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Stellaris Features

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Applies to products: RNX UPDU, RNX SPDU, Bachmann BN Essential

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Contents

- 1 Overview 4**
 - 1.1 Available Features 4
- 2 List of features 5**
 - 2.1 List of features 5
- 3 Product families 7**
 - 3.1 Feature Availability 7
- 4 Licenses 9**



1 Overview

1.1 Available Features

Not all features offered by Stellaris are available on all devices, depending on the product and the installed license.

Features which are not available on all products are marked accordingly in the documentation.

Depending on the vendor and product, extra features which do not depend on hardware support can be enabled by installing additional licenses.

1.1.1 Show Available Features

The `show features` command shows which features are available on the current device:

```
updu-100499> show features
TlSCERT_RNX_IO: rnx.io certificate
OUTLET_SEQUENCING: Outlet sequencing
NET_STP: Spanning tree protocol
REMOTE_AUTH: Remote authentication
...
```



2 List of features

2.1 List of features

Every feature is identified by a feature code which is shown when listing the features available on the device.

Built-in rnx.io certificate

rnx.io certificate which allows accessing the device using a trusted TLS connection whilst avoiding to configure a certificate manually.

Feature code: *TLSCERT_RNX_IO*

Outlet sequencing

Products with switchable outlets can be configured for autonomous outlet sequencing. Upon a power-loss all outlets are switched off and gradually switched on once power is restored. This mechanism helps to reduce inrush currents.

Feature code: *OUTLET_SEQUENCING*

Spanning tree protocol

Adds support for both the traditional Spanning Tree Protocol (802.1d) well as the Rapid Spanning Tree Protocol (802.1w).

Feature code: *NET_STP*

Remote authentication

Adds support for remotely authenticate users configured on an external service such as *RADIUS*, *TACACS+* or *LDAP*.

Feature code: *REMOTE_AUTH*

Modbus/TCP

Adds support for both Modbus/TCP in both standard and secure modes.

Feature code: *MODBUS_TCP*

Multihoming

For devices with multiple network interfaces, the default outgoing interface to be used can be configured.

Feature code: *NET_MULTIHOMING*

Network access control lists

Adds support for Access Control Lists (ACL) which are a simple mechanism to manage access to network services.

Feature code: *NET_ACL*

Module LED brightness control

The brightness of the LEDs on the measurement modules can, if supported by the hardware, be controlled in the `display` configuration sub-mode.

Feature code: *MODULE_LED_BRIGHTNESS*

802.1X supplicant

The 802.1X supplicant allows to connect a device to an 802.1X enabled network.

Feature code: *NET_DOT1X*

ACME client

Add support for Automatic Certificate Management Environment (ACME) which is a protocol for automating interactions with a certificate authority in order to automatically deploy certificates on devices.

Feature code: *ACME_CLIENT*

3 Product families

3.1 Feature Availability

The availability of certain features depends on the product manufacturer as well as the product line. Certain features further depend on hardware support, thus are not available on all devices from a certain product line.

The following list describes the different options which are used in the subsequent tables to list features per manufacturer and product line.

- **Always**

The feature is always available on the product.

- **Never**

The feature is not available on the product. This may be due to missing software or hardware support.

- **Optional**

The feature may available but the availability depends on the actual device. This may be related to the installed hardware as well as installed licenses.

Note: The feature availability depends on the currently installed firmware version and may change in future revisions. This document is thus only applicable to the current firmware release.

3.1.1 RNX Products

The following table lists the availability of features in products manufactured by RNX.

Feature Code	UPDU	SPDU
<i>TLSCERT_RNX_IO</i>	Always	Always
<i>OUTLET_SEQUENCING</i>	Optional	Never
<i>NET_STP</i>	Always	Never
<i>REMOTE_AUTH</i>	Always	Always
<i>MODBUS_TCP</i>	Always	Always
<i>NET_MULTIHOMING</i>	Always	Never
<i>NET_ACL</i>	Always	Never
<i>MODULE_LED_BRIGHTNESS</i>	Optional	Never
<i>NET_DOT1X</i>	Always	Never
<i>ACME_CLIENT</i>	Always	Always

3.1.2 BACHMANN Products

The following table lists the availability of features in products manufactured by BACHMANN.

Feature Code	BN ESSENTIAL
<i>TLSCERT_RNX_IO</i>	Always
<i>OUTLET_SEQUENCING</i>	Never
<i>NET_STP</i>	Never
<i>REMOTE_AUTH</i>	Never

Feature Code	BN ESSENTIAL
<i>MODBUS_TCP</i>	Never
<i>NET_MULTIHOMING</i>	Never
<i>NET_ACL</i>	Never
<i>MODULE_LED_BRIGHTNESS</i>	Never
<i>NET_DOT1X</i>	Never
<i>ACME_CLIENT</i>	Never



4 Licenses

The functionality of devices may also be extended by installing additional licenses. Refer to the *CLI Reference Manual* or the *Web-Client Reference Manual* to learn more about software licenses. Contact the manufacturer of the product to obtain licenses for a device.

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