

Extreme IR Reader

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Reading data via IR

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Extreme All Keys Lost

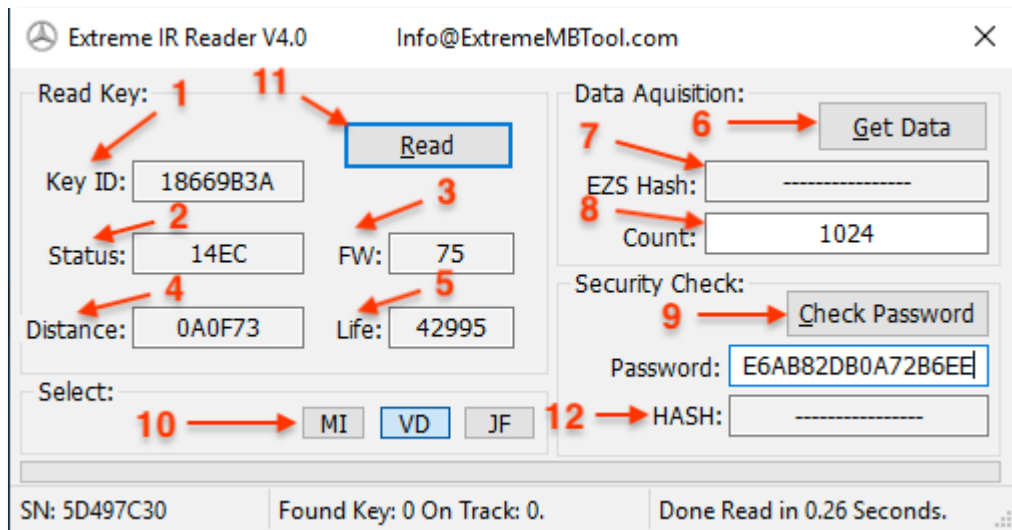
Software for
reading data from
EZS in All Keys
Lost situation

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Complete key
programming
procedure when a
working Key is
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Extreme IR Reader



1. Key ID

Displays Keys SSID

2. Status

Displays Status of the Key

3. FW

Displays the Firmware version of the Key

4. Distance

Displays Hex value corresponding to the Keys Life Counter

5. Life

Displays the Keys Life counter. Actual number Of remaining times key will be operational

6. Get Data Button

Read the data from a working key that is then used to calculate the Key/EZS Password

7. EZS Hash

Current Hash Stored inside EZS for the Key that we are currently working with

8. Count

Remaining data to collect during Data Acquisition.

9. Check Password Button

Check if the Password is a match with the Key inserted in IR Programmer

10. Select

MI- VD- JF
A choice of 3 different Random we use for Data acquisition.
(Development only)

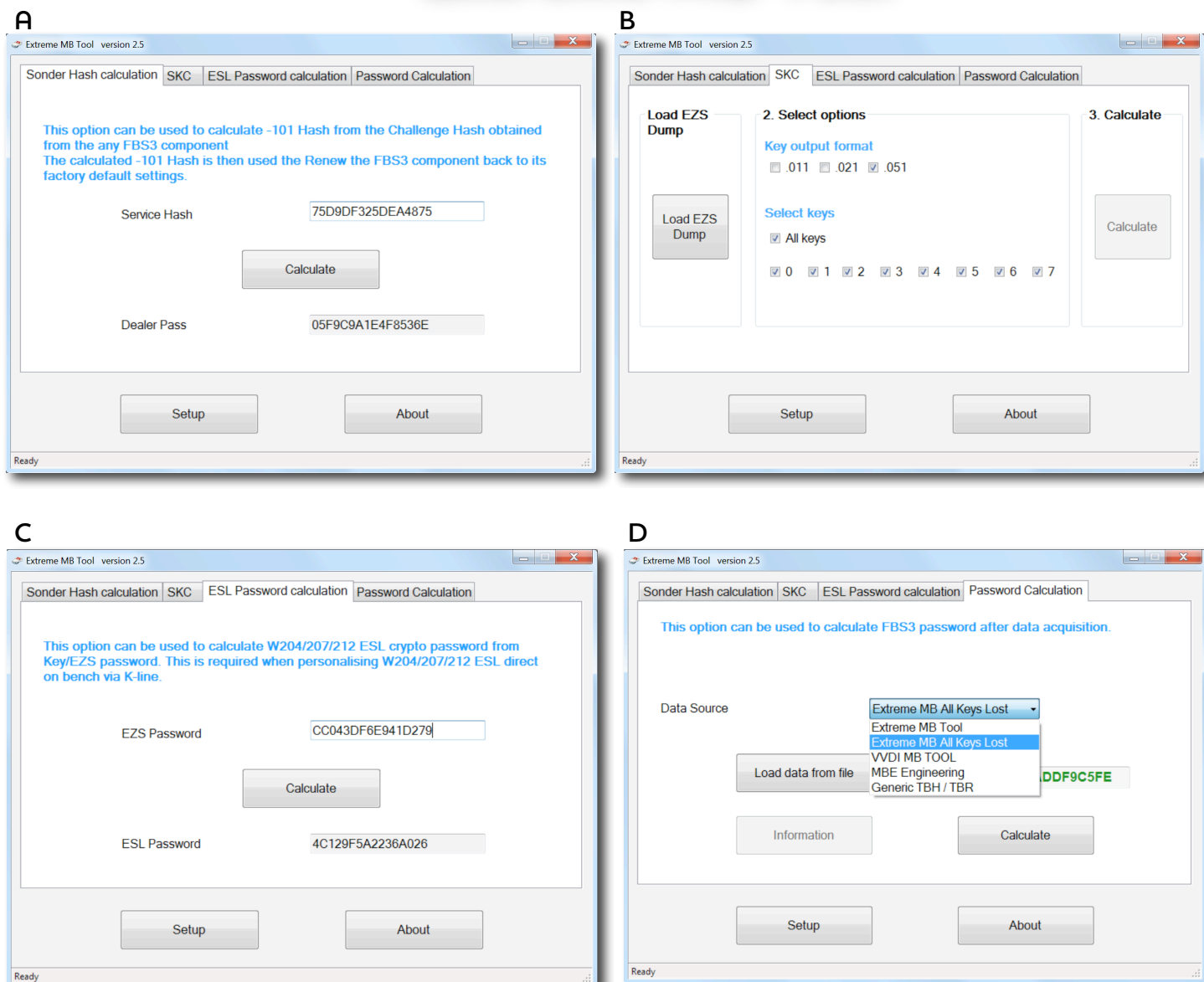
11. Read Data Button

Read info from Key such as SSID, Status, Life and Firmware

12. HASH

When the correct Password is entered in the Password field, then the "HASH" field will display the actual real decoded Hash being sent from the Key

Extreme MB Tool



A. Sonder Hash Calculation

A software option for calculating the "Dealer Password" for FBS3 components - EZS, ESL, 7G, ISM, ECU ...

C. ESL Password Calculation

A software option used for the calculation of the Crypto ESL Password from KEY/EZS Password. Suitable for models W204/207/212

B. SKC

A software option used to calculate the files to be written to the Keys from the data we read from the EZS.

D. Password Calculation

A Software option used to calculate the FBS3 password from a list of data collected from either the EZS or the Key.

Customers with a valid annual subscription can use the software to calculate passwords for FREE. There are no TOKENS. There are limits for using each of the functions, but these limits are more than enough even for professional workshops:

- 3 FREE daily calculations for Sonderhash calculations (Dealer Hash)
- 3 FREE daily calculations for ESL Password Calculation
- 3 FREE daily calculations for calculation of key files from EZS dump
- 3 FREE daily calculations for EZS Password Calculation

Extreme EZS Reader

Extreme EZS Reader V4.0 Info@ExtremeMBTool.com

Hash: 1 2

Hash	Used	Block
H0: 6743AFBF227E6072	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H1: DF26813E2FE4540F	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H2: 5D0E3B2F332B5B68	<input type="checkbox"/>	<input type="checkbox"/>
H3: 3158C255185120D8	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H4: 615B8D6DF58F1F00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H5: 54B1F5AE61C4C95F	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H6: 803ED840A548F17E	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H7: 1D4CEB7E138AEFF1	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Security: 3

SSID: 18669B3A

Sonder: 3BBF7693482C115A

Password: 0000000000000000

Serial Nr: 3032575091806118

☐ TypeII **Ezs Read**

Ezs Status 5 6

Initialized ☒ TP Removed ☒

Personalized ☒ Activated ☒

Neutralized ☐ Spare ☐

Last Key: 0 Prev Key: X

W204/212 ESL/EMU: 10

Personalize: ESL ☐ EMU ☐

ReNew EMU ☐ Esl Status ☐

DealerPass: _____

DoIt

EZS Options: 7

Personalize EZS: [Series ☒ Spare ☐]

EZS ReNew ☐ Check Password ☐

Personalize EZS **Load FBS3 Dump**

SN: 5D497C30 8 9 Done Read in 18.70s. 11

Extreme EZS Reader V4.0 Info@ExtremeMBTool.com

Hash: 1 2

Hash	Used	Block
H0: 6743AFBF227E6072	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H1: DF26813E2FE4540F	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H2: 5D0E3B2F332B5B68	<input type="checkbox"/>	<input type="checkbox"/>
H3: 3158C255185120D8	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H4: 615B8D6DF58F1F00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H5: 54B1F5AE61C4C95F	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H6: 803ED840A548F17E	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H7: 1D4CEB7E138AEFF1	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Security: 3

SSID: 18669B3A

Sonder: 3BBF7693482C115A

Password: E6AB82DB0A72B6EE

Serial Nr: 3032575091806118

☐ TypeII **Ezs Read**

Ezs Status

Initialized ☒ TP Removed ☒

Personalized ☒ Activated ☒

Neutralized ☐ Spare ☐

Last Key: 0 Prev Key: X

W204/212 ESL/EMU:

Personalize: ESL ☒ EMU ☐

ReNew EMU ☐ Esl Status ☐

DealerPass: 9F1BB003AF63C457

Personalize ESL

EZS Options:

Personalize EZS: [Series ☒ Spare ☐]

EZS ReNew ☐ Check Password ☐

Personalize EZS **Load FBS3 Dump**

SN: 5D497C30 Done Read in 49.05s.

ESL option:

This option will personalize a "Not Activated" OEM ESL or any after market Emulator that follows the standard ESL Personalization protocol.

Requirements: The field "Password" and the field "Dealer Pass" ** must be filled to use this function.

NOTE: EZS does not get renewed during this function. Here we perform exactly the same function as the dealers Blue Workshop key

** You can use our Extreme MB Tool Software to calculate this Password efficiently

Extreme MB Tool version 2019.3.22.1331

Sonder Hash calculation SKC ESL Password calculation Password Calculation

This option can be used to calculate -101 Hash from the Challenge Hash obtained from any FBS3 component
The calculated -101 Hash is then used to Renew the FBS3 component back to its factory default settings.

Service Hash: 3BBF7693482C115A

Calculate

Dealer Pass: 9F1BB003AF63C457

Setup **About**

Ready

Extreme EZS Reader V4.0 Info@ExtremeMBTool.com

Hash: 1 2

Hash	Used	Block
H0: 6743AFBF227E6072	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H1: DF26813E2FE4540F	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H2: 5D0E3B2F332B5B68	<input type="checkbox"/>	<input type="checkbox"/>
H3: 3158C255185120D8	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H4: 615B8D6DF58F1F00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H5: 54B1F5AE61C4C95F	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H6: 803ED840A548F17E	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H7: 1D4CEB7E138AEFF1	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Security: 3

SSID: 18669B3A

Sonder: 3BBF7693482C115A

Password: E6AB82DB0A72B6EE

Serial Nr: 3032575091806118

☐ TypeII **Ezs Read**

Ezs Status

Initialized ☒ TP Removed ☒

Personalized ☒ Activated ☒

Neutralized ☐ Spare ☐

Last Key: 0 Prev Key: X

W204/212 ESL/EMU:

Personalize: ESL ☐ **EMU ☒**

ReNew EMU ☐ Esl Status ☐

ESL Pass: BCC126739BA5A57C

Personalize EMU

EZS Options:

Personalize EZS: [Series ☒ Spare ☐]

EZS ReNew ☐ Check Password ☐

Personalize EZS **Load FBS3 Dump**

SN: 5D497C30 Done Read in 49.05s.

EMU option:

This option will personalize one of our Novel ESL Emulators. This is the fastest option, as it only requires the ESL Password.

Requirements: The field "ESL Pass" ** must be filled to use this function.

NOTE: EZS does not get renewed during this function. Here we use the EZS as a gateway to transfer the ESL Password to our emulator.

** You can use our Extreme MB Tool Software to calculate this Password efficiently

Extreme MB Tool version 2019.3.22.1331

Sonder Hash calculation SKC ESL Password calculation Password Calculation

This option can be used to calculate W204/207/212 ESL crypto password from Key/EZS password. This is required when personalising W204/207/212 ESL direct on bench via K-line.

EZS Password: E6AB82DB0A72B6EE

Calculate

ESL Password: BCC126739BA5A57C

Setup **About**

Ready

1. Hash

From H0 to H7 are the actual current key hashes for each Keys position

4. Type II

For some different EZS types in order to read the data we have to select this option – this option is only needed for later NEC type EZS such as W166, W176, W246, W117

5. EZS Status

Initialized – EZS are initialized in factory

Personalized – EZS has been

Personalized, meaning that FBS Data has been written inside (Hashes, SSID, Password...)

Neutralized – EZS has been Renewed sometime in the past using some tool. Usually this is the case when an EZS has been taken from another vehicle, Renewed, then re-adapted to match the current vehicle.

TP Removed – This is Transport Protection. TP must be removed before personalization process begins

Activated – This means EZS is Activated. When an EZS is "Activated" it can no longer be personalized

Spare – This tells us that the EZS is a "Spare Part" EZS

"NOTE" There are 2 different types of EZS. 1.Series and 2.Spare. Series EZS are the original EZS that are installed during time of production inside Factory. Spare EZS are Replacement/After-sales EZS

Last Key – The number indicates the last Keys Position Used

Prev Key – The number indicates the previous Keys Position Used

7. EZS Options

Personalize EZS Series – Used to Personalize a Not Activated Neutralized EZS that was originally installed to a vehicle during Production inside Factory

Personalize EZS Spare – Used to Personalize a Not Activated Neutralized Replacement EZS/After-sales EZS

EZS Renew –Used to Renew an EZS. This function resets the EZS to its default values, a common reason to use this function is when you need to install a used EZS into another vehicle, after the EZS is renewed the Vin is unlocked and can be re-written, also the current mileage stored inside the used EZS will get reset to zero when renewed. The "Activated" status will also get reset to a "Not Activated" state, meaning that it is now again possible to "Personalize" the used EZS with the personalization data of the vehicle that you are intending to install the used EZS into. To use this function successfully it is necessary to insert the EZS Password and the Dealer Password into the fields provided within the Software. You can use our Extreme MB Tool Software to calculate these Passwords efficiently.

Check Password – Used to verify if the Password inside the "Password" field is in fact a true match with the EZS

8. Personalize EZS Button

We use this Button to execute the option that has been selected within the "EZS Options" section

9. Load FBS3 Dump

We use this Button to load an FBS data dump that was read previously using EZS reader software

10. W204/212 ESL/EMU

Personalize ESL – This option is used to Personalize a real NEC type ESL or it can also be used to personalize any W204/212 ESL Emulator that supports the standard W204/212 ESL Personalization protocol. To successfully use this function you need to insert the "EZS Password" and also the "Dealer password" into the fields provided within the software. You can use our Extreme MB tool software to calculate these Passwords efficiently

Personalize EMU – This option is used to Personalize our Emulator. To successfully use this function you will need only to insert the "ESL password" into the field provided within the software. You can use our Extreme MB tool software to calculate this Password efficiently

ReNew EMU - With our Emulator this option can be used to Renew Emulator and set it back to the default "OLD mode"

EsL Status - Reads the Status of a real ESL via the EZS IR. Useful option to determine if a Real NEC ESL is 0xAA Blocked

11. DoIt

We use this Button to execute the option that has been selected within the "W204/212 ESL/EMU" section

2. Used or Block positions

"Used" is occupied key position and "Block" is a blocked key position, also known as "Disabled Key"

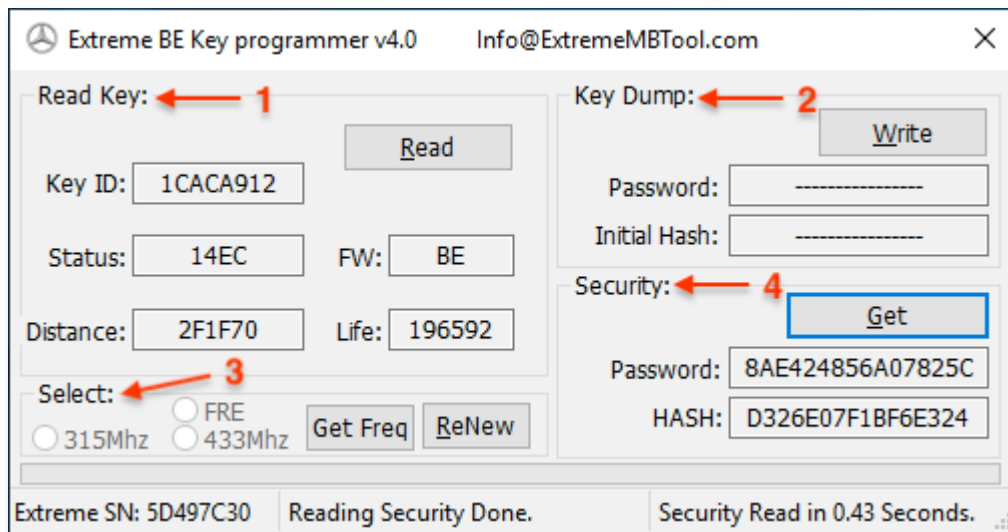
6. Ezs Read Button

We use this Button to "Read EZS" Before you press this button you should enter (or paste) the EZS Password into the "Password" field, When working on some EZS you will be prompted by the software to Re-insert IR KeyTool to EZS to complete the collection of data. Please follow the on screen instructions from Software

3. Security

This field displays the SSID, Sonder and Serial number of the EZS. Also it has a field to paste the "Password"

Extreme BE Key Programmer



1. Read Key:

By pressing the "Read" button we can read various information from the BE, EB, EA, A1 and other after market keys, such as the Key ID, Status, Firmware, Distance and remaining Life of the key. User can also read full Eeprom from these after market keys (Including Password)

3. Select

By pressing the button "ReNew" we can erase all the data inside the BE Keys Eeprom and give it a Renewed status "21DF". Some after market keys will get status "0000" after Renew, an example of this is A1 Keys. These 21DF and 0000 statuses mean that the key is now ready to be programmed via IR with Programmer.

For the X-Horse BE Keys we can also read and change the frequency of the remote control. We do this by pressing the button "Get Freq". This will display the current frequency mode of the Key. After this the user will have the option to "Set Freq". User can choose between the 3 different modes - FRE (Resistor controlled) 315Mhz and 433Mhz

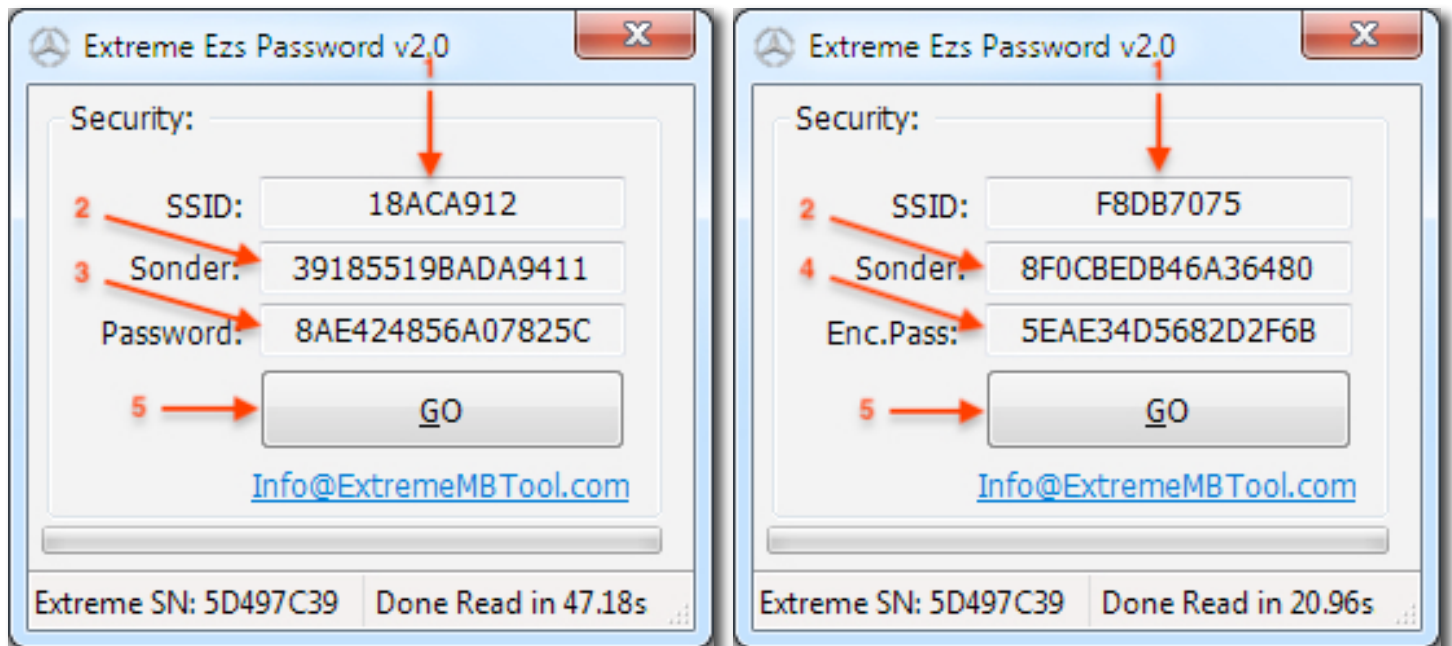
2. Key Dump

This is where you will load the Key file to be written to the Key. We simply press the button "Write" and the software will ask you to select a file, at this point choose the Key file that you wish to use, click open and the software will ask you if you wish to write the Key in Crypto Write mode. We recommend not to use Crypto Write when working with aftermarket Keys, as not all after market Keys support this function. However, Crypto Write mode must be selected when working with OEM renewed NEC Keys with status 21DF. When user selects "No Crypto Write" the software will write the aftermarket Key Eeprom using normal block write (Full Eeprom will be written). After writing the Key dump to the Key the software will ask you if you wish to "Activate Key". This option is here because when working with old HC05 EZS sometimes the after market keys will fail to activate in the EZS automatically. It is good practice to use the "Activate Key" option when preparing an after market key for one of these old HC05 type EZS.

4. Security

By pressing the button "Get" you can read the Password and the Current Hash direct from the after market keys such as the BE, EB, EA, A1 Keys all via IR.

Extreme EZS Password reader



1. SSID

This field Displays the SSID of the EZS

3. Password

Password: = This is the actual "True" EZS Password calculated and checked by our software, because we check the Password before it is displayed inside this field you can be 100% sure that it is a match with the EZS.

4. Enc. Pass

Enc.Pass: = Encrypted Password. When we see this Enc. Pass, this means that Password reading via IR is not supported on this EZS. The EZS has returned an encrypted response, we can only use this encrypted response to verify the true password if it is known.

2. Sonder

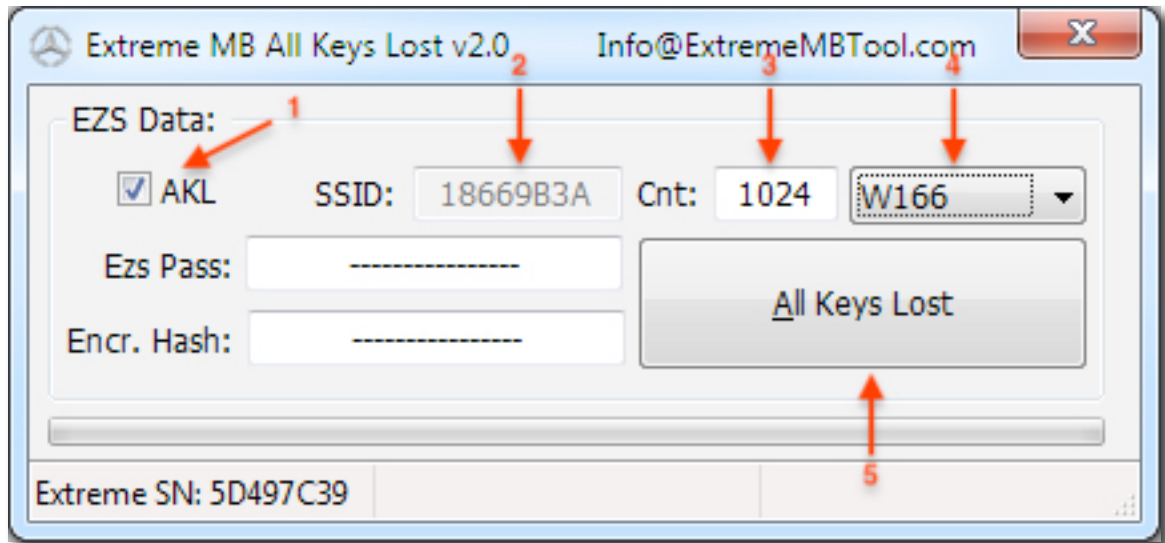
This field displays the EZS Sonder Hash. Sonder Hash can be called different names depending on the tool manufacturer. It is good to understand that Sonder/Special and Service Hash are all same, only different terminology. Same goes for Dealer Password and Erase Password. From the Sonder you can calculate the Dealer Password needed to Renew EZS. You can calculate the "Dealer Password" using the Extreme MB tool software.

5. Go Button

Pressing the "GO" button will start the process of reading the EZS Password Via the IR Portal. This can take up to 3 minutes to complete. HC12 types are usually finished within 50 seconds, whereas HC908 types can take up to 3 minutes.

Read Password direct from EZS via IR. Support Old Motorola EZS with MCU's HC908 and HC12 inside EG: Some W203, W463, W209, W211, W215. Not support HC05, ST12 or ZGW types. Here is a list of tested Part Numbers: 2035450108, 2035450308, 2035450508, 2035450608, 2095450508, 2115450608, 2115451008, 2155450208, 2155450408

Extreme All Keys Lost



1. AKL

When you select this option, it means that you will work with the "All Keys Lost" function within the software.

2. SSID

This field displays the SSID of the EZS

3. Counter

Remaining data to collect during Data Acquisition.

4. Drop down Menu

Here we select the Car model for All Keys Lost procedure. Supported currently are the following models with FBS3 -> W176 -> A-Class (2012-2014) W246 -> B-Class (2012-2014) W166 -> M/GLE-Class (2012-2014) W117 -> CLA-Class (2013-2014) W212 -> E-Class (2009-2013); W218 -> CLS - Class (2011-2014) C197 -> SLS-Class (2010-2014)

5. All Keys Lost Button

When you select the Checkbox "AKL" the text on this button is changed to "All Keys Lost" We click on it to begin the AKL procedure

Further clarification: This AKL procedure involves reading data direct from the EZS via the IR Portal. We collect 1024 individual data from the EZS within 6 minutes (older W212 EZS require 14 minutes) During the collection of this Data you will see the counter decrement from 1024 -> 0. When the data has been collected you will be asked to save a .akl file. This file can then be loaded to our server using the Extreme MB Tool Software and selecting "Password Calculation / Extreme MB All Keys Lost" This process would be the preferred method when working with Newer cars such as the W166, 246 and 176 because the time required to create a file is only 6 minutes and it does not effect the Key / EZS life at all. Also, using this method there are no risks of loosing sync with other control units / ESL as this sometimes can happen on these models when reading too many hashes from a working BGA key. This option to read data direct from the EZS via IR is a much safer option on these models.

Extreme All Keys Lost

The screenshot shows the 'Extreme MB All Keys Lost v2.0' window. The 'EZS Data' section contains a checkbox for 'AKL', an 'SSID' field, a 'Cnt' field set to '1024', and a dropdown menu set to 'W166'. The 'Ezs Pass' field contains the value '591A2222F43625B2'. The 'Erase Hash' field is empty. A blue button labeled 'Check Password' is highlighted with a red dashed border. A red arrow labeled '6' points to the 'Ezs Pass' field, and another red arrow labeled '7' points to the 'Check Password' button. The 'Extreme SN' is displayed as '5D497C39'.

The screenshot shows the same 'Extreme MB All Keys Lost v2.0' window. The 'Ezs Pass' field still contains '591A2222F43625B2'. The 'Erase Hash' field now contains the value 'E162C1BDC4760F7C'. The blue button is now labeled 'ReNew EZS' and is highlighted with a red dashed border. A red arrow labeled '8' points to the 'Erase Hash' field, and another red arrow labeled '9' points to the 'ReNew EZS' button. The 'Extreme SN' remains '5D497C39'.

6. Ezs Pass:

We can use this field to enter a Password to check if it is in fact a match with EZS. This Password can be calculated using the Extreme MB tool software.

8. Erase Hash

This is the field where we can enter the calculated Dealer Password if we want to "Renew the EZS". We can calculate this Dealer Password using the Extreme MB tool software. When the software detects that there is a Dealer Password entered into the "Erase Hash" field and it also detects that an EZS Password is present inside the "EZS Pass" field, then we will see that the text on the button becomes "ReNew EZS". This button can now be used to "Renew EZS".

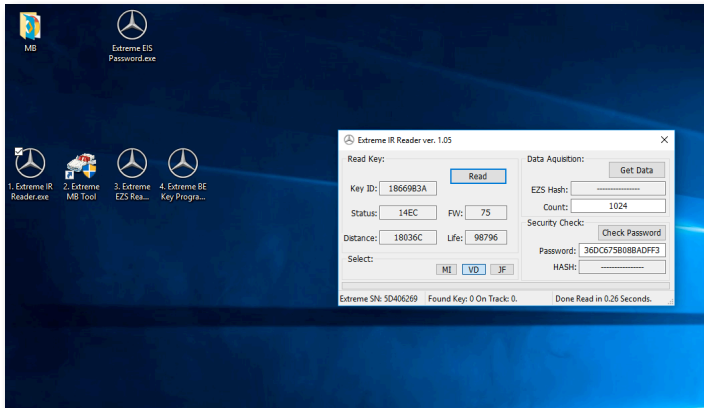
7. Check Password Button

When a password is entered into the "EZS Pass" field, the text on the button becomes "Check Password". If you press the "Check Password" button the software will check if the password is a match with EZS.

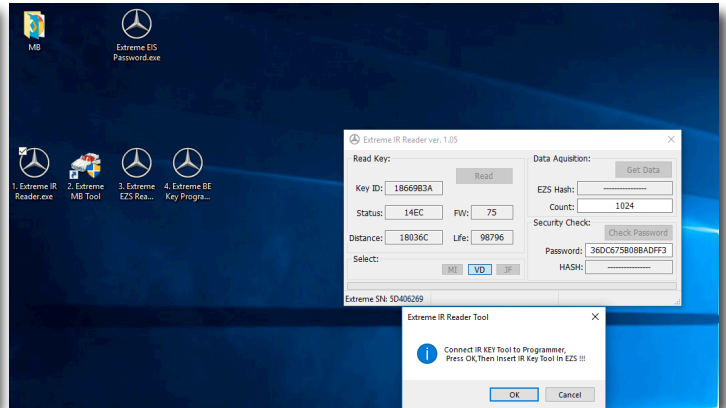
9. ReNew EZS Button

You use this button to "ReNew the EZS".

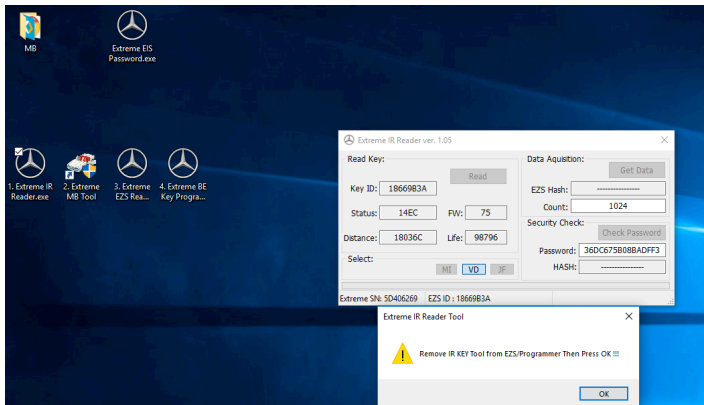
Complete Key programming procedure when working key is available



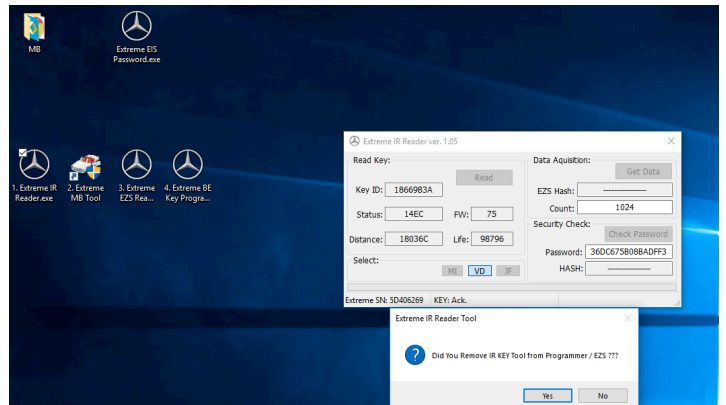
The first thing you will need to use is our software that reads data from the working key - "Extreme IR Reader". Open this software and press the "Read" button on user interface.



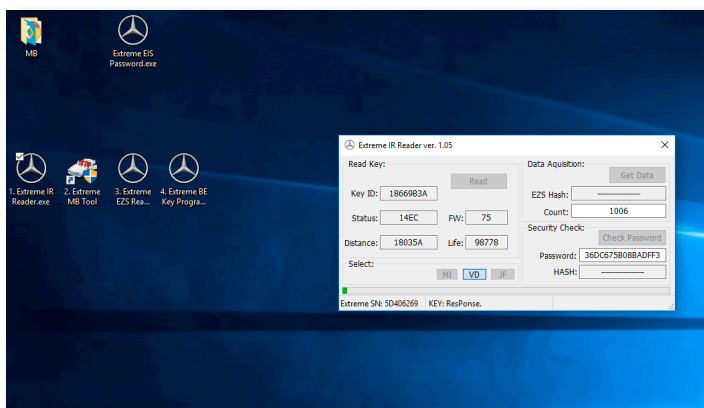
You must have IR Key Tool also connected to the IR Programmer. The software will ask you to insert IR Key Tool into the EZS, here we make a preliminary check to ensure the Key is a match with the EZS. If all is ok, we move onto reading the data from the working Key.



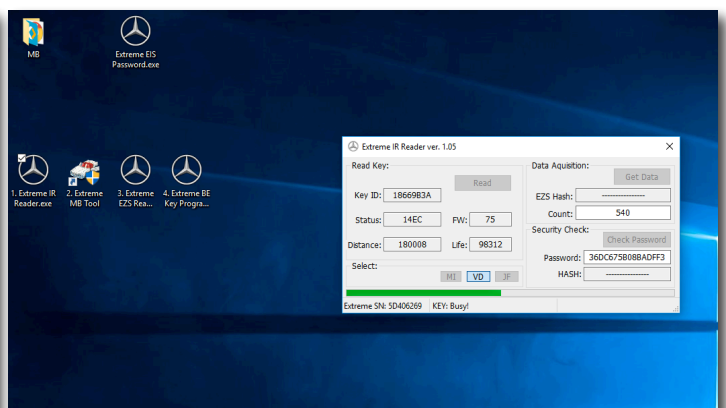
The procedure is very simple. Just follow the steps and execute exactly the explanations that software shows you



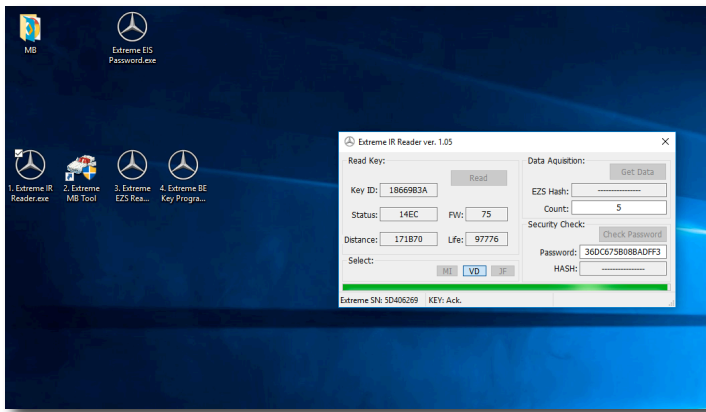
Just follow all steps



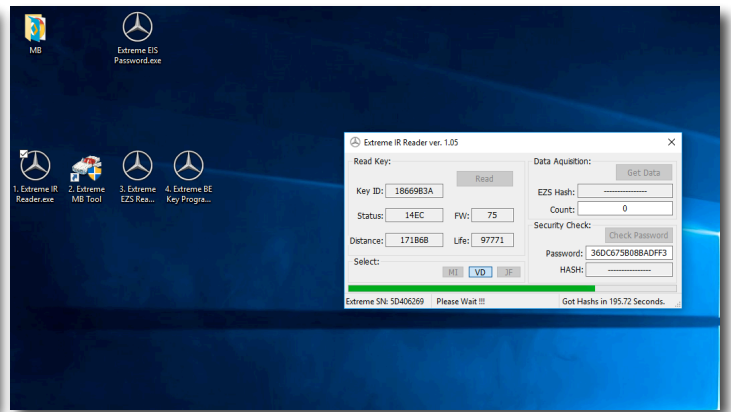
Above screenshot shows the process of reading data from the working key. You will notice the value displayed inside the "Count" field decrementing as we continue to read data from the working Key.



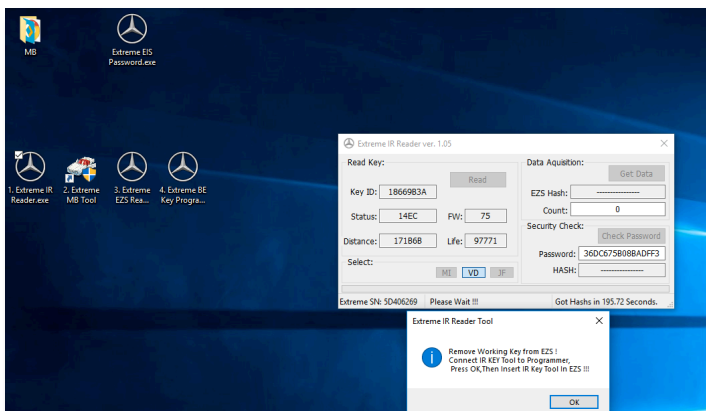
We recommend not to interfere with the IR Programmer Hardware or the Software while reading data from the working Key, please allow process to finish uninterrupted. When working with BGA Keys the Reading of the data from working key requires ~ 3 minutes. NEC keys can require ~ 8 minutes to get data.



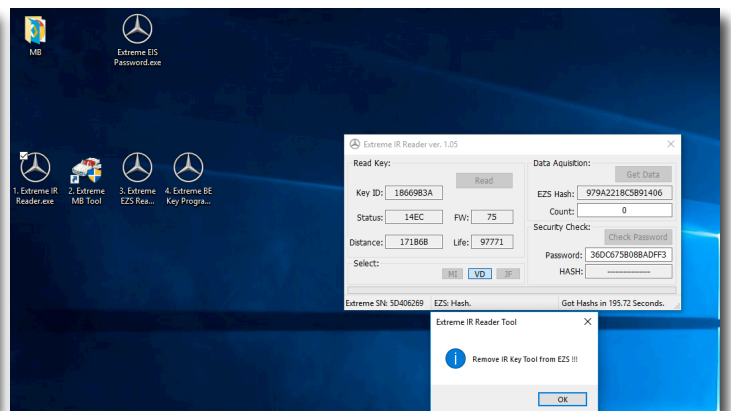
Final phase of reading the data



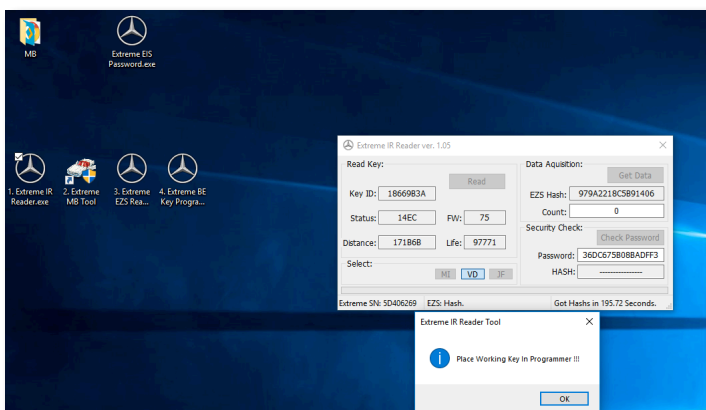
Remove the working key from the programmer and place it inside EZS for 30 seconds



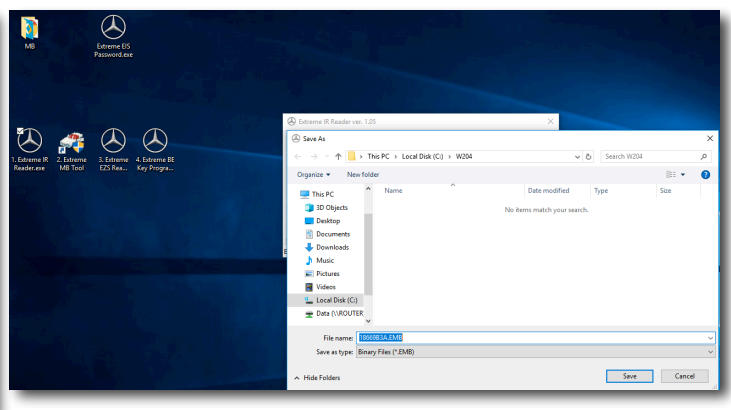
Follow the next step



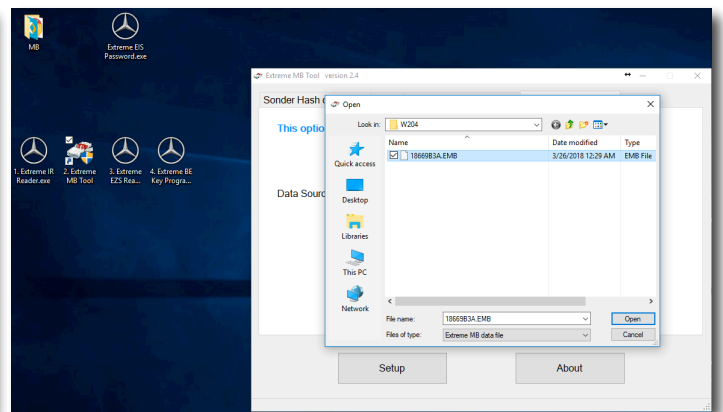
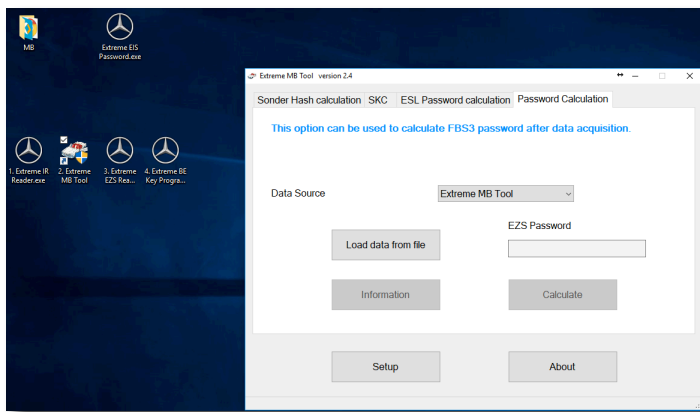
Follow the next step



Completing the data reading from working Key procedure

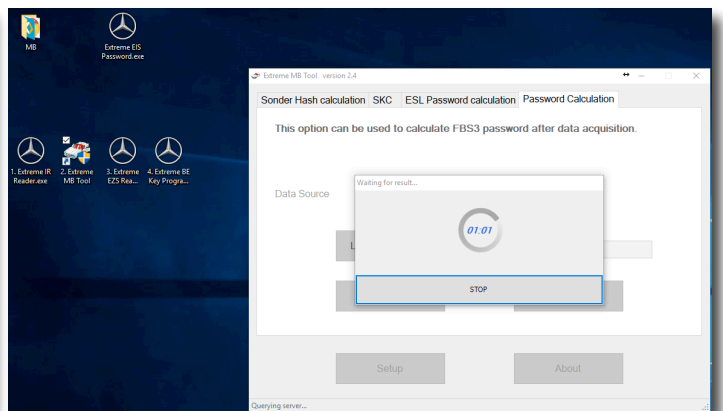
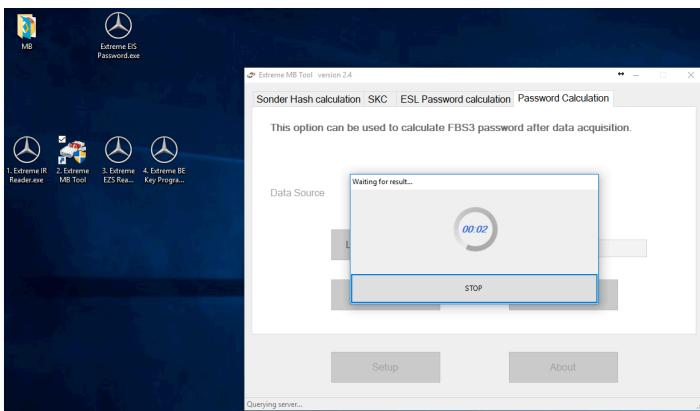


The Final step of reading the data from a working key will create a file containing the data needed to calculate the Keys Password. The default file name consists of the SSID of the Key and it will be saved with the extension .emb



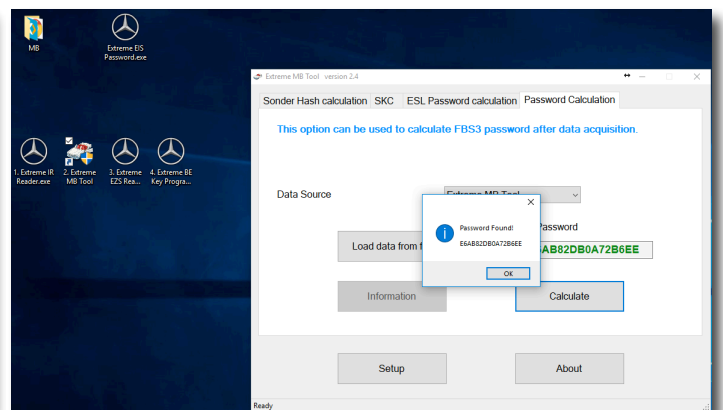
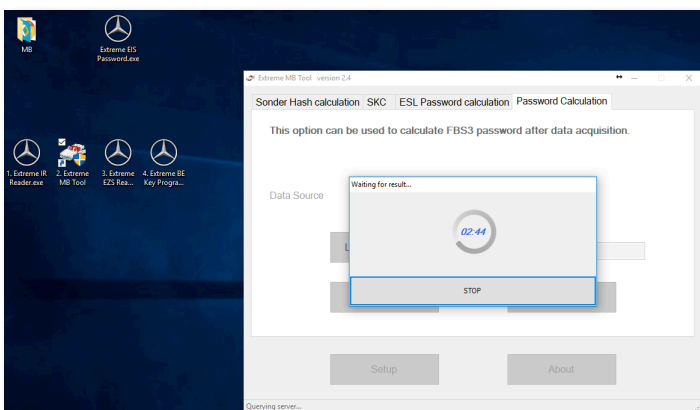
The next step is to search for the password from the created file. You have to use our "Extreme MB Tool" software. Choose from the Tab at the top of user interface – "Password Calculation" and from Data Source menu you need to choose "Extreme MB tool"

Load the file and press "Calculate"

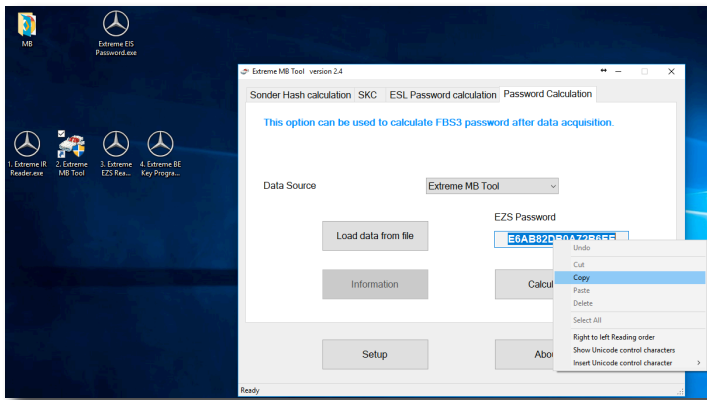


The password counting time is about 3 minutes

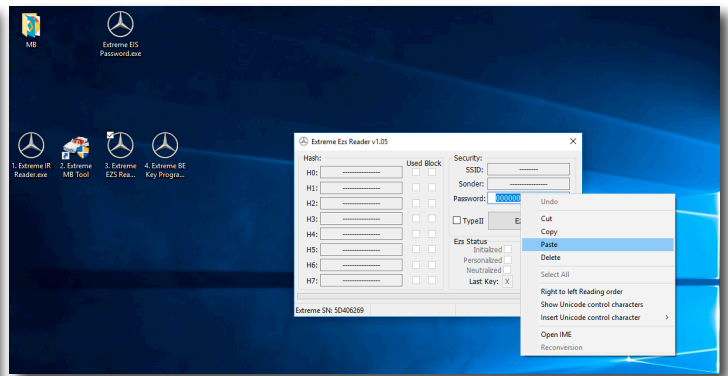
You must have an Internet connection



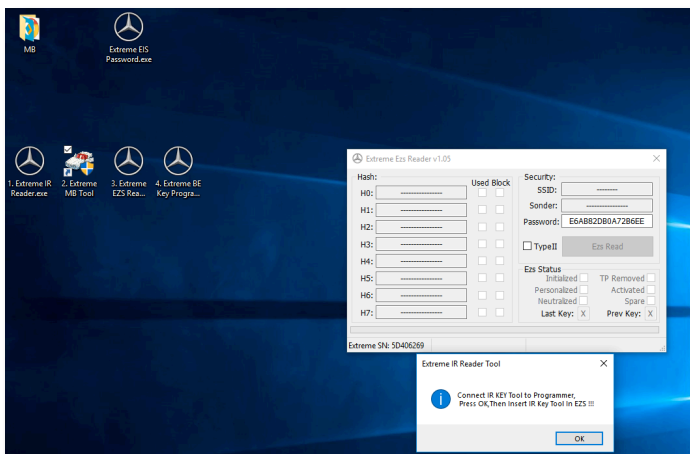
The password was calculated successfully



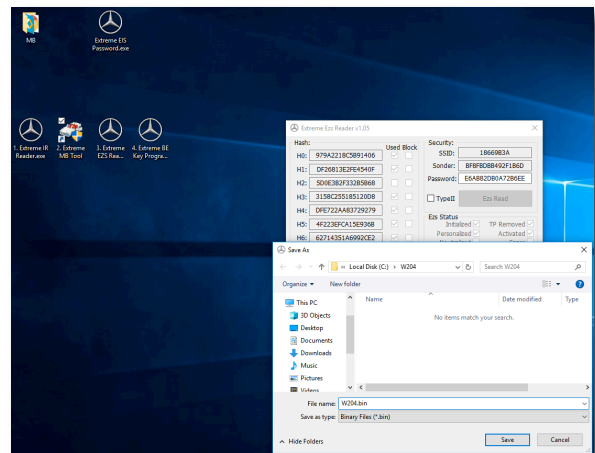
Copy the password to the clipboard



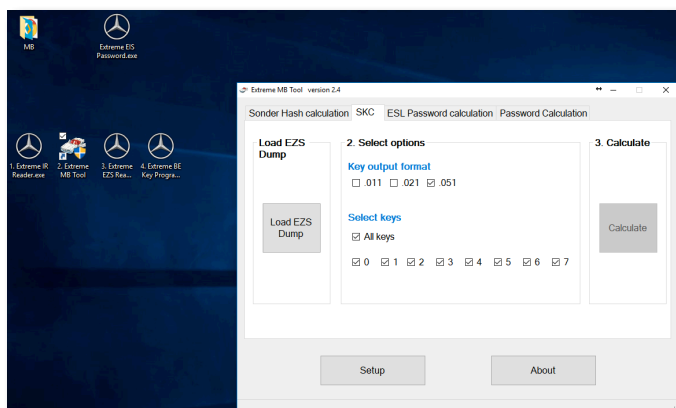
The next step is to read the EZS data via the infrared port on EZS. This will be done using our "Extreme EZS Reader" software. Before you start reading, you must paste the calculated Password from clipboard into the Password field of the Extreme EZS Reader user interface.



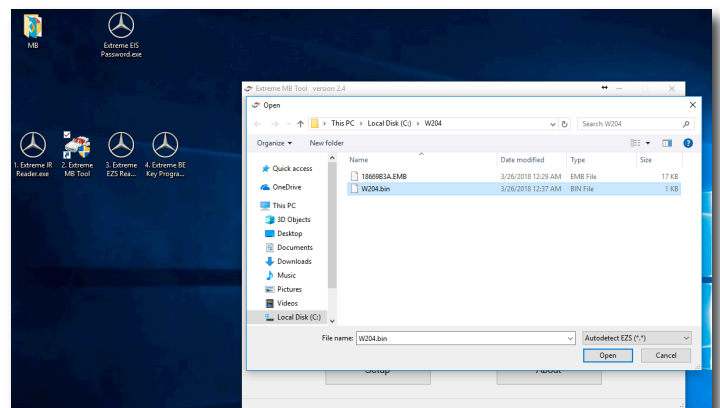
Press "Ezs Read" button and follow the steps outlined in the software



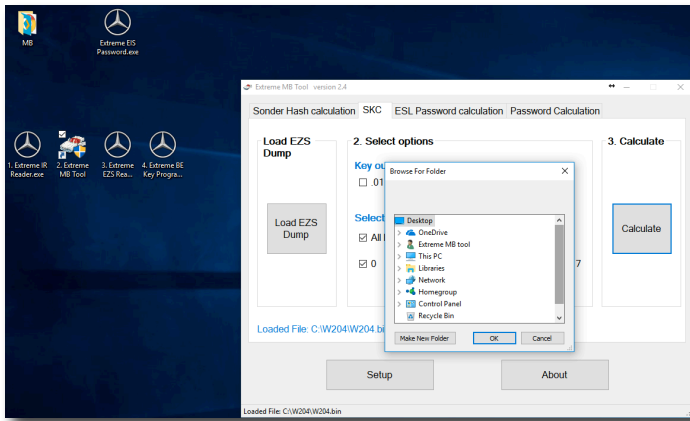
Extreme EZS Reader software will create a dump that is ready to be used with SKC to generate the key files. EZS file will be saved with the extension .ezs



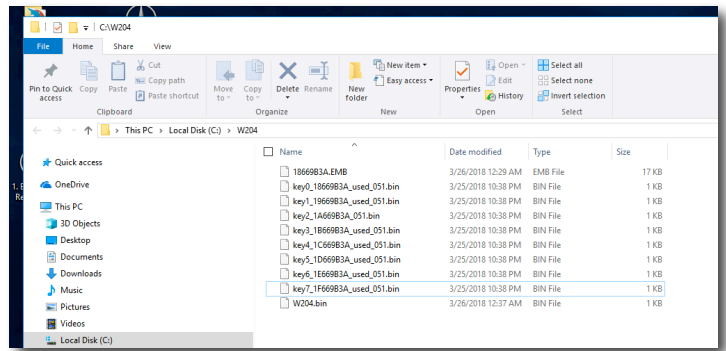
Open Extreme MB Tool software and select SKC from the Tab at the top of user interface. Then choose which keys you would like calculated, or by default the software will choose "All Keys" for you. Also by default we select the "Key Output Format" to be "051". We do this because this is the most popular format, and this is the format we use when working with BE Keys.



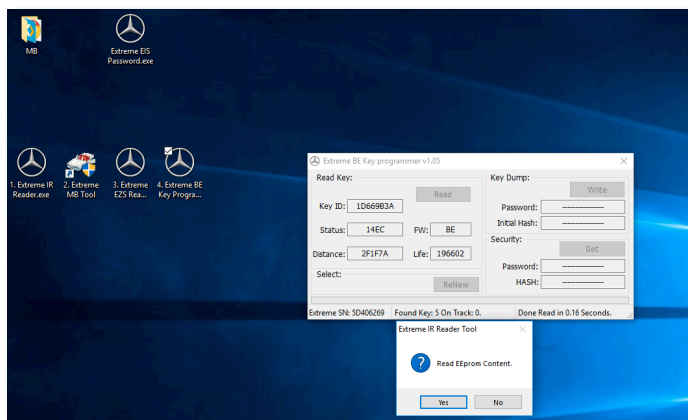
Now press the button "Load EZS Dump" and select the .ezs file that you read earlier from the EZS via the infrared port using our Extreme EZS Reader software.



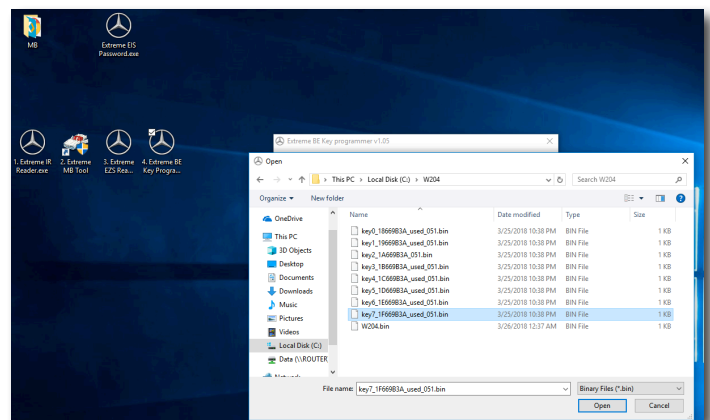
Select the folder where you want the keys files to be automatically saved



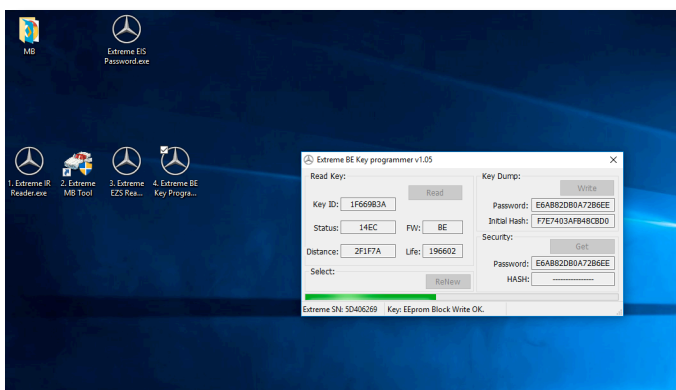
After a few seconds the key files are ready. Keys will also be labeled "Used" if the key position has already been used sometime previously



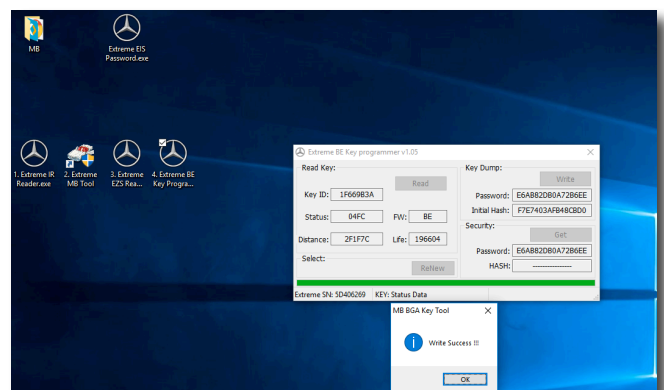
With "Extreme BE Key programmer" software you can very easily write any of the generated Key files to a BE Key via infrared. You can also make a "BE" key – renew (21DF Status)



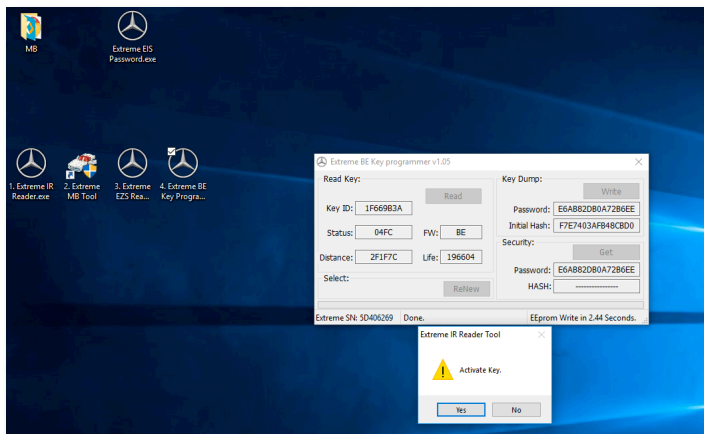
To write a Key file to a BE Key we need to press the "Write" Button on Extreme BE Key Programmer software. Then select the Key file that corresponds with the key position that you wish to use.



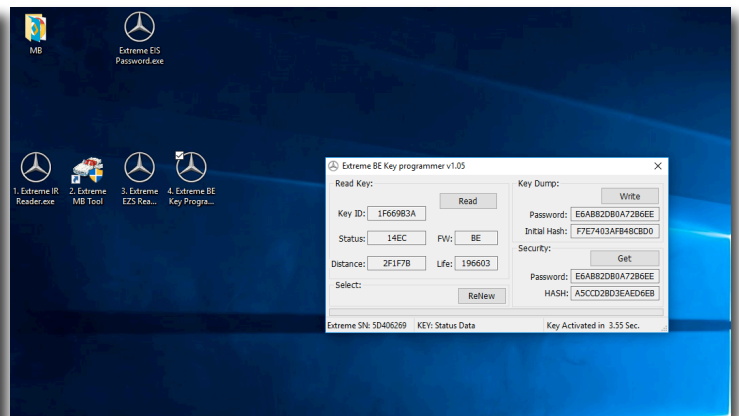
Writing Key file data into the BE key



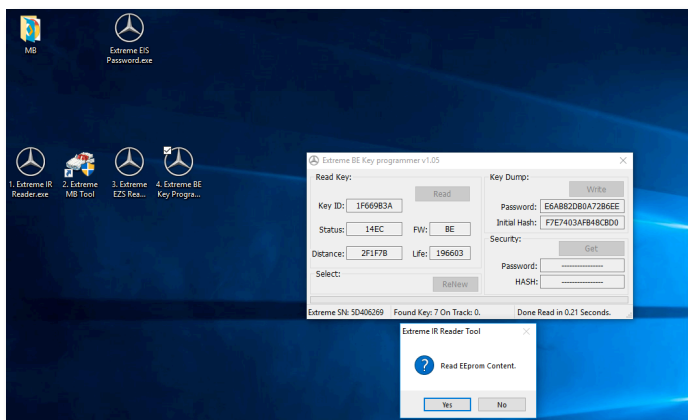
Successful writing of the Key file data into BE key



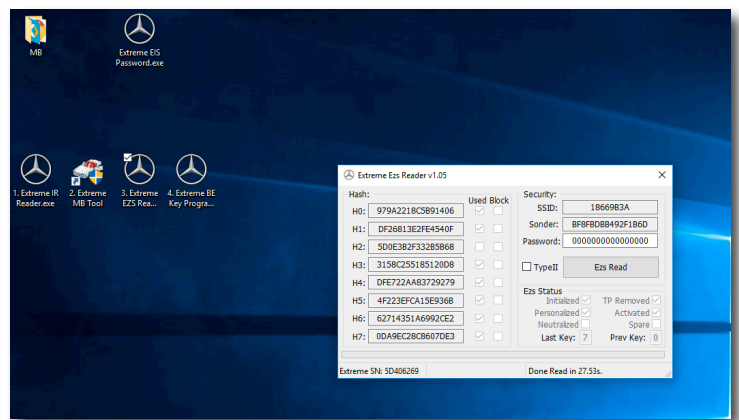
After successful data programming in the key, you have an option to activate the BE Key. This option is here because some older EZS such as HC705 types do not always activate BE keys after successful authentication. When working with these older EZS it is good practice to use this function within software to activate BE key after writing



If you decide to use the "Activate Key" function within Software then after successful Key activation you will see a message bottom right on User interface displaying "Key Activated"



If you wish to read the Key again after Programming it, just use the "Read" button and you will see all the info relating to the BE Key displayed, including the Keys SSID, it can be clearly seen here as the same SSID as the Key 7 file we programmed into it earlier. Also the Extreme BE Key Programmer Software gives you the option to read the full Key Dump from the BE Key. This can be seen on the screenshot above. It can be useful should you wish to verify that the key dump you have written to the BE Key is the same as the one you had intended to write.



After using the programmed Key 7 on the EZS you can read again the EZS with "Extreme EZS Reader" and you will see that the software will display Key Position 7 now as being a "Used" Position. And also, you will notice that now the software displays that Key 7 was the last key used on this EZS.

NOTE: When working with cars with 7G transmission, it can happen that 7G transmission requires a little extra time to sync with the other FBS3 components on the vehicle. You will know that this has happened if you can start the car ok, but the car will not select any gear. When this happens, all that is required is to start the car and allow it to idle for few minutes. This will allow the MCU inside the 7G control unit to "Catch up" with the other control units

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