TETRA Terminal PFC

Operation Guide

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Contents

Documentation Information **1**
1. Introduction **2**
2. Basic Operation **4**
2.1 Operation Flow 4
2.2 Obtaining authorization information 4
2.3 Applying for the License 5
2.4 Enabling the paid feature 5
3. Related Operations **8**
3.1 Restoring Factory Settings of Paid Features 8
3.2 Updating the License 9
4. FAQ **10**
A Abbreviations **11**

Documentation Information

This section describes the conventions and revision history of this document.

Conventions

Icon Conventions

Icon	Description
Tip	Indicates information that can help you make better use of your product.
Note	Indicates references that can further describe the related topics.
Caution	Indicates situations that could cause data loss or equipment damage.
Warning	Indicates situations that could cause minor personal injury.
Danger	Indicates situations that could cause major personal injury or even death.

Notation Conventions

Item	Description
" "	The quotation marks enclose the name of a software interface element. For example, click "OK".
Bold	The text in boldface denotes the name of a hardware button. For example, press the **PTT** key.
->	The symbol directs you to access a multi-level menu. For example, to select "New" from the "File" menu, we will describe it as follows: "File -> New".

Revision History

Version	Release Date	Description
R2.0	11-2016	Added the descriptions on the paid features of the terminals whose firmware version is R7.6.
R1.0	09-2016	Initial release.

1. Introduction

Paid feature control (PFC) is a tool designed to manage some paid features such as DMO Repeater or DMO Gateway for TETRA terminals through the License.

This document describes how to apply for a License, import the License file and enable the paid feature.

Currently, PFC is applicable to the terminal whose firmware version is R7.1 (V3.07.18.005) or later. The following table lists the available paid feature for different terminals.

Firmware Version	Terminal	Paid Feature
R7.1	PT580H Plus / Z1p	DMO Repeater
	MT680 Plus	● DMO Repeater ● DMO Gateway
R7.5	PT580H Plus/ Z1p	● DMO Repeater ● Short Data Template
	PT790Ex	Short Data Template
	MT680 Plus	● DMO Repeater ● DMO Gateway ● Short Data Template
R7.6	PT580H Plus (B)	● DMO Repeater ● Work Order ● MSPD ● OTAP ● Short Data Template ● Route Trace
	PT580H Plus (E)	● DMO Repeater ● E2EE ● Work Order ● MSPD ● OTAP ● Short Data Template

Firmware Version	Terminal	Paid Feature
		● Route Trace
	PT580H Plus UL913 / PT580H Plus (S)/ Z1p	● DMO Repeater ● Short Data Template ● Route Trace
	PT790Ex	● Short Data Template ● Route Trace
	MT680 Plus (B)	● DMO Repeater ● Work Order ● MSPD ● OTAP ● Short Data Template ● Route Trace
	MT680 Plus (E)	● DMO Repeater ● E2EE ● Work Order ● MSPD ● OTAP ● Short Data Template ● Route Trace
	MT680 Plus (S)	● DMO Gateway ● DMO Repeater ● Short Data Template ● Route Trace

Note:

PT580H Plus and MT680 Plus whose firmware version is R7.6 are divided into Basic Type (B), Economic Type (E) and Standard Type (S). You can find the type information on the housing label. The differences between the tree types are on the charges for hardware and software functions.

2. Basic Operation

This chapter introduces the procedure of enabling the paid feature.

2.1 Operation Flow

Procedure	Role	Description	Section
Obtain authorization information	Salesman	● Obtain terminal information, i.e. terminal equipment identity (TEI) or serial number (SN) ● Identify the paid feature to be enabled	2.2
Apply for the License	Salesman	● Create an electronic workflow to apply for a License ● Obtain the License file and send it to the configuration personnel	2.3
Enable the paid feature	Configuration personnel	● Use applicable CPS to import the License file ● Enable the paid feature for the terminal	2.4

2.2 Obtaining authorization information

To obtain authentication information, do as follows:

Step 1 Communicate with the customer to get the terminal information (i.e. TEI or SN) and the paid feature to be enabled.

The salesman can guide the customer to obtain the TEI or SN through either of the following methods.

- Customer programming software (CPS)

a. Read the information from the terminal through the CPS.

b. Select "Subscriber Information -> TEI" or "Subscriber Information -> SN" to get the TEI or SN.

- Label

  For portable terminal: Remove the battery and find the label on the aluminum chassis, and check the label to get the TEI or SN.

  For mobile terminal: Find the label at the bottom of the front panel or the aluminum chassis, and check the label to get the TEI or SN.

Step 2 Save TEI or SN as an Excel file.

Each Excel file should:

- Contain all the terminals with the same paid feature.
- Save up to 5,000 terminals.

For example, the TEI of all terminals applying for DMO Repeater is saved as an Excel file with the "rep.xls" extension.

	A	B	C
1	TEI		
2	0001302F5000100		
3	0001302F5000300		
4	0001302F5000050		
5	0001302F5002400		
6			
7			
8			

2.3 Applying for the License

After obtaining authorization information, the salesman creates an MO electronic workflow to apply for the License, and then sends the license file to configuration personnel.

Caution

It is required to import the Excel file saved according to 2.2 Obtaining authorization information respectively and select the paid feature properly in the process of creating the MO electronic workflow.

2.4 Enabling the paid feature

After obtaining the License from the salesman, the configuration personnel can import the License file through the CPS and enable the paid feature to the terminal.

Note

PFC is a tool developed by the Company to manage the features. Only CPS with the firmware version R7.1 or later supports PFC.

Step 1 Connect the terminal to the PC using the programming cable.

Step 2 Open the CPS.

Step 3 Click Com. The "Com Port Dialog" dialog box appears.

Step 4 Select a port and click "OK".

Step 5 Select "More -> PFC Client". The "License" dialog box appears.

Step 6 Select the License file from the PC and click "OK". The "Update feature" interface appears.

Note:

- This interface shows the read-only authorization information saved in the License file, including the TEI and paid feature.
- A License file may contain authorization information of multiple terminals. PFC Client matches the target terminal based on the TEI and enables the paid features that have been selected.

Step 7 Click to start writing the settings into the terminal.

Ensure that the terminal is in the programming mode. If not, please restart the terminal to enter this mode.

When the programming is complete, the "Update the authorization function successfully" message will be displayed, indicating that the paid feature has been enabled.

3. Related Operations

The configuration personnel can also use the PFC Client to:

- Restore Factory Settings

  To disable the paid features that have been enabled after shipment, the configuration personnel can use this option to restore the Model Number of the terminal to the default settings.

  Note

  This operation is not applicable to the paid features that have been enabled before shipment.

- Update License

  To enable other paid features for the terminal, the configuration personnel can use this option to import new License files.

3.1 Restoring Factory Settings of Paid Features

Step 1 Enter the PFC Client interface. Refer to steps 1 to 5 in 2.4 for details.

Step 2 Click "Restore Factory". The "Restore Factory Settings" interface appears.

Step 3 Click to start writing the settings into the terminal.

Ensure that the terminal is in the programming mode. If not, please restart the terminal to enter this mode.

When the programming is completed, the "Restore factory settings successfully" message will be displayed, indicating that the Model Number have been restored to default setting.

3.2 Updating the License

Step 1 Enter the PFC Client interface. Refer to steps 1 to 5 in 2.4 for details.

Step 2 Click "Update License". The "License" dialog box appears.

Step 3 Select the License file and click "OK". The "Update feature" interface appears.

This interface shows the authorization information saved in the newly added License file.

4. FAQ

Q: What should I do when the following error message appears during enabling the paid feature?

A: This message indicates that the authorization information of the terminal cannot be found in the current License file. In this case, it is required to provide the TEI or SN of the terminal when applying for the License. Refer to 2.2 Obtaining authorization information for details.

A Abbreviations

Abbr.	Full Name
CPS	Customer Programming Software
PFC	Paid Feature Control
MSPD	Multi-slot Packet Data
TEI	Terminal Equipment Identity

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