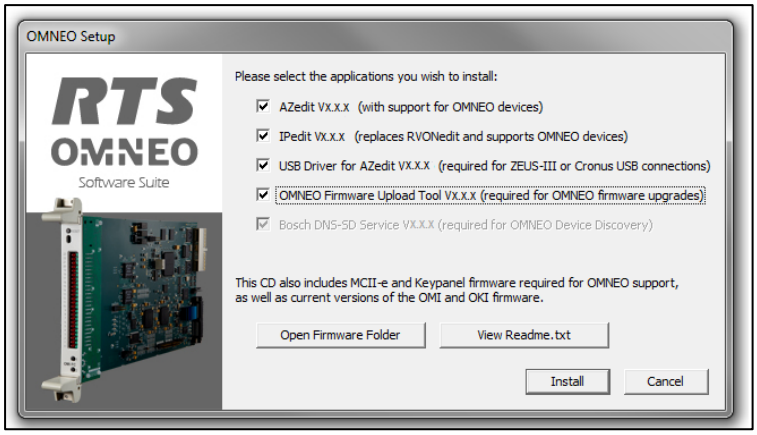
OMNEO Requirements

- For specific network requirements refer to the *OMNEO Network Requirements and Considerations* document.

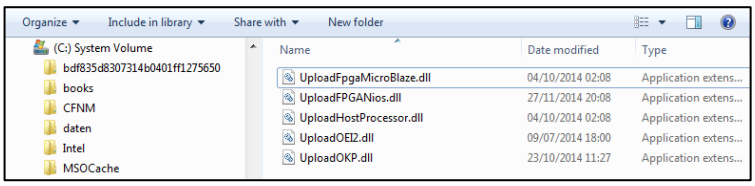
OMNEOSuite

1. Open the *OMNEOSuite file* and double-click *Setup.exe* and check *AZedit, IPedit* and *OMNEO Firmware Upload* Tool. The *Bosch DNS-SD Service* will automatically be checked as it is necessary. This software packages will then install.

- Firmware for MCII-e controllers and keypanels that support OMNEO is also supplied.

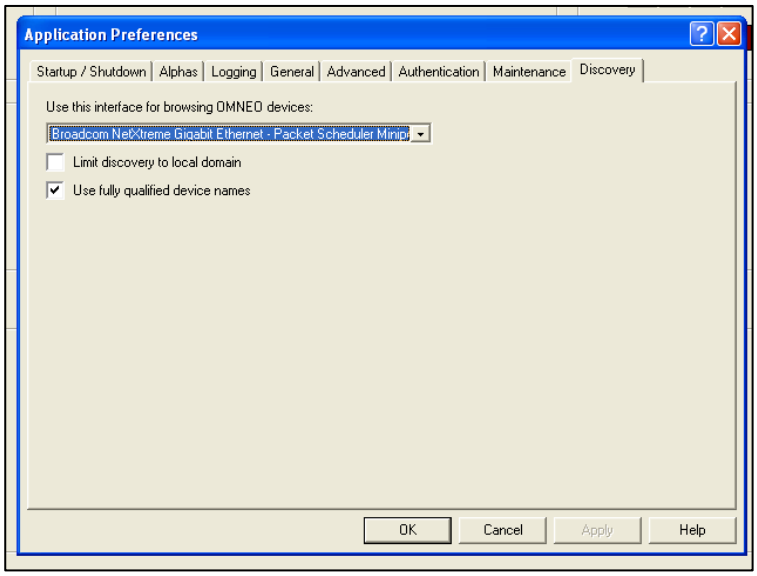


Notes
There will be several application plug-ins required for the Firmware Upload Tool. Using the above suite tool will install them all, Windows may seek approval depending on the User account and they will install individually. It is necessary for them all to be installed. Firmware downloads will fail without the necessary plug-ins.
To verify that they have been installed go to C:\Program Files\Bosch\OMNEO\Firmware Upload Tool\UploadPlugins and check against the list below. A minimum for an OMI card upgrade you will require the Microblaze, FPGANios and Host Processor plug-ins.

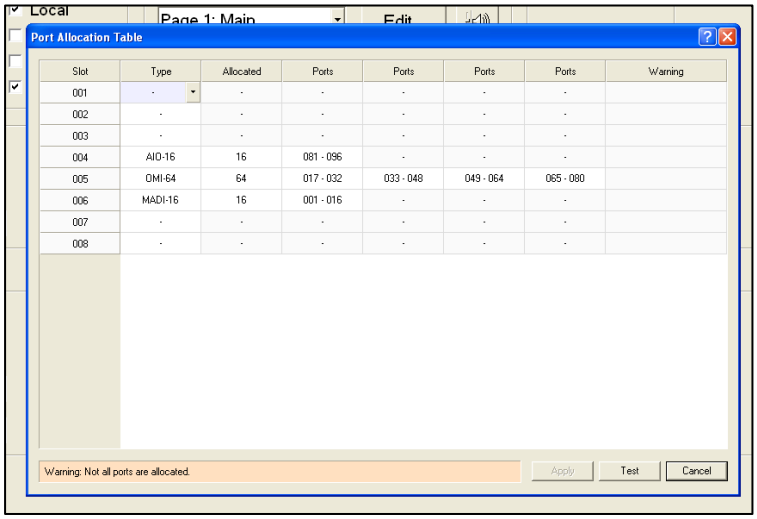


OMNEO OMI Card Configuration

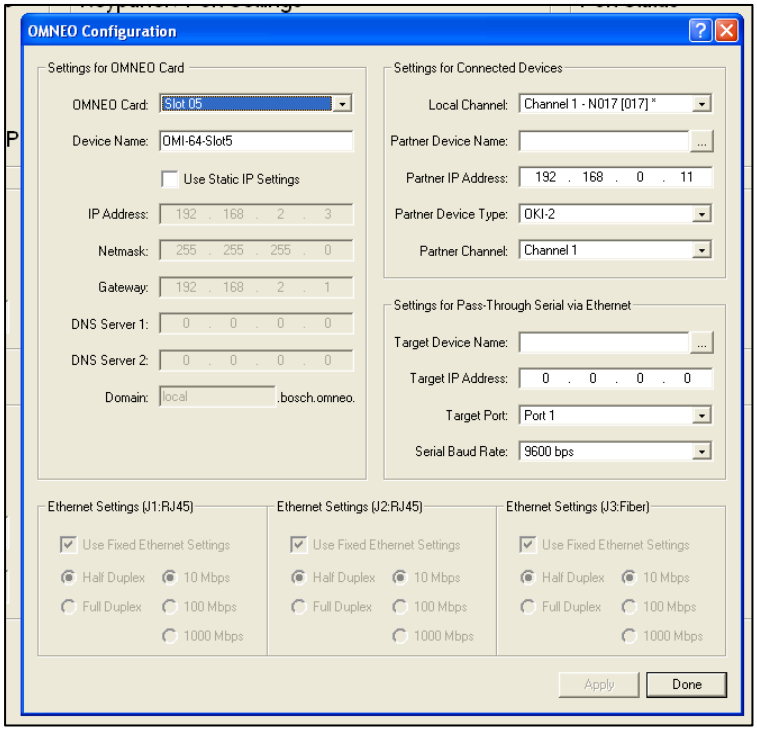
1. Use the *Quick Start Guide OMI – OMNEO Matrix Interface* to install the OMI card into an ADAM or ADAM-M.
2. Connect the OMI card to your network via the *Ethernet Connector J1* or the fibre connector.
3. Using AZedit under *Options\Preferences\Discovery* select your network interface from the drop down list that will be used for the OMNEO configuration.



4. Using AZedit under *Options\Port Allocation* table assign port numbers to the OMI card.



5. Under *System\Miscellaneous\OMNEO Configuration* you can configure the OMI cards Device Name*[1], network settings, channel configuration and pass-through data settings.



- The OMI cards can use fixed addressing, DHCP or Link Local addressing. DHCP addresses for OMI and OKI devices can be provided from a third party DHCP Server capable switch or router on your network, via the MCII-e controllers or via an ARNI device.
    - Link local addressing uses the following ranges: IP 169.254.0.0/16 (Subnet 255.255.0.0)
    - The MCII-e controllers would need to have an IP address in the link local range as would your PC.
- To change IP address settings of the MCII-e controllers you need to be connected via a serial J1 session. Under *Options\Ethernet setup* you can change the IP addresses of the controllers.

Notes
*[1]OMNEO devices are discovered via their Device Names and also configured using Device names (unlike RVON which uses the IP addresses). It is important to configure your OMNEO devices with a suitable name for this purpose. Default names are provided but can be changed. The device name should not need to change on a daily basis.
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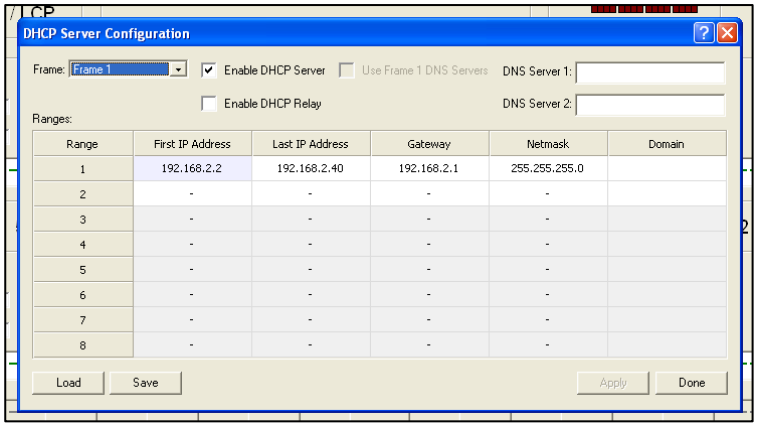
6. To set the MCII-e controllers to provide DHCP go to *Options\DHCP Server Configuration*. Check the *Enable DHCP Server* box and enter the range for the addresses in the *First IP Address* and *Last IP Address* fields. Enter the gateway information if applicable and the netmask.

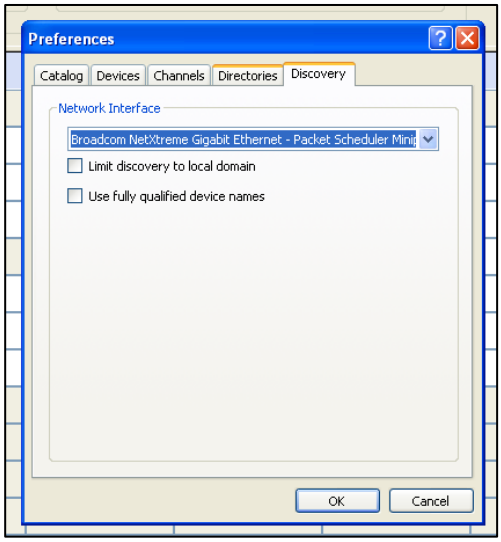


7. Connect your keypanel OKI module/s to the network. Under the *Menu\Service\OMNEO Setup\OKI* item you can set the device name, enable or disable DHCP and set the IP parameters. Enable DHCP or set a fixed IP address, netmask and gateway under IP Parameters. You can also change the device name in IPedit.

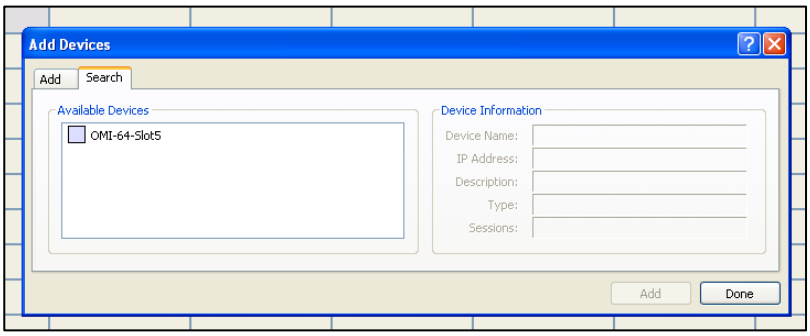
Notes
DHCP Relay should be checked when using the MCII-e as the DHCP Server and running more than one subnet. E.g. if you have 4 x OMI cards in a matrix, all on different subnets. Normally the MCII-e would only be assigned to one subnet. By checking the DHCP Relay box this allows the MCII-e to issue the defined DHCP addresses to the other 3 subnets. A maximum of 8 different subnets can be created.

IPEdit

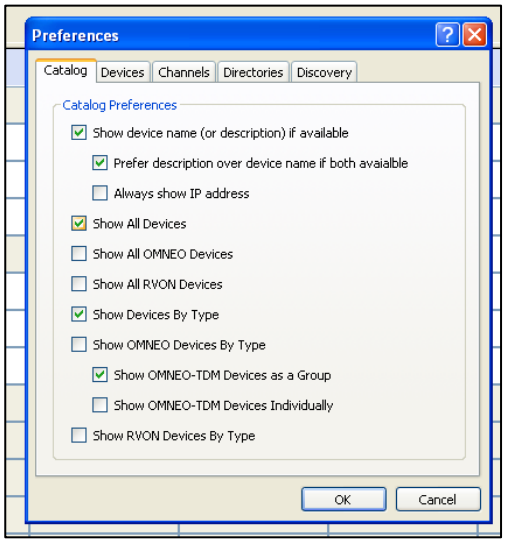
8. Open *IPEdit* and under *Edit\Preferences\Discovery* select your network interface from the drop down list that will be used for the OMNEO configuration.



9. Go to *Device\Add\Search* and any available OMNEO devices should show up in the list. Highlight your devices in turn and click *Add*. If you do not see your devices you can manually enter the device name or IP address of the device in the *Name or IP Address* field on the *Add* tab.



10. Under *Edit\Preferences\Catalog* you can configure how the devices appear in the catalogue. Make sure *Show device name* and *Show devices by type* are checked.

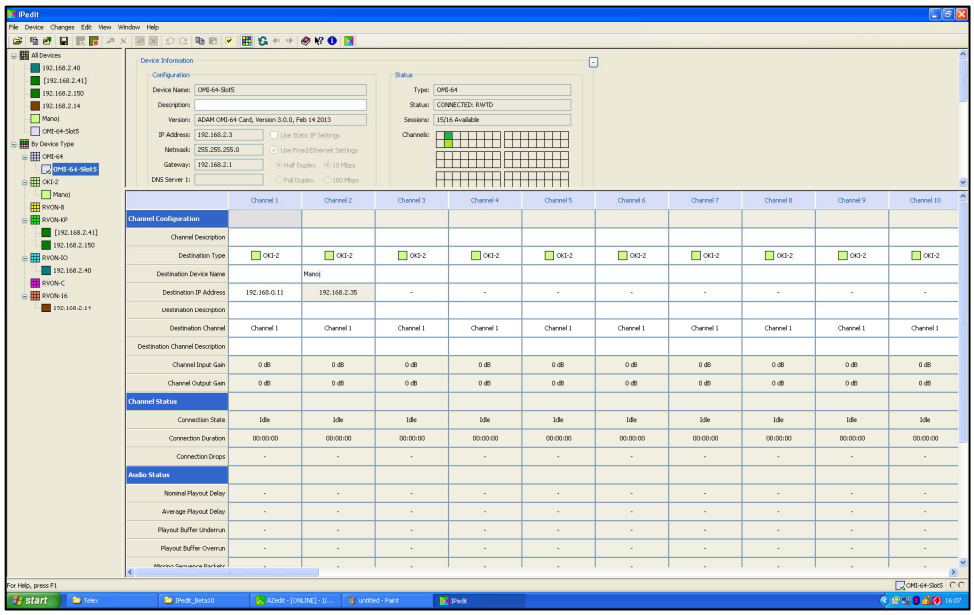


11. To configure your devices select them from the catalog on the left. To change IP settings you will need to log in as an administrator. This is done via the *Device\Change User* menu.

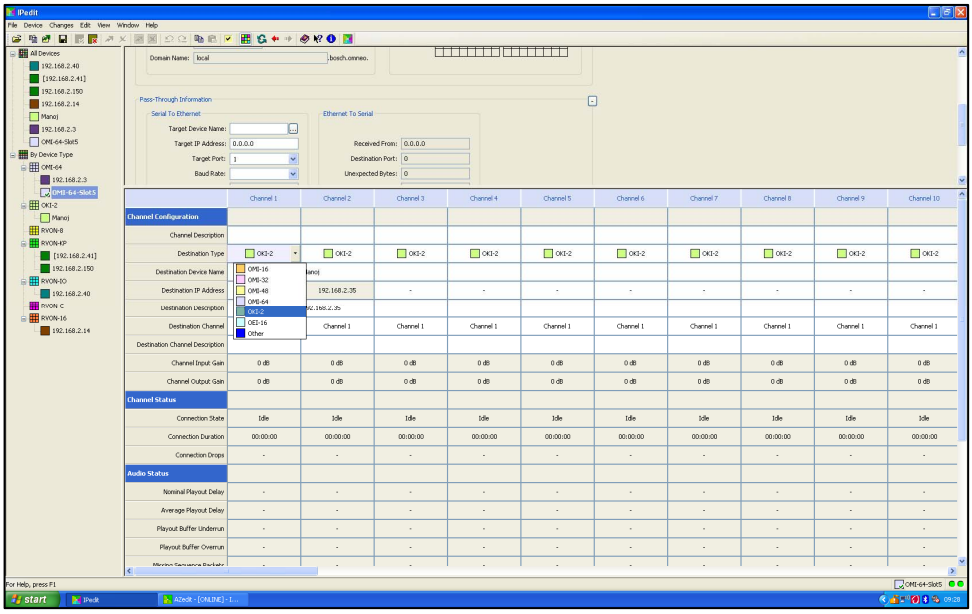
    Username: admin

    Password: password

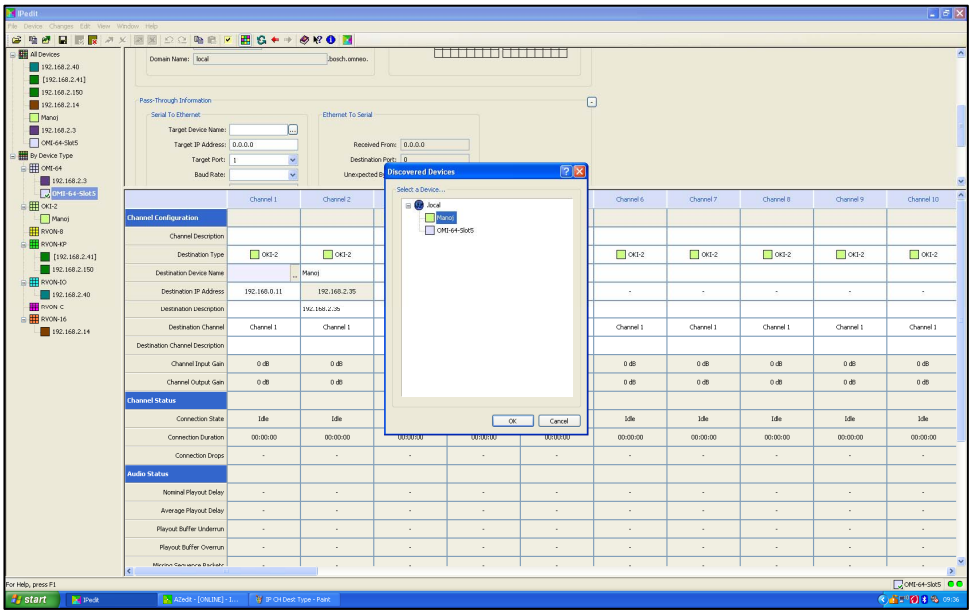
    If the device is set to DHCP then the IP address fields will populate automatically. You can check the *Use Static IP Settings* to manually enter in a fixed IP address, subnet and gateway.



12. To configure the OMI card to connect to an OKI device highlight your OMI device from the *Catalog* on the left. Select the appropriate channel from the channel columns in the middle of the screen. Click the *Destination Type* down arrow and from the dropdown list select *OKI-2*.

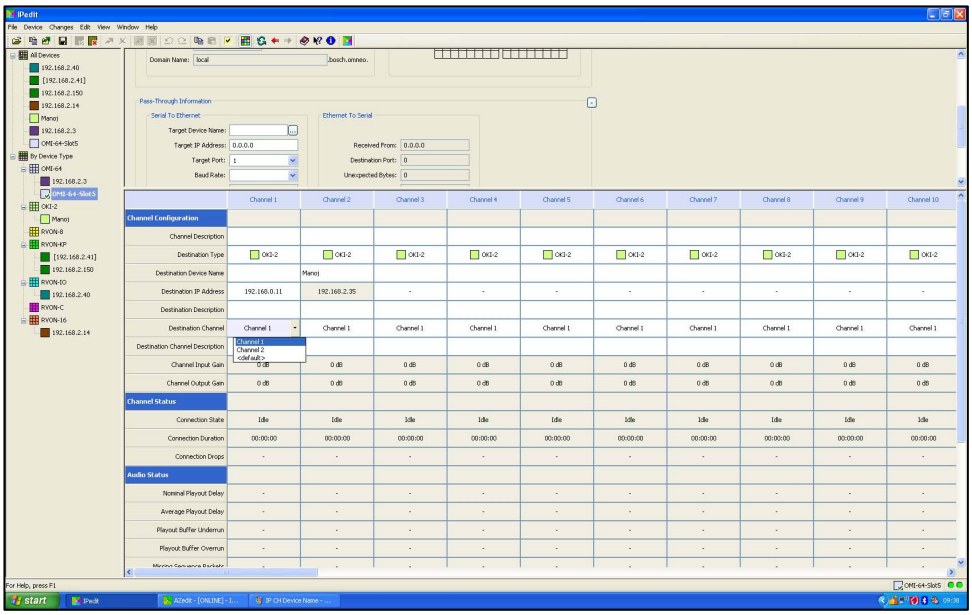


13. Click the *Destination Device Name* field for your channel and then click the […] button. Double-click *.local* and select your OKI device name from the list. This is why it is important to configure a device name (the system will suffix incremental numbers against device names if they are the same) as devices are discovered and configured via this, not IP addresses as previously used with RVON products. The *IP Address* and *Destination Description* fields will automatically populate.

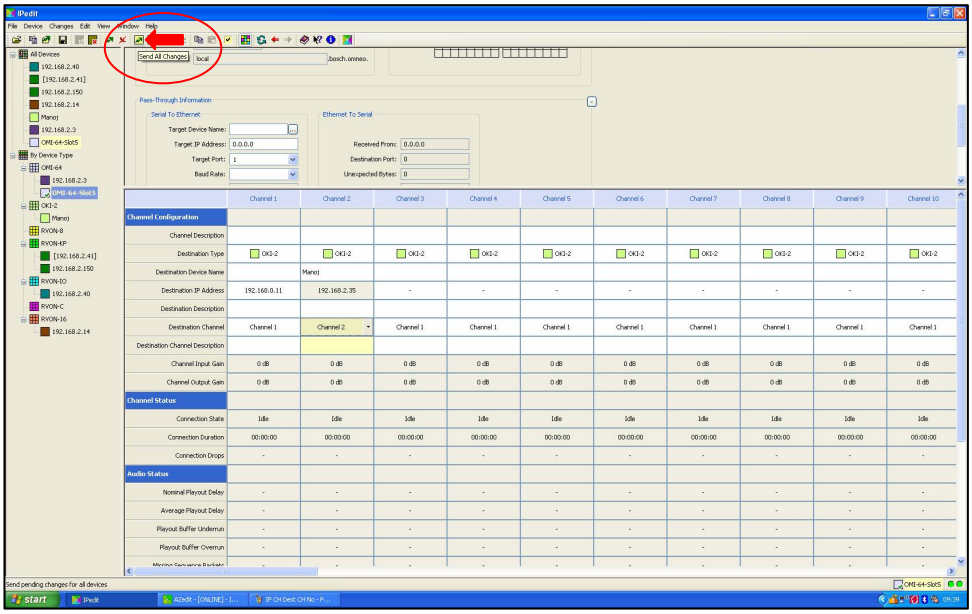


Notes
If you only enter an IP address in the *Destination IP Address* field without selecting the device name the OMNEO devices will not establish a connection. The Device Name field must always be populated. To connect an OKI keypanel to an OMI card you must use Channel 1 on the OKI. Keypanel data is only provided on Channel 1. Channel 2 is for an auxiliary audio connection.

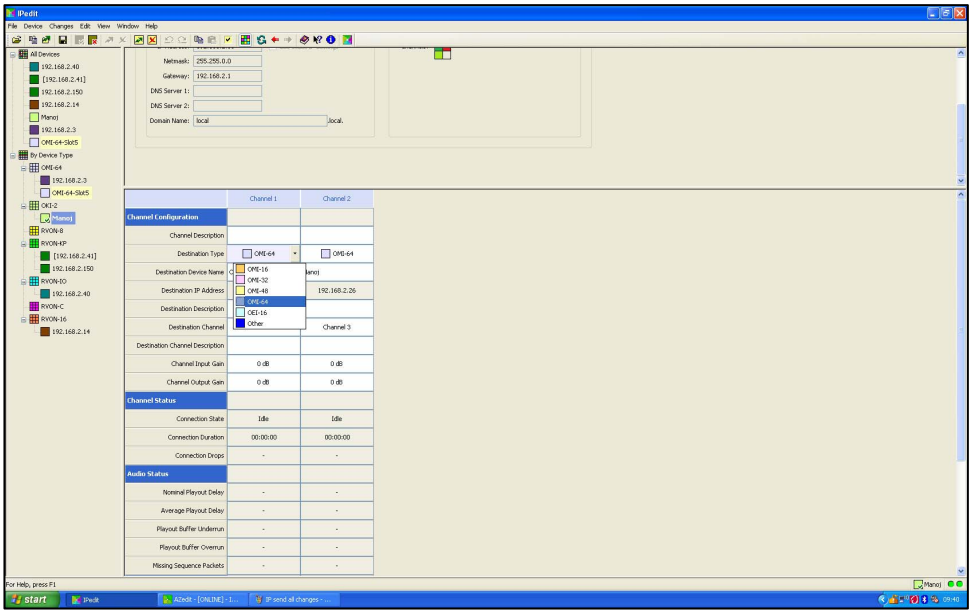
14. Click the *Destination Channel* field down arrow and select the correct destination channel on the OKI keypanel you wish to use. Keypanel data is only provided on channel 1. Channel 2 would be used for an auxiliary audio connection. The *Destination Channel Description* will automatically populate if you have enter names into the *Channel Description* fields on your destination device.



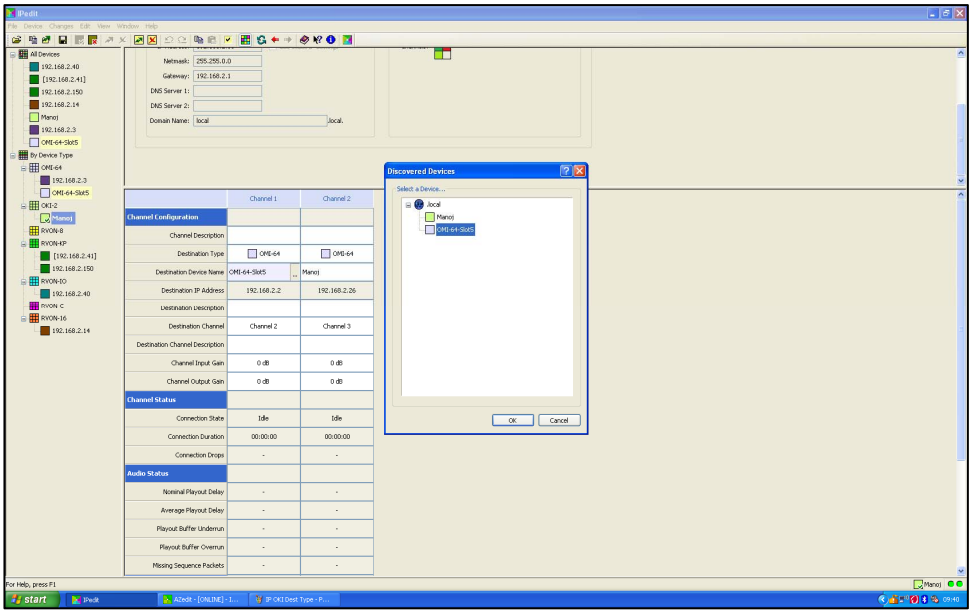
15. Click the *Send All Changes* button to send all of the changes made to your OMI card.



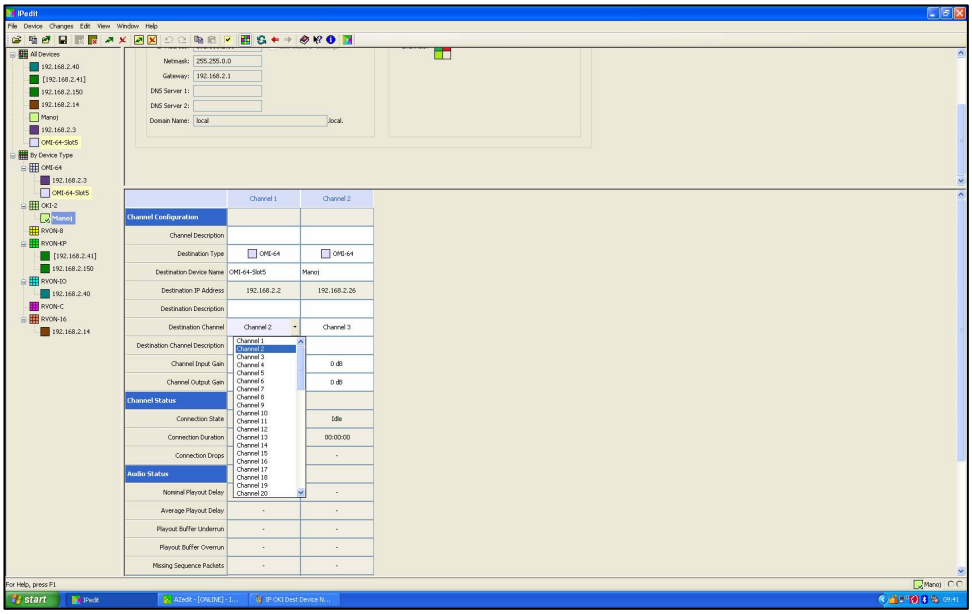
16. Repeat the process for the destination OKI keypanel. Highlight your OKI from the *Catalog* on the left. Select the destination type as OMI-XX (representing number of channels – so in this example OMI-64).



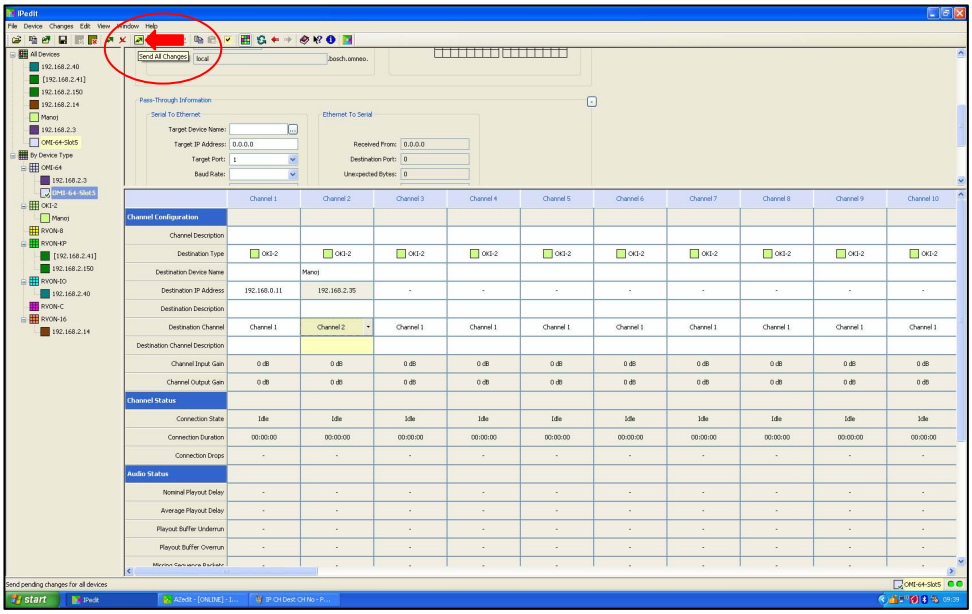
17. Click the *Destination Device Name* field for your channel and then click the […] button. Double-click *.local* and select the OMI device name from the list. The *IP Address* and *Destination Description* fields will automatically populate.



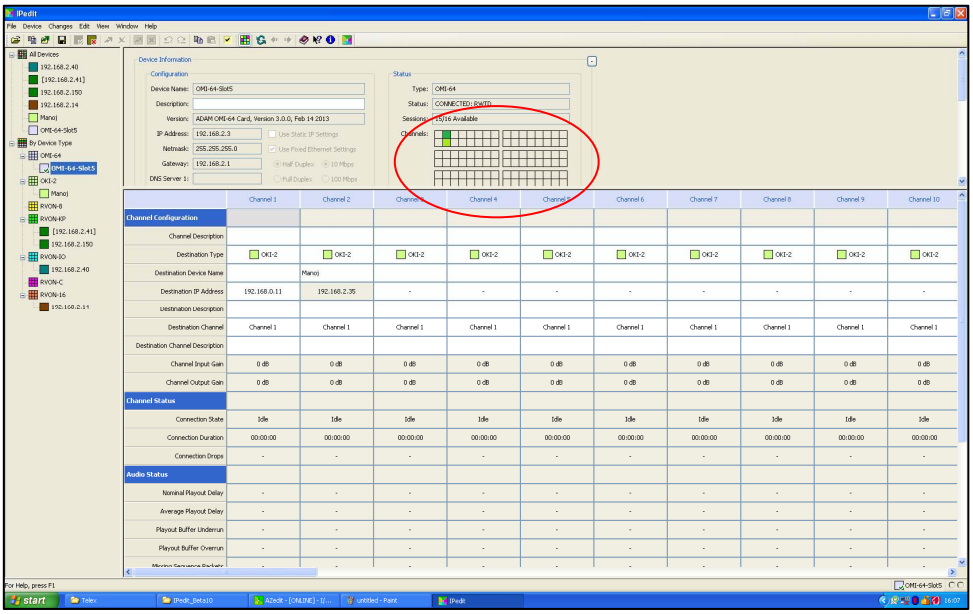
18. Click the *Destination Channel* field down arrow and select the correct destination channel on the OMI card you used. Each ends need to be configured the same e.g. if you configured the OMI card channel 1 to communicate with the OKI keypanel on channel 1, you must configure the OKI keypanel channel 1 to talk to the OMI card channel 1. The *Destination Channel Description* will automatically populate if you have enter names into the *Channel Description* fields on your destination device.



19. Click the *Send All Changes* button to send all of the changes made to your OKI card.



20. Once both ends of the connection have been configured and established you should find the appropriate channel status changes to green to indicate a positive connection. A blank channel status indicates no configuration and a red channel status indicates a configured but not connected channel. Under *Connection Status* it will also show as *Connected* and the duration will be incrementing.



CLD Keypanels – OMNEO Menu Items

21. Go to your OKI keypanel and select *Menu\OMNEO Offers\Keypanel\OKI-2.* Using your up and down arrow keys on the keypad you should be able to select the port in the intercom your configured OMI cards channel corresponds to. Press the *PGM* or *SEL* key on the keypad to accept this selection. Your keypanel should populate with alphas.

Enabling/Disabling OMNEO connection in keypanels

- It is possible to enable or disable the OMNEO connection in a keypanel depending on whether you wish to connect via an analogue matrix connection or via an OMNEO IP connection. This is done via the *OMNEO Offers\Keypanel\AIO* menu. If it is set to *disabled* then the keypanel will be expecting an OMNEO IP connection. If this is set to *enabled* the keypanel will be expecting an analogue matrix connection. There are also OMNEO icons visible on the front of the panel in normal operation (not displaying the menu items).

OMNEO enabled keypanel (*OMNEO Offers\Keypanel\AIO* set to *disabled*)

OMNEO disabled keypanel (*OMNEO Offers\Keypanel\AIO* set to *enabled*)

CLD Keypanel OMNEO Menu Structure

Main menu	Second level menu	Third level menu	Selection	Selection	Selection	Selection	Selection	Selection
OMNEO Offers	Keypanel	OKI-2	None/Port Alpha					
		AIO	Disabled/Enabled					
	Aux Input	OMNEO CH 1	None/Port Alpha					
		OMNEO CH 2	None/Port Alpha					
OMNEO Setup	OKI	Device Name	Default name/Saved name					
		DHCP	Disabled/Enabled					
		IP Parameters	Address	Netmask	Gateway	DNS Server 1	DNS Server 2	Domain