



## **TELIUM SDK**

# **SDK6.5 Release Note**

Reference: ICO-ETU-09-0579-PP

Date: 2009-10-19

From: Pascal PLASSE

To: All SDK users

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## **1. PURPOSE OF THE DOCUMENT**

This document describes the evolutions since the SDK6.4.2 which is the previous version available for all terminals.

## **2. TERMINALS COMPATIBILITY**

### **2.1 CGUI**

This SDK is compatible with CGUI (Color and Graphic User Interface). To use it, you have to install the CGUI add-on. It is validated with version 1.5 of this add-on.

### **2.2 TELIUM 1**

The following terminals are compatible with this SDK release:

- EFT30
- EFT SMART
- TWIN
- UCM
- ML30
- CAD30
- SMART2

### **2.3 TELIUM 2**

The following terminals are compatible with this SDK release:

- ICT220
- ICT250 is managed with extension cards. Only the following are currently managed (only one feature available by option):
  - Card option 1 : SCR2 (=CAM2)
  - Card option 2 : GPRS /  $\mu$ SD / Contactless
  - Card option 5 :  $\mu$ SD / 2<sup>nd</sup> RS232
- SPM

### **2.4 HANDHELD TERMINALS**

This SDK is compatible with these products:

- EFT930
- EFT930 BL2
  - GPRS,
  - GPRS Contactless,
  - GPRS Color,
  - GPRS Contactless Color;
  - Bluetooth,
  - Bluetooth Contactless,
  - Bluetooth Color;

- o EFT930 BCC (Bluetooth Color Contactless) is new in this release.

However, the association between terminals and bases are validated in the following cases:

	Terminals/ Bases	930P/G/M/ BC02	930W/ BC02	930B/ BC02	930P/ BC06	930GC/ BC06	930BCC/ BC06
Non intelligent	P 1LS	Yes	Yes			Yes	
Intelligent BC02	P 2LS	Yes	Yes				
Intelligent BC02	P ETH	Yes	NA				
Intelligent BC02	B 1LS			Yes			
Intelligent BC02	B 2LS			Yes			
Intelligent BC02	B ETH		NA	Yes			
Intelligent BC06	B EM		NA				Yes
Intelligent BC06	P EM		NA				

### **3. HIGHLIGHTED POINTS**

#### **3.1 ISC350**

The ISC350 is not managed by this package. For this terminal you need to use the SDK 7.0 Preliminary for ISC350.

#### **3.2 DIR SYSTEM VERSION DOWNGRADE**

It is not possible to downgrade from a system managing directories (catalogue XXX\_DIR.mYY) to a system which not manage directories (catalogue XXX.mYY).

#### **3.3 EFT930BL2 SYSTEM VERSION DOWNGRADE**

It is not possible to downgrade from the EFT930 BL2 system version embedded in the SDK 6.4.2 (or newer), to an older one. This downgrade is blocked. It is due to a change of the time base (1 s to 125 ms).

#### **3.4 SERVICE NUMBERS**

Service numbers from 1 to 100 and from 7680 à 8191 are reserved for Ingenico internal use.

#### **3.5 PROTOTYPE more function()**

The prototype of the manager entry point `more_function()` has changed. It is now:

```
extern int more_function (NO_SEGMENT no, S_ETATOUT *in, void *out);
```

The second parameter must be changed in the applications to solve a compilation problem. It was not used before; the impact is only for compilation.

## 4. **TELIUM SYSTEM**

New version of Telium System: **08.33**.

Following points are delivered in this release.

### 4.1 **THUNDER**

- 2739 Message "Download Disk Full" in the diagnostics when there is not enough memory in the terminal to download a new system or a new manager
- 3642 There are now two files used for the diagnostic feature :
  - RESET.DIA for the information about resets
  - APPTEXT.DIA for the applicative traces
 print\_diagnostic() print these two files.
- 4271 Management of the P30buzzer
- 4461 When loading software using USB key :
  - If there is a catalog file in the selected directory, corresponding to the Mxx product, only files included in catalog file will be loaded in the terminal.
  - If there are more than 1 catalog file in the selected directory, corresponding with the Mxx product, the user must choose in the list of catalog files.
- 4545 Function SoftwareCheck added. Sam functionality than softwareactivate without activating software
- 4605 Modification of trace tool to have the information of the number of pages allocated in each DLL.
- 4803 ObjectUnload() API added to allow customer to manage dynamically components like DLLs...
- 4817 Correction to avoid GSM numbering before the start of the network
- 4969 Function added to manage the deletion of a complete application family:
  - DIILinkByType(), DIILinkByType(), ObjectRemoveByFamily().
- 5065 Ethernet traces disabled by default
- 5068 For Telicapt32, it is now possible to print more than 14 lines (function prnLinefeed)
- 5142 ObjectRead API improved:
  - ObjectSeek : to move in a file
  - ObjectTell to know the position in the file
- 5183 ISO 1,2 and 3 added in PatchDriver
- 5196 Program area size becomes 13 Mbytes
- 5257 On contactless terminals, possibility added for the applications to know where are the LEDs
- 5279 GPRS driver replace the network name 71606 by MOVIS and 71607 by NEXTEL.  
Application could add network name replacement rules with fiocctl  
DGPRS\_FIOCTL\_DEFINE\_NETWORK\_NAME.
- 5289 Simplification of PatchDriver
- 5301 Serial port configuration now possible without running a fopen
- 5332 Merge Nucleus 0115 evolution
- 5339 Self detection of traces time base

- 5344 Swap disk size increased to allow download by USB
- 5359 RAM use improved
- 5365 Problem of connection v22 2225Hz in Philippines solved
- 5396 For the Color screen terminals, Correction of reset when LLT mode activation when PMD was running
- 5436 Command added to Ldbg to return to Ingedev the architecture of the terminal (Telium 1 or 2)
- 5492 10Mbits Ethernet problem with MorphoAccess solved
- 5512 Some update on BL2 systems didn't work
- 5524 Sometimes the file RKI.PAR was not taken account
- 5530 Flow control activation was not taken account
- 5570 For ZKA, fioctl added in PatchDriver
- 5581 PatchDriver didn't work correctly for fread
- 5646 V22bis connection problems solved
- 5659 Possible modem reset with some lines
- 5693 ObjectOpen didn't return a FS\_File\*
- 5709 ObjectRemove returned -1 even if the result was OK
- 145 Correction of a problem of connexion lost on UCM-MO200
- 5732 Driver « COM21 = USB FTDI serial converter » added
- 5755 Correction of accidental Thunder security flag removal
- 5865 When an application was removed, sometimes there were some files linked to the application that were not removed
- 5877 Program area increased from 10 Mbytes to 13 Mbytes
- 5884 RemoteListFile memory leak fixed
- 5910 Correction for long diagnostic ticket
- 5936 Now, one name for each NexGen task
- 5937 Semaphore problem in the Nexgen code fixed
- 5944 There was a reset on "Info threads" (LDBG Ingedev)

## **4.2 EFT30/SMART AND SMART2**

- 5911 There was a reset after the initialisation of a pinpad PP30

## **4.3 SMART 2**

- 5778 Printer engine stop added for delayed stop

## **4.4 COLOR SCREEN TERMINALS**

- 5397 During the PMD session opening, the screen was not complete
- 5293 Correction of a bitmap displayed accidentally in the header

## **4.5 EFT930S**

There is now a catalogue without Bluetooth drivers: EFT930S\_PROD.m31

#### **4.6 HANDHELD TERMINALS**

5983 Li-ion battery detection delay improved

#### **4.7 HANDHELD TERMINALS AND BASES**

5327 Problem of Li-on battery charge fixed

5728 Correction for m31 and m39 bases catalogues

5731 Evolution for 930 catalogue to manage BC02 and BC06 Bluetooth drivers

5809 Possibility to manage 8 PPP links

5863 PPP availability delay improved

#### **4.8 930 BL2**

4834 7 handheld terminals managed by base

5486 Forbid the downgrade from the EFT930 BL2 system version 8201210115 to an older one. This downgrade is now blocked.

5669 Backlight is now maximum even if the terminal is in low battery state

5724 There was a problem of system update on EFT930

5205 Lost of terminal association fixed during multi-association

5758 Problem of EFT930 BL2 Bluetooth reset during mounting of a 2GB USB key fixed

#### **4.9 BLUETOOTH HANDHELD TERMINALS**

5110 Association between old Bluetooth terminals to new Bluetooth bases

#### **4.10 BOOSTER 1: EFT30, EFT930**

1689 Booster 1 patch downgrade is no more possible since versions 30460512 or 30930512

5526 Periodic back up of the content of RAM in flash

#### **4.11 ML30 AND SMART 2**

5699 Correction of a problem of operating system update on ingetrusted terminals

#### **4.12 ICT**

3771 Only the necessary files are loaded when the download is with a USB key

4549 RS232 is now possible on ICT220

4976 Current application data was not saved at power shutdown

5191 Problem solved of NAND blocks sometimes classified out of service in production

5208 V34 modem driver managed

5209 Possibility added to have V22 and V34 in a terminal

5281 Traces added for code violation

5347 Some USB keys were not identified after the 'Point + Yellow Key' combination or Power-on

- 5374 Possibility for ICT220 to manage a second printer (SEIKO LPTB245)
- 5540 If the downloading by V34 fails, it restarts by V22 protocol
- 5591 During a print, some micro-lines were lost
- 5440 LAR certificate problem fixed
- 5467 InterUC delay becomes 200 ms instead of 100 ms

#### **4.13 CAD30 UPT**

- 5976 Error when initialisation fixed

#### **4.14 CAD30 UCR**

- 'Is Out Of Service' information taken account in the BL2 diagnostic
- 5619 SwapFromDeviceToDevice modified now mounts the keyboard

#### **4.15 UCM**

- 5164 GPRS Hilo module supported by UCM
- 5619 For CAD30-UPT, schemes channel semaphores inter\_uc were not initialized

#### **4.16 GAMING MACHINES**

- 5253 Correction of the gaming machines S4 resets with SSL

#### **4.17 SDK**

- 5630 SPM renamed to IPA280  
MR40 renamed to CAD30UCR

#### **4.18 INGETRUST**

- 5701 Display of the information "Ingetrusted terminal"

### **5. TELIUM MANAGER**

New version of Telium Manager: **54.01**.

Following points are delivered in this release.

#### **5.1 NEW FEATURES**

- 5195 For color screen terminals, rectangle added to show the background color parameterized in the manager menu
- 5219 Automatic adaptation of the manager to screen size
- 5308 If not DLL CGUI in the terminal, the manager works like before
- 4038 Entry points added for start and end of transaction
- 4081 Possibility to do a beep when a card could be taken off
- 4243 Management of footer for ICT250
- 4384 Correction of a bad management of the regions on a black and white display
- 4609 Possibility of changing header position (top or bottom) on black and white terminal with function SetHeaderPosition()



4738	For France : adaptations for Bulletin 8
4986	On a SPM, only IP proposed as network or TMS type
5233	Software name displayed instead of version during a consultation
5309	No display of software LEDS if hardware LEDS exist
5328	Name of the application added as input of the entry point more_function
5341	To change background display, the BMP image must be signed with type 0xB3B9.
5361	SPM type = 110
5368	Amount not displayed if not yet known
5378	Name of the catalogue X07 have changed to ICT
5469	Creation of a menu to resize System Disk
5539	Documentation evolution
5611	Header is now displayed by default during the start on ML30CC
5629	'ML30+DLL color' catalogue added
5667	Enable Parameters File Deletion in manager menus
5532	Customisation of pinpad message added
5668	Compatibility between system and manager is now tested if ZKA protection is activated
5687	V34 modem information in hardware configuration ticket
5926	Bluetooth BC02/BC06 information in hardware configuration ticket
5973	Font DAX managed

## 5.2 **CORRECTIONS**

4615	Add S_TRANSOUT as output parameter for FALL_BACK entry point
5166	Start delay improved for CAD30 UPT
5230	Correction of a wrongly printed line
5282	Simulation for manager functions
5337	Information about GPRS has been added on hardware configuration menu on display.
5372	Footer was not displayed on ICT250 when there was an update from manger 52.XX to 53.XX
5449	On ML30CC, the dimension reported in Manager menu was wrong
5453	"Type syst accept : 22" et "Type architecture : 10" have not to be displayed on non-French terminals
5514	'Buzzer On Key Activation Menu' has not to be displayed on UCM.
5518	Correction in the consultation menu display
5589	When then name of the application were hidden, the date were also hidden
5602	Corrections of problem when on a P30, contactless option is off
5603	Management of the message on a PinPad if DetectAndSelect didn't return

TPASS\_M2OS\_OK

- 5604 There was sometimes a wrong display of the time in the header on color screen
- 4865 Some problem of manager freezes fixed
- 5807 Crash when printing big bitmap
- 5896 Display requesting the come back to base was not refreshed
- 5925 Screen was not cleared with a command : fopen("DISPLAY","w\*")
- 5927 IS\_TIME\_FUNCTION was not called after 1 minute after call to StatetHeader(0)
- 5984 There was a reset of the terminal in the Bluetooth advanced menu
- 5840 Correction for management of forced authorization call in idle mode
- 5876 There were some bad values for GPRS error codes
- 4038 Start and end of transaction entry points added
- 6081 In the initialization "Money" is replaced by "Currency"

## **DLL SECURITY**

New version of DLL Security is: **03.09**.

Following points are delivered in this release.

Modifying SEC\_FreeSecret, SEC\_IsSecretArea to manage a secret area whose format can vary

- 5297 Correction of SEC\_FReeSecret for a Dukpt key when secret area format is TLV\_BL1
- 5311 Correction for Telium2: output of SEC\_GetSecretAreaType() is now C\_UTLV\_TYPE\_NO\_SECRET when secret area does not exist.

## **6. DLL HARDWARE**

New version of DLL Hardware is: **02.31**.

Following points are delivered in this release.

- 3138 Menu Battery is no more displayed the terminal is without battery
- 4894 Backlight has now a minimum value on color display (0 before)
- 5111 Management of new bases BEM (Bluetooth / Ethernet / Modem)
- 5308 Maximum sleep mode delay is now 59 seconds
- 5367 After loading a new version of manager, the sleep mode delay and the lighting duration were lost
- 5515 /HOST/HWCNF.PAR now allows to configure intensity and duration of backlight, sleep mode delay and start-up by tilt
- 5713 Allows an application to change and restore intensity of backlight
- 5984 Correction of a reset in base advanced settings

## **7. SCHEMES**

No evolution: version is **03.06**.

## **8. LINKLAYER**

New version of Link Layer: **03.10**.

Following point is delivered in this release.

5114 Management of V34

## **9. AVL (ADDED VALUE LIBRARIES)**

New version of AVL: **01.05**.

Following point is delivered in this release.

5147 String format added for XML parameter file

## **10. SDK**

### **10.1 SIMULATOR**

New version of the Simulator: **02.05**.

Following points are delivered in this release.

- 5380
  - fork has not to be simulated (due to conception) : it is removed (it resetted the terminal when called)
  - NumPrimitive of the structure S\_DECODE\_FUNCTION on 2 bytes instead of 1
  - Syntax warning correction in array S[] in src\_moteur/des.c
  - Removed warning in supplied files
  - Beginning of FT5379 : Files supplied splitted
  - Simulation.dll has to display the function names which are in SimuCst.txt to avoid confusion of function number between 2 SDK deliveries
  - fwrite : buffer to write becomes IN\_ONLY
  - SEC\_ExecScheme : pt\_Execsch->cbResident was not transfered
  - Optimization for ServiceCall simulated function : long buffer are transfered only if needed
  - Function Saisie\_Alphanumerique now not automatically generated to allocate memory for sub-structure
  - Correction of serialisation of T\_SEC\_DATAKEY\_ID
  - Correction of serialisation of SEC\_ExecScheme
  - FT5283 : correction for functions in rtctimer (including correction of ReadDateBooster, FT5862)
  - Correction of Aschex
  - Added simulation for service custom message (on simulateur engine only)
  - new families for new files from manager
  - Correction of PSQ\_Donner\_noserie (output was 0 all the time)
  - catalogue m39 added

[END OF DOCUMENTATION]