



# MediaKind

TelLink: Premium Business and authorized Service Partner

**TelLink GmbH**

Phone: +49 (0) 7553 59095 40

Fax: +49 (0) 7553 59095 50

[www.TelLink.de](http://www.TelLink.de)

## TelLink GmbH

Bahnhofstrasse 138

D-88682 Salem

Phone: +49 7553 59095 40

Fax: +49 7553 59095 50

Mobil: +49 170 210 7742

[www.TelLink.de](http://www.TelLink.de)

[info@TelLink.de](mailto:info@TelLink.de)



## Why BISS-CA: EBU Mandate



- It specifies an open, interoperable conditional access system allowing the operator to revoke or allow, in real time, the reception of programmes by a particular receiver
- This is an EBU defined standard that addresses the security compromises of BISS 1, something that has become increasingly prevalent over the last 5 years through Brute Force key hacking, for example.
- BISS 2 (including CA Mode) allows equipment diversity and interoperability and does not lock-in operators to a single encoder or IRD vendor.
- Furthermore, the protocol is designed to allow additional customisation by reserving space for private data carriage.

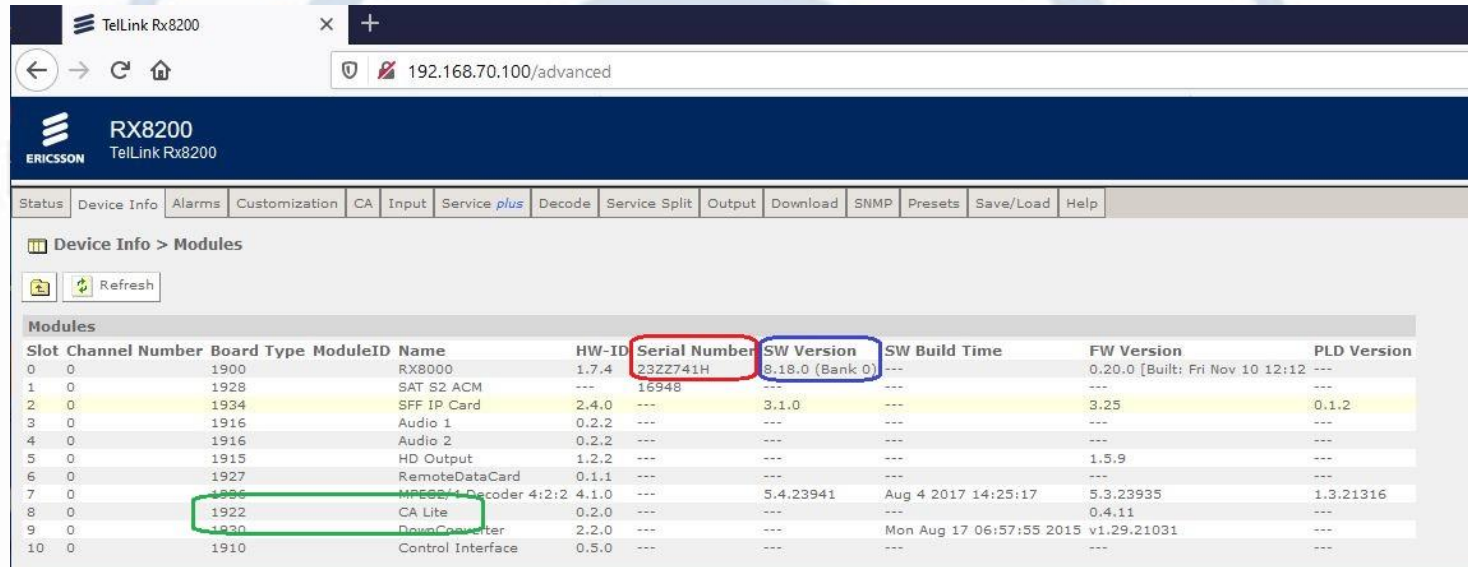
## What is BISS CA?



- BISS v2 like BISS v1 supports both Mode 1 and Mode E keys but uses a 128-bit key encryption to increase security.
- The BISS-CA mode is built on top of the BISS 2 mode E but allows the operator to change the session key in-stream periodically in a seamless manner for the entitled receivers, while at the same time revoking receivers that are no longer entitled.
- This standard addresses the need of sport federations and any content rights holder who is looking for a secure, transparent and traceable contribution and primary distribution system while being vendor agnostic.
- BISS-CA is backward compatible with existing multiplexers as far as they comply with the MPEG-2-TS and DVB specifications.

## RX8200 BISS CA HW Prerequisites

- Board ID 1922 CA Lite Card must be installed
- Rx8200 Unit Serial Number
- Rx8200 Software Version [> SW-8.25.1]



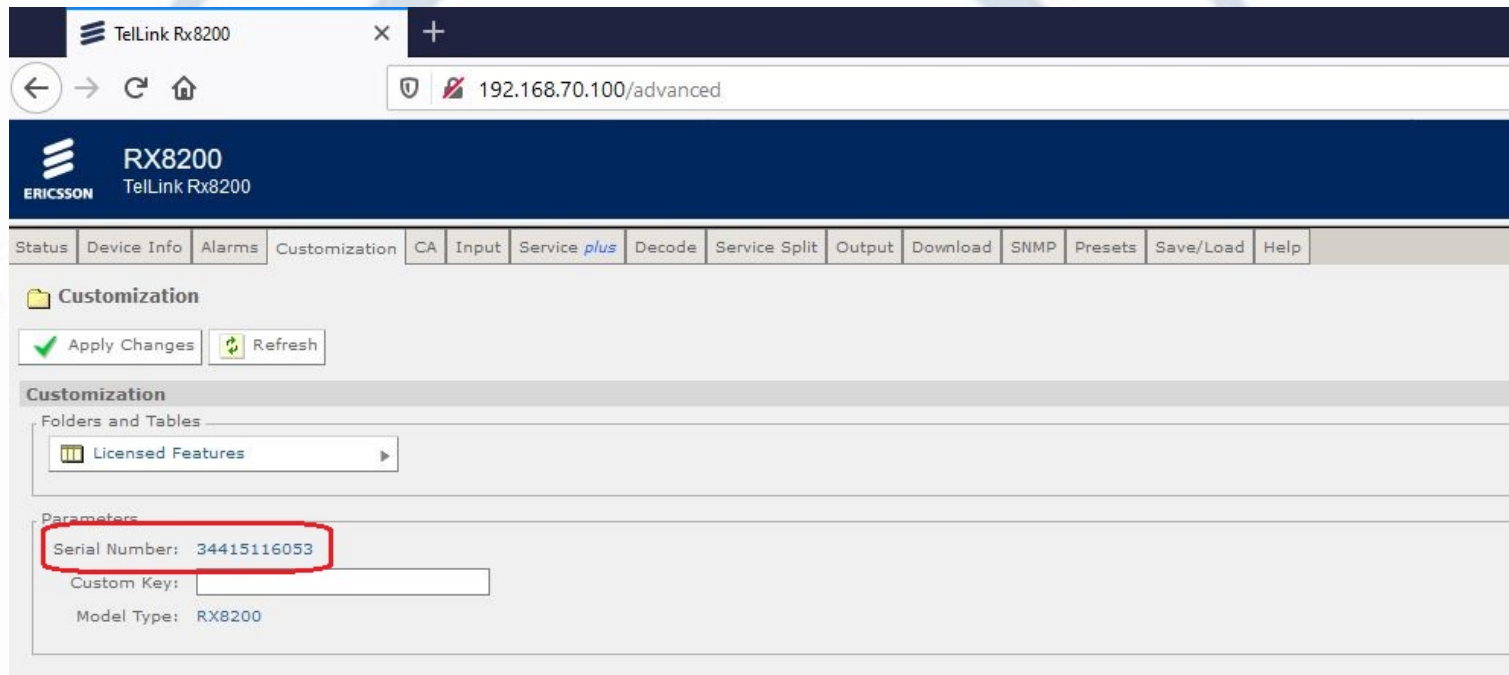
Device Info > Modules

Slot	Channel Number	Board Type	ModuleID	Name	HW-ID	Serial Number	SW Version	SW Build Time	FW Version	PLD Version
0	0	1900		RX8000	1.7.4	23Z2741H	8.18.0 (Bank 0)	---	0.20.0 [Built: Fri Nov 10 12:12	---
1	0	1928		SAT S2 ACM	---	16948	---	---	---	---
2	0	1934		SFF IP Card	2.4.0	---	3.1.0	---	3.25	0.1.2
3	0	1916		Audio 1	0.2.2	---	---	---	---	---
4	0	1916		Audio 2	0.2.2	---	---	---	---	---
5	0	1915		HD Output	1.2.2	---	---	---	1.5.9	---
6	0	1927		RemoteDataCard	0.1.1	---	---	---	---	---
7	0	1936		MPEG4 Decoder 4:2:2	4.1.0	---	5.4.23941	Aug 4 2017 14:25:17	5.3.23935	1.3.21316
8	0	1922		CA Lite	0.2.0	---	---	---	0.4.11	---
9	0	1930		DownConverter	2.2.0	---	---	Mon Aug 17 06:57:55 2015	v1.29.21031	---
10	0	1910		Control Interface	0.5.0	---	---	---	---	---

## RX8200 BISS CA HW Prerequisites



- Unique Serial Number / Dallas-ID



The screenshot shows the TelLink Rx8200 web interface. The browser address bar displays `192.168.70.100/advanced`. The page title is **RX8200** TelLink Rx8200. The navigation menu includes: Status, Device Info, Alarms, Customization, CA, Input, Service *plus*, Decode, Service Split, Output, Download, SNMP, Presets, Save/Load, and Help. The **Customization** section is active, showing **Apply Changes** and **Refresh** buttons. Under **Customization**, there is a **Folders and Tables** section with a dropdown menu for **Licensed Features**. The **Parameters** section contains the following fields:

- Serial Number:** 34415116053 (highlighted with a red box)
- Custom Key:** [Empty text input field]
- Model Type:** RX8200