



# Configuring a KlasTA to Answer with an OMNIxi at 128K using AERO

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The information in this article applies to:

- KlasTA
- OMNIxi

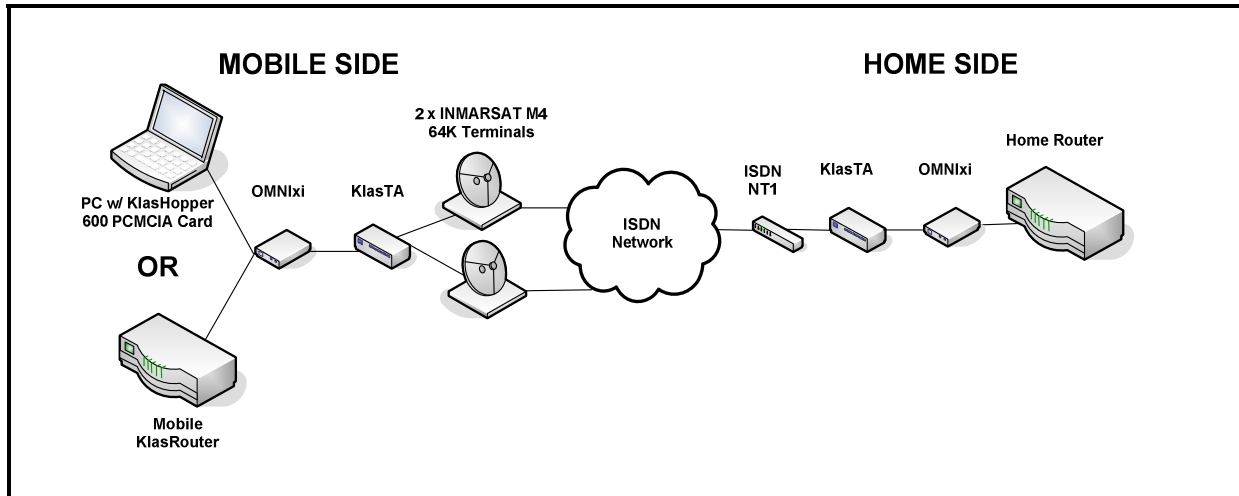
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## 1.0 Introduction



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

This document describes how to configure a KlasTA connected to an OMNIxi on the Home Side to answer a 128K ISDN call, as shown in Figure 1. When configured for answer mode, KlasTA is continually listening for incoming calls and will answer automatically.

In this example, KlasTA uses the AERO protocol in order to multiplex the 128K data stream to the RS-530 synchronous serial port connected to the OMNIxi. The OMNIxi will unencrypt the data and send it to an RS-530 synchronous serial port on the Home Side router for further processing. 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 OMNIxi cable is connected to the male RS-530 connector of the OMNIxi 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 RJ-45 S/T Input Ports on an ISDN NT1 device.

## 3.0 Configure the OMNIxi to work with KlasTA

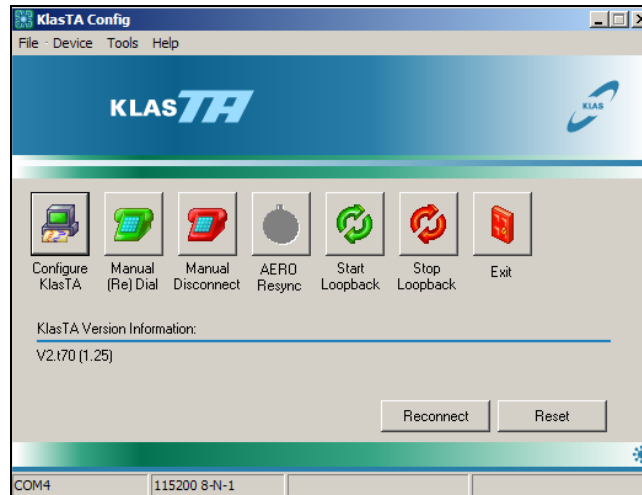
The OMNIxi has a specific sequence of settings that allow it to encrypt data using the RS-530 serial data port. Follow the instructions from Application Note Q100010 in order to configure the OMNIxi so that it will work properly with KlasTA.

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## 4.0 Configuring KlasTA

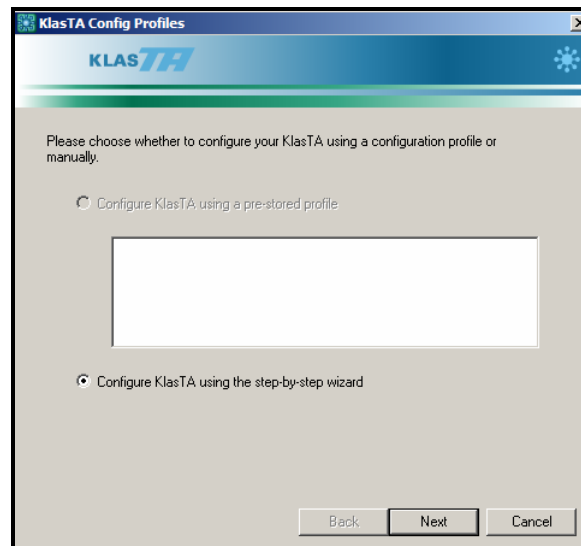
Open the KlasTA configuration application on your PC. Follow the steps below to configure KlasTA.

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**

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

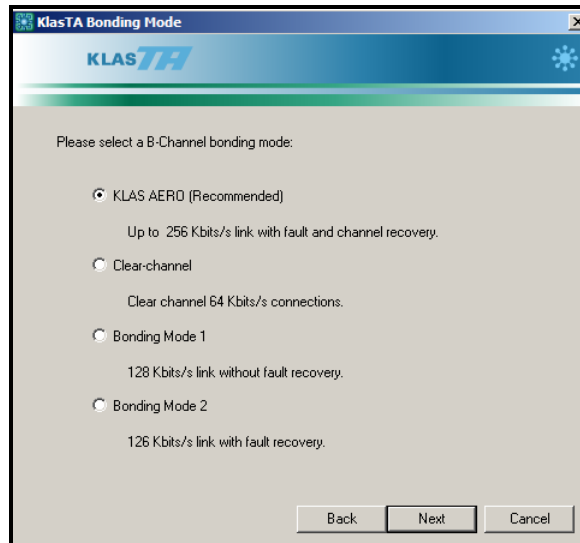
**Figure 4. KlasTA Input Device Screen**

4. Select the 'Terrestrial' radio button indicating you will be answering the call from an ISDN landline BRI connection.

**Figure 5. KlasTA Network Type Screen**

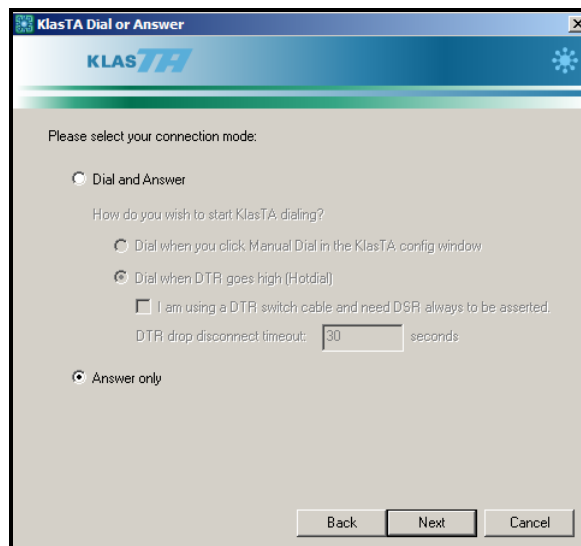
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5. Select the 'KLAS AERO' radio button indicating that both KlasTAs will be using the AERO protocol.



**Figure 6. KlasTA Bonding Mode Screen**

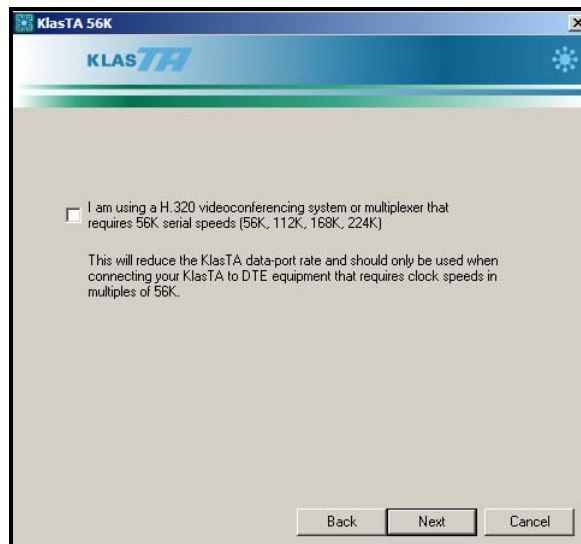
6. Select the 'Answer only' radio button indicating that KlasTA will continually monitor the line for incoming ISDN calls.



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

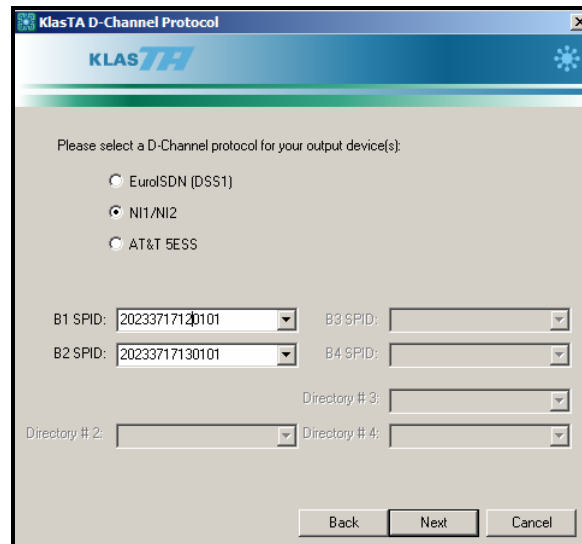
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7. The KlasTA Aero 56K menu screen is designed for compatibility with H.320 Video Conferencing. The H.320 VTC protocol is based on the ISDN format and only operates at intervals of 64K and 56K. Since the Aero protocol uses one out of 64 bytes for bandwidth 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 8. KlasTA H.320 VTC Screen**

8. Select the radio button next to the ISDN Switch-Type or D-Channel Protocol you are using, as shown in Figure 9 with the NI1/NI2 protocol. If NI1/NI2 or AT&T 5ESS is chosen, you must also enter the Service Profile Identifiers (SPIDs) associated with the ISDN lines connected to KlasTA. SPIDs are assigned by your local Telecom Provider and are unique for each 64K channel.



**Figure 9. KlasTA D-Channel Protocol Screen**

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9. 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.

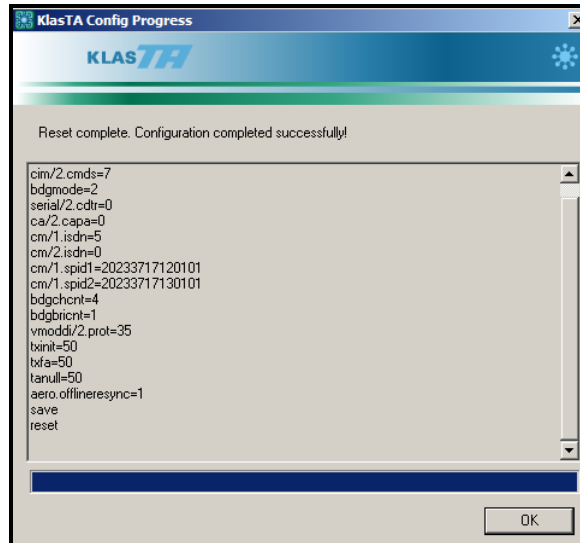
**Figure 10. KlasTA Extra Configuration Commands Screen**

10. Review the configuration options to ensure they are correct and then click on the 'Configure' button to initiate the configuration sequence on the KlasTA.

**Figure 11. KlasTA Configuration Summary Screen**

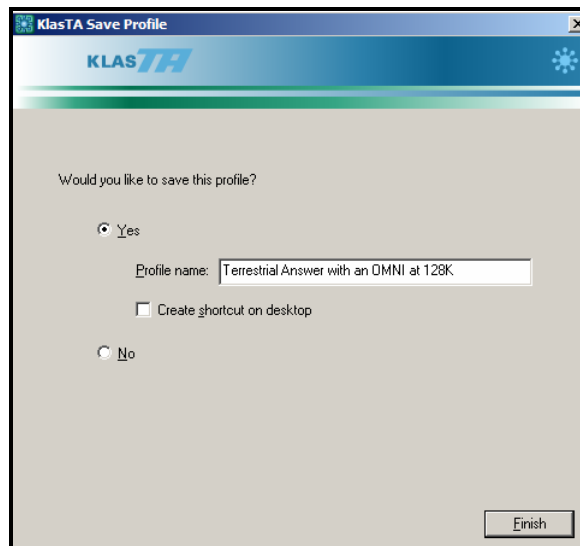
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11. Click on the 'OK' button once the configuration sequence has successfully completed.



**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**

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## **MORE INFORMATION**

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

*<www.klasonline.com>*

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