PC Simulator for Semi-integrated Solution (WINTSI)

USER'S GUIDE
0120-08180-0107

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1. Introduction

This document describes the installation steps and the use of Window Telium Semi-Integrated Application.

In this document, the «WINTSI» abbreviation will be used to designate Window Telium Semi-Integrated Application.

WINTSI application is a PC application that is used as Electronic Cash Register (ECR) simulator.

To install and use this application follow the different steps described below:

- Software installation
- Connecting a terminal to your PC.
- Using WINTSI

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2. Environment requirement

In order to work correctly, WINTSI Application requires .NET framework 2.0 SP2 to be installed in your computer.

WINTSI application is Windows XP and Windows 7 compatible.

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3. How to install WINTSI

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

Before installing WINTSI application, make sure that all WINTSI applications are closed.

Once you have completed the setup process, you can launch WINTSI by double-clicking on WINTSI icon or from Start button Choose: Programs >> WINTSI >> Run WINTSIxx.yy.

- Double-click on the setup executable file "setup.exe":

If .Net Framework 2.0 SP2 is not installed on the machine, WINTSI installation will be canceled and a message will appear asking user to download and install .Net Framework 2.0 SP2.

Click « Yes » button to download the required Framework. Your PC must be connected to the INTERNET.

- Once .Net Framework is installed, you can proceed with the installation of WINTSI application.

- Follow setup steps until getting WINTSI installed on the PC.

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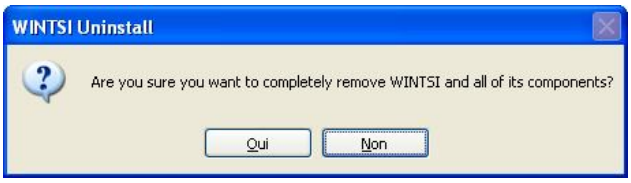
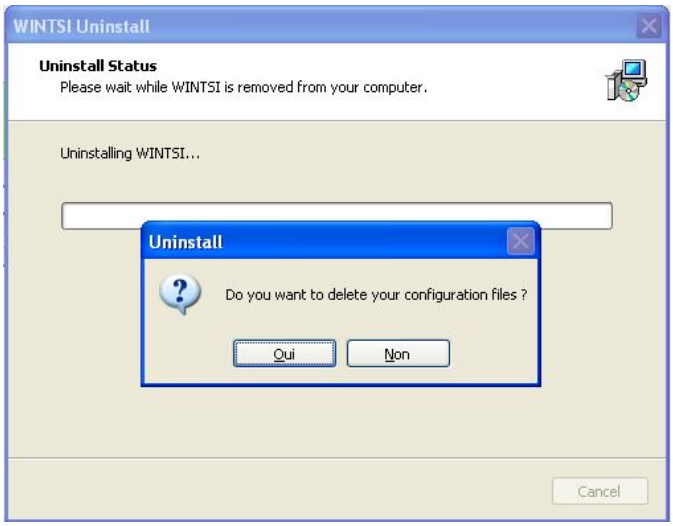
4. How to uninstall WINTSI

From task bar, click Start and choose Programs -> WINTSI-> Uninstall WINTSI xx.yy.



Click “yes” to uninstall WINTSI application or “No” to abort.

When “yes” is chosen, you are asked about deleting your configuration files. Click “yes” to delete configuration files or “No” to abort.



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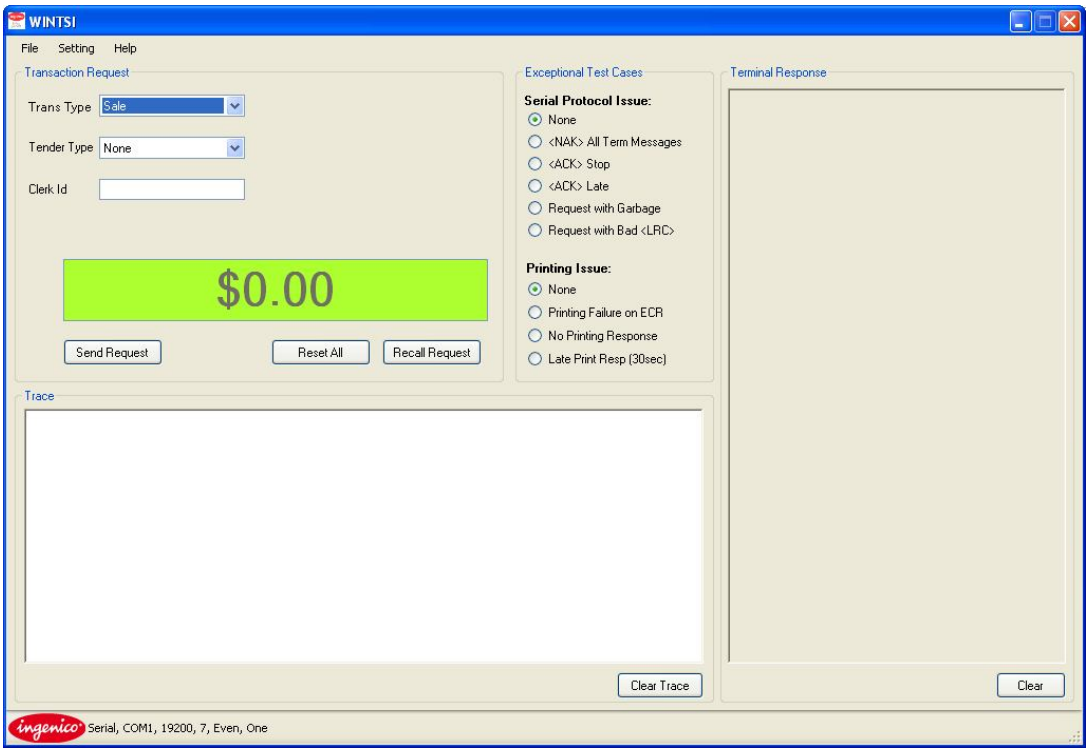
5. Using WINTSI

5.1. WINTSI main view

When WINTSI application is started, the main view appears and it is composed of:

- File menu: allows importing/exporting configuration and exporting Traces and Terminal Responses into a file.
- Setting menu: allows the modification of the communication settings, configuration of Tender and transaction type and enabling/disabling trace area.
- Help menu: gives the access to user help.
- Transaction Request: contains the required ECR transaction inputs.
- Terminal Response: allows displaying receipt/Transaction Response incoming from terminal.
- Trace area: trace all transmitted and received messages.
- Exceptional Test Cases



5.2. File Menu

The file menu gives the access to:

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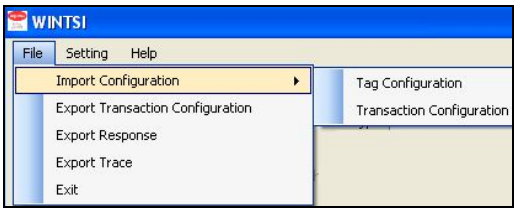
- Import configuration files.
- Export transaction Configuration in XML file format.
- Export the Trace in text file format.
- Export the Transaction/Receipt response in text file format.
- Exit WINTSI Application.

5.2.1. Import Configuration

This submenu allows importing the configuration files:

- Tag Configuration file: this file contains the List of tags that will be used by WINTSI application.
- Transaction Configuration file: this file contains the list of transaction and tender type that will be used by WINTSI application.



5.2.1.1. Tag Configuration

To import Tag configuration file:

- Select File >> Import Configuration>>Tag Configuration
- Choose the Tag file you want to import
- Press “Open” button

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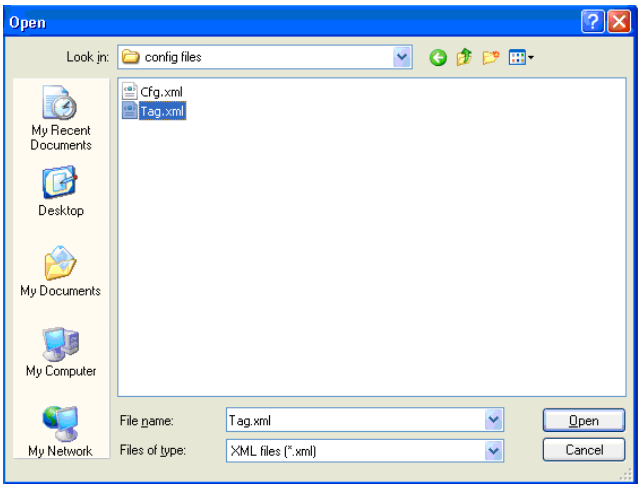
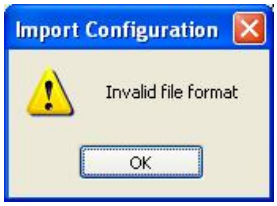


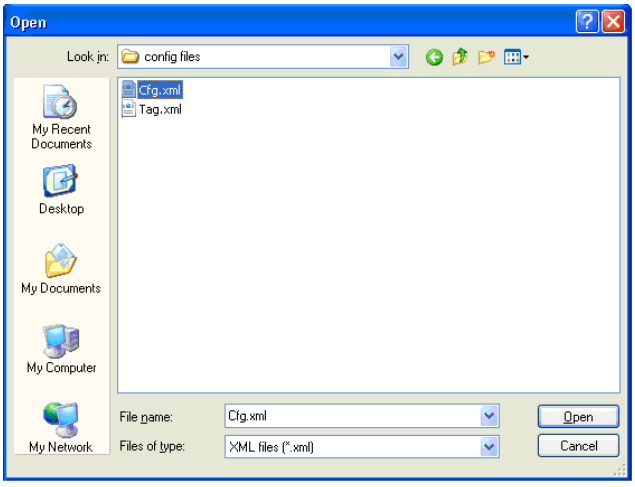
If the selected file has an invalid format, the following warning message will be displayed.



5.2.1.2. Transaction Configuration

To import Transaction configuration file:

- Select File >> Import Configuration>>Transaction Configuration
- Choose the transaction configuration file
- Press “Open” button



If the selected file has an invalid format, the following warning message will be displayed.

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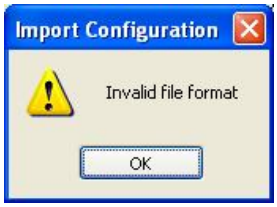
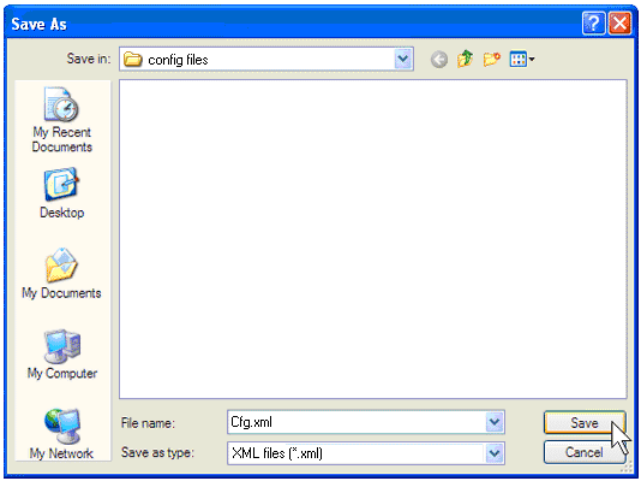


5.2.2. Export Transaction Configuration

To save the transaction configuration settings:

- Select File >> Export Transaction Configuration>>
- Choose the repository
- Enter the file name
- Press “Save” button



5.2.3. Export Response

To save Transaction/Receipt response data in text file format:

- Select File >> Export Response>>
- Choose the repository
- Enter the file name
- Press “Save” button

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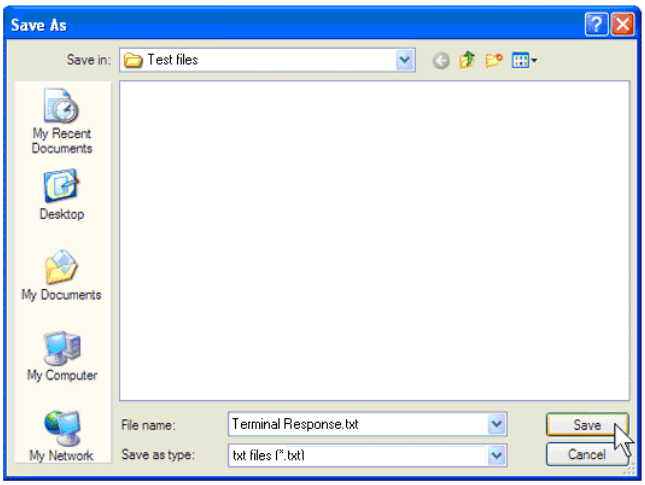
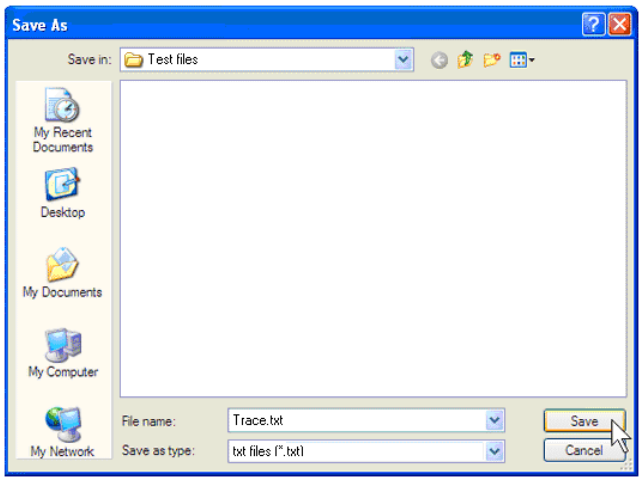


5.2.4. Export Trace

To save trace:

- Select File >> Export Trace>>
- Choose the repository to save in file
- Enter the file name
- Press “Save” button



5.3. Setting Menu

5.3.1. Communication

WINTSI application supports the configuration of communication settings that can be either Serial (RS232/USB) or Ethernet.

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If the communication is correctly configured, the communication settings will be saved in configuration file. Thus, when user opens the Communication Menu again the old communication settings will displayed.

5.3.1.1. Serial (RS232/USB)

If terminal is connected to PC through Serial link RS232/USB, you might:

- Select "Serial (RS232/USB)" communication type.

  ➔ The application displays all ports available on your machine.
- Select the COM Port.
- Select the baud rate.
- Press "OK" button.

5.3.1.2. Ethernet

If the terminal is connected to PC through Ethernet, you might:

- Select "Ethernet".
- Enter terminal "IP address" (it's a mandatory field).
- Enter the listening "IP Port" (it's a mandatory field).
- Press "OK"

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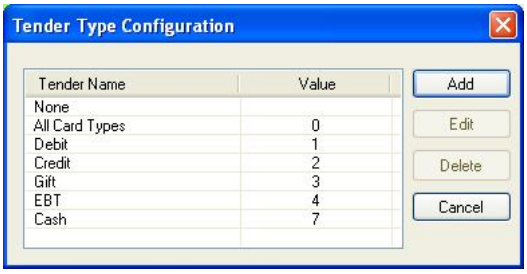
When a mandatory field is not correctly set, WINTSI will display a warning message.

5.3.2. Tender

WINTSI application supports Tender type configuration. The Tender configuration window allows:

- Adding a Tender
- Editing an existing Tender
- Deleting an existing Tender



5.3.2.1. Adding Tender

To add new Tender, you should:

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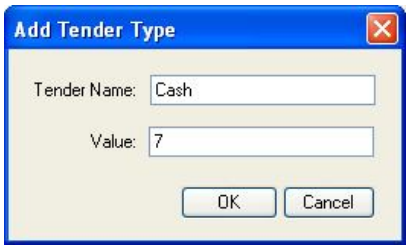
- Click “Add” button, the below dialog window will be displayed



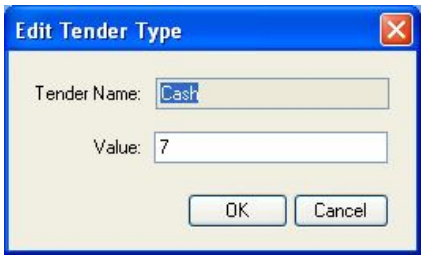
- Enter tender name (duplicate tender Names are not allowed)
- Enter Value (the value must be numeric and one character long)
- Click “OK”

➔ After adding new Tender, the Tender list is updated.

5.3.2.2. Editing Tender

To edit an existing Tender, you might:

- Select the Tender you wish to modify
- Click "Edit" button or double click on the active line, the below dialog will be opened.



- Modify tender Value
- Click “OK”

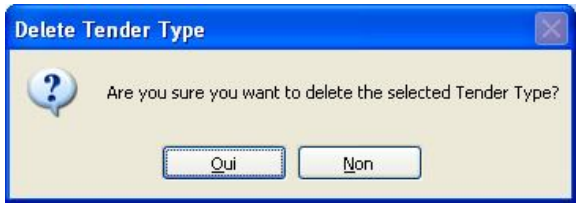
➔ The selected Tender is updated in the Tender list.

5.3.2.3. Deleting Tender

To delete an existing Tender, you might:

- Select the Tender line you wish to delete
- Click "Delete" button

➔ A message is displayed to confirm the Tender deletion.



- Click “yes” to confirm

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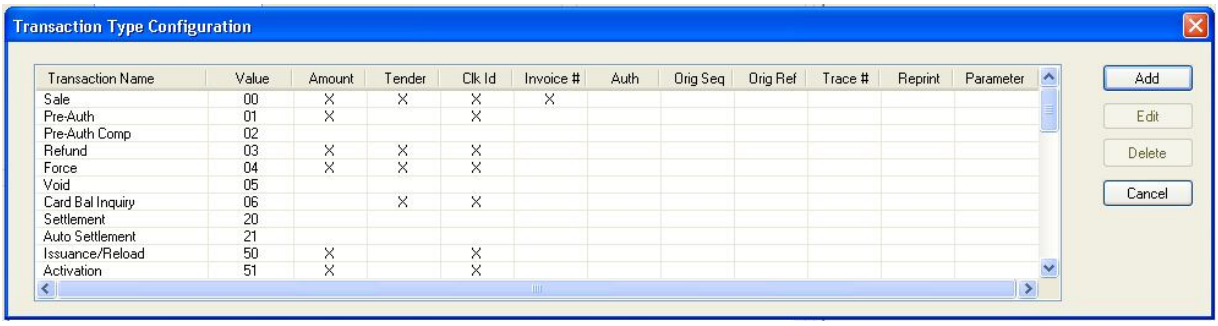
➔ The selected tender is removed from the tender list.

5.3.3. Transaction

WINTSI application supports Transaction configuration.

This includes:

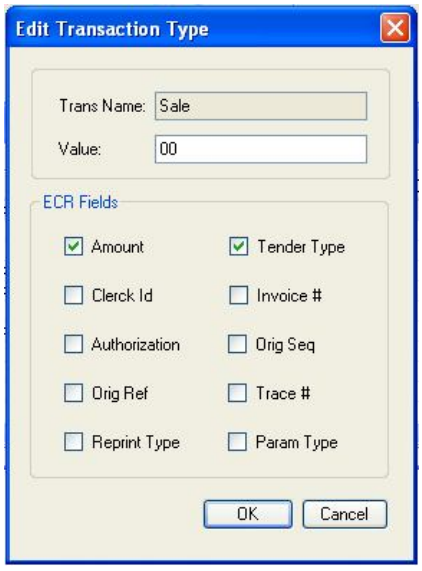
- Adding a Transaction
- Editing a Transaction
- Deleting a Transaction



5.3.3.1. Adding Transaction

To add new Transaction, you might:

- Click "Add" button, the below dialog will be opened



- Enter the Transaction name (duplicate Transaction Names are not allowed)
- Enter the Transaction ID (it must be numeric and two characters long)
- Check the required ECR fields that should be active when this Transaction type in WINTSI Transaction is selected.

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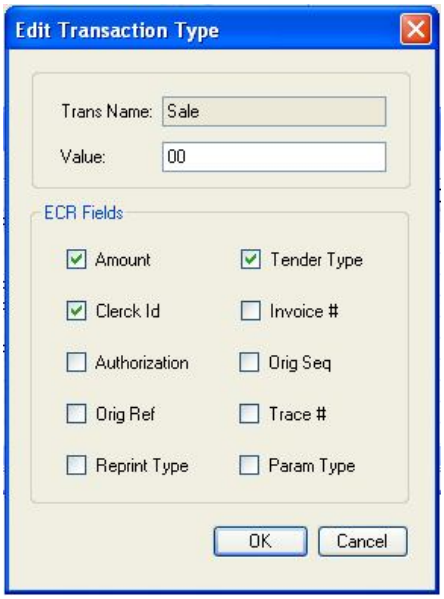
- Click “OK”

  ➔ After adding the new transaction, the transaction list will be updated.

5.3.3.2. Editing Transaction

To edit an existing Transaction, you might:

- Select the transaction you wish to modify
- Click "Edit" button or double click on this line, the below dialog will be opened.



- Modify the Value or the required ECR fields
- Click “OK”

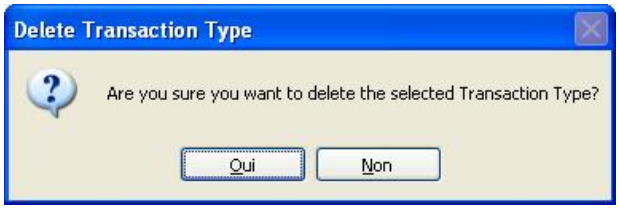
  ➔ The selected Transaction is up dated in the Transaction list.

5.3.3.3. Deleting Transaction

To delete an existing Transaction, you might:

- Select the Transaction line you wish to delete
- Click "Delete" button

  ➔ A message is displayed asking to confirm the deletion



- Click “yes” to confirm

  ➔ The selected Transaction is removed from the Transaction list.

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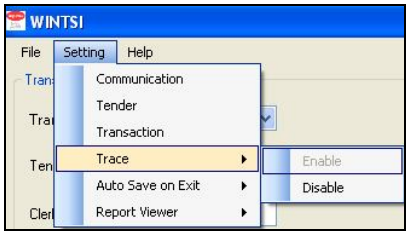
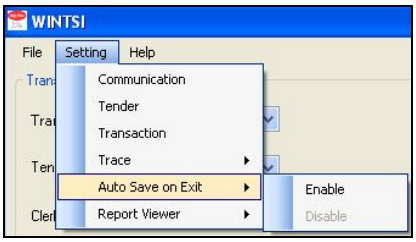
5.3.4. Trace

This submenu contains menu serves to enable or disable the trace.



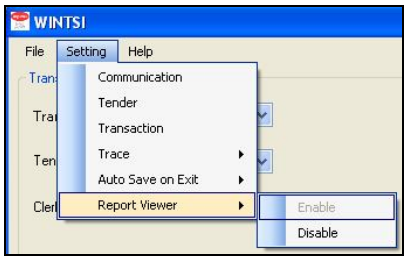
5.3.5. Auto Save on Exit

If "Auto Save on Exit" setting is selected, traces are automatically saved when user exits the WINTSI. The trace files are automatically saved in AutoSaveTrace folder under the installation directory of WINTSI.



5.3.6. Report Viewer

By default the "Report Viewer" option is enabled. So, if a report response is received from terminal a window appears to display the details of report. "Report Viewer" can be disabled by selecting "Disable" in the sub-menu.



5.4. Help Menu

This menu allows user to access to "User Manual" and see the version of WINTSI application.

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5.5. Transaction Request

This section allows user to fill all transaction inputs in order to transmit request to terminal device. It contains:

- Transaction request fields
- "Send Request" button
- "Reset All" button
- "Recall Request" button

5.5.1. Transaction request fields

The possible transaction fields are:

- Transaction type.
- Tender type.
- Clerk Id.
- Invoice #.
- Authorization #.
- Amount.
- Original Sequence #.
- Original Reference #.
- Trace #

Depending on the configuration of transaction, the request fields appear in the main window.

Example:

The available fields are:

- Tender type
- Clerk Id
- Amount

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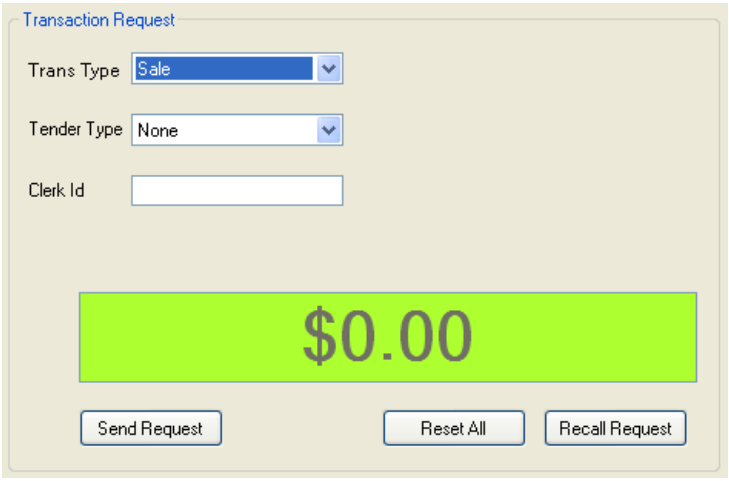

5.5.2. "Send Request" button

After entering the required transaction request fields, Click "Send request" button to send the ECR request to terminal.

5.5.3. "Reset all" button

"Reset all" button resets all transaction request fields.

5.5.1. "Recall Request" button

"Recall Request" button is used to request the last Transaction response to be sent to ECR again.

5.6. Trace

WINTSI application supports tracing all the exchanged messages between WINTSI and terminal.

The Trace window includes:

- Connection status: connected or disconnected
- Messages transmitted to the terminal with:
  - "=>" arrow
  - Date and time of the message
  - The Message data
- Received messages:
  - "<=" arrow
  - Date and time of the reception
  - The received message data

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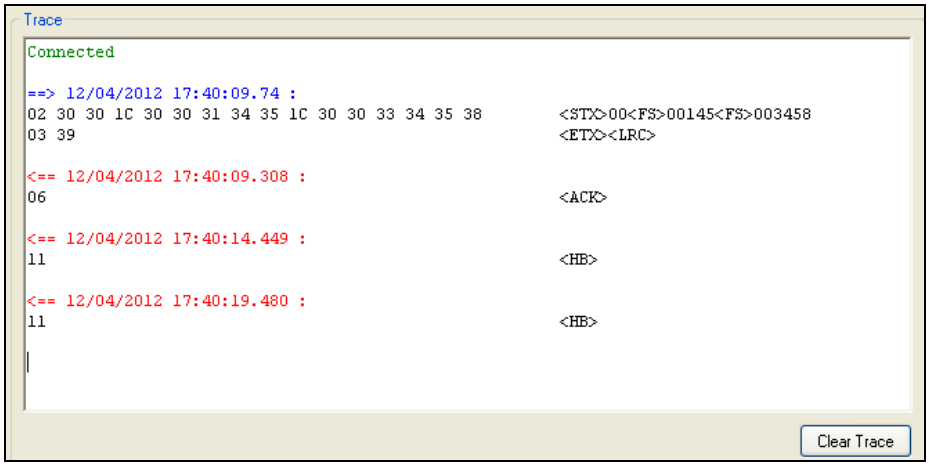

5.7. Terminal response

WINTSI application shows all transaction response and receipt messages incoming from the terminal. The Transaction Response window includes:

- Receipt message data: This section contains all received data field and record field information. It contains:
  - Data Fields:
    - Tag value
    - Tag description
    - The field data
  - Record Fields:
    - Record index
    - Tag value
    - Tag description
    - The field data
  - ECR Printing response (Printing Accepted, Printing Rejected, etc.)

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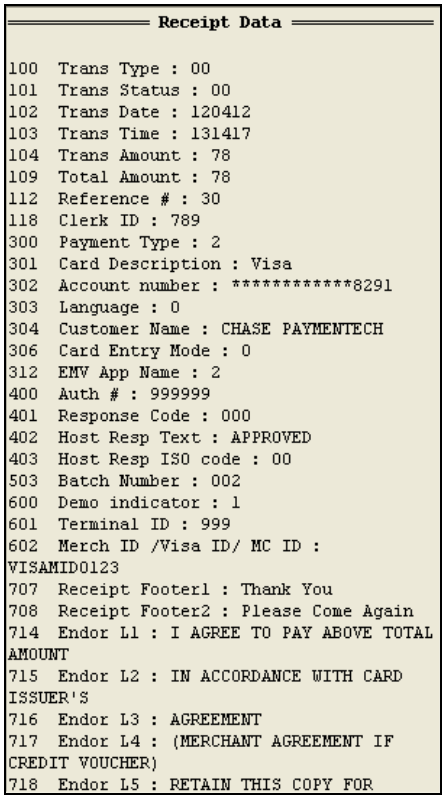

- Transaction Result data: This section contains all received Tag data field and record field information. It contains:
  - Multi Transaction Flag value(0 or 1)
  - Data Fields:
    - Tag value
    - Tag description
    - The field data
  - Record Fields:
    - Record index
    - Tag value
    - Tag description
    - The field data

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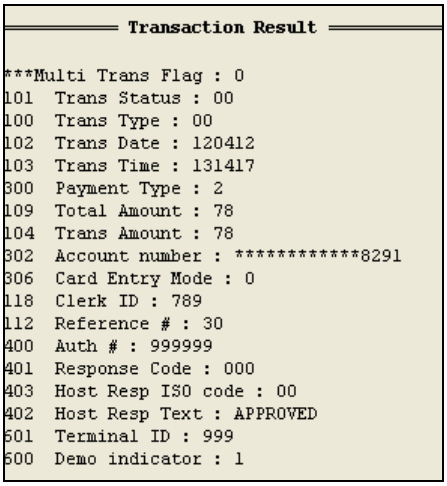

5.8. Reports

Depending on the xml configuration, the WINTSI application may supports generating several reports (Detail report, Summary report...) incoming from the terminal.

Below is an example of a generated rapport (Summary report).

5.9. Exceptional Test Cases

WINTSI application allows doing some exceptional tests in order to test the terminal behavior when some issues are occurred.

The Exceptional Test Cases are composed of:

- Serial Protocol Issues:
  - None
  - <NACK> All Term Messages: WINTSI applications will NACK all Terminal responses.
  - <ACK> Stop: WINTSI application stops acknowledging Terminal responses.

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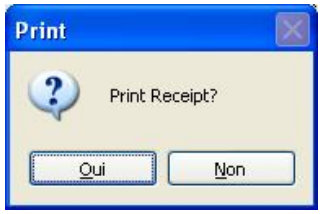
- <ACK> Late: WINTSI application acknowledges lately the Terminal responses.
- Request with Garbage: WINTSI application sends the messages with garbage data to the terminal.
- Request with bad <LRC>: WINTSI application sends the messages with incorrect <LRC>.

- Printing Issues:
  - None: When WINTSI receives a receipt response, the user is asked to accept or refuse printing on ECR.



  - Printing Failure on ECR: WINTSI application will refuse the Terminal receipt response by sending "Printing NOK".
  - NO Printing Response: WINTSI application will not send a printing response to the Terminal.
  - Late Print Resp (30s): WINTSI application will send accepting printing response lately (After 30 sec of receiving receipt data).

5.10. Error Messages

This section describes the different error messages that can be displayed by WINTSI Application during various operations.

Message text	Description	Action
Invalid file format	When the imported configuration file is not conform to the allowed XML format.	Click Ok
Invalid Tender Name!	This message is displayed if the entered tender Name is invalid.	Click Ok
Invalid Tender Value!	This message is displayed if the entered Tender Value is invalid.	Click Ok
Tender Type already used!	This message is displayed if the entered Tender Name already exists in configuration file.	Click Ok
Invalid Transaction Type!	This message is displayed if the	Click Ok

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	entered Transaction type is invalid.	
Invalid Transaction value Format!	This message is displayed if the entered Transaction value is invalid.	Click Ok
Transaction Name arleady used!	This message is displayed if the entered transaction type already exists in configuration file.	Click Ok
Invalid IP Adress!	This message is displayed if the IP Address field contains blank.	Click Ok
Invalid IP Port!	This message is displayed if the IP Port field is empty.	Click Ok
An error was occured, check your PDF reader!	This message is displayed if user guide cannot be read.	Click Ok
Connection failed: Terminal not found!	This message is displayed when: -Terminal not Connected to the pc. -Communication Settings are incorrect	Click Ok
COM port not Found	This message is displayed if COM Port is no more available.	Click Ok
Error occurs when writing in log file!	This message is displayed when an error in writing log file was occurred.	Click Ok

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