



# Configuring KlasTA to Manual Dial with a KIV-7 using AERO

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The information in this article applies to:

- KlasTA
- KIV-7

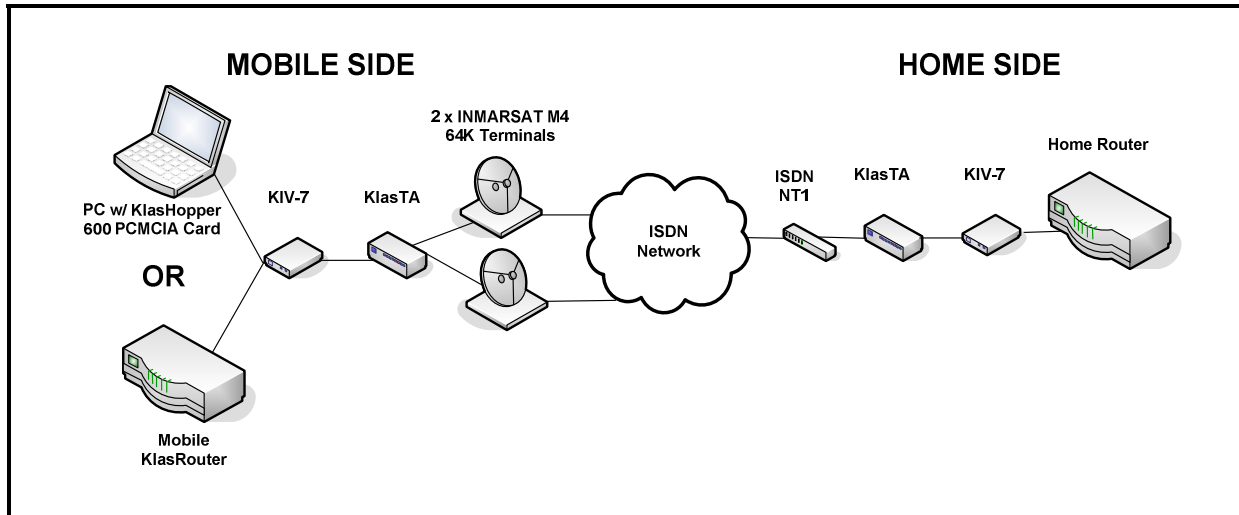
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## 1.0 Introduction



**Figure 1. Sample Scenario using the KIV-7 for Type-1 Encryption**

This document describes how to configure a KlasTA connected to a KIV-7 in order to manually dial a 128K connection using two 64K INMARSAT satellite terminals. In this example, KlasTA uses the AERO protocol in order to multiplex the data stream from the RS-530 synchronous serial port into two individual 64K channels. These channels will be sent through the two ISDN Output ports on the KlasTA connected to the INMARSAT terminals. Follow the directions in the sections below outlining the steps from the KlasTA configuration wizard.

## 2.0 Cable Connections

Prior to beginning, ensure the following cable connections have been properly secured:

1. Power cord is plugged in and KlasTA is on.
2. Control Port Cable is connected to the PC's serial port.
3. Control Port Cable is connected to the 'Control' port on the front of the KlasTA.
4. Black KIV-7 cable is connected to the male RS-530 connector of the KIV-7 and the female RS-530 synchronous serial port on the KlasTA.
5. ISDN cables are connected to the RJ-45 ISDN Output Ports 1 and 2 from KlasTA and the ISDN ports on each M4 Terminal.

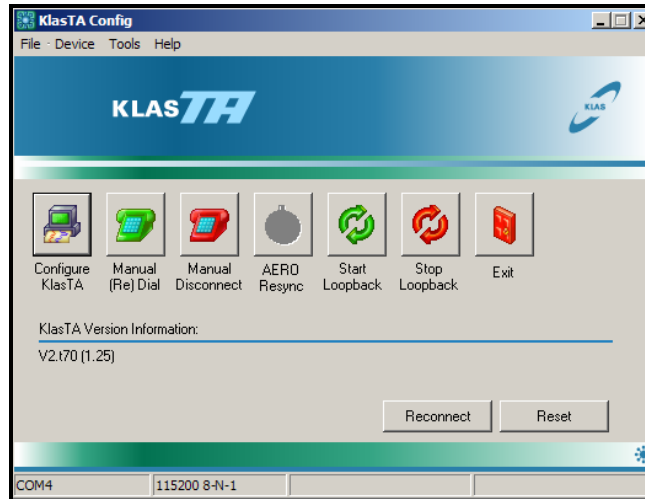
## 3.0 Configure the KIV-7 to work with KlasTA

The KIV-7 has a specific sequence of settings that allow it to encrypt data using the RS-530 serial data port. Follow the instructions from Application Note Q100004 in order to configure the KIV-7 so that it will work properly with KlasTA.

## 4.0 Configuring KlasTA

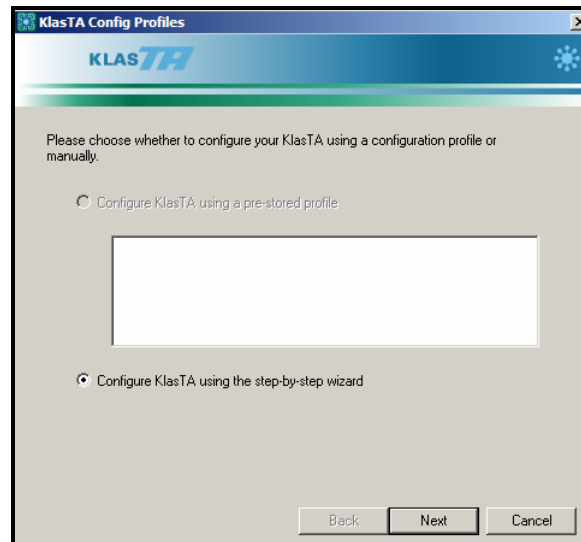
Open the KlasTA configuration application on your PC. Follow the steps below to configure KlasTA.

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



**Figure 2. KlasTA Configuration Main Screen**

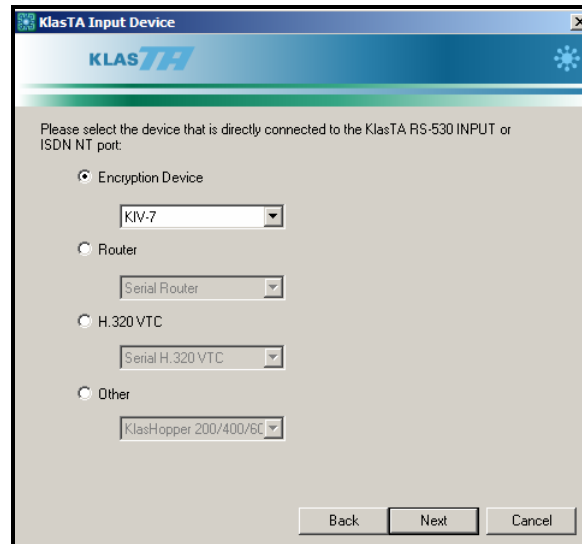
2. Check the 'Configure KlasTA using step-by-step wizard' radio button. Click the 'Next' button to continue and move on to the next configuration screen.



**Figure 3. KlasTA Configuration Profiles Screen**

**Configuring KlasTA to Manual Dial with a KIV-7 using AERO**

3. Check the 'Encryption Device' radio button and select KIV-7 as the Encryption Device from the pull-down menu. **(Note: This parameter must be identical for the KlasTAs on both sides of the call.)**



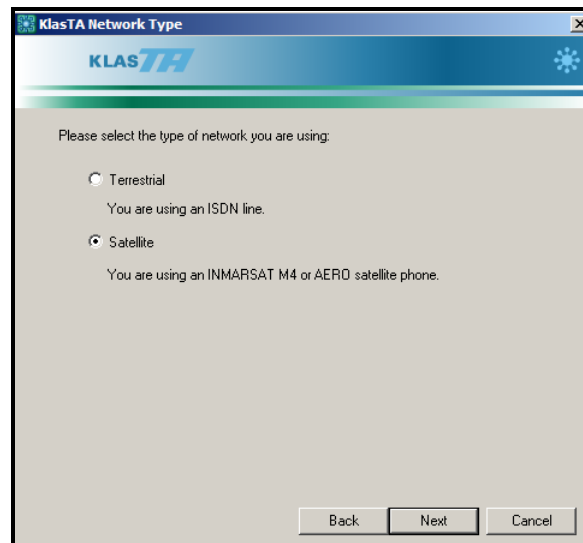
The screenshot shows a window titled "KlasTA Input Device" with the KLAS TA logo. The main text reads: "Please select the device that is directly connected to the KlasTA RS-530 INPUT or ISDN NT port:". There are four radio button options, each with a corresponding pull-down menu:

- Encryption Device: KIV-7
- Router: Serial Router
- H.320 VTC: Serial H.320 VTC
- Other: KlasHopper 200/400/600

At the bottom right, there are three buttons: "Back", "Next", and "Cancel".

**Figure 4. KlasTA Input Device Screen**

4. Select the 'Satellite' radio button indicating you will be dialing from a satellite terminal.



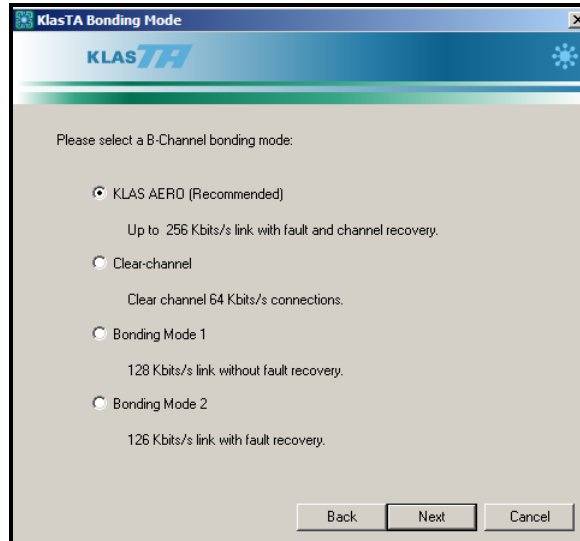
The screenshot shows a window titled "KlasTA Network Type" with the KLAS TA logo. The main text reads: "Please select the type of network you are using:". There are two radio button options:

- Terrestrial: You are using an ISDN line.
- Satellite: You are using an INMARSAT M4 or AERO satellite phone.

At the bottom right, there are three buttons: "Back", "Next", and "Cancel".

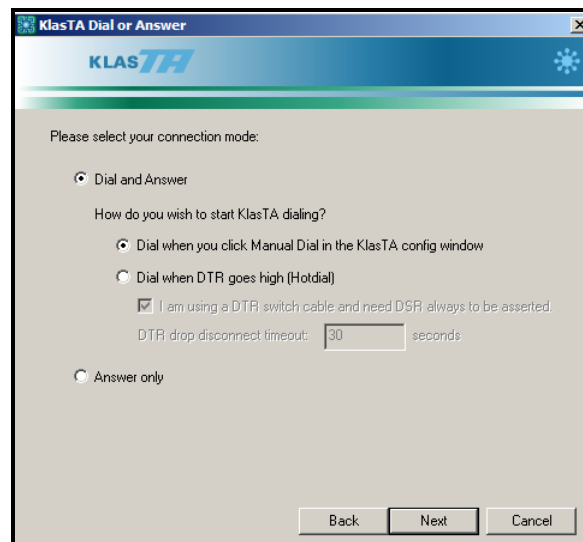
**Figure 5. KlasTA Network Type Screen**

- Select the 'KLAS AERO' radio button indicating that both KlasTAs will be using the AERO protocol.



**Figure 6. KlasTA Bonding Mode Screen**

- Select the 'Dial and Answer' radio button to enable KlasTA to initiate the dialing sequence. Also, check the 'Dial when you click Manual Dial in the KlasTA config window' radio button. This option specifies that KlasTA will only dial when you push the 'Manual Dial' button on the KlasTA Configuration Wizard Main Screen.



**Figure 7. KlasTA Dial and Answer Screen**

7. Input the dial strings of the opposite KlasTA you would like to call. Since this is a 128K call, there are two 64K B-channels. Check the B2 box and then enter the two dial strings associate with each 64K channel. Ensure you type in '#' after the last digit in the dial string indicating to the KlasTA that the last number has been dialed.

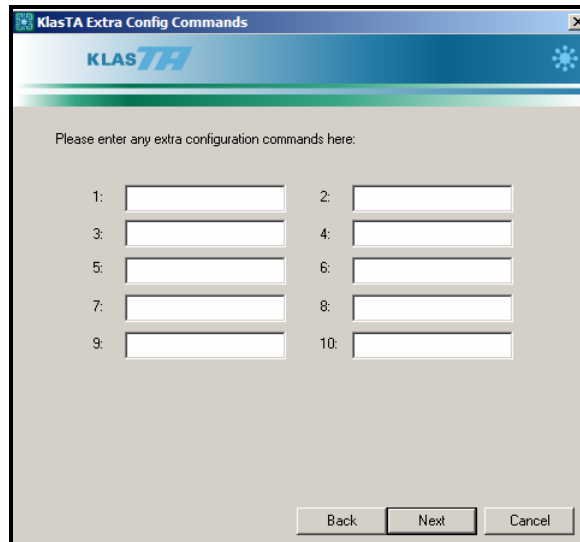
**Figure 8. KlasTA Dial Parameters Screen**

8. The KlasTA Aero 56K menu screen is designed for compatibility with H.320 Video Conferencing. The H.320 VTC protocol is based on the ISDN format and only operates at intervals of 64K and 56K. Since the Aero protocol uses one out of 64 bytes for bandwidth management, the actual throughput is 63K which will not work at the 64K H.320 variant. Therefore, when using the Aero protocol, you must use the 56K version of the H.320 VTC protocol. If you plan to conduct an H.320 VTC, check the box; otherwise, leave the box unchecked.

**Figure 9. KlasTA H.320 VTC Screen**

## Configuring KlasTA to Manual Dial with a KIV-7 using AERO

- 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<sup>TA</sup>

Please enter any extra configuration commands here:

1:  2:

3:  4:

5:  6:

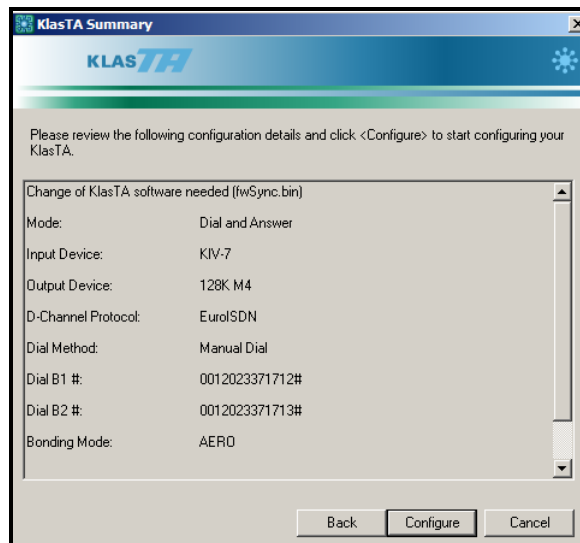
7:  8:

9:  10:

Back Next Cancel

**Figure 10. 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.



KlasTA Summary

KLAS<sup>TA</sup>

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

Change of KlasTA software needed (fwSync.bin)

Mode: Dial and Answer

Input Device: KIV-7

Output Device: 128K M4

D-Channel Protocol: EuroSDN

Dial Method: Manual Dial

Dial B1 #: 0012023371712#

Dial B2 #: 0012023371713#

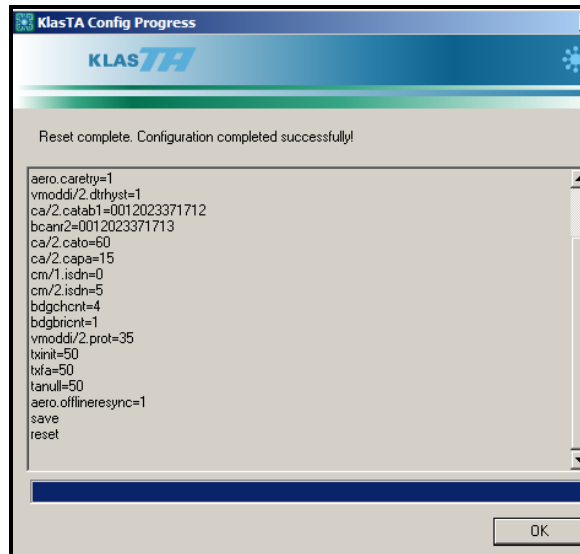
Bonding Mode: AERO

Back Configure Cancel

**Figure 11. KlasTA Configuration Summary Screen**

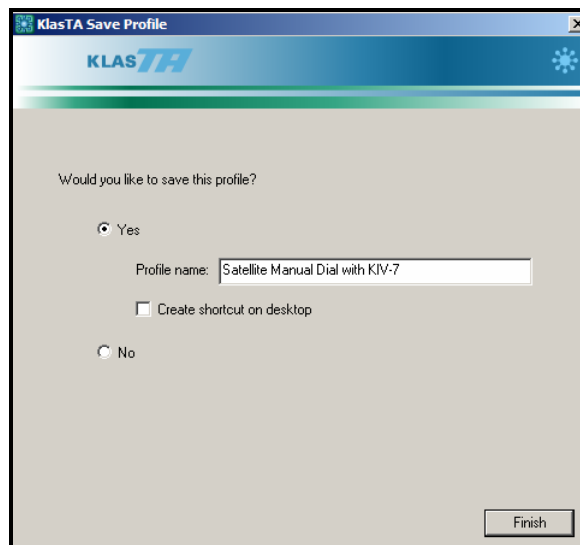
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11. Click on the 'OK' button once the configuration sequence has successfully completed.



**Figure 12. KlasTA Configuration Progress Screen**

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



**Figure 13. KlasTA Profile Screen**

13. Return to the KlasTA Configuration Main Menu,, once you are ready to initiate the call, click on the 'Manual (Re) Dial' button with the green phone. This will begin the dialing sequence.

## **MORE INFORMATION**

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

*<www.klasonline.com>*

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