# How to log in using Azbox?

------------------------------------------------

Fist of all, my public thanks to Azbox Team, to the EMMPlastro software's author (Mr. HSMPT) and for those who contributed for this to become possible.

------------------------------------------------

## 1) Needed Material:

Hardware:
- Azbox S710 or Azbox ST710
- Null Cable Modem (the same used to update the receiver)
 Software:
- EMMPlastro, Version 1.4 or superior.

## 2) EMMplastro cnfiguration:

### 2.1) To log in EMM-G

In the folder used to download the executable, open the file: "EMMPlastro.ini"
Set up the entry:
[EMMplastro]
Device=AZbox

...

[AZbox]
COM=1
In this case, the entry is COM1 and in Device we set up AZbox

### 2.2) To log in EMM-S and EMM-U

If we want to set up EMM-S and EMM-U directed to a specific group of cards or a particular card, we have to set up another extra file:
File "Keys.ini"
Initially it presents the following structure:
[CAM]
N=0

We have to edit it; this is the file where we place the serie number of cards that we want to log in EMM-S and U:
[CAM]
N=2
ID_1=23696969
ID_2=1BB96969

In this case, we prepare EMMPlastro to receive EMM-S directed to CAM ID 236969XX and 1BB969XX, and EMM-U directed to 23696969 and 1BB96969.

This is enough to log in EMM's directed to this group of cards and to the card in particular. However, if we want to go a little bit further and open these EMM-S and U, we have to set up more things in this same file.

For that, we'll need the card "dump" to be possible to fill in the following themes:
[23696969]

S_RSAM_hi=0102030405060708091011121314151617181920212223242526272829303132333435363738394041424344454647484950515253545556575859606162636566676869707172737475767778798081828384858687888990919293949596; EMM-S RSA key (providor 4101 or 4901)
S_IKEY_hi=010203040506070809101112131415; EMM-S IDEA key (providor 4101 or 4901)
S_RSAM_lo=0102030405060708091011121314151617181920212223242526272829303132333435363738394041424344454647484950515253545556575859606162636566676869707172737475767778798081828384858687888990919293949596; EMM-S RSA key (provider 4001 or 4801)
S_IKEY_lo=010203040506070809101112131415; EMM-S IDEA key (providor 4101 or 4901)
U_RSAM_hi=0102030405060708091011121314151617181920212223242526272829303132333435363738394041424344454647484950515253545556575859606162636566676869707172737475767778798081828384858687888990919293949596; EMM-U RSA key
U_IKEY_hi=010203040506070809101112131415; EMM-U IDEA key

Now we already have our EMMplastro setup. However, this document does not dispense the reading of "EMMplastro Readme.txt" that comes with the software.

## 3) Azbox Setup

Before opening EMMplastro, let's set up our Azbox:
First of all, we have to activate EMM-Debug; for that we go to Menu – (System Setup) – EMM Debug and modify this theme to ON.
Due to the COM speed, we also have to select for the card and respective group of cards we want to log in, the respective EMM-U and EMM-S.

For that, we go to: Menu –Installation – (Card Information) – Card Data – User Serial Number –

Here we introduce serial number for which we want to log (same that we've selected when we configured the "Keys.ini" file).
To finish, we only have to verify blockers setup on Card Data menu:
So, to login all EMM-G we should have configured blockers by the following way:
EMM-G=ON and Smart Blocker =OFF
To login EMM-S we have to activate the option EMM-S =ON
To login EMM-U we have to activate the option EMM-U=ON

**Attention:** This can have dramatic consequences for your cards. So, if you want to play with EMMplastro, first, remove your cards from the reader!

If you don't understand very well this Blockers running, I recommend you to read the instructions book/FAQ about this.

## 4) Loging  / EMMPlastro's use

After all these setup's and warnings, we are now prepared to achieve EMM's provider's logs that will be very important for our following study:

First, turn on the Null Modem Cable between computer and receiver.
We must certify ourselves that, in our AZBOX, the EMM-Debug option is ON; because it turns itself OFF each time we restart the receiver.
By this moment, we're already prepared to open EMMplastro.
This software is very intuitive. To make EMM's "growing up" we only have to put a tick above the option Active (top right side)
From now on, different EMM's are going to appear.


And it's ready… then is just login…and study!
That's all… good luck with your logs! Azboxian greetings!
Signed by: Group of young Azboxians