



# Configuring KlasTA to Dial with a STE over Satellite

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The information in this article applies to:

- o KlasTA
- o STE

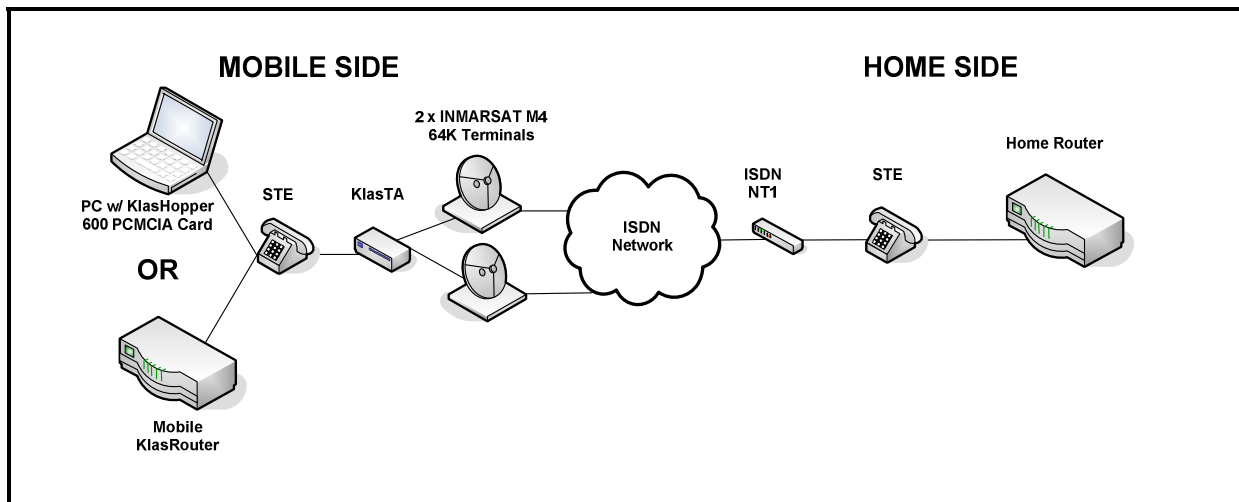
## Table of Contents

1.0 Introduction.....	2
2.0 Cable Connections .....	2
3.0 Configure the STE .....	3
4.0 Configuring KlasTA .....	3

## Table of Figures

Figure 1. Sample Scenario using the STE for Type-1 Encryption .....	2
Figure 2. KlasTA Configuration Main Screen.....	3
Figure 3. KlasTA Configuration Profiles Screen.....	3
Figure 4. KlasTA Input Device Screen.....	4
Figure 5. KlasTA Splitter Screen.....	4
Figure 6. KlasTA Extra Configuration Commands Screen .....	5
Figure 7. KlasTA Configuration Summary Screen.....	5
Figure 8. KlasTA Configuration Progress Screen .....	6
Figure 9. KlasTA Save Profile Screen.....	6

## 1.0 Introduction



**Figure 1. Sample Scenario using the STE for Type-1 Encryption**

This document describes how to configure a KlasTA on the Mobile Side connected to a STE to dial a 128K ISDN call, as shown in Figure 1. The Mobile Side represents a user in a deployed environment and the Home Side represents a fixed terrestrial network with an established ISDN BRI connection. Since the STE has built-in 128K ISDN capability, it can be used in conjunction with KlasTA to initiate an ISDN call through two separate M4 INMARSAT Terminals. When initiating the connection, the STE will send the dial string to the KlasTA. The KlasTA will then relay the dial string on to each of the M4 Terminals in order to establish the satellite connection. Once a secure connection is made with the Home Side STE, the KlasTA will act as a splitter in order to divide the 128K output from the STE into two separate 64K channels for transmission over each of the M4 Terminals.

## 2.0 Cable Connections

Prior to beginning, ensure the following cable connections have been properly secured. For more information on the physical set-up of each device, refer to KlasTA Application Note 103002.

1. Power cord is plugged in and KlasTA is on.
2. Control Port Cable is connected to the PCs serial port.
3. Control Port Cable is connected to the 'Control' port on the front of the KlasTA.
4. ISDN cable is connected from the RJ-45 ISDN Output port on the STE to the RJ-45 ISDN Input Port on the KlasTA.
5. ISDN cables are connected from the RJ-45 ISDN Output Ports 1 and 2 on KlasTA to the RJ-45 S/T Input Ports on each of the M4 Terminals.

**Configure KlasTA to Dial a 128K Connection with a STE**

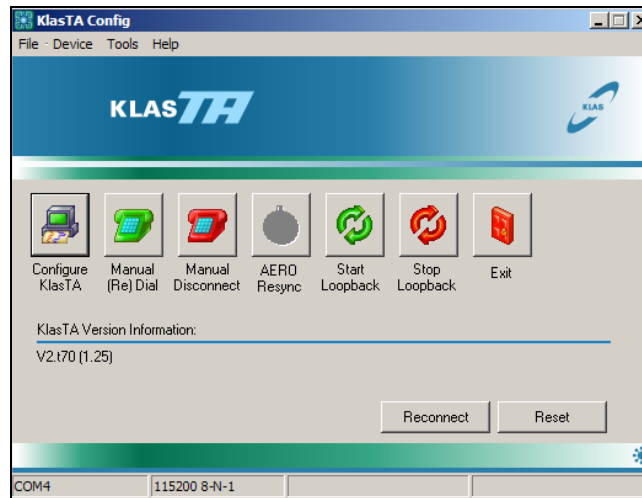
### 3.0 Configure the STE

The STE has a specific sequence of settings that allow it to encrypt data using the RS-530 serial data port. Follow the instructions from Klas Application Note Q100012 in order to configure the STE so that it will work properly with KlasTA.

### 4.0 Configuring KlasTA

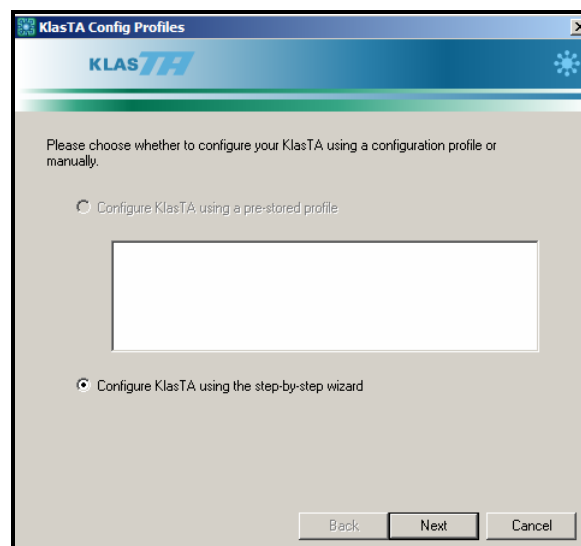
Open the KlasTA configuration application on your PC. Follow the steps below to configure KlasTA.

1. Click on the 'Configure' button on the opening menu.



**Figure 2. KlasTA Configuration Main Screen**

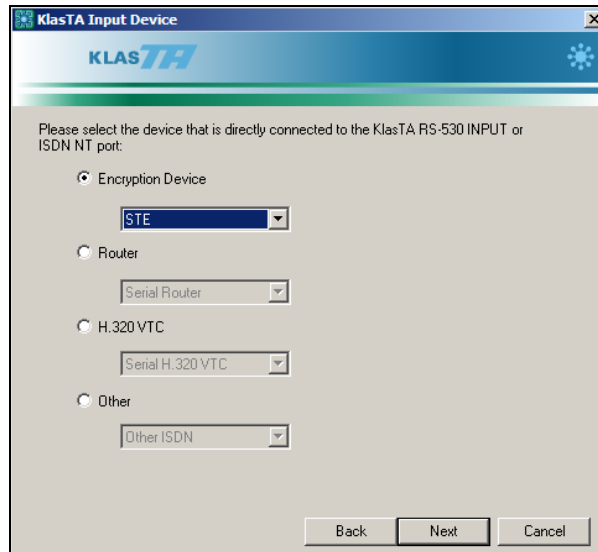
2. Check the 'Configure KlasTA using step-by-step wizard' radio button. Click the 'Next' button to continue and move on to the next configuration screen.



**Figure 3. KlasTA Configuration Profiles Screen**

**Configure KlasTA to Dial a 128K Connection with a STE**

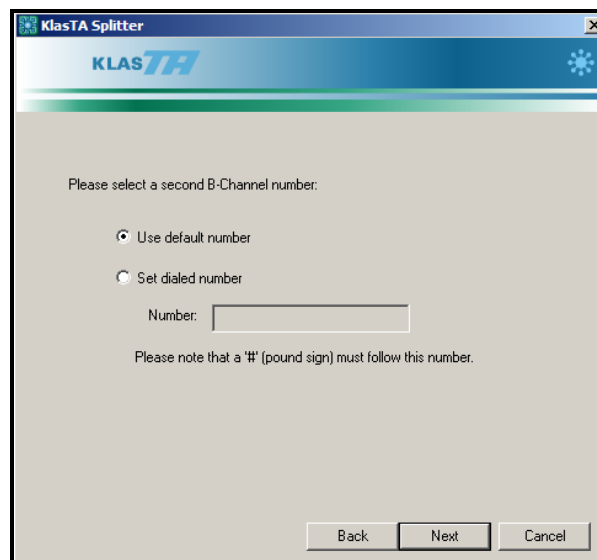
3. Check the 'Encryption Device' radio button and select STE as the Encryption Device from the pull-down menu.



The screenshot shows the 'KlasTA Input Device' configuration window. The title bar reads 'KlasTA Input Device' and the logo 'KLAS TA' is visible. The main text says: 'Please select the device that is directly connected to the KlasTA RS-530 INPUT or ISDN NT port:'. There are four radio button options: 'Encryption Device' (selected), 'Router', 'H.320 VTC', and 'Other'. Each option has a corresponding pull-down menu: 'STE' for Encryption Device, 'Serial Router' for Router, 'Serial H.320 VTC' for H.320 VTC, and 'Other ISDN' for Other. At the bottom right, there are three buttons: 'Back', 'Next', and 'Cancel'.

**Figure 4. KlasTA Input Device Screen**

4. Check the 'Use default number' radio button indicating that you will use the dial-strings from the STE and do not wish to specify any more.



The screenshot shows the 'KlasTA Splitter' configuration window. The title bar reads 'KlasTA Splitter' and the logo 'KLAS TA' is visible. The main text says: 'Please select a second B-Channel number:'. There are two radio button options: 'Use default number' (selected) and 'Set dialed number'. Below the 'Set dialed number' option is a text input field labeled 'Number:'. Below the input field, it says: 'Please note that a '#' (pound sign) must follow this number.'. At the bottom right, there are three buttons: 'Back', 'Next', and 'Cancel'.

**Figure 5. KlasTA Splitter Screen**

**Configure KlasTA to Dial a 128K Connection with a STE**

- The Extra Config Commands screen allows you to enter manual commands that enable seldom used features. No extra configuration commands are needed for this setup.

KlasTA Extra Config Commands

KLAS TA

Please enter any extra configuration commands here:

1:  2:

3:  4:

5:  6:

7:  8:

9:  10:

Back Next Cancel

**Figure 6. KlasTA Extra Configuration Commands Screen**

- Review the configuration options to ensure they are correct and then click on the 'Configure' button to initiate the configuration sequence on the KlasTA. Depending on the existing stored settings, you may be alerted that this configuration requires a firmware change. Click on the 'OK' button to continue the configuration sequence.

KlasTA Summary

KLAS TA

Please review the following configuration details and click <Configure> to start configuring your KlasTA.

Mode: Splitter

Input Device: STE

Output Device: 2 x 64K M4

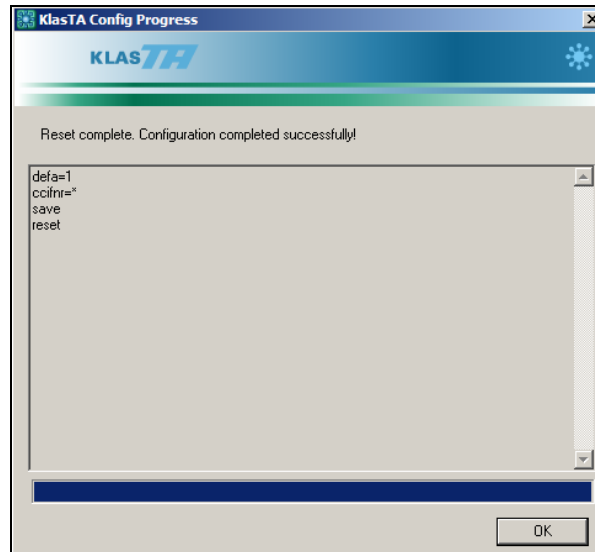
B2 Dial Number: \*

Back Configure Cancel

**Figure 7. KlasTA Configuration Summary Screen**

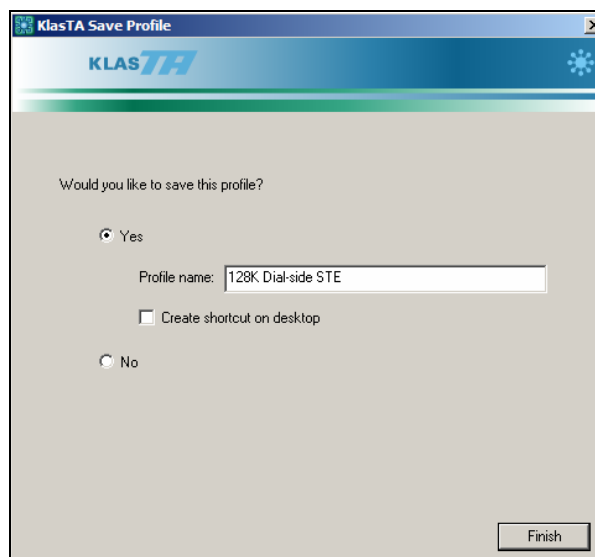
**Configure KlasTA to Dial a 128K Connection with a STE**

- Click on the 'OK' button once the configuration sequence has successfully completed.



**Figure 8. KlasTA Configuration Progress Screen**

- If desired, click the 'Yes' radio button to save this configuration as a Profile. Click on the 'Finish' button to go back to the Main Menu.



**Figure 9. KlasTA Save Profile Screen**

## **MORE INFORMATION**

For more information about KlasTA and other Klas products, visit the following Klas website:

*<www.klasonline.com>*

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