



# Configuring a KlasTA AERO 256K to Answer with an OMNIxi using AERO

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The information in this article applies to:

- o KlasTA AERO 256K
- o OMNIxi

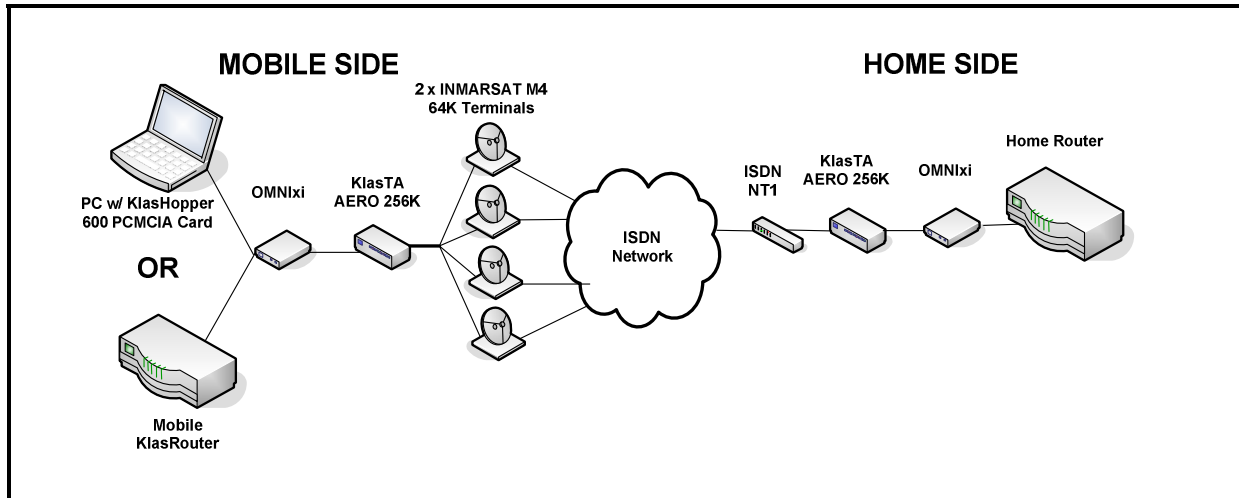
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## 1.0 Introduction



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

This document describes how to configure a KlasTA AERO 256K on the Home Side connected to an OMNixi to answer a 256K ISDN call, as shown in Figure 1. When configured for answer mode, KlasTA AERO 256K is continually listening for incoming calls and will answer automatically.

In this example, KlasTA AERO 256K uses the AERO protocol in order to multiplex the 256K 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 AERO 256K 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 AERO 256K is on.
2. Control Port Cable is connected to the PC's serial port.
3. Control Port Cable is connected to the 'Control' port 2 on the front of the KlasTA AERO 256K.
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 AERO 256K.
5. ISDN cables are connected to the RJ-45 ISDN Y0 and X0 Output Ports from Level 2 of KlasTA AERO 256K and the RJ-45 S/T Input Ports on an ISDN NT1 device.

**Configure a KlasTA AERO 256K to Answer with a OMNixi at 256K**

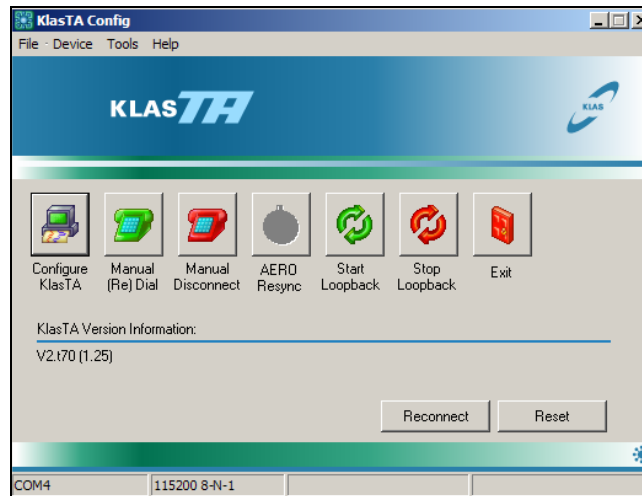
### 3.0 Configure the OMNixi

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 Klas Application Note Q100010 in order to configure the OMNixi so that it will work properly with KlasTA AERO 256K.

### 4.0 Configuring KlasTA AERO 256K

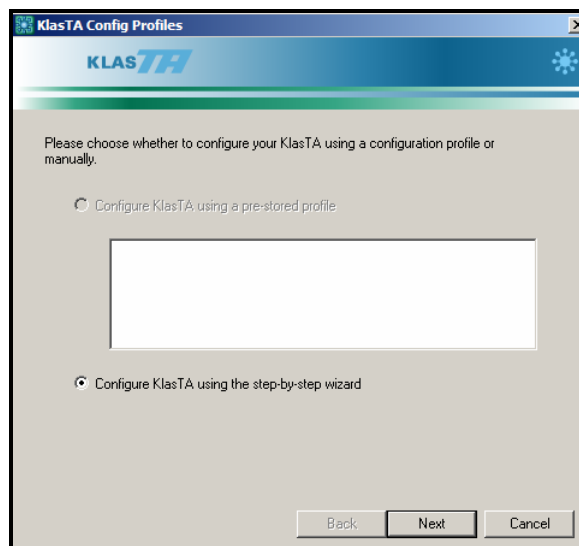
Open the KlasTA AERO 256K configuration application on your PC. Follow the steps below to configure KlasTA AERO 256K.

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



**Figure 2. KlasTA AERO 256K Configuration Main Screen**

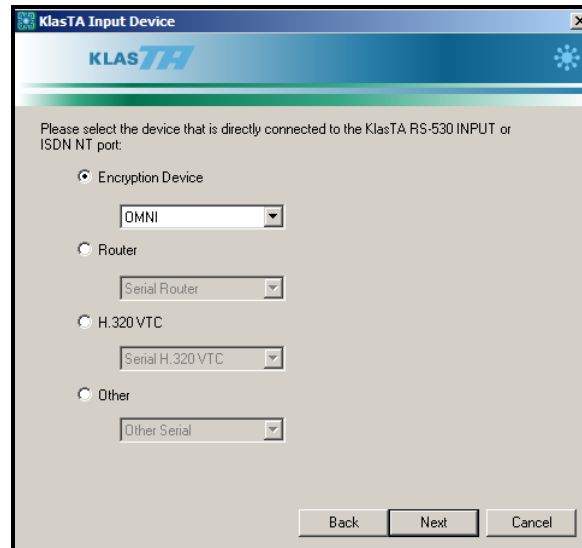
2. Check the 'Configure KlasTA AERO 256K using step-by-step wizard' radio button. Click the 'Next' button to continue and move on to the next configuration screen.



**Figure 3. KlasTA AERO 256K Configuration Profiles Screen**

**Configure a KlasTA AERO 256K to Answer with a OMNixi at 256K**

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 KlasTA AERO 256Ks on both sides of the call.)



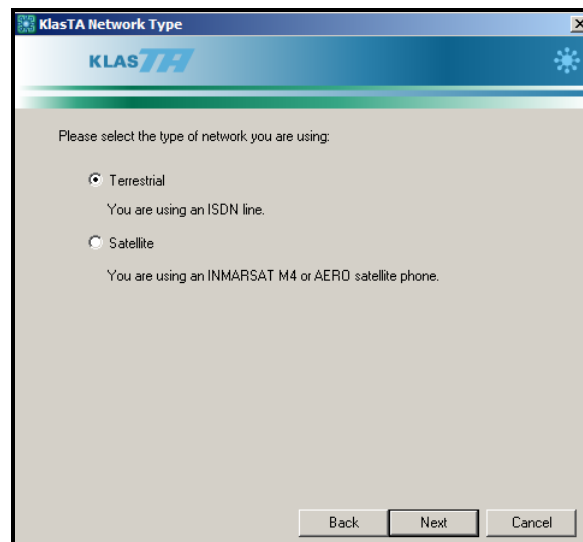
The screenshot shows a window titled "KlasTA Input Device" with the KLAS TA logo at the top. Below the logo, there is a blue header bar with a snowflake icon. The main content area has a light gray background and contains the following text: "Please select the device that is directly connected to the KlasTA RS-530 INPUT or ISDN NT port:". There are four radio button options, each with a corresponding pull-down menu:

- Encryption Device: OMNI
- Router: Serial Router
- H.320 VTC: Serial H.320 VTC
- Other: Other Serial

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

Figure 4. KlasTA AERO 256K Input Device Screen

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



The screenshot shows a window titled "KlasTA Network Type" with the KLAS TA logo at the top. Below the logo, there is a blue header bar with a snowflake icon. The main content area has a light gray background and contains the following text: "Please select the type of network you are using:". There are two radio button options:

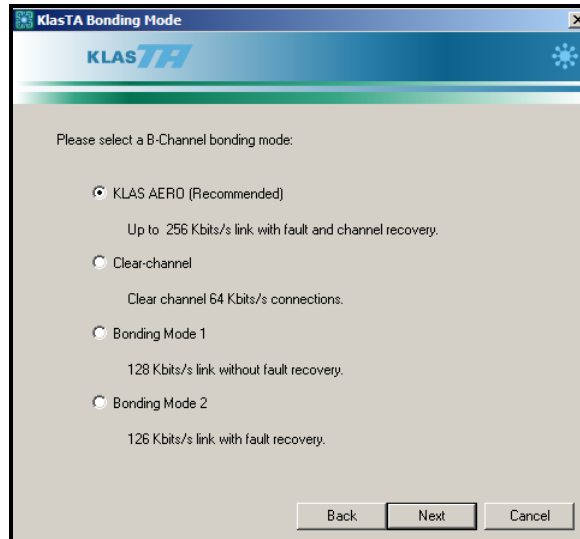
- Terrestrial: You are using an ISDN line.
- Satellite: You are using an INMARSAT M4 or AERO satellite phone.

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

Figure 5. KlasTA AERO 256K Network Type Screen

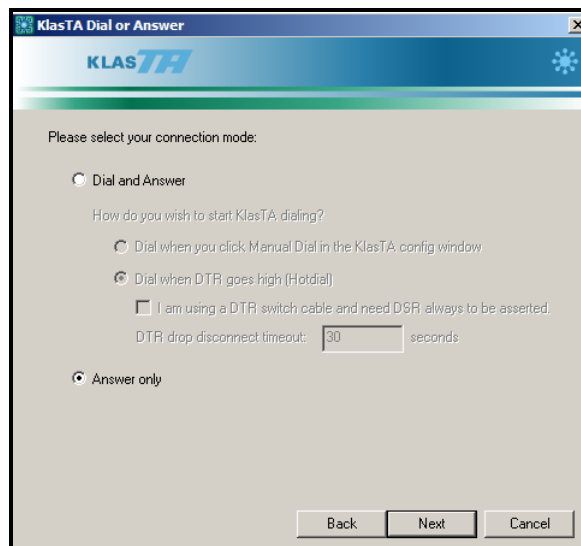
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5. Select the 'KLAS AERO' radio button indicating that both KlasTA AERO 256Ks will be using the AERO protocol.



**Figure 6. KlasTA AERO 256K Bonding Mode Screen**

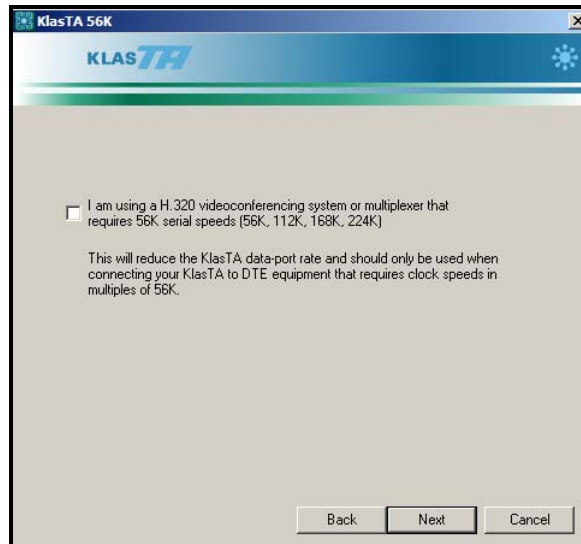
6. Select the 'Answer only' radio button indicating that KlasTA AERO 256K will continually monitor the line for incoming ISDN calls.



**Figure 7. KlasTA AERO 256K Dial and Answer Screen**

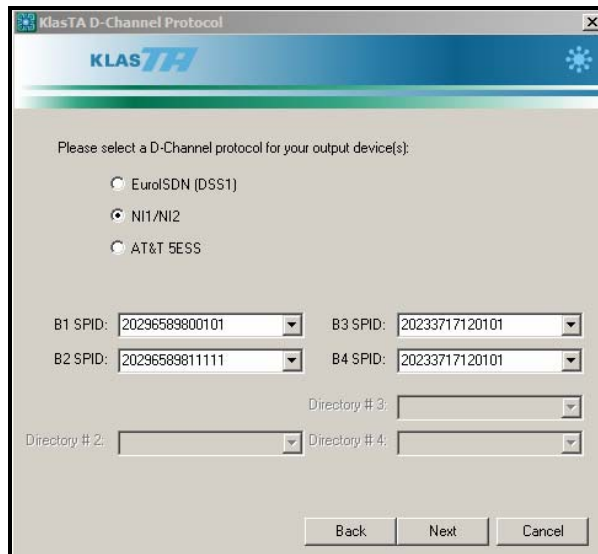
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7. The KlasTA AERO 256K 56K menu screen is designed for compatibility with H.320 Video Conferencing. The H.320 VTC protocol is based on the ISDN format and only operates at intervals of 64K and 56K. Since the Aero protocol uses one out of 64 bytes 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 AERO 256K 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 AERO 256K. SPIDs are assigned by your local Telecom Provider and are unique for each 64K channel.



**Figure 9. KlasTA AERO 256K 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.

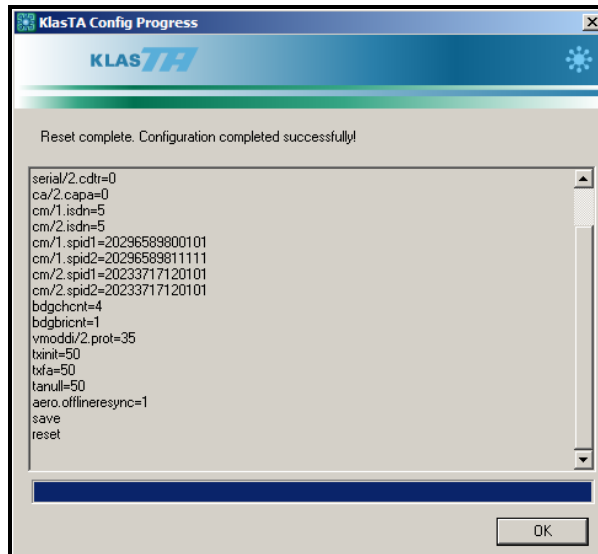
**Figure 10. KlasTA AERO 256K Extra Configuration Commands Screen**

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 AERO 256K.

**Figure 11. KlasTA AERO 256K Configuration Summary Screen**

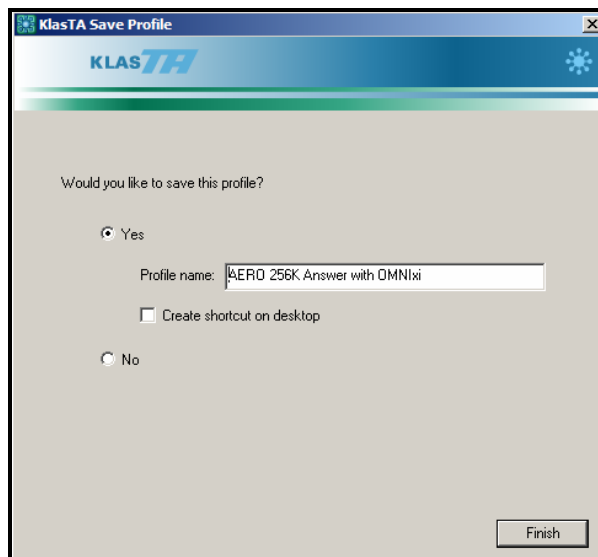
**Configure a KlasTA AERO 256K to Answer with a OMNIxi at 256K**

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



**Figure 12. KlasTA AERO 256K Configuration Progress Screen**

12. 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 13. KlasTA AERO 256K Save Profile Screen**

**Configure a KlasTA AERO 256K to Answer with a OMNIxi at 256K**

## **MORE INFORMATION**

For more information about KlasTA AERO 256K and other Klas products, visit the following Klas website:

*<www.klasonline.com>*

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