

Local Loading Tool (LLT)

For TELIUM™ Terminals



CONTENTS

1.	Introduction		5
2.	Environment		5
3.	Soft	ware installation	5
4.	Soft	ware removal	6
5.	Runr	ning the LLT	7
6.	Use	of LLT functions	8
	6.1.	Connecting to the terminal	8
	6.2.	Connection rules	11
	6.3.	Disconnecting to the terminal	12
	6.4.	Software component downloading	12
	6.5.	Parameter files downloading	12
	6.6.	List of components in the terminal	12
	6.7.	Uploading diagnostic files (*.DIA)	13
	6.8.	File selection and transfer	14
	6.9.	Displaying and consultation	15
	6.10.	Catalogue file management	19
	6.11.	Catalogue pack editor	22
7.	View	s of some files	24
	7.1.	File LIFECOUNTER.DIA	24
	7.2.	File BOOSTER?.DIA	24
	7.3.	File APPDEFAULT.DIA	
		File APPCOUNTER.DIA	
	7.5.	Files *.SIZ	25

8. LLT	Setting	26
8.1.	File LLT.INI	26
8.2	. File LLT.PRM	27
8.3	. File LLT.LNG	27
8.4	. File LLT.BMK	27
8.5	. LLT used in command mode	28
8.6	. Displaying the USB connection port number	31
9. Cor	nnection Configuration with terminal	32
9.1.	USB driver use	32
9.2	. Null modem COM port configuration	32
10.Ap	pendices	41
10.	1. List of short cut keys	41
10.2	2. List of icons and their function	41
10.	3. Problems and Solutions	42
10.4	4. Known limitations	43

1. Introduction

This document describes the installation process and the implementation of the Local Loading Tool (LLT). This tool allows the user to download software components or parameter files in the terminals with $TELIUM^{TM}$ technology.

In the continuation of this document, the following designations « terminals with *TELIUM* ™ technology » will be replaced indifferently by the word « terminal » or the abbreviation « EFT ».

To install and use the LLT software follow the different steps described below:

- Software installation
- Connection Configuration with terminal according to the used Windows® platform.
- Use of the LLT Functions.

2. Environment

LLT software is compliant with the following Microsoft[®] Windows[®] platforms:

- Windows[®] XP professional (32 bits)
- Windows[®] Vista business (32 and 64 bits)
- Windows[®] 7 professional (32 and 64 bits)

The Windows® XP 64 bits is not supported.

In order for the software to run the computer where the software is installed must have a CD-ROM drive and a serial or USB port.

3. Software installation

You must have **administrative privileges** to install and to uninstall this program. This includes having administrative privileges the first time you start your computer after installing or uninstalling.

LLT use port IP 6000 for data exchange. The use of this port must not be forbidden by the network administration (Firewall, Virtual Private Network (VPN)) and must not be used by another application.

Before installing the LLT application, make sure that all applications are closed. Then, insert the CD-ROM containing the LLT software and follow instructions of the LLT setup.

If your PC doesn't run the setup automatically, click "Start" button from the task bar, choose "Run ...", then "Browse ..." CD drive and select "LLT_setup.exe".

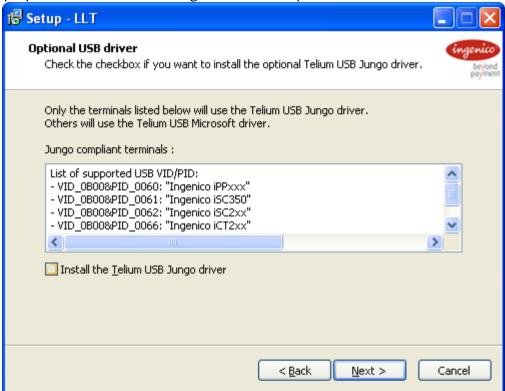
All Telium terminals are compliant with the Telium USB Microsoft driver.

This driver is automatically installed during the LLT installation.

The LLT setup includes the optional Telium USB Jungo driver. However this new USB driver is compliant with only few Terminals (see the "Jungo USB - Compliant terminals.txt" file for details).

You would need to use the Jungo driver if you already use this USB driver for another application on your computer.

This driver is proposed to be installed during the installation process:



Once you have completed the setup procedure, you can launch the LLT by double-clicking on the LLT icon or from **Start** button Choose: **Programs** -> **TELIUM Tools** -> **LLT xx.yy** -> **LLT xx.yy** (where **xx**, **yy** are major and minor version number).

4. Software removal

From task bar click Start and choose Programs -> TELIUM Tools -> LLT xx.yy -> LLTxx.yy Uninstall.

You will probably have to choose to uninstall or not the Telium USB Microsoft driver. Be sure that this driver is no more used by another program before uninstalling it.



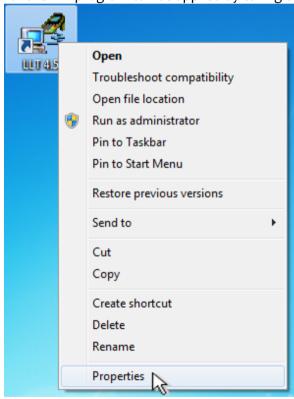
In case you have installed the optional USB Jungo driver with LLT, the uninstall process propose you to uninstall it in the same time:



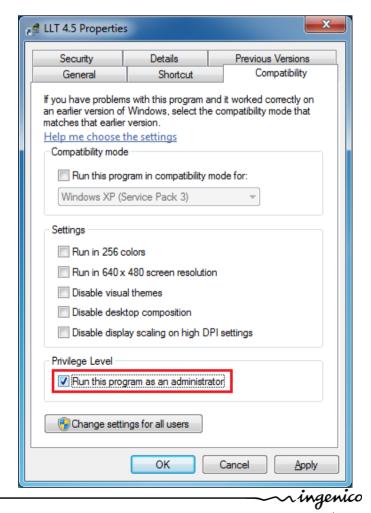
5. Running the LLT

In order to allow the configuration of connections and device management through the LLT program ("Serial interface properties..." and "Device manager..." under the Connection menu), the administrator privileges are required to run it.

On the Microsoft[®] Windows[®] Vista and 7 platforms, you can permanently set the administrator privileges for the LLT program can be applied by calling the **Properties** of a LLT shortcut:



Then, in the Compatibility panel, check "Run this program as an administrator" and click OK:



6. Use of LLT functions

LLT allows downloading software components or parameter files in the terminal during a downloading activity. It also may allow uploading diagnostic file during a diagnostic or maintenance activity.

6.1. Connecting to the terminal

Before the first connection,

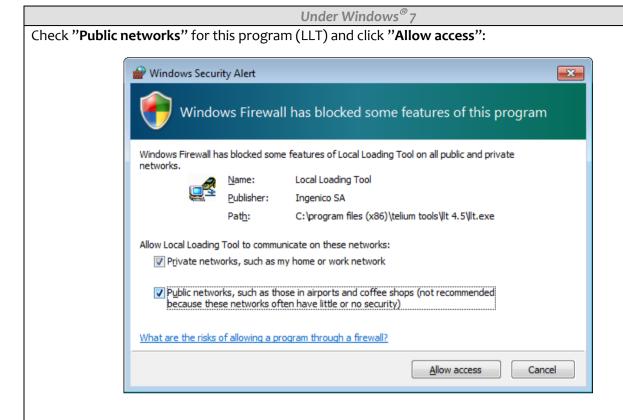
- See chapter '<u>Connection Configuration with terminal</u>' in function of platform Microsoft[®] Windows[®] used.
- Make sure the serial cable or the USB cable is correctly connected to the PC and terminal.
- Make sure the terminal is ready to be connected. The terminal must be switched to LLT mode
 using the key combination: simultaneously pressing '.' and yellow button (to reset the terminal)
 and then pressing "Up" key. When LLT mode is reached, the "LLT" message is displayed on the
 terminal screen.
 - <u>Note:</u> Those key combinations can be applied to most of terminal types. Please refer to your terminal specifications if you couldn't access to the LLT mode.

Different ways to connect:

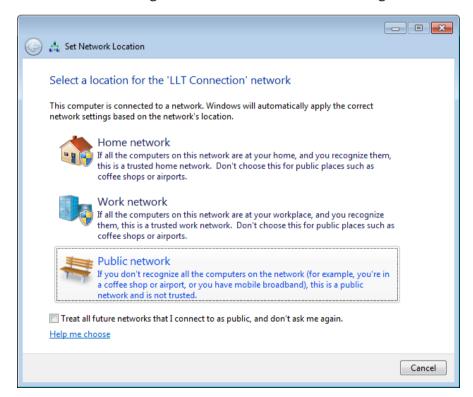


- with mouse: by clicking on the icon
- with the LLT menu: **Terminal** → **Connection**
- with shortcut key: F4

<u>Warning:</u> When you try to connect LLT with the terminal for the first time, you probably have the following screen displayed on your screen (especially with the firewall of Windows[®] Vista or 7).



Then, you could also have this following screen. Choose "Public network" again:



Under Windows® Vista

On Windows® Vista, the following message could appear. Click on the "Unblock" button to allow LLT on the firewall:



Then, you could also have this following screen. Choose "Public location":



If the access of LLT is denied, the error message "Absence of terminal answer" will be displayed after LLT connection action.

6.2. Connection rules

6.2.1. Definitions

COMs: list of COM ports installed, USBs: list of USB ports with a terminal connected. For LLT options see LLT.ini file description.

6.2.2. Graphical mode

- Option 'EnumUSB' is on (yes: default value). Priority is given to USB link.
 - > A single terminal connected in USBs
 - → trying to connect with this terminal,
 - More then one terminal connected in USBs
 - → a dialog box is opened to select which USB port to use.
 - ➤ No terminal connected in USBs
 - → trying to connect using the port selected in the window 'LLT Connection properties' (LLT menu : Connection → Connection configuration).
- Option 'EnumUSB' is off (no)
 The attempt to connect is made with the port selected in the window 'LLT Connection properties' (LLT menu: Connection → Connection configuration).

6.2.3. Command mode

(see chapter: LLT used in command mode)

- Option 'EnumUSB' is on (yes: default value)
 - Number of port provided (with -x parameter)
 - it is present in COMs and in USBs
 - → trying to connect using this port,
 - it is absent in USBs and a single terminal connected to USB
 - → trying to connect with this terminal,
 - it is present in COMs and USBs is empty,
 - → trying to connect using this port,
 - it is absent in COMs
 - → Error (-19),
 - Number of port not provided (without -x parameter)
 - if a single terminal connected to USB
 - → trying to connect with this terminal,
 - zero or more terminals connected to USB
 → Error (-19),
- Option 'EnumUSB' is off (no)
 - Number of port provided (with -x parameter)
 - it is present in COMs
 - → trying to connect using this port,
 - it is absent in COMs
 - → Error (-19),
 - Number of port not provided (without -x parameter)



6.3. Disconnecting to the terminal

The LLT must be disconnected before unplugging the cable. This will cause a reset of the terminal.

Different ways to disconnect:



• with the menu: **Terminal** → **Disconnect**

with shortcut keys: CTRL + F4

6.4. Software component downloading

- Select the downloading activity in the LLT menu: Activity → Downloading.
- Connect to the terminal (see <u>Connecting to the terminal</u>).
- Move in the LLT explorer in order to select the catalogue files corresponding to the components to be downloaded (see <u>File selection</u>).
- Download the component(s) in the SWAP directory of the terminal (see <u>File transfer</u>).
- Disconnect (see <u>Disconnecting from the terminal</u>). After the reset terminal, the valid components are transferred in the SYSTEM directory in order to be used.

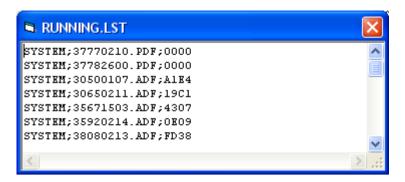
6.5. Parameter files downloading

You can download a parameter file usable by an application in the **HOST** directory of the terminal. <u>Note</u>: the application using this parameter file will have to delete it after using.

- Select the downloading activity in the LLT menu: Activity → Downloading.
- Connect to the terminal (see Connecting to the terminal).
- Go to HOST directory by clicking icon (or with CTRL+B keys) and double-click on HOST directory (terminal side).
- Move in the LLT explorer (PC side) in order to select the files to be downloaded (see <u>File selection</u>).
- Download the component(s) in the HOST directory of the terminal (see <u>File transfer</u>).
- Disconnect (see <u>Disconnecting from the terminal</u>).

6.6. List of components in the terminal

- Select the downloading activity in the LLT menu: Activity → Downloading.
- Connect to the terminal (see <u>Connecting to the terminal</u>).
- Double click on RUNNING.LST file or used the LLT menu: Terminal → Component list or CTRL + F shortcut keys to display the component list.



6.7. Uploading diagnostic files (*.DIA)

- Select the downloading activity in the LLT menu: Activity → Diagnostic.
- Connect to the terminal (see <u>Connecting to the terminal</u>).
- Select the diagnostic files in the terminal view to be uploaded (see <u>File selection</u>).
- Transfer the file(s) in a PC directory (see <u>File transfer</u>).
- Disconnect (see <u>Disconnecting from the terminal</u>).
- Display content of diagnostic files (see <u>LifeCounter.dia</u>, <u>Booster.dia</u>, <u>AppDefault.dia</u> or <u>AppCounter.dia</u>)

6.8.1. File selection

The file selection is made in the same way as Windows Explorer:

- select a file by clicking on it,
- select all the files pressing simultaneously Ctrl + A keys,
- select contiguous files by clicking on a file with 'Shift' key,
- select non-contiguous files by clicking on a file with 'Ctrl' key,

6.8.1.1. Selection a catalogue file

Selecting '*.Mxx' in the file type list (Mxx corresponding to the catalogue file extension) allows the user to view catalogue files in the current directory. When a catalogue file transfer is carried out, all files present in that catalogue file will be transferred.

6.8.1.2. Selecting a package

It is possible to transfer files presents in a package built from 'IngPackager' tool by selecting the 'descriptor.xml' file and downloading (drag&drop). Only the '<application > ... </application>' and '<data> ... </data>' tags are supported.

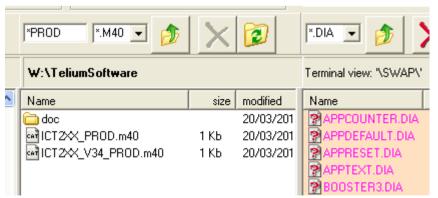
<u>Warning:</u> The '<requirements>' tags are not supported. All files associated with the terminal product type and with the '<application>' tag and files with the '<data>' tag are downloaded.

6.8.1.3. Selecting a file list

Selecting "*.*" in the file type list, allows the user to view all files and sub directories from the current directory. In this mode all selected files will be transferred.

6.8.2. Filter function

A filter function is available for remote and local file browser. Usage of wildcard characters ('*' and '?') is implemented.



The first field designates the filename filter, and the combo box filters the extension.

For example, if you input "*PROD" in the text field, all files which name ends with "PROD" will be displayed.

In addition, if you select the "*.M40" extension, only catalogue files for the product code M40 which name ends with "PROD" will be displayed.



6.8.3. File transfer

Once connection has been established (see Connecting to the terminal) and once files have been selected (see File selection):

- with the menu: Terminal → File downloading or Terminal → File uploading
- with mouse: drag and drop (from the source window to destination window).
- with shortcut keys: F2 or CTRL + F2

By default the remote downloading activity is selected. Maintenance and diagnostics activities are also possible from LLT by selecting the menu "Activity". Activity Catalog

Downloading Diagnostic Maintenance

6.8.4. Copy File List

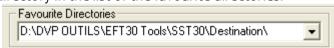
You can copy the list of selected file from the current view to the clipboard with the popup menu or with the CTRL + C keys.



6.9. Displaying and consultation

Direct access to a directory of the computer

Select the directory in the list of the favourite directories.



To **add** a path in the list selects a directory in the tree view:

- with shortcut keys: SHIFT + INS
- or with the popup menu (with the right button of the mouse).



To **delete** a path in the list, select the directory name in the tree view:

- with shortcut keys: SHIFT + DEL



When the LLT application is closed, it is possible to automatically add the current directory in the list of the favourite directories with the option 'Auto_bmk=yes' in file LLT.ini (default value: no). At the next LLT execution, this directory will be the current directory.

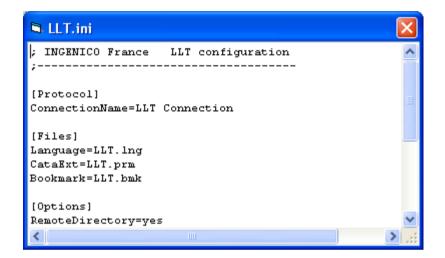
Another option 'Update_bmk' (default value: yes) can be used. The list of the favourite directories is automatically checked and updated (with disks present) when LLT is launched.

6.9.2. Direct access to a directory of the computer

From PC View use **CTRL** + **J** keys to go to Terminal view or click on the Terminal view. From Terminal View use **CTRL**+ **K** keys to go to PC view or click on the PC view.

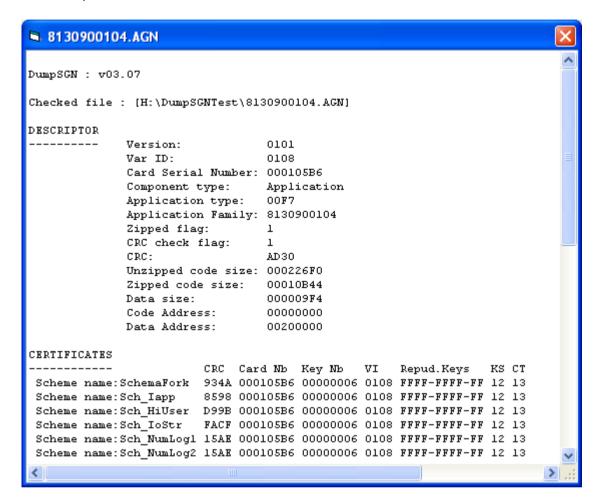
6.9.3. Direct access to a file contents

A double click on the file itself or press Return key after selecting the file displays in a window the file contents in text mode.



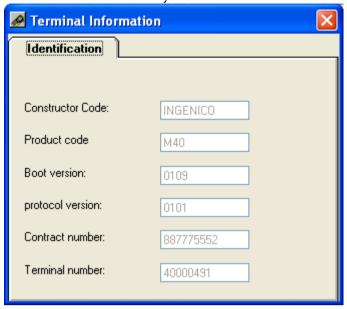
6.9.4. Component signature consultation

Select '*.*' in the list then Double click on a file with extension '.*GN' (.SGN, .AGN, .PGN, ...) corresponding to a signed component to consult . The option 'Certif_SGN' in file LLT.ini must be set to on (default value: off).



6.9.5. Terminal identification consultation

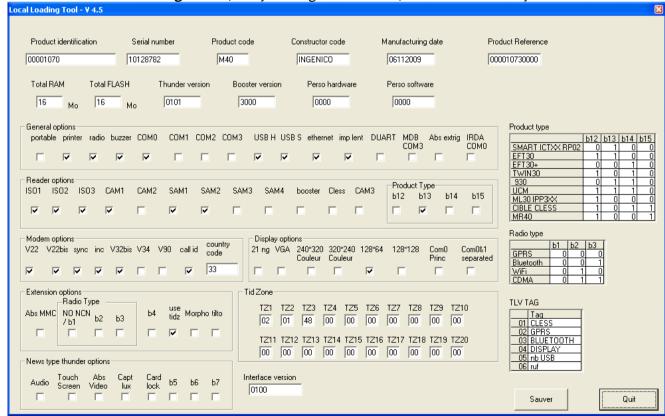
Once a connection has been established, terminal characteristics can be displayed with the menu: **Terminal** \rightarrow **Identification** or with shortcut keys: **CTRL** + **I**.



6.9.6. Terminal configuration consultation

When the current activity is 'Maintenance' and once connection has been established, terminal configuration can be displayed with the menu:

Terminal → Configuration, or by clicking on icon , or with shortcut keys: CTRL + J



6.10.1. About catalogue files

Catalogue files specify a list of files to be easily downloaded into the terminal. Their file extension is in "*.M??" form, with the two last digits which designate the product code of the target terminal.

You can edit them in LLT (see sections below), or in an external text editor (for example Microsoft[®] Notepad) in order to specify enhanced file paths. Following forms of paths are supported:

Sample	Description	
C:\Dir\SAMPLE.SGN	Absolute path	
SAMPLE.SGN	Relative path: same directory as the catalogue file	
.\SubDir\SAMPLE.SGN	Relative path: SubDir\ is in the catalogue directory	
\SAMPLE.SGN	Relative path: parent directory from the catalogue directory	
\\OtherDir\SAMPLE.SGN	Relative path: two parent directories and in the OtherDir\ directory	
\SAMPLE.SGN	Relative path: root of the catalogue drive	

Network paths ("\\Server\") are not supported by LLT. To use them, map them with a network drive letter.

6.10.2. Consulting catalogue file

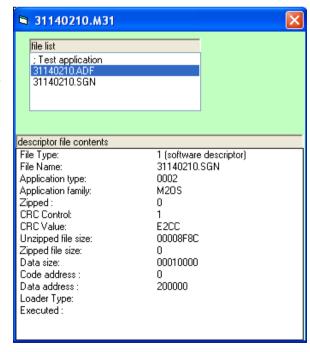
The catalogue description selected.



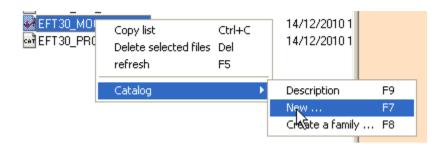
is displayed each time a catalogue file is



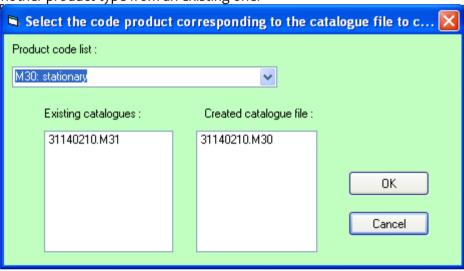
Double-click on a catalogue file, use contextual menu (with right click), or hit the **F9** key after selecting a catalogue file, allows the user to view the catalogue file contents and its associated descriptor file and the signed file (see <u>Component signature consultation</u>) contents by selecting it in the file list.



6.10.3. Create a new catalogue file



Use contextual menu (with right click) or **F7** key after selecting files. This allows the user to create catalogue files for another product type from an existing one.

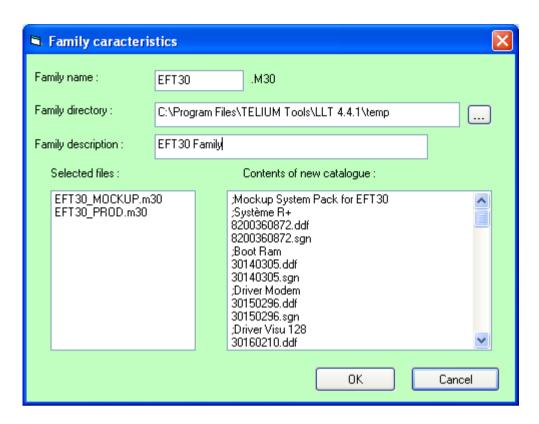


6.10.4. Create a family

This function allows the user to create a family for a same product type. This function is only accessible after selecting the *.Mxx (Mxx corresponding to the catalogue file extension) in the list associated to the file list. Use contextual menu (with right click) or **F8** key after selecting catalogue files.



The new catalogue file will be created from one or more catalogue files for a same terminal and stored in the family directory (destination). All files present in the source catalogue files are copied to the specified directory.



6.10.5. Deletion of a catalogue file

When you delete a catalogue file, the software deletes associated files, only if they are not used by other files.

6.11. Catalogue pack editor

The catalogue pack is a feature which allows creating a set of files and catalogues files, grouped into a root directory.

As the result, this catalogue pack collects all files designated in selected catalogues and files, copies them in a target folder and generates a catalogue which lists all these files.

The catalogue pack facilitates the exportation of a set of catalogues files and files, and that's a way to merge catalogues and files from several origins.

6.11.1. Add files to the catalogue pack

In order to add a file or a catalogue file to the catalogue pack list, you can right-click on selected files of the local browser view (see <u>File selection</u> section), then click on "Catalogue pack" > "Add to the list" of the contextual menu, or press the **F6** key:

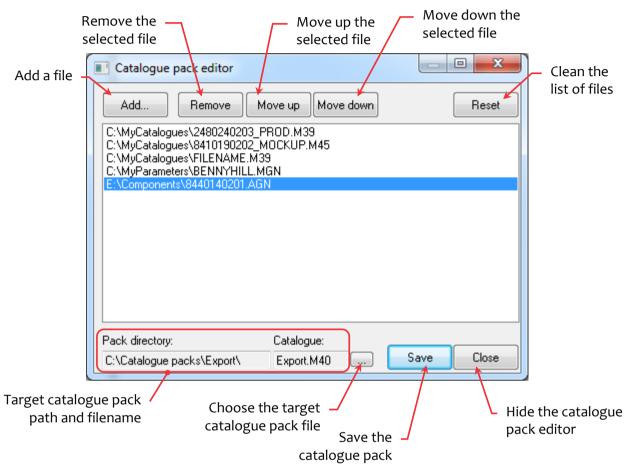


All selected files are added into the catalogue pack list.

6.11.2. Edit and create the catalogue pack

When you call the contextual menu (right-click on the local browser view), click on "Catalogue pack" > "Create pack...", or hit the Ctrl + F6 keys.

Here a window is displayed with the list of the catalogue pack files, previously added:



You can add, remove and move up or move down the files and catalogue files through this window. The "Reset" button clean all files of the catalogue pack.

When you click on the "Save" button, the catalogue pack is saved in accordance with the target catalogue pack file.

You can change the target catalogue pack file by clicking on the "…" button. You have to input a catalogue filename (without extension). A folder is created from this filename, in which all embedded files in catalogues and all files (of the catalogue pack list) will be copied.

For example, if you input this catalogue pack filename: "MyPack" in the directory "C:\", then a folder "C:\MyPack\" will be created, and the catalogue "C:\MyPack\MyPack.Mxx" will be generated.

All files in the catalogue pack list will also be copied in the "C:\MyPack\" directory.

<u>Important</u>: If many files with the same filename are referenced in the catalogue pack list (embedded in a catalogue or directly), then files will be overwritten and the last referenced file will subsist. So, the **order** of files in the catalogue pack list matters.

7. Views of some files

File LIFECOUNTER.DIA 7.1.

For view 'LifeCounter.dia' file, you must double-click on the file, and after the information of this file are displayed in a window.

```
LIFECOUNTER.DIA
                                          13/09/06 00h 04min
Number of Thunder Resets :
                                          125
False detected LISR number :
Numbers of Garbages carry out :
                                          1
Numbers of invalid blocks Flash :
                                          Ω
Rfu :
                                          0
Numbers of driving step carry out :
Cumulated duration of the impressions :
                                          Os Oms
Number of dots printed :
Number of cuts sector :
                                          37
Number of cards readings ISO1 :
                                          0
Number of cards readings ISO2 :
                                          0
```

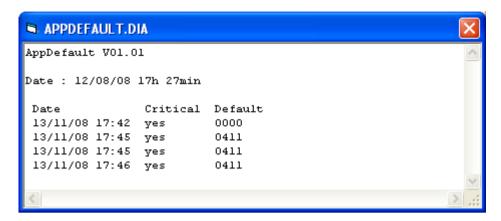
7.2. File BOOSTER?.DIA

For view 'Booster?.dia' file, you must double-click on the file, and after the information of this file are displayed in a window.

```
BOOSTER3.DIA
hard_reset_nbr : 132
soft_reset_nbr : 134
exceptions nbr : 0x00000001
exception_type : 0x00000003
exception_r0 : 0x0000000C
exception_rl : 0x000003E0
exception r2 : 0x00000000
exception_r3 : 0x00000000
exception_r4 : 0x00000028
exception_r5 : 0x0000000A
exception_r6 : 0x003393B4
exception_r7 : 0x003403F0
exception_rl4 : 0x003393D4
exception info
   0x00000000 0x00020604 0xFFFFFFFC 0x00000000
   0x00000073 0x00100071 0x00200073 0x00300092
   0x00400000 0x00400403 0x00400803 0x00400C03
   0x00401003 0x00401403 0x00401811 0x00500011
   0x00600051 0x00700001 0x00200012 0x00208053
```

7.3. File APPDEFAULT.DIA

For view 'AppDefault.dia' file, you must double-click on the file, and after the information of this file are displayed in a window.



7.4. File APPCOUNTER.DIA

For view 'AppCounter.dia' file, you must double-click on the file, and after the information of this file are displayed in a window.



7.5. Files *.SIZ

Files with the *.SIZ extension are virtual files which indicate the total size ('DIRECTORY.SIZ') and the available capacity ('FREEDIR.SIZ') of the current directory. To view those information, you have to double-click on a *.SIZ file.



8. LLT Setting

8.1. File LLT.INI

LLT configuration is given by the file "LLT.ini".

[Options]

RemoteDirectory (default value: yes): displaying network disks.

Certif SGN (default value: no): displaying certificate for '*.?GN' files.

Auto bmk (default value: no): automatic storage of last directory used (in 'LLT.bmk' file).

EnumUSB (default value: yes): automatic enumeration of terminals connected to PC using an USB link.

Update_bmk (default value: yes): automatic update the list of favorite directories (from disks present).

CptWaitEndOfActivity (default value: 2, that's to say 1 minute; minimum value: 1): deadline at the end of activity of the terminal after disconnection, by step of 30 seconds

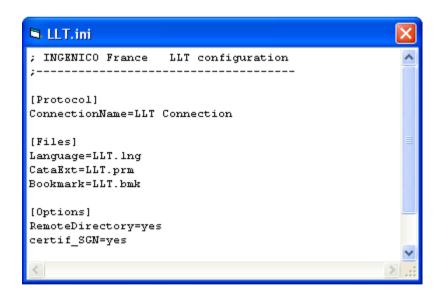
[Environnement]

ConfirmMockupCatDL (default value: no): confirm to download a Mockup catalogue into the terminal ConfirmProdCatDL (default value: no): confirm to download a Production catalogue into the terminal ConfirmOtherCatDL (default value: no): confirm to download an undefined catalogue into the terminal

Note:

The **ConfirmMockupCatDL** and **ConfirmProdCatDL** parameters concern respectively catalogue filenames that contain "MOCKUP" and "PROD".

LLT.ini example:



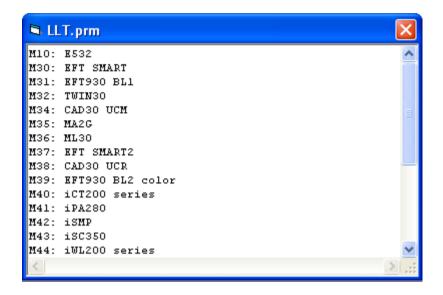
8.2. File LLT.PRM

It allows the user to define all product code lists for EFT and the associated terminal description. This product code corresponds to catalogue files extension.

Syntax:

Mxy: product description

Example:



8.3. File LLT.LNG

It contains the list of messages to be displayed by LLT. These messages are written in 2 different languages: English (by default) and French.

You can change the language used in LLT by changing the value "DefaultLanguage=2" in the "[General]" section.

8.4. File LLT.BMK

It contains the list of the favorite directories that the user can access in one click from LLT. The user can write the directories to be accessed easily in it. To update this file: see '<u>Direct access to a directory of the computer</u>'.

8.5. LLT used in command mode

8.5.1. Actions

- -c = downloading the files listed in catalogue file
- -u = uploading the files listed in catalogue file
- -d = deleting the files listed in catalogue file

8.5.2. Switches

- -r = filename where is stored the resulting code (if omitted, return code will be stored in « ResBatch.txt » in the LLT installation directory
- -e = name of the directory in the terminal where are downloaded the files contained in catalogue file (downloading mode) or from where are uploaded the files contained in catalogue file (uploading mode) or where are deleted the files contained in catalogue file (deleting mode) (if omitted, swap disk)
- -a = number of activity (if omitted, 1) (1=downloading, 2=diagnostic, 3=maintenance)
- -x = number of serial port (if omitted, last port used by LLT)
- -n = without dialog box displayed

8.5.3. Syntax

- Downloading:
 - LLT.EXE -c<path and catalogue file name> -r<path and result file name> -a<N° of activity> -e<name of the directory in terminal where are downloaded the files> -x<N° of serial port>
- Uploading:
 - LLT.EXE -u<path and catalogue file name> -r<path and result file name> -a<N° of activity> -e<name of the directory in terminal from where are uploaded the files> -x<N° of serial port>
- Deleting:
 - LLT.EXE -d<path and catalogue file name> -r<path and result file name> -a<N° of activity> -e<name of the directory in terminal where are deleted the files> -x<N° of serial port>

8.5.4. Return codes

The downloading return code is numerical ASCII coded in the resulting file followed by a text.

- "o": OK
- "-1": missing parameter
- "-2": catalogue file access problem
- "-3": resulting file access problem
- "-4": downloadable files access problem
- "-5": LLT already running
- "-6": LLT configuring file missing (LLT.INI, LLT.LNG, LLT.PRM)
- "-7": connection name ("LLT Connection") not found in Windows RAS.
- "-8": PPP connection problem (RAS error + error number)
- "-9": FTP connection problem
- "-10": FTP error during file transfer
- "-11": terminal not responding once PPP connection has been established
- "-12": LLT cannot be run on such Windows platform
- "-13": LLT identification not recognized by the terminal
- "-14": unauthorized activity
- "-15": activity badly finished
- "-17": can not download a file with diagnostic activity
- "-18": can not found the RAS phonebook
- "-19": COM port unknown
- "-20": catalog file not adapted for this terminal

8.5.5. Examples

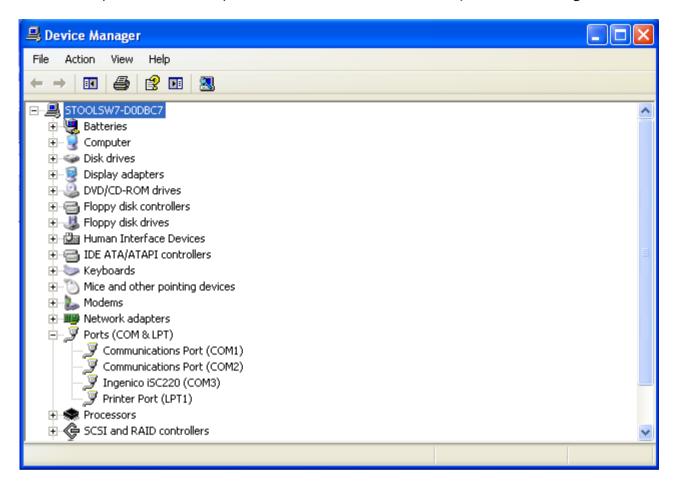
Catalogue file name: 31140210.M30

```
With values:
       ; Download files to SWAP
       31140210.ADF
       31140210.SGN
       ; Change destination directory and download a file
       -eHOST
       Param.txt
Commande file: LoadingTest.bat
With values:
       @echo off
       set PATH=C:\Program Files\TELIUM Tools\LLT
       set /P PORT=Enter COM port number or [ENTER] for COM%NB%:
       if .%PORT%. == .. goto Labelo
       set NB=%PORT%
       :Labelo
       echo Enter LLT Tools install directory or [ENTER] for
       set/p LLT TOOLS= "%PATH%":
       if .%LLT TOOLS%. == .. goto Label1
       set PATH=%LLT TOOLS%
       :Label1
       set LLT="%PATH%\LLT.EXE"
       echo Launch LLT Tools on the terminal
       set /p T=When "LLT" displayed, press a key to continue...
       echo Catalogue loading in progress ...
       %LLT% -c31140210.M30 -eSWAP -a1 -x%NB%
       echo Loading is finished.
       set /p T=Press a key to continue...
```

8.6. Displaying the USB connection port number

Display the 'Device Manager' panel with the LLT menu: **Connection** \rightarrow **Device manage**r (or with Windows menu: **Start** \rightarrow **Control Panel** \rightarrow **Device Manager**).

The list of USB ports used can be updated with the menu: Action \rightarrow Scan for hardware changes.



9. Connection Configuration with terminal

The connection configuration is quite similar on the operating systems Microsoft® Windows® XP, Vista and Seven.

9.1. USB driver use

The Telium USB Microsoft driver is automatically installed during the LLT installation. The connected terminals use it by default.

If the optional Jungo driver is also installed, and if the connected Telium terminal is compliant with, then the Jungo driver will be automatically used for this connection (instead of the Microsoft one).

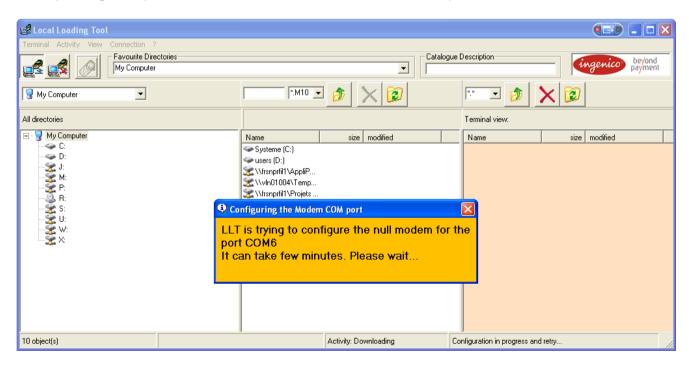
Connect an USB cable between the terminal (USB Slave) and the PC (USB Host).

A new hardware is automatically detected by Windows[®] and the terminal is added in the list of USB connection port number (see <u>Displaying the USB connection port number</u>).

9.2. Null modem COM port configuration

9.2.1. Connection with USB interface

With an USB connection, the LLT can automatically configure the connected null modem on the corresponding COM port. This can be launched on a connection attempt to the terminal, if it's needed:



This automatic configuration drives the Modem wizard of Windows® (in background) through all needed steps. On all Windows® OS, the administrator privileges are required to use this feature properly.

However in case of failure of the automatic configuration, this operation remains to be manually done (see explanations below for <u>Connection with serial interface</u>).

9.2.2. Connection with serial interface

To be connected to a terminal a serial cable must be used. For that configure the PC by installing the null modem driver and determine the serial port that will be used with this connection.

9.2.2.1. Installing the null modem driver

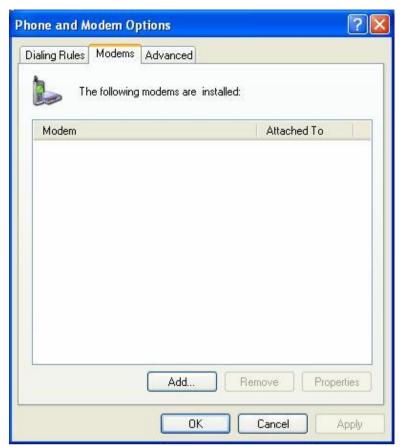
Configure the serial interface with the LLT menu: Connection → Serial interface properties ...

Note: for connection with serial interface, the PC must be restarted after the null modem is installed.

If no modem has been installed on this computer, the following screen appears:



Key in any value for your area code, and then close the window by button OK.



Click "Add" button to install the null modem driver.

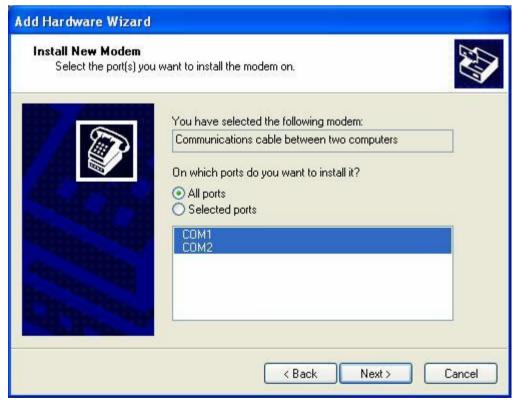


Check the option "Don't detect my modem; I will select it from a list" and then click "Next" button to select the null modem driver from a list.

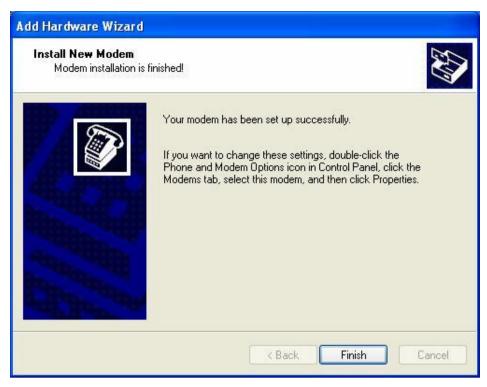


Select "(Standards Modem Types)" from the list "Manufacturer" and "Communications cable between two computers" from the list "Models".

Then click "Next" button to select the serial port that will be used for the connection.

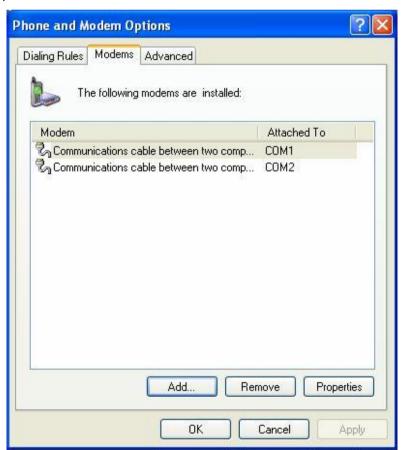


Select a specific port or 'All ports' if you want to be able to use either one or the other. Continue by clicking "Next" button.



and click "Finish".

The new interface appears now from the list.



Click "OK" to validate these settings.

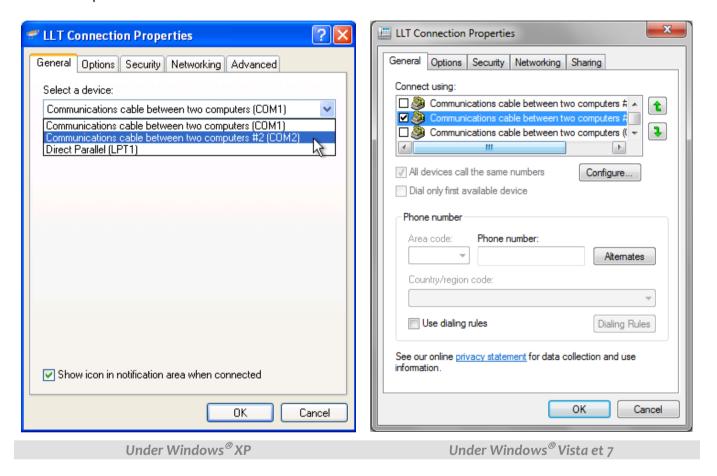
9.2.2. Use of another serial port

It is possible to define several serial ports in order to select later the available port (See chapter <u>Selecting communication port</u>). To define a new interface and a new serial port (for example using COM₂), repeat the previous step described in <u>Installing the null modem driver</u>.

9.2.3. Selecting communication port

Select the serial port used from 'Connection

Connection Configuration ...' LLT menu. Select the port to use in the device list.

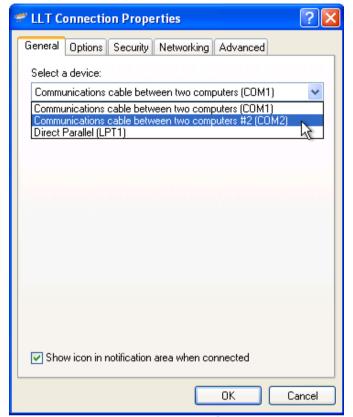


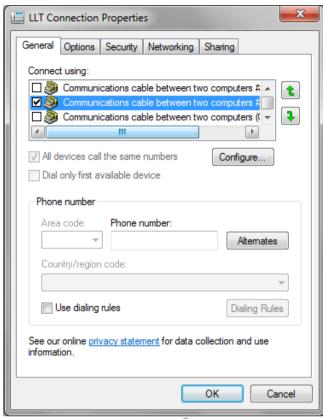
If the serial port is not displayed in the device list, check if it has correctly defined (see chapter <u>Installing</u> the null modem driver).

Before using LLT application check that LLT cable is correctly plugged into the right serial connector.

9.2.4. Communication port configuration

Used communication port configuration is made from Connection LLT menu: Connection configuration...

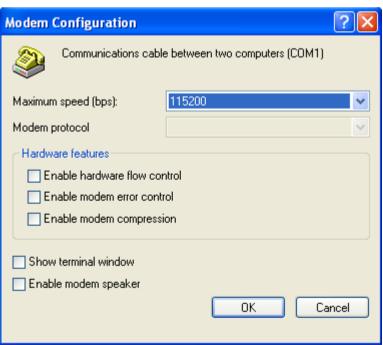




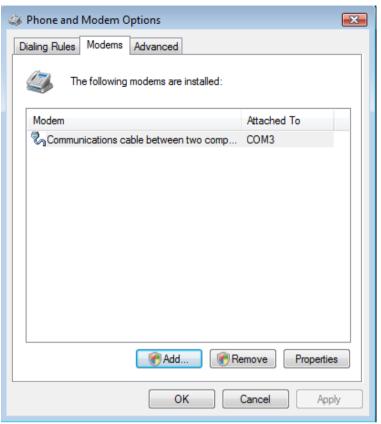
Under Windows®XP

Under Windows[®] Vista et 7

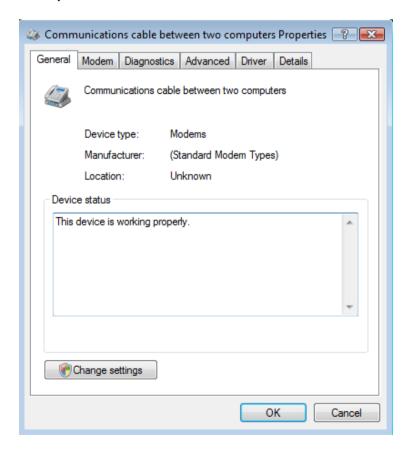
Click "Configure..."



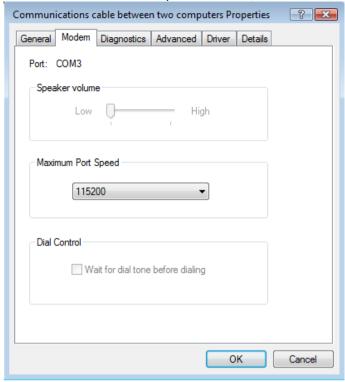
Then choose initial speed: 115200 and disable hardware flow control. Click "OK" in the different opened windows to valid these settings.



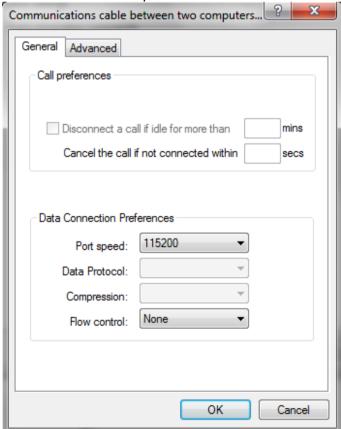
Select the port and click "Properties".



Select 'Modem' panel, and choose 'Maximum Port Speed' value 115200:



Select 'Advanced' panel, then 'Change Default Preference...', and verify "Port speed" (115200) and "Flow control" (None). Then, click OK in the different opened windows to valid these settings:



WARNING: The PC must be restarted when using the serial port interface.

10. Appendices

10.1. List of short cut keys

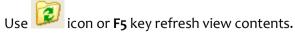
Each LLT function is accessible via the menu and is also accessible via a keyboard function key or a combination of these keys.

Function	Shortcut
Consult the User Guide	F1
Files downloading	F ₂
Files uploading	CTRL + F2
Connect to terminal	F4
Disconnect from terminal	CTRL + F4
Refresh the view contents	F5
Add to the catalogue pack list	F6
Create the catalogue pack	CTRL + F6
Reset the catalogue pack list	CTRL + SHIFT + F6
Creating a catalogue file from an existing one	F7
Creating a family	F8
Consult a catalogue file	F9
Open a file or a directory	Return
Delete some files from the view	Del
Select the favorite directory list	SHIFT + F
Add a directory to the favorite directory list	SHIFT + Ins
Delete a directory from the favorite directory list	SHIFT + Del
Select all the files	CTRL + A
Go back to the parent directory	CTRL + B
Copy file list from the view to clipboard	CTRL + C
Display the list of modules present in the terminal	CTRL + F
Terminal Information	CTRL + I
Terminal Configuration	CTRL + J
PC view is active view	CTRL + K
Exit from LLT	CTRL + Q

10.2. List of icons and their function

For each view an icon bar allows the user to access to some functions.

Use icon or **Del** key or popup menu to delete selected file(s) from the current view and from the corresponding directory (Note: Such function can be unauthorized on the terminal). When you delete a catalogue file, the software deletes associated files, only if they are not used by other files.



Use icon or CTRL+B key navigate and view the parent directory.

10.3. Problems and Solutions

Some errors are classified by code, their description is given below in order to check potential problems.

Error number	error	What to do?
Ras 602	The port is already open.	The serial port used by LLT is already used by another
		application.
Ras 624	RasPhone2000.pbk	First locate the Rasphone2000.pbk file (file located in the RAS
		subdirectory of the LLT directory application) and make sure
		that the read-only file property in the Properties dialog box is
		not selected.
Ras 629	The port was disconnected	Check that hardware flow control is still disabled on LLT or
	by the remote machine.	check that terminal is waiting for connection.
Ras 633	The remote computer is in	Check USB port is present in the list of <u>USB connection port</u>
	used	number or check if the USB cable is connected to the USB
		port declared on PC.
Ras 638	The remote server does	On a laptop, turn off the modem if present.
D	not response	The base of the second state of the second sta
Ras 721	The remote computer did	The plugged port COMx is not selected. See chapter Selecting
	not respond.	<u>communication port</u> or see chapter <u>Installing the null modem</u> <u>driver</u> to define the used serial interface.
Ras 651	Vous connecting dayies has	
or Ras 777	Your connecting device has reported an error.	Terminal is not responding. Check connection (check the serial cable or USB cable is correctly plugged) and check that
Of Ivas ///	reported an error.	terminal is waiting for a connection. If not check <u>Selecting</u>
		communication port or Installing the null modem driver.
FTP 12002	Internet connected	Stop the Wifi connection on the PC.
FTP 12163	Internet disconnected	In web browser delete check from the Property "working off-
111 1210)	meernee disconnected	line"
	LLT displays "PPP	LLT uses port IP 6000 for data exchange. Check that the use
	Connected" then	of this port is not forbidden by the network administration
	automatically	(Firewall, Virtual Private Network (VPN)) or check the port is
	disconnecting	not used by another application.
	LLT displays "Absence of	LLT uses port IP 6000 for data exchange. Check that the use
	terminal answer"	of this port (or the LLT application) is not forbidden by the
		network administration (Firewall, Virtual Private Network
		(VPN)) or check the port is not used by another application.
Run-time	Address in used	Verify that the IP address and IP port used by the LLT are not
error '10048'		used by another application.

10.4. Known limitations

These following behaviours could happen:

Description	Workaround
When LLT is connected to the terminal, the web browser (Internet Explorer and Google Chrome) are unable to connect to Internet.	· •
In some cases, on the terminal connection, Windows doesn't recognize correctly the COM port number. After a COM port number change, the COM port is	the LLT: the connection with the terminal remains
sometimes not refreshed on the LLT side.	