Document reference : Overview_1.0

English version
Software version : DDT2000 v2.5.0.0
Update : JUNE 2008

DDT2000 functionalities

SOMMAIRE

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1. Installation / Uninstallation

1.2 Spot mode

The installation is done by subscription to the "Catalogue des produits et services informatiques". For every user connected to the Renault intranet and who is owning a 'corp'(ipn) account, the license is automatically installed after DDT2000 installation and launching.
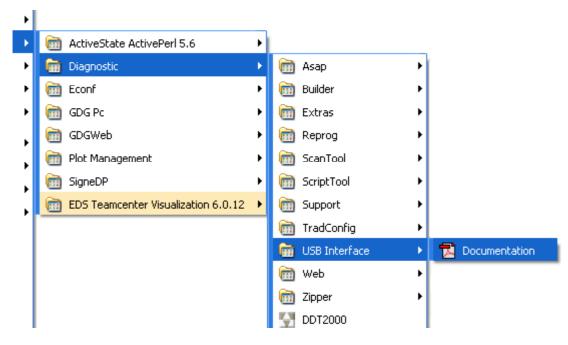
For the users unable to be connected to the network, it is possible to obtain the license by e-mail (copy the key generated by DDT2000 for the computer and the active account and send it by e-mail to list.DDT2000-Support@renault.com)

1.3 Not spot mode

You have to get the installation kit by the way of the website: **http://www-diag.intra.renault.fr/** . Verify that there is no version of DDT2000 already installed. This procedure is only available for not spot computers

1.4 USB-DIAG (probe) installation

For the SPOT computers use the "USB interface" menu via the "Start" menu, click on the "AddDevice" file and follow the procedure.

Installation of the USB interfaces : Menu Start->Applications->Diagnostic->USB Interface->Documentation

For the not spot computers, use the Windows procedure and select the driver present in the directory: **c:\Program Files\DDT2000\install_driver**

1.5 Hotline - Links

The people to contact are named on the intranet page. Use the link below:
http://www-diag.intra.renault.fr/DDT2000/info_hotline.htm

The DiagOffice intranet website:
http://www-diag.intra.renault.fr/DDT2000Office/default.htm permits to find some useful informations on the DDT2000 application (ECUs, specifications, assistance etc.)

The DDT2000Data website:
http://www-diag.intra.renault.fr/DDT2000Data/default.htm contains all informations about the ECUs database (Descriptions, Statistics, Central Database, Generics…)

2. The DDT2000 general presentation

2.1 USB-DIAG (probe) Use

This probe permits to connect a computer with an USB port to the **K&L** ,**CAN V** , **CAN M** networks of a vehicle

Probe LED description:

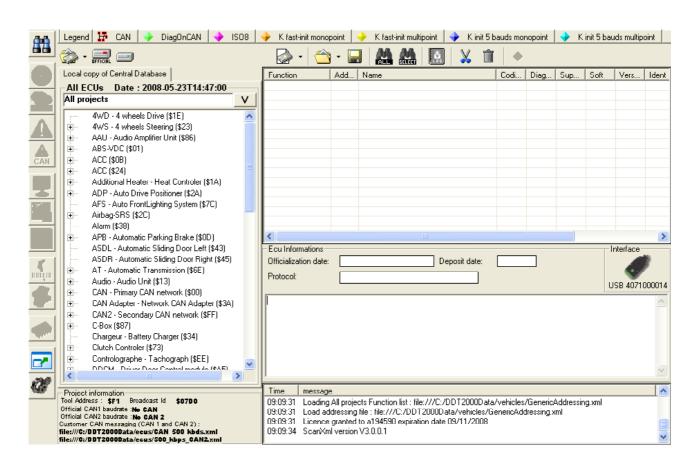| DIAG	**Red** : No exchange between ECU and tool **Blinking green** : Data exchange between ECU and tool
POWER	**Red** : Probe power supplied
VEHICLE	**Red** : +APC not present **Green** : +APC present

2.2 ECU selection and the Scan

This function permits to perform a seeking of the ECUs presents on the CAN V, CAN M and K line network and to identify these ECUs by using the ECUs databases available
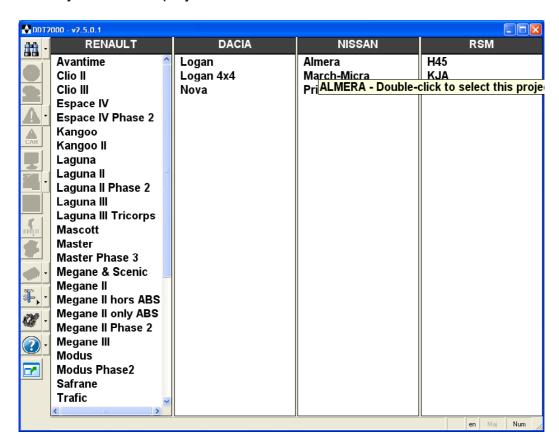The selection of one or more ECU can be made manually. The selected and/or identified ECU list will be used by the all the tools available in DDT2000.

The Scan button offers two choices :

Possibility to acces directly to Scan program or to acces to a vehicle project windows. In this case it is possible to select one vehicle project and filter the ECUs to the only Ecus used by this vehicle project
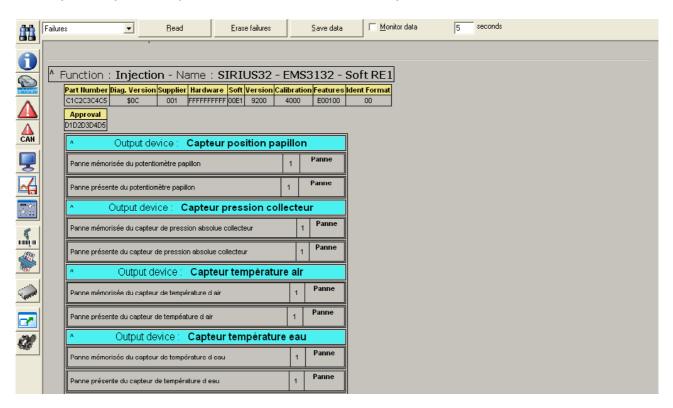
2.3 Failures reading

Permits to read the presents and memorized failures in the selected ECU (with "Scan") and to get some states/parameters associated to the inputs/outputs and internal in the ECU

The erase function permits to clear the memorized failures in the selected ECUs

The cyclically mode permits to test continuously the failures

This button proposes 3 differents programs

Read Failures : Main reading failures program stored in the Ecus

Failures Files : Program to read failures files generate by Read Failures

Failures to requests : Translate Failures Files to Request Files

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2.4 CAN failures reading ⚠ CAN
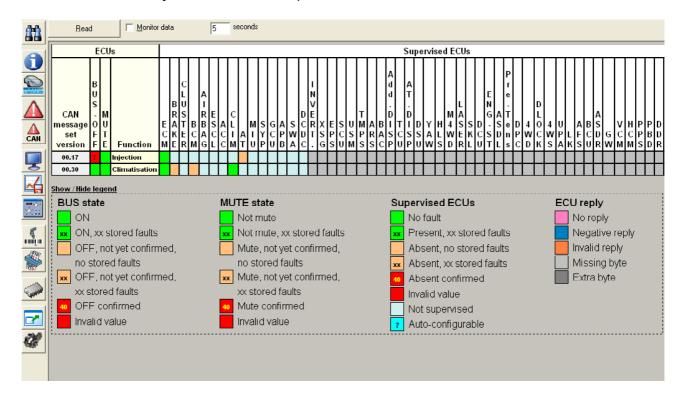
Display the CAN network state, the ECUs presents on the CAN network and permits to determine how many CAN failures are presents on the different ECUs

2.5 Identification

This function sends an identification request to the selected ECUs (With Scan) and displays the identifications informations acquired for each ECU. When the ECUs are reprogrammable, this function displays the log zone
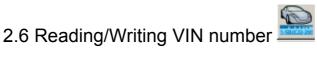
Ecu	History	R/N	Part Number	Diag. Version	Supplier	Hardware Number	Soft	Version	Calibration	Reserved/ Basic Part list	Format	Approval Number	Site	Tool	Nb	Date	Res.	Mark	CRC	Check CRC
Injection	N	Renault R1	C1C2C3C4C5	$0C	001	FFFFFFFFFF	$00E1	$9200	$4000	E00100	$00	D1D2D3D4D5	E TCR	BTP50	$FF	01/03/07	0000	$5C	5F7B	Ok
	N-1	Renault R1	C1C2C3C4C5	$0C	001	FFFFFFFFFF	$00E1	$9200	$4000	E00100	$00	D1D2D3D4D5	E TCR	BTP50	$FF	01/03/07	0000	$5C	5F7B	Ok
	N-2	Renault R1	8200038834	$10	001	FFFFFFFFFF	$00E1	$A100	$9103	000000	$00	7700000000	E TCR	BTP50	$FF	05/03/04	0000	$5C	4D5F	Ok
	N-3	Renault R1	C1C2C3C4C5	$0C	001	FFFFFFFFFF	$00E1	$9200	$4000	E00100	$00	D1D2D3D4D5	E TCR	BTP50	$FF	03/03/04	0000	$5C	544E	Ok
	N-4	Renault R1	C1C2C3C4C5	$0C	001	FFFFFFFFFF	$00E1	$9200	$4000	E00100	$00	D1D2D3D4D5	E TCR	BTP42	$FF	25/10/01	0000	$5C	0471	Ok
	N-5		FFFFFFFFFF	$FF	???	FFFFFFFFFF	$FFFF	$FFFF	$FFFF	FFFFFF	$FF	FFFFFFFFFF	?????	?????	$FF	FF/FF/FF	FFFF	$FF	FFFF	3D8(
	0		FFFFFFFFFF	$FF	???	FFFFFFFFFF	$FFFF	$FFFF	$FFFF	FFFFFF	$FF	FFFFFFFFFF	?????	?????	$FF	FF/FF/FF	FFFF	$FF	FFFF	3D8(
Climatisation	N	Renault R1	8200238350	$00	180	8200238350	$0000	$0000	$0000	000000	$00	0000000000	?????	?????	$10	25/03/03	0820	$5C	A9C5	Ok
	0	Renault R1	8200238350	$00	180	8200238350	$0000	$0000	$0000	000000	$00	0000000000	?????	?????	$10	25/03/03	0820	$5C	A9C5	Ok

Legend

ECU column
- Init OK
- Init or communication error

CRC column
- CRC OK
- CRC not OK

R/N column
- Identification (2180) OK
- Identification (2183) OK
- Initial logzone
- ECU is in boot
- ECU is not reprogrammable

Format column
- Identification (2180) known format
- Identification (2183) known format
- Unknow format

2.6 Reading/Writing VIN number
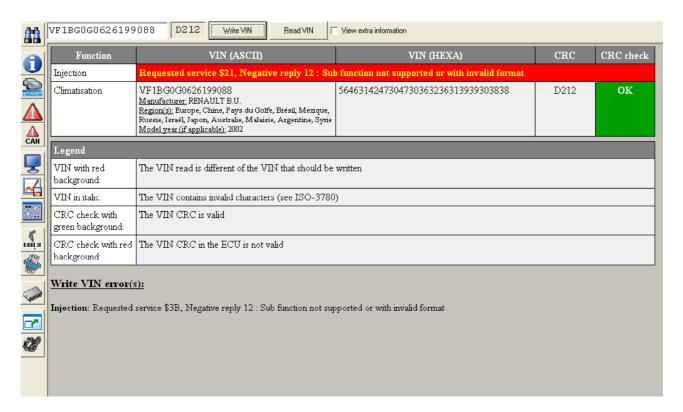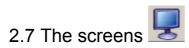
Reading the VIN number from every selected ECUs (with "SCAN") and/or writing a VIN number in all the selected ECUs

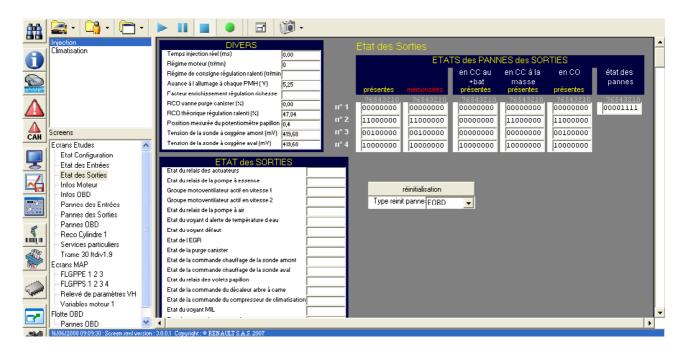| Function	VIN (ASCII)	VIN (HEXA)	CRC	CRC check
Injection	Requested service $21, Negative reply 12 : Sub function not supported or with invalid format			
Climatisation	VF1BG0G0626199088 Manufacturer: RENAULT B.U. Region(s): Europe, Chine, Pays du Golfe, Brésil, Mexique, Russie, Israël, Japon, Australie, Malaisie, Argentine, Syrie Model year (if applicable): 2002	564631424730473036323631393930 3838	D212	OK

Legend	
VIN with red background:	The VIN read is different of the VIN that should be written
VIN in italic:	The VIN contains invalid characters (see ISO-3780)
CRC check with green background:	The VIN CRC is valid
CRC check with red background:	The VIN CRC in the ECU is not valid

Write VIN error(s):

Injection: Requested service $3B, Negative reply 12 : Sub function not supported or with invalid format

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2.7 The screens

Function developed and used by systems pilots to validate and correct their ECUs in their native languages. These screens permit to display specifics data or to send specifics informations to the ECUs
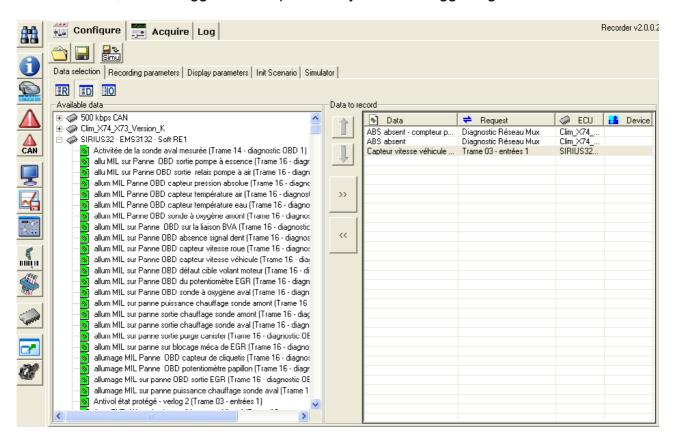
2.8 Recorder

Permit to record parameters on the selected ECUs (with "SCAN"). Display in graphic or numeric mode, record trigger and stop manually or with a trigger signal
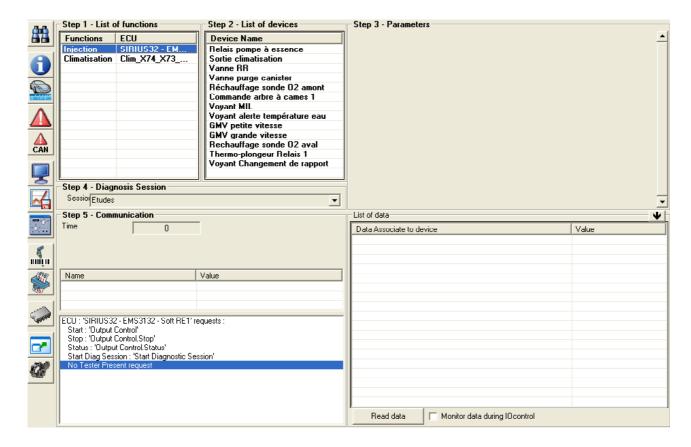

The Xml files generate by Recorder program can be reload with the 'recorder files' program.
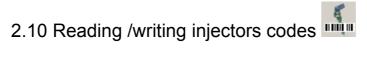
2.9 ECU input/output control

Permits to control the actuators of the selected ECUs for the commands declared "Output Control" in the databases

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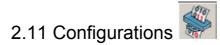All copyrights reserved by Renault.
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2.10 Reading /writing injectors codes
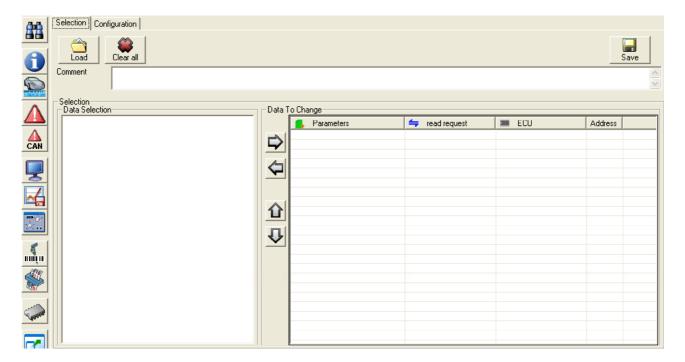
Permits to read and write the injectors codes for the engine ECUs managing the function.

2.11 Configurations

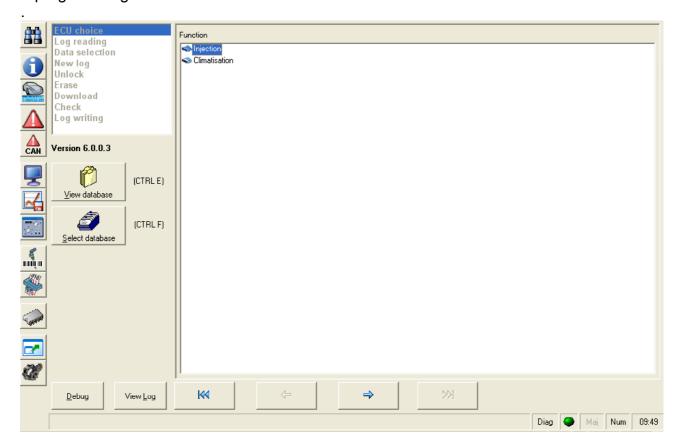Permits to read and write the configurations parameters declared for the selected ECUs (with "Scan")

Parameters management, reading, writing, modification, save and writing of the saved values .
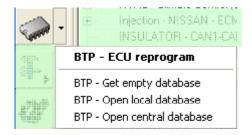
2.12 Reprogramming

Permits to upload a software or calibration file in a reprogrammable ECU from a defined reprogramming database
.

On the button Ecu's Reprogramming a menu propose 3 more functions.

BTP – Get empty database : Create a new empty local database on your PC
BTP – Open Local database : Open the selected local database in the viewer
BTP – Open central database : Open the central database stored on Renault network in the viewer.
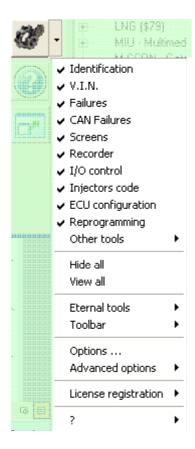
2.13 Full screen function

Permits to switch from full screen mode display to normal mode display.

2.14 Application configuration

- Permits to activate or deactivate one ore several buttons of the application
- Access to other tools (example: MANUEL REQUEST).
- Access to local and central reprogramming database.
- Permits to modify the application task bar position (up, down, left).
- Access to the application configurations options tool
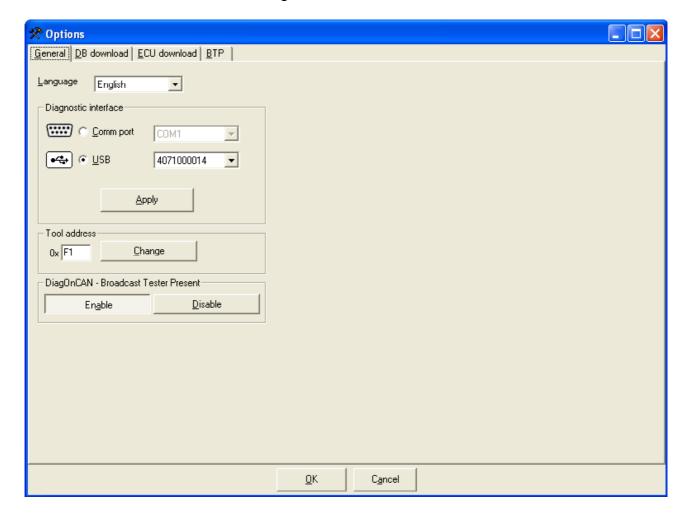- Permits to use continuous diagnosis mode (useful with CANalyzer)

3. Configuration options:

3.1"General"tab:

- Language choice
- Choice of the diagnosis interface (Serial port or USB port) and probe choice for diagnosis use
- Modification of the CAN address of the diagnosis
- Activate or deactivate the sending of the TesterPresent.

3.2 "DB download" tab
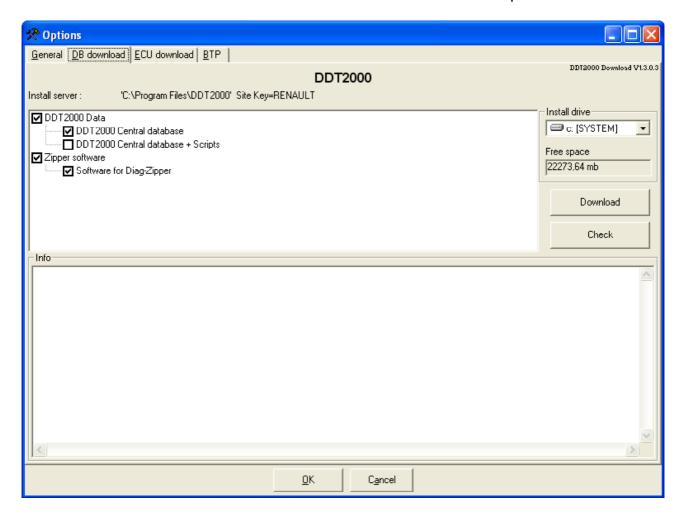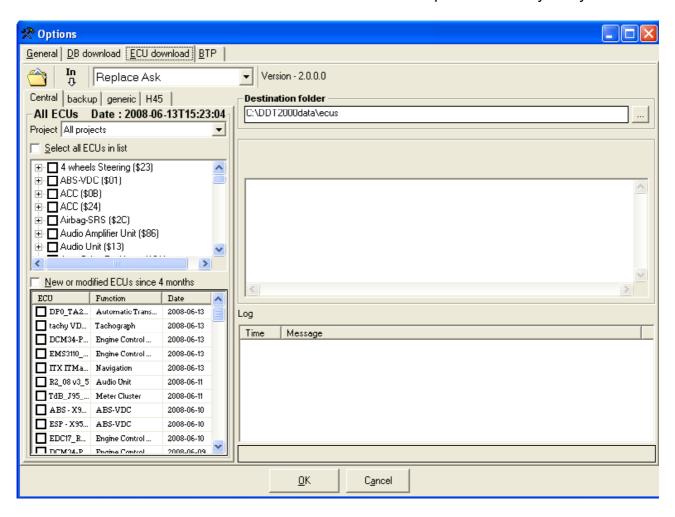
Permits to download databases from the central database to the computer

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3.3 "ECU download" tab:

Choice of one or more ECUs databases to download to a specific directory firstly chosen.

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3.4 "BTP" tab (Basic Tester for Programmable ECU)

BTP works with a database containing:
- The ECUs memory structure informations
- The data which can be upload to ECUs (Or download)

- **The database may be:**
  - Local (only one active but more possible)
  - Wherever on the network to which the computer is connected

- **We can import**
  - UCEs from others databases
  - Softwares from the same ECU, from another database
  - Calibrations from the same ECU, from another database

- **BTP always works with a database which name is "**Softs BTP" except when he uses the second database to get some data which name is free

This BTP function permits to prepare the download