



Contents

1	INTRODUCTION	3
2	REQUIREMENTS FOR BISS-CA COMPATIBILITY	3
3	FIRMWARE UPGRADE	3
4	DECODER REGISTRATION ON EUROVISION.NET	3
5	INSTALLATION OF BISS-CA LICENSE	5
6	EXTRACTION OF PUBLIC KEY	7
7	CONTACTS	7

Document version

Version	Date	Comments / Changes
1.0	August 4, 2020	Initial version



1 INTRODUCTION

BISS-CA is a conditional access system based on open cryptographic standards. It uses a combination of symmetric and asymmetric ciphers to protect the transmitted content and entitle or revoke in real-time any receiver in an interoperable manner.

Eurovision Services (ES) will use the new BISS-CA standard for high-profile transmissions starting in late 2020.

This document explains the requisites to upgrade the Ateme DR5000 decoder to be compatible with the new BISS-CA standard. This process requires the download of new firmware and must be performed by an engineer with direct access to the units.

2 REQUIREMENTS FOR BISS-CA COMPATIBILITY

To receive BISS-CA encrypted transmissions, you need:

- Firmware version 2.4.7.1 or newer
- A BISS-CA licence: for units sold by Eurovision Services, after registration on www.eurovision.net, the BISS-CA licence and support is offered for a fee.

3 FIRMWARE UPGRADE

Please follow the instructions as described in the Application Note document, which can be downloaded from the following page:

https://www.eurovision.net/insights/technical/biss-ca-migration-files-download

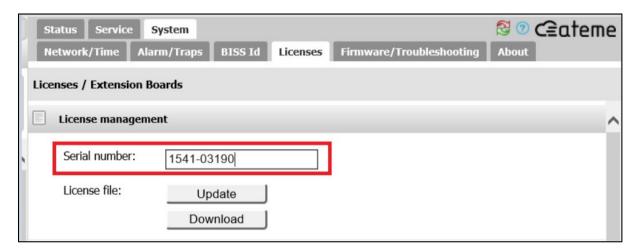
4 DECODER REGISTRATION ON Eurovision.net

After upgrading the firmware, you need to register the decoders on the ES website (https://www.eurovision.net/biss-ca-migration) to be authorised to receive BISS-CA encrypted transmissions.

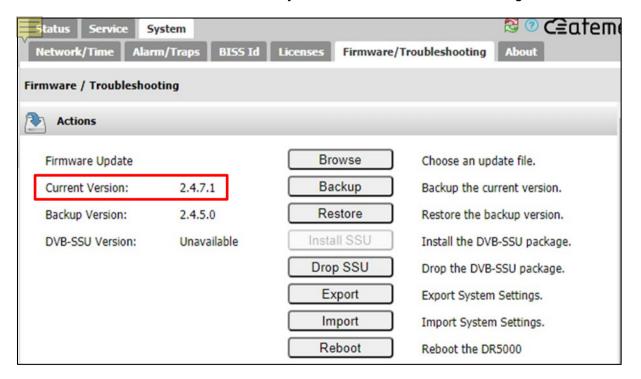
During the registration process, three screenshots are requested:



• **Serial Number:** found under *System > Licenses > License management* as shown in the following screenshot

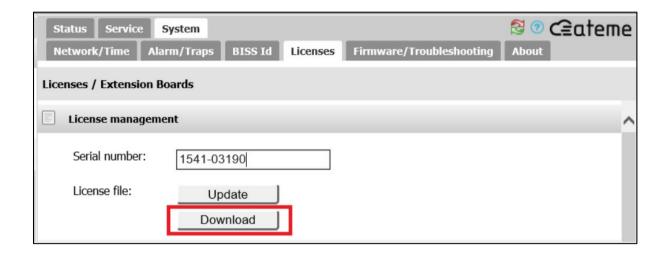


• Firmware version: found under System > Firmware / Troubleshooting



• Licence file: which can be downloaded from section *System > Licenses*, as shown in the following picture.

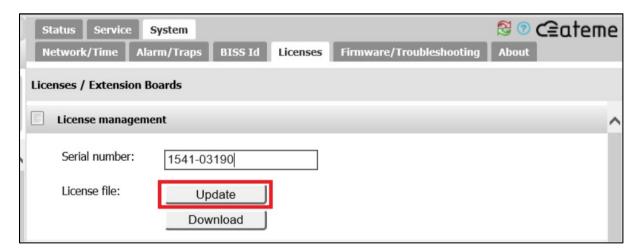




5 INSTALLATION OF BISS-CA LICENCE

For units sold by ES, a BISS-CA licence will be provided after registration of the decoder on www.eurovision.net

 The licence will be sent by e-mail to the contact defined by the broadcaster during the registration. It consists of a licence file that must be uploaded to the decoder under the System > Licenses tab, as shown in the following screenshot.

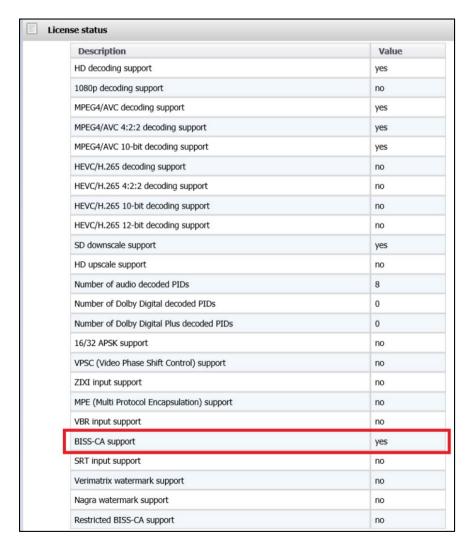


Click on "Update" to start the licence update process.



License Update			
This process will allow to update the current firmware in two steps: 1. Upload the update file to the device			
2. Apply the update and Reboot the device			
Note: The upload could take several minutes depending on file size and the speed of the connection.			
Proceed to update Cancel			

After the licence has been successfully installed and the decoder has rebooted, a new licence "BISS-CA support" will appear under *System > Licenses*, as shown in the following screenshot.

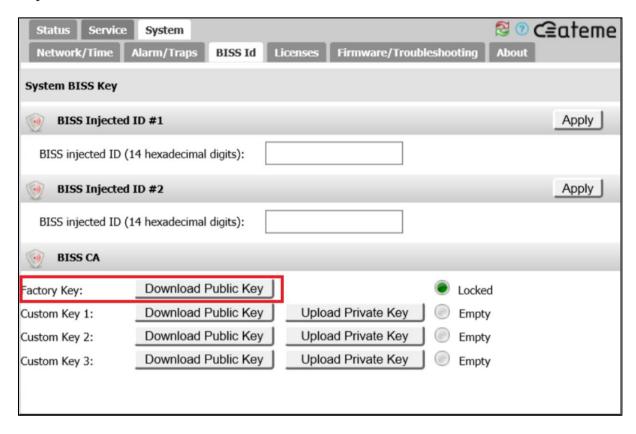


Note that the licences displayed in this screenshot are just an example. Licences in your own decoders may be different.



6 EXTRACTION OF PUBLIC KEY

Once the BISS-CA licence has been applied to the DR5000 decoder, the device's BISS-CA public key file can be downloaded from the tab **System > BISS Id > BISS CA > Factory Key**. This is shown in the screenshot below.



This file **must be uploaded to the ES registration portal**, as explained in the "Technical Guidelines for BISS-CA access" document.

7 CONTACTS

Please report any technical issues with the upgrade to the BISS-CA upgrade team BISS-CA@eurovision.net