatta Subscription Edition

Vyatta Subscription Edition is Vyatta's premier product offering. It includes the Vyatta Core product as well as additional product features not found in the Vyatta Core product. The Vyatta Subscription Edition has a yearly fee associated with it and provides access to bug fixes, patches, and continual product enhancements, as well as access to Vyatta's Technical Support team at the Vyatta Technical Assistance Center. Vyatta Subscription Edition product features include:

TACACS+	User authentication using a TACACS+ server
OpenVPN Access Server client.	Client access to an OpenVPN Access Server.
Serial support	Serial communications card and protocol support.

Vyatta Plus

Vyatta Plus features are additional services that can be purchased by Vyatta Subscription Edition customers. These services provide enhanced functionality on an "a la carte" basis. Vyatta Plus Services features include:

Vyattaguard	Enhanced URL filtering database.
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Chapter 2: Entitlement

This chapter explains how Vyatta Subscription Edition and Vyatta Plus features are managed within the Vyatta system using the Vyatta Entitlement Server.

This chapter presents the following topics:

- Entitlement Overview
- Entitlement Configuration
- Entitlement Commands

Entitlement Overview

The Vyatta Entitlement Server infrastructure consists of an Entitlement Server and back-end database, located at Vyatta, that tracks and manages Entitlement Keys and Service Keys. An Entitlement Key (as well as a username and password) is provided to a customer that purchases the Vyatta Subscription Edition product. The Entitlement Key has a direct association with a specific Vyatta system and cannot be used with more than one system. The Entitlement Key enables the customer to run the Vyatta Subscription Edition product, with its additional features, receive continual product bug fixes, updates, and enhancements, and receive technical support. In addition, purchasing the Vyatta Subscription Edition product is a requirement for purchasing Vyatta Plus features. Vyatta Plus customers are provided a Service Key. The Service Key, once linked to an Entitlement Key using an operational command, identifies the Vyatta Plus feature and enables the customer to use the feature.

In order to use a Vyatta Plus feature, customers must first configure their Vyatta system with their username, password, and the Entitlement Key for that system. They must then assign the Service Key associated with the feature they purchased to the Entitlement key. This assignment takes place on the Entitlement Server database so it can be performed using any Vyatta system configured with the same username, password. The assignment does not have to be performed on the system that will be using the Vyatta Plus feature.

The Vyatta Plus feature, running on the Vyatta system, accesses the Vyatta Entitlement Server in order to procure service data (for example, the Vyattaguard URL filtering database) and supplies the Entitlement Server the information configured on it (username, password, and Entitlement Key). The Vyatta Entitlement Server verifies the information sent and confirms that the service being used has been linked to the Entitlement Key for the system it is running on. Upon successful verification, the Entitlement Server sends the requested data enabling the Vyatta Plus feature to operate.

Entitlement Configuration

In order to use a Vyatta Plus feature, the Vyatta Subscription Edition username, password, and Entitlement Key must first be configured on the Vyatta system.

The following example shows how to configure a Vyatta system with a Subscription Edition username, password, and Entitlement Key in configuration mode.

Example 2-1 Configuring an Entitlement Key

Step	Command
Configure a Vyatta Subscription Edition Entitlement Key.	<pre>vyatta@vyatta# set entitlement entitlement-key 5300-3000-0200-0050-0001 [edit]</pre>

Example 2-1 Configuring an Entitlement Key

Configure a Vyatta Subscription Edition username.	<code>vyatta@vyatta# set entitlement username customer1</code> [edit]
Configure a Vyatta Subscription Edition password.	<code>vyatta@vyatta# set entitlement password password1</code> [edit]
Commit the configuration.	<code>vyatta@vyatta# commit</code> [edit]
Display the configuration.	<code>vyatta@vyatta# show entitlement</code> entitlement-key 5300-3000-0200-0050-0001 password password1 username customer1 [edit]

Once this is done the Service Key for a Vyatta Plus feature can be assigned to the Entitlement Key.

NOTE This service assignment can be run on any Vyatta system configured with the same username, password, and Entitlement Key because the actual assignment takes place on Vyatta's Entitlement Server not on the local Vyatta system.

The following example shows how to add a Service Key for the Vyattaguard feature in operational mode (where the Entitlement Key is 5300-3000-0200-0050-0001 and the Service Key is 0090-5601-0900-0340-0002).

Example 2-2 Adding a Service Key to an Entitlement Key

Step	Command
Add a Service Key to an Entitlement Key.	<code>vyatta@vyatta:~\$ add entitlement service-assignment</code> <code>5300-3000-0200-0050-0001 0090-5601-0900-0340-0002</code> [edit]

Example 2-2 Adding a Service Key to an Entitlement Key

```
Display the status of Entitlement    vyatta@vyatta:~$ show entitlement
and Service Keys.                  =====
                                    Current entitlement information
                                    =====

                                    Available entitlement keys:
                                        Entitlement key: 5300-3000-0200-0050-0001
                                        Start date: 2008/07/01 00:00
                                        Expire date: 2010/07/01 00:00
                                        Services assigned to this entitlement key:
                                            [vyattaguard] service:
                                                Service key: 0090-5601-0900-0340-0002
                                                Start date: 2009/07/01 00:00
                                                Expire date: 2010/07/01 00:00

                                    Available and unassigned service keys:
                                        None

                                    vyatta@vyatta:~$
```

Entitlement Commands

Configuration Commands	
entitlement entitlement-key <entitlement-key>	Specifies the entitlement key associated with the system.
entitlement password <password>	Specifies the entitlement password associated with the system.
entitlement username <username>	Specifies the entitlement username associated with the system.

Operational Commands	
add entitlement service-assignment	Adds a service key to an entitlement key.
remove entitlement service-assignment	Removes a service key from an entitlement key.
show entitlement	Displays a entitlement key and service key status.

add entitlement service-assignment

Adds a service key to an entitlement key.

Syntax

```
add entitlement service-assignment entitlement-key service-key
```

Command Mode

Operational mode.

Parameters

<i>entitlement-key</i>	The key that identifies an instance of the Vyatta Subscription Edition product.
------------------------	---

<i>service-key</i>	The key that identifies an instance of a Vyatta Plus service.
--------------------	---

Default

None.

Usage Guidelines

Use this command to add a Vyatta Plus service key to a Vyatta Subscription Edition entitlement key. An entitlement key (see “entitlement entitlement-key <entitlement-key>” on page 8), an entitlement username (see “entitlement username <username>” on page 10), and an entitlement password (see “entitlement password <password>” on page 9) must be configured on the system in order to use this command.

Examples

```
vyatta@vyatta:~$ add entitlement service-assignment
5300-3000-0200-0050-1111 0090-5601-0900-0340-2222
Operation succeeded
vyatta@vyatta:~$ show entitlement
=====
Current entitlement information
=====

Available entitlement keys:
  Entitlement key: 5300-3000-0200-0050-0001
    Start date:   2008/07/01 00:00
    Expire date:  2010/07/01 00:00
  Services assigned to this entitlement key:
    [vyattaguard] service:
      Service key: 0090-5601-0900-0340-0002
```

```
Start date: 2009/07/01 00:00
Expire date: 2010/07/01 00:00
```

```
Entitlement key: 5300-3000-0200-0050-1111
```

```
Start date: 2008/07/01 00:00
```

```
Expire date: 2010/07/01 00:00
```

```
Services assigned to this entitlement key:
```

```
[vyattaguard] service:
```

```
Service key: 0090-5601-0900-0340-2222
```

```
Start date: 2009/07/01 00:00
```

```
Expire date: 2010/07/01 00:00
```

```
Available and unassigned service keys:
```

```
None
```

```
vyatta@vyatta:~$
```

entitlement entitlement-key <entitlement-key>

Specifies the entitlement key associated with the system.

Syntax

```
set entitlement entitlement-key entitlement-key
delete entitlement entitlement-key
show entitlement entitlement-key
```

Command Mode

Configuration mode.

Configuration Statement

```
entitlement {
    entitlement-key text
}
```

Parameters

entitlement-key The entitlement key associated with the system.

Default

None.

Usage Guidelines

Use this command to configure an entitlement key on the system. An entitlement key is provided upon purchase of the Vyatta Subscription Edition product. An entitlement key is required in order to use features specific to the Vyatta Subscription Edition product.

Use the **set** form of this command to configure an entitlement key on the system.

Use the **delete** form of this command to remove an entitlement key from a system.

Use the **show** form of this command to show the entitlement key configuration.

entitlement password <password>

Specifies the entitlement password associated with the system.

Syntax

```
set entitlement password password
delete entitlement password
show entitlement password
```

Command Mode

Configuration mode.

Configuration Statement

```
entitlement {
    password text
}
```

Parameters

<i>password</i>	The entitlement password associated with the system.
-----------------	--

Default

None.

Usage Guidelines

Use this command to configure an entitlement password on the system. An entitlement password is provided upon purchase of the Vyatta Subscription Edition product. An entitlement password is required in order to use features specific to the Vyatta Subscription Edition product.

Use the **set** form of this command to configure an entitlement password on the system.

Use the **delete** form of this command to remove an entitlement password from a system.

Use the **show** form of this command to show the entitlement password configuration.

entitlement username <username>

Specifies the entitlement username associated with the system.

Syntax

```
set entitlement username username
delete entitlement username
show entitlement username
```

Command Mode

Configuration mode.

Configuration Statement

```
entitlement {
    username text
}
```

Parameters

<i>username</i>	The entitlement username associated with the system.
-----------------	--

Default

None.

Usage Guidelines

Use this command to configure an entitlement username on the system. An entitlement username is provided upon purchase of the Vyatta Subscription Edition product. An entitlement username is required in order to use features specific to the Vyatta Subscription Edition product.

Use the **set** form of this command to configure an entitlement username on the system.

Use the **delete** form of this command to remove an entitlement username from a system.

Use the **show** form of this command to show the entitlement username configuration.

remove entitlement service-assignment

Removes a service key from an entitlement key.

Syntax

remove entitlement service-assignment *entitlement-key service-key*

Command Mode

Operational mode.

Parameters

<i>entitlement-key</i>	The key that identifies an instance of the Vyatta Subscription Edition product.
------------------------	---

<i>service-key</i>	The key that identifies an instance of a Vyatta Plus service.
--------------------	---

Default

None.

Usage Guidelines

Use this command to remove a Vyatta Plus service key from its associated Vyatta Subscription Edition entitlement key. An entitlement key (see “entitlement entitlement-key <entitlement-key>” on page 8), an entitlement username (see “entitlement username <username>” on page 10), and an entitlement password (see “entitlement password <password>” on page 9) must be configured on the system in order to use this command.

Examples

```
vyatta@vyatta:~$ remove entitlement service-assignment
5300-3000-0200-0050-1111 0090-5601-0900-0340-2222
Operation succeeded
vyatta@vyatta:~$ show entitlement
=====
Current entitlement information
=====

Available entitlement keys:
  Entitlement key: 5300-3000-0200-0050-0001
    Start date: 2008/07/01 00:00
    Expire date: 2010/07/01 00:00
  Services assigned to this entitlement key:
    [vyattaguard] service:
      Service key: 0090-5601-0900-0340-0002
```

```
Start date: 2009/07/01 00:00
Expire date: 2010/07/01 00:00
```

```
Entitlement key: 5300-3000-0200-0050-1111
Start date: 2008/07/01 00:00
Expire date: 2010/07/01 00:00
Services assigned to this entitlement key:
None
```

```
Available and unassigned service keys:
```

```
[vyattaguard] service:
Service key: 0090-5601-0900-0340-2222
Start date: 2009/07/01 00:00
Expire date: 2010/07/01 00:00
```

```
vyatta@vyatta:~$
```

show entitlement

Displays a entitlement key and service key status.

Syntax

```
show entitlement
```

Command Mode

Operational mode.

Parameters

None.

Default

None.

Usage Guidelines

Use this command to display the current status of entitlement keys and service keys associated with a customer. An entitlement key (see “entitlement entitlement-key <entitlement-key>” on page 8), an entitlement username (see “entitlement username <username>” on page 10), and an entitlement password (see “entitlement password <password>” on page 9) must be configured on the system in order to use this command.

Examples

```
vyatta@vyatta:~$ show entitlement
=====
Current entitlement information
=====

Available entitlement keys:
  Entitlement key: 5300-3000-0200-0050-0001
    Start date: 2008/07/01 00:00
    Expire date: 2010/07/01 00:00
    Services assigned to this entitlement key:
      [vyattaguard] service:
        Service key: 0090-5601-0900-0340-0002
        Start date: 2009/07/01 00:00
        Expire date: 2010/07/01 00:00

  Entitlement key: 5300-3000-0200-0050-1111
    Start date: 2008/07/01 00:00
    Expire date: 2010/07/01 00:00
    Services assigned to this entitlement key:
```

None

Available and unassigned service keys:

[vyattaguard] service:

Service key: 0090-5601-0900-0340-2222

Start date: 2009/07/01 00:00

Expire date: 2010/07/01 00:00

vyatta@vyatta:~\$