JNIOR Support Tool Manual

Release 7.9

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INTEG Process Group, Inc.

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1 Overview

The JNIOR Support Tool is an application that runs on a Windows-based PC that helps the user manage their JNIORs and applications. It allows the users to configure their JNIOR IP settings, update or add JNIOR software, review JNIOR logs and back-up files from the JNIOR.

The JNIOR Support Tool also has special features to help users of the Cinema.JNIOR software application to configure devices and macros. Cinema.JNIOR is a software program that runs on the JNIOR to provide central control functionality for a theater implementing a digital cinema system. Please refer to the Cinema.JNIOR Application Manual for details on its functionality and configuration.

NOTE: The JNIOR Support Tool can only be used on a PC running the Microsoft Windows operating system.

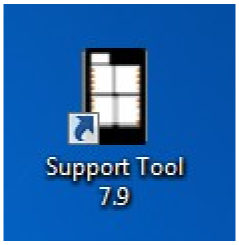
2 Installation

The JNIOR Support Tool is provided by INTEG as an installation package. **To install the JNIOR Support Tool, you must be logged into the Windows operating system with Administrator privileges. However, you do not need to be an Administrator to use the JNIOR Support Tool.**

Please double click on the installation file and it will be installed on your PC in

C:\Program Files\INTEG\JNIOR Support Tool

A shortcut key will be provided on your desktop. You can also navigate to the Start – Programs – INTEG – Support Tool and there will be a link to launch the program. The JNIOR Support Tool User Manual is also installed on your PC. You can view it by going to Start – Programs – INTEG – Support Tool and there will be a PDF to open the manual.



All the data files associated with the various features of the JNIOR Support Tool will be stored on your local PC drive under the Users folder. The User will be the person who is currently logged into the PC. In Windows XP, the data will be stored in a directory similar to the following. A similar path structure is used for Windows 7.

C:\Documents and Settings\rshulkosky.INTEGPG2\Application Data\INTEG\JNIOR Support Tool

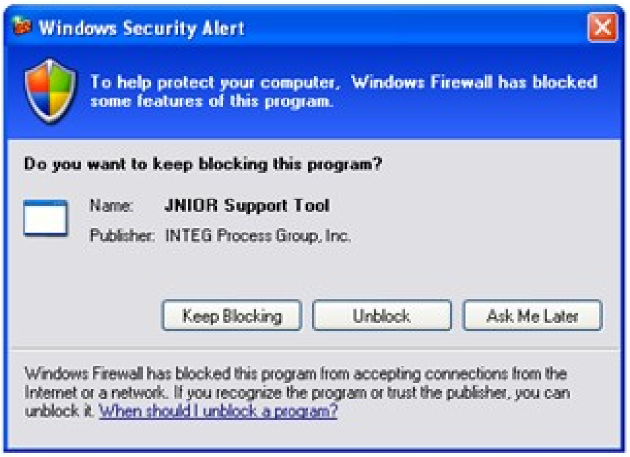
Updates to the JNIOR Support Tool will install over the current version. You do not need to uninstall the old version first unless specifically requested by INTEG with the update.

NOTES: The Beacon portion of the JNIOR Support Tool may not work across routers or where proxy servers are used or wherever other methods may restrict UDP packets from getting through. Beacon communicates using UDP packets over port 4444, so please make sure this port is available. If not, you can still use the other features of the JNIOR Support Tool, but you will have to manually enter the JNIOR IP address.

You can also manually enter a list of IP addresses into the JNIOR Support Tool. Beacon will then try to send the packet directly to this IP address. This may help find JNIORs located across a VPN connection, router, etc.

If you have **Windows Firewall** (or another firewall package) enabled, you may receive the following pop-up when you first launch the JNIOR Support Tool. This is because the JNIOR Support Tool sends out a message on the network to ask all JNIORs to report in and the JNIORs send a message back. **PLEASE click on the UNBLOCK button to register the JNIOR Support Tool with Windows Firewall to allow the Beacon**

messages through. This will allow several features of the JNIOR Support Tool to work best.



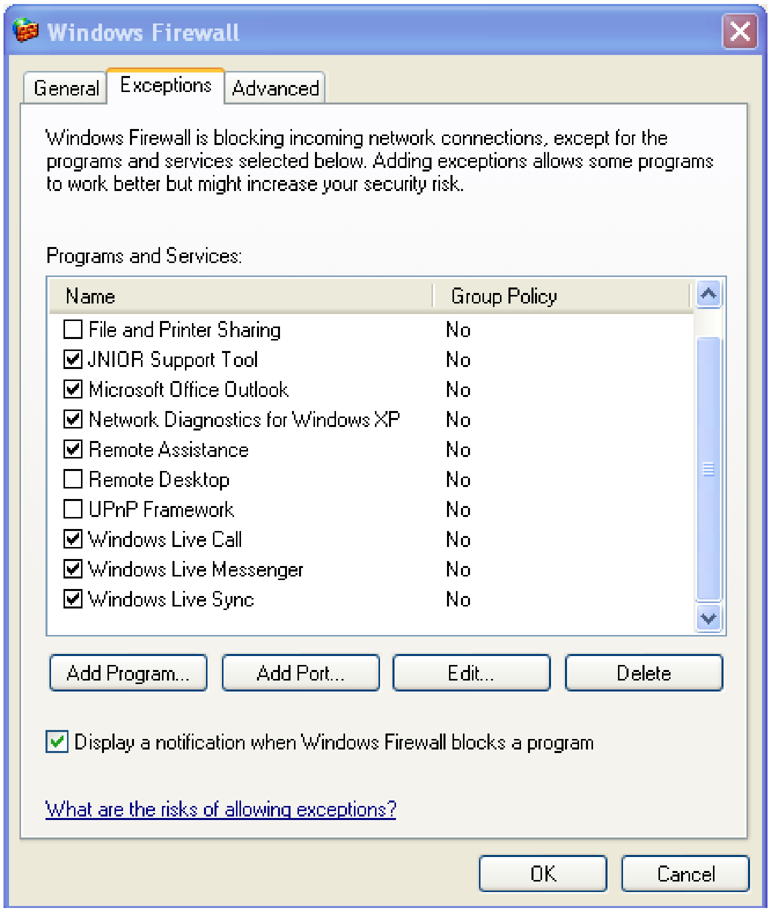
To help protect your computer, Windows Firewall has blocked some features of this program.

Do you want to keep blocking this program?

Name: JNIOR Support Tool
Publisher: INTEG Process Group, Inc.

Windows Firewall has blocked this program from accepting connections from the Internet or a network. If you recognize the program or trust the publisher, you can unblock it. When should I unblock a program?

If you have already installed the program and clicked on the Keep Blocking button, then you can go to the Windows Control Panel and click on the Windows Firewall icon to enable the program. When the Windows Firewall pop-up is displayed, click on the Exceptions tab and then 'check' the box for the JNIOR Support Tool and click OK.



Windows Firewall is blocking incoming network connections, except for the programs and services selected below. Adding exceptions allows some programs to work better but might increase your security risk.

Programs and Services:

Name	Group Policy
☐ File and Printer Sharing	No
☑ JNIOR Support Tool	No
☑ Microsoft Office Outlook	No
☑ Network Diagnostics for Windows XP	No
☑ Remote Assistance	No
☐ Remote Desktop	No
☐ UPnP Framework	No
☑ Windows Live Call	No
☑ Windows Live Messenger	No
☑ Windows Live Sync	No

☑ Display a notification when Windows Firewall blocks a program

What are the risks of allowing exceptions?

3 Using the JNIOR Support Tool

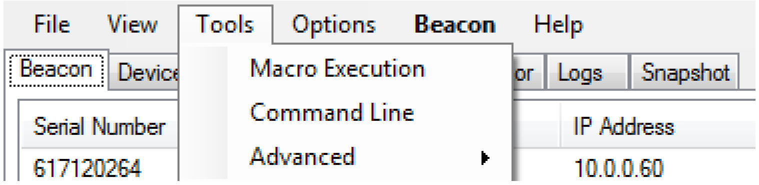
The JNIOR Support Tool has seven main functions.

1) **Beacon Tab** – identifies JNIORs on the Ethernet network for ease of selection and configuration. Many functions are available by 'right-clicking' on a JNIOR in the list.
2) **Devices Tab** – allows the user to define the IP addresses and/or serial settings for devices to be controlled via the JNIOR macros utilized with the Cinema.JNIOR application. The list of devices is saved as a file and transferred to the JNIOR. **(NOTE: This tab is not visible in the Standard View. The user must go to the View pull down and select Cinema View.)**
3) **Macro Tab** – allows the user to configure Actions and Macros utilized with the Cinema.JNIOR application. The list of macros is saved as a file and transferred to the JNIOR. **(NOTE: This tab is not visible in the Standard View. The user must go to the View pull down and select Cinema View.)**
4) **Update Tab** – allows the user to configure an update package to transfer software updates, configuration files and registry settings to a JNIOR.
5) **Registry Editor** - allows the user to add, edit and remove registry keys on any JNIOR in Beacon.
6) **Logs Tab** – allows the user to aggregate, view, filter and print the various logs being created on the JNIOR.
7) **Snapshot Tab** – allows the user to download to their PC any or all of the files located on a JNIOR. A filter feature is provided to selectively download files.

From the navigation line in the JNIOR Support Tool, there are several other selections available which are **File, Tools, Options and Help**.

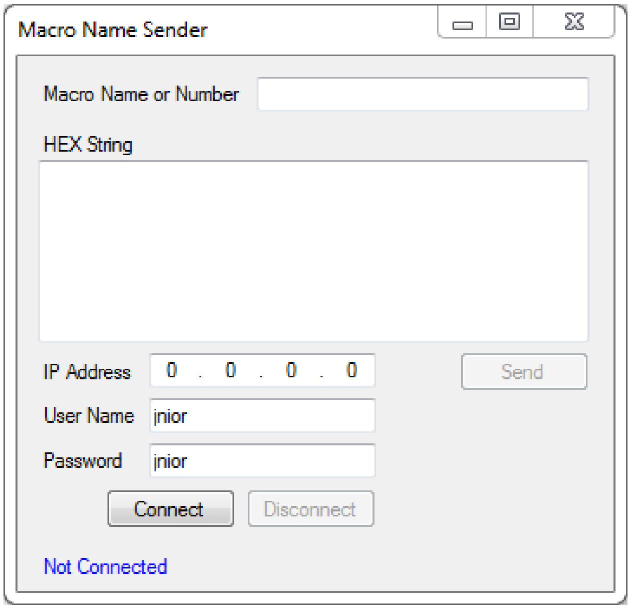
File – will close the JNIOR Support Tool. If you have any unsaved work, the JNIOR Support Tool should ask you if you want to save your work before closing.

Tools – the tools selection gives you the option to utilize the Macro Execution feature and Set (and Open) the Default Directory. All the files created by the JNIOR Support Tool will be saved under your Documents and Settings folder unless you change the default directory location.


File
View
Tools
Options
Beacon
Help
Beacon
Device
Macro Execution
Command Line
Advanced
or
Logs
Snapshot
Serial Number
IP Address

Serial Number	IP Address
617120264	10.0.0.60

Macro Execution - allows you to execute a macro loaded on a JNIOR that is running the Cinema.JNIOR program. Enter the macro name or number (the number is the relative location of the macro in the macro file list) and then enter your IP address, click Connect and then Send. The HEX string that is created is the complete JNIOR protocol command for the JNIOR to execute the macro via the JNIOR Protocol Port (default port is 9200). The HEX String can be copied and entered into any other device for sending to the JNIOR (for example a cinema server using a message box or raw Ethernet socket connection).


Macro Name Sender
Macro Name or Number
HEX String
Send
Connect
Disconnect

IP Address 0 . 0 . 0 . 0

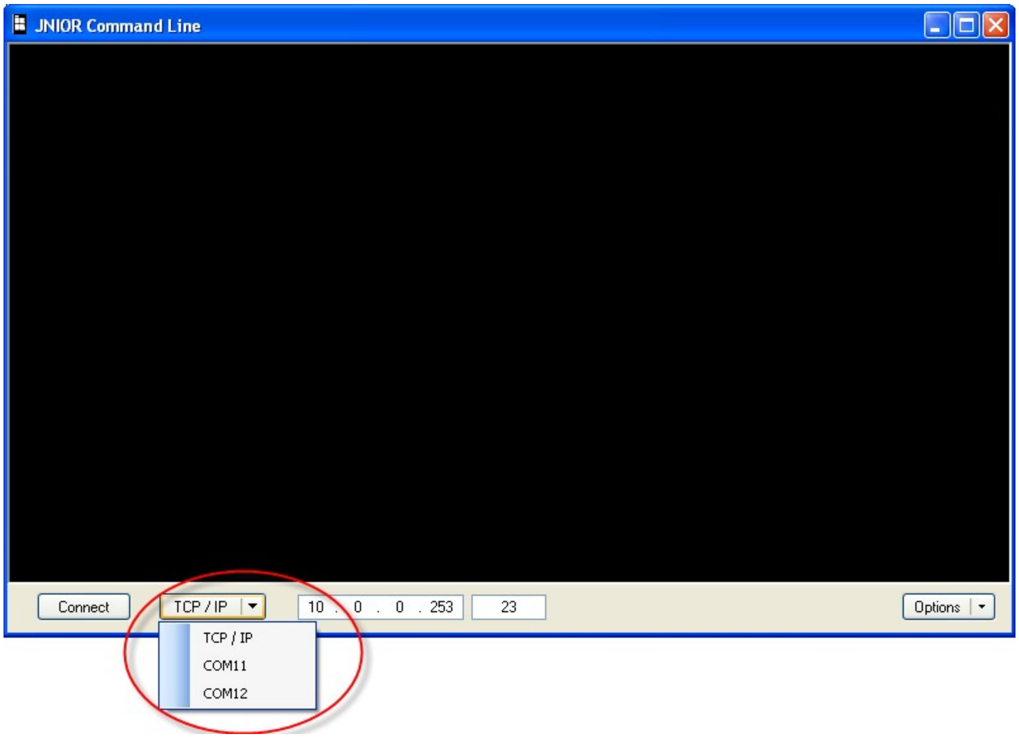
User Name jnior

Password jnior

Not Connected

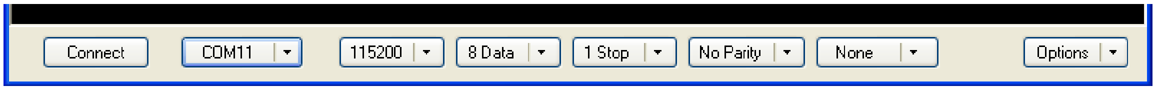
Command Line – launches a window that allows you to make a serial or Ethernet connection to the JNIOR (similar to a connection made with HyperTerminal or Telnet). This tool is helpful on computers utilizing Windows 7 since Telnet and HyperTerminal are no longer installed by default.

Once you select Command Line, the following window will be displayed. At the bottom of the window, you can select a TCP/IP connection (similar to Telnet when using port 23) or utilize one of your USB or serial ports (similar to a HyperTerminal connection).

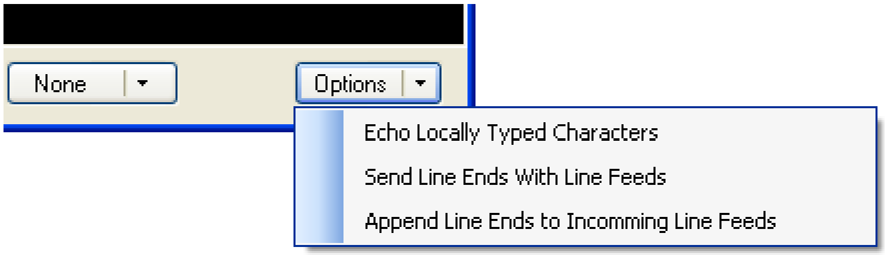

JNIOR Command Line
Connect
TCP / IP
10 . 0 . 0 . 253
23
Options
TCP / IP
COM11
COM12

If you select the TCP/IP connection and use the default port of 23, then the Command Line window will make a connection to the JNIOR using the Telnet port. You can also change the port to any other port that may be listening on the JNIOR, such as a port being used by the Cinema.JNIOR program or Serial Control Plus.

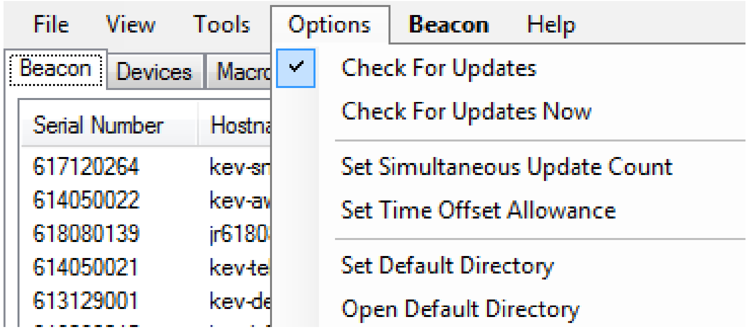
If you select one of your COM ports, then you will get a new bar across the bottom allowing you to set your serial port configuration.


Connect
COM11
115200
8 Data
1 Stop
No Parity
None
Options

The Options pull down on the right of the bottom bar allows you to set features about the connection.


None
Options
Echo Locally Typed Characters
Send Line Ends With Line Feeds
Append Line Ends to Incomming Line Feeds

Options – the options selection allows the JNIOR Support Tool to check via the Internet for updates to the JNIOR Support Tool whenever the JNIOR Support Tool is launched or this box is checked for the first time. This option is set on (checked) by default.


File
View
Tools
Options
Beacon
Help
Beacon
Devices
Macro
Serial Number
Hostna
617120264
kev-sr
614050022
kev-av
618080139
jr6180
614050021
kev-te
613129001
kev-de
✓ Check For Updates
Check For Updates Now
Set Simultaneous Update Count
Set Time Offset Allowance
Set Default Directory
Open Default Directory

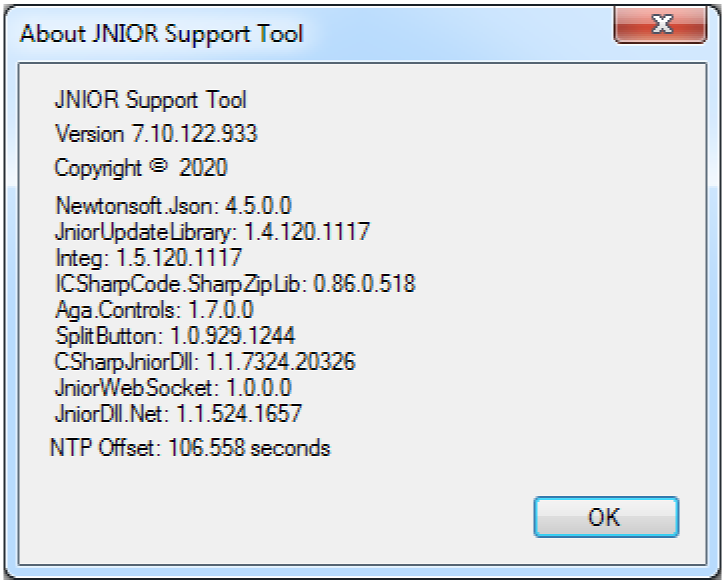
Set Simultaneous Update Count - Allows the user to set the amount of JNIORs that are allowed to update at the same time.

Set Time Offset Allowance - Lets the user decide the amount of time a JNIOR can be away from the actual time before throwing an error.

Set Default Directory - Lets the user set the location on the computer where the support tool will store its files.

Open Default Directory - Lets the user open the location where the support tool stores its files on the computer.

Help – the about function will display a pop-up box with information about the version you are running.


About JNIOR Support Tool
X
OK

JNIOR Support Tool
Version 7.10.122.933
Copyright © 2020

Newtonsoft.Json: 4.5.0.0
JniorUpdateLibrary: 1.4.120.1117
Integ: 1.5.120.1117
ICSharpCode.SharpZipLib: 0.86.0.518
Aga.Controls: 1.7.0.0
SplitButton: 1.0.929.1244
CSharpJniorDll: 1.1.7324.20326
JniorWebSocket: 1.0.0.0
JniorDll.Net: 1.1.524.1657

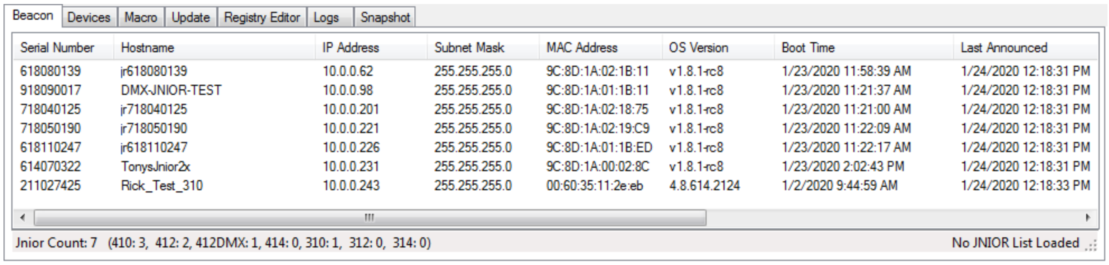
NTP Offset: 106.558 seconds

4 Beacon Tab

The JNIOR Support Tool includes the PC side of Beacon. The JNIOR side of Beacon is included in the JNIOR operating system version 3.1 and greater.

Beacon allows the user to find their JNIOR on the Ethernet network even if the JNIOR does not have an IP address appropriately configured for the local network. Beacon utilizes a UDP packet that is sent out over port 4444. The JNIOR will recognize and read the packet sent out by the PC side of Beacon and the PC side of Beacon will recognize the packet sent out by the JNIOR. The JNIOR only sends out a UDP packet on boot. The PC side of Beacon sends out a UDP packet when the JNIOR Support Tool is first loaded and then whenever the user requests one be sent ('right-click' in Beacon window).

The list of JNIORs running Beacon will be as shown below.



Serial Number	Hostname	IP Address	Subnet Mask	MAC Address	OS Version	Boot Time	Last Announced
618080139	jr618080139	10.0.0.62	255.255.255.0	9C:8D:1A:02:1B:11	v1.8.1-rc8	1/23/2020 11:58:39 AM	1/24/2020 12:18:31 PM
918090017	DMX-JNIOR-TEST	10.0.0.98	255.255.255.0	9C:8D:1A:01:1B:11	v1.8.1-rc8	1/23/2020 11:21:37 AM	1/24/2020 12:18:31 PM
718040125	jr718040125	10.0.0.201	255.255.255.0	9C:8D:1A:02:18:75	v1.8.1-rc8	1/23/2020 11:21:00 AM	1/24/2020 12:18:31 PM
718050190	jr718050190	10.0.0.221	255.255.255.0	9C:8D:1A:02:19:C9	v1.8.1-rc8	1/23/2020 11:22:09 AM	1/24/2020 12:18:31 PM
618110247	jr618110247	10.0.0.226	255.255.255.0	9C:8D:1A:01:1B:ED	v1.8.1-rc8	1/23/2020 11:22:17 AM	1/24/2020 12:18:31 PM
614070322	TonysJnior2x	10.0.0.231	255.255.255.0	9C:8D:1A:00:02:8C	v1.8.1-rc8	1/23/2020 2:02:43 PM	1/24/2020 12:18:31 PM
211027425	Rick_Test_310	10.0.0.243	255.255.255.0	00:60:35:11:2e:eb	4.8.614.2124	1/2/2020 9:44:59 AM	1/24/2020 12:18:33 PM

Jnior Count: 7 (410: 3, 412: 2, 412DMX: 1, 414: 0, 310: 1, 312: 0, 314: 0)

No JNIOR List Loaded

If your JNIOR is not listed, there are several possible reasons:

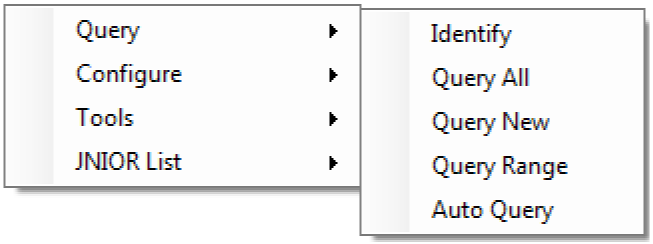
1) Your JNIOR does not have the proper JNIOR operating system (3.1 or greater)
2) Beacon was disabled on your JNIOR
3) The JNIOR is on the other side of a network device that is blocking UDP packets
4) Your PC firewall is preventing the UDP packets from being accepted.

NOTE: You can adjust the settings of your PC firewall by going to Control Panel and then Windows Firewall and enabling the JNIOR Support Tool.

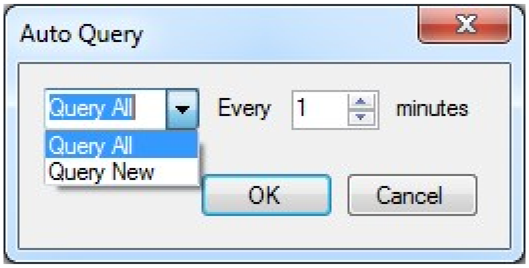
If your JNIOR is not listed, but you know it is available on the other side of a router or through a VPN connection, etc., then you can manually enter your IP address into a table using the Manage IP List feature (described below). Beacon will try to send a packet directly to this IP address and see if the JNIOR will respond. If this message is successful, the data for your JNIOR will be filled in on the Beacon tab.

4.1 General Beacon Tab Functions

If you ‘right-click’ in the white area of the Beacon tab, the following choices are provided:


Query
Configure
Tools
JNIOR List
Identify
Query All
Query New
Query Range
Auto Query

1. **Query All, Query New and Auto Query** – requests one or several JNIORs to report in according to their configuration.
   a. **Query All** – sends a request to all JNIORs on the network and those that have Beacon enabled will respond.
   b. **Query New** – sends a request to all JNIORs on the network and only those that have Beacon enabled and set as ‘new’ (default setting) will respond.
   c. **Auto Query** – allows you to set an automatic sending of a Query All or Query New at a user defined time period.

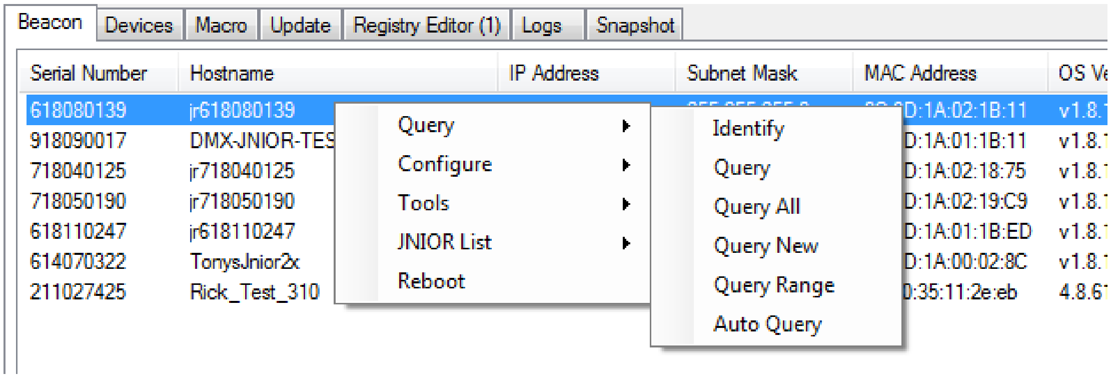

Auto Query
Query All
Query New
OK
Cancel

Query All Every 1 minutes

2. **Tools**
   a. **Open Command Line** - opens up the Command Line (As described previously above)
   b. Open Macro Execution - opens up the Macro Execution (As described previously above)

4.2 Beacon Tab Functions per JNIOR

On the Beacon Tab, you can ‘right click’ on any JNIOR in the list and the following commands will be available:


Beacon
Devices
Macro
Update
Registry Editor (1)
Logs
Snapshot
Query
Configure
Tools
JNIOR List
Reboot
Identify
Query
Query All
Query New
Query Range
Auto Query

Serial Number	Hostname	IP Address	Subnet Mask	MAC Address	OS Ve
618080139	jr618080139			D:1A:02:1B:11	v1.8.
918090017	DMX-JNIOR-TES			D:1A:01:1B:11	v1.8.
718040125	jr718040125			D:1A:02:18:75	v1.8.
718050190	jr718050190			D:1A:02:19:C9	v1.8.
618110247	jr618110247			D:1A:01:1B:ED	v1.8.
614070322	TonysJnior2x			D:1A:00:02:8C	v1.8.
211027425	Rick_Test_310			0:35:11:2e:eb	4.8.6

1) **Query**

   a. **Query, Query All, Query New and Auto Query** – requests one or several JNIORs to report in according to their configuration (same as previously described).

2) **Configure**

   a. **Identify** – causes the amber LED to rapidly flash for 5 seconds on the JNIOR.

   b. **Set Hostname** – allows you to enter the hostname for the JNIOR and will be displayed in the Beacon window.

   c. **IP Configuration** – allows you to configure the IP address of the selected JNIOR.

   d. **Registry Editor** - opens the Registry Editior tab in the support tool (Will be explained later.

   e. **Reset Attention Flag** - clears the message field for a JNIOR in Beacon if it is caused by a flag.

3) **Tools**

   a. **Open Web Page** - opens the Dynamic Configuration Pages (DCP) for the selected JNIOR.

b. **Command Line** - opens the Command Line (As previously explained above)

c. **Open Classic Monitor, Configure, Control Applicaiton** - opens the Java applet for the selected JNIOR (This is what was used for series 3 JNIORs before the DCP existed.

d. **Open Task Manager Application** - opens the Task Manager application for the selected JNIOR.

e. **Macro Execution** – allows you to execute a macro on the JNIOR (same as above excepts fills in the selected JNIOR IP address)

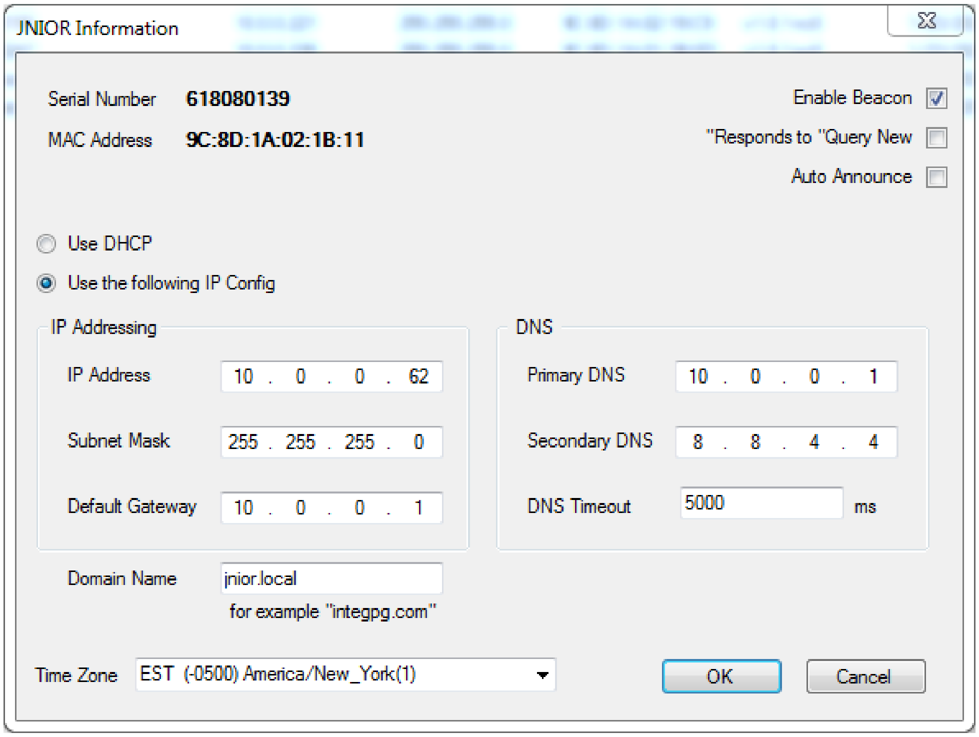
f. **Show JniorSysLog** - dislplays the JNIOR's system log.

g. **Set Time** - sets the current time for the JNIOR.

4) **Reboot** – allows you to reboot the JNIOR.

By selecting IP Configuration, you can set-up the complete JNIOR IP settings as shown below. The Primary and Secondary DNS are primarily used for sending e-mail or checking an NTP server. The Domain Name is also used as part of the JNIOR e-mail.

NOTE: Each time you open this window and select OK, the JNIOR will reset all values and this will cause some connections (like a Telnet window) to be closed. If you are only opening this window to view the settings, please click the Cancel button when done.



JNIOR Information [redacted]

Serial Number 618080139

MAC Address 9C:8D:1A:02:1B:11

Enable Beacon ☑

"Responds to "Query New ☐

Auto Announce ☐

○ Use DHCP

● Use the following IP Config

IP Addressing

IP Address 10 . 0 . 0 . 62

Subnet Mask 255 . 255 . 255 . 0

Default Gateway 10 . 0 . 0 . 1

DNS

Primary DNS 10 . 0 . 0 . 1

Secondary DNS 8 . 8 . 4 . 4

DNS Timeout 5000 ms

Domain Name jnior.local

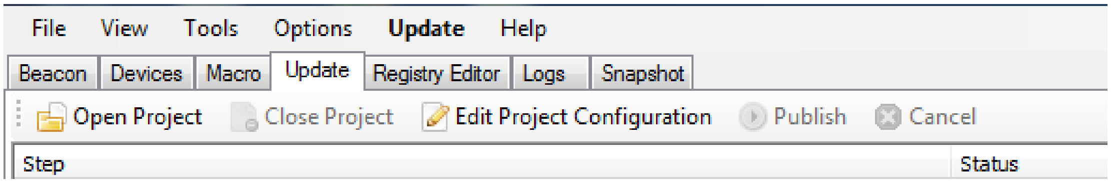
for example "integpg.com"

Time Zone EST (-0500) America/New_York(1)

5 Update Tab

The Update Tab allows the user to process update files supplied by INTEG and/or to create a project that will update their JNIOR for a variety of reasons.

The user can utilize various commands available via the dashboard area of the Update Tab. The dashboard is shown below:


File
View
Tools
Options
Update
Help
Beacon
Devices
Macro
Update
Registry Editor
Logs
Snapshot
Open Project
Close Project
Edit Project Configuration
Publish
Cancel
Step
Status

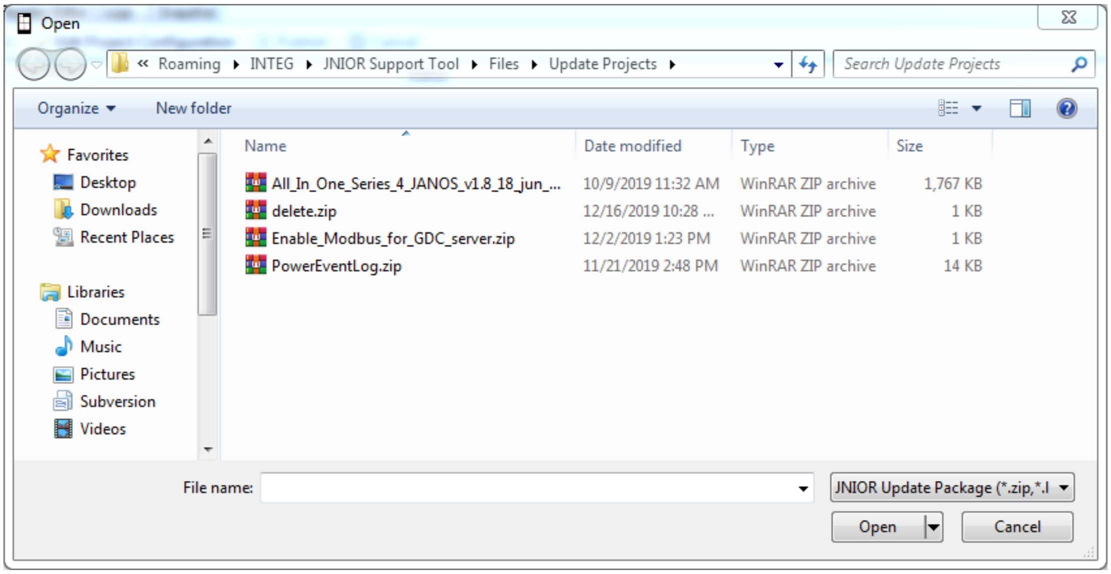
Dashboard Commands

The dashboard commands available are as follows:

Open Project – the user can open a previously created project or a project sent to them by INTEG. A project can be a ZIP file (zip extension) that contains the Steps and the files associated with the project.

NOTE: The user should NOT unzip it the ZIP file. The Support Tool will unzip it and move the files to the proper folders. Just select the zip file in the pop up Window. A typical file location in Windows XP is shown below:

C:\Documents and Settings\rshulkosky.INTEGPG2\Application Data\INTEG\JNIOR Support Tool\Files\Update Projects

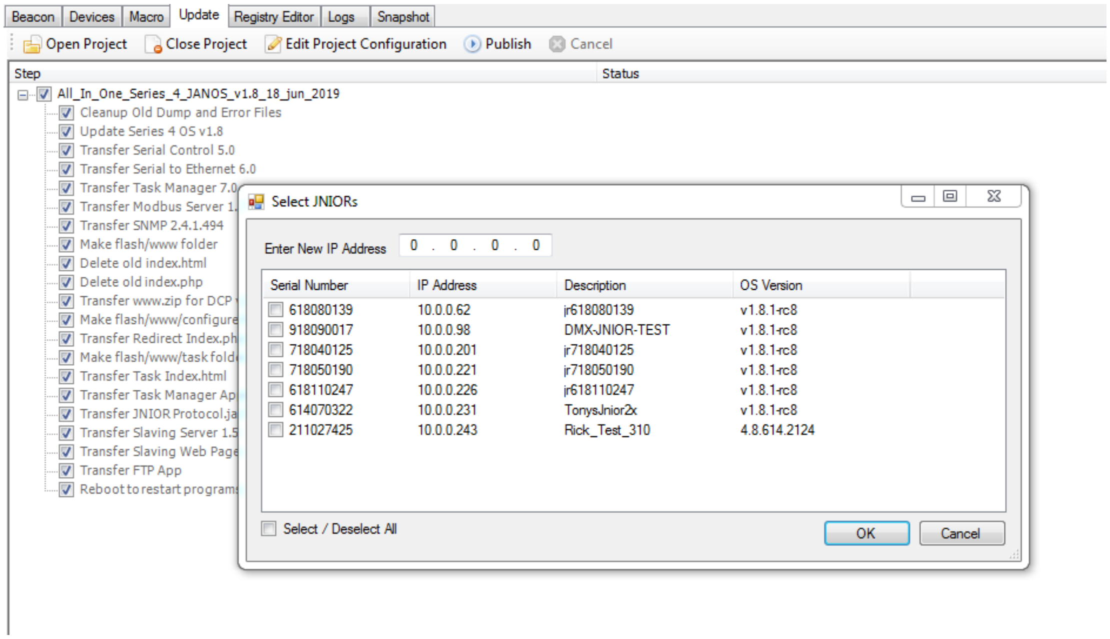

Open
« Roaming ▸ INTEG ▸ JNIOR Support Tool ▸ Files ▸ Update Projects ▸
Search Update Projects
Organize ▾
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Subversion
Videos
File name:
JNIOR Update Package (*.zip,*.l
Open
Cancel

Name	Date modified	Type	Size
All_In_One_Series_4_JANOS_v1.8_18_jun_...	10/9/2019 11:32 AM	WinRAR ZIP archive	1,767 KB
delete.zip	12/16/2019 10:28 ...	WinRAR ZIP archive	1 KB
Enable_Modbus_for_GDC_server.zip	12/2/2019 1:23 PM	WinRAR ZIP archive	1 KB
PowerEventLog.zip	11/21/2019 2:48 PM	WinRAR ZIP archive	14 KB

Close Project – closes the project.

Edit Project Configuration – allows the user to edit the project.

Publish Update to JNIOR – allows the user to select one or more JNIORs for the update. When the user clicks on this command, a pop-up window will be displayed listing all the JNIORs found by Beacon, including those entered in the Manage IP List. **If your JNIOR is not listed, you can manually type in the IP address of your JNIOR in the Enter New IP Address box.**



☑ All_In_One_Series_4_JANOS_v1.8_18_jun_2019
  - ☑ Cleanup Old Dump and Error Files
  - ☑ Update Series 4 OS v1.8
  - ☑ Transfer Serial Control 5.0
  - ☑ Transfer Serial to Ethernet 6.0
  - ☑ Transfer Task Manager 7.0
  - ☑ Transfer Modbus Server 1.
  - ☑ Transfer SNMP 2.4.1.494
  - ☑ Make flash/www folder
  - ☑ Delete old index.html
  - ☑ Delete old index.php
  - ☑ Transfer www.zip for DCP
  - ☑ Make flash/www/configure
  - ☑ Transfer Redirect Index.ph
  - ☑ Make flash/www/task fold
  - ☑ Transfer Task Index.html
  - ☑ Transfer Task Manager Ap
  - ☑ Transfer JNIOR Protocol.ja
  - ☑ Transfer Slaving Server 1.5
  - ☑ Transfer Slaving Web Page
  - ☑ Transfer FTP App
  - ☑ Reboot to restart program

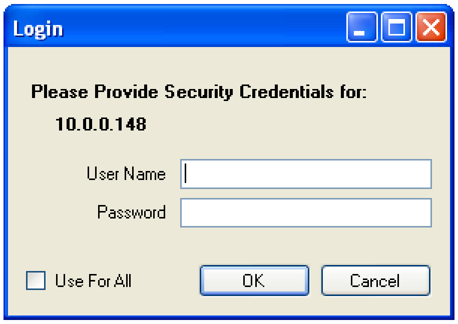
Enter New IP Address 0 . 0 . 0 . 0

Serial Number	IP Address	Description	OS Version
☐ 618080139	10.0.0.62	jr618080139	v1.8.1-rc8
☐ 918090017	10.0.0.98	DMX-JNIOR-TEST	v1.8.1-rc8
☐ 718040125	10.0.0.201	jr718040125	v1.8.1-rc8
☐ 718050190	10.0.0.221	jr718050190	v1.8.1-rc8
☐ 618110247	10.0.0.226	jr618110247	v1.8.1-rc8
☐ 614070322	10.0.0.231	TonysJnior2x	v1.8.1-rc8
☐ 211027425	10.0.0.243	Rick_Test_310	4.8.614.2124

The Update project will make a variety of connections to the JNIOR and the JNIOR Support Tool may need to log in to the JNIOR. It will try to use the default user name and password. If you have deleted the default user name and password, you will be asked to enter the User Name and Password for the JNIOR. If you are doing multiple JNIORs and they are the same for all JNIORs, you can check the Use For All box. Otherwise, you will be prompted for each JNIOR.

Cancel – cancels the update.

5.1 Creating and Editing a Project


Login

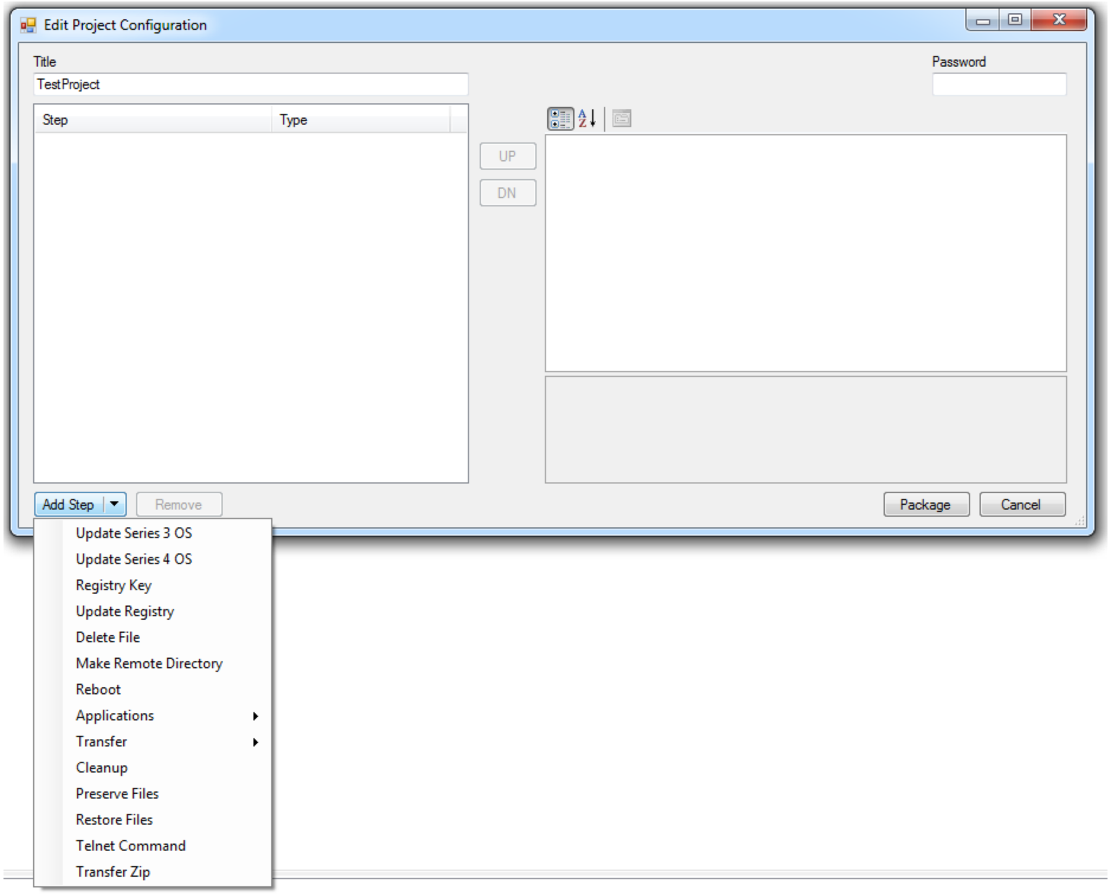
Please Provide Security Credentials for:
10.0.0.148

User Name
Password
☐ Use For All
OK
Cancel

When the user clicks on the Edit Project Configuration command, a blank project window is displayed. **The user must enter a project Title**. The user has the option to set a password. If a password is entered, whenever this project is opened, the password will have to be entered to edit the project. You do NOT need the password to run the project, only to edit the project. You can delete the password and then click Save & Close and it will no longer be needed.

The **Add Step** button will give the user a choice of various Steps to be used in a project.

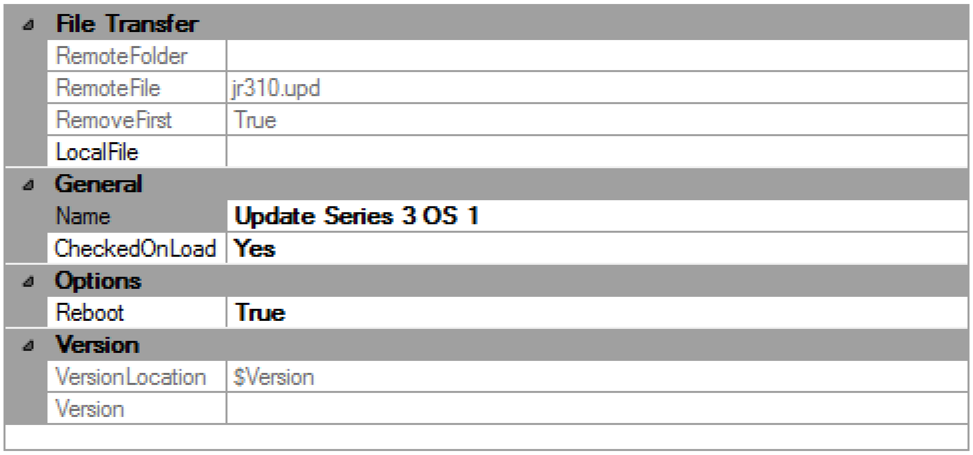
NOTE: The Add Step button is only available after you have entered text in the Title box at the top.


Edit Project Configuration

Title: TestProject

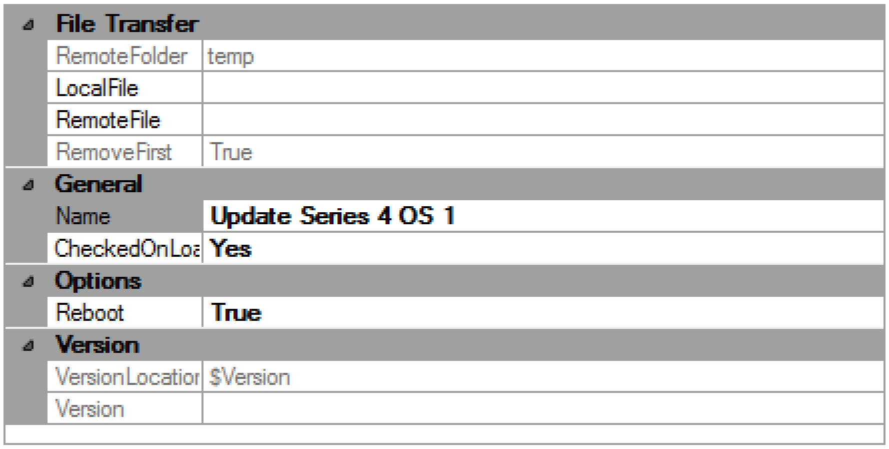
Password
Step
Type
UP
DN
Add Step
Remove
Package
Cancel
Update Series 3 OS
Update Series 4 OS
Registry Key
Update Registry
Delete File
Make Remote Directory
Reboot
Applications
Transfer
Cleanup
Preserve Files
Restore Files
Telnet Command
Transfer Zip

Update Series 3 OS – this Step is designed to allow the user to transfer a jr310.upd file to update the JNIOR operating system. This file is provided by INTEG, as needed. When the user clicks in the Local File cell, clicking on the icon with three dots will allow the user to navigate to the location of this file. The Support Tool will pull this file from the remote location and put it in a local folder. The JNIOR OS version is automatically detected and displayed in the Version cell. The Option to reboot the JNIOR is set as true by default. This causes the JNIOR to reboot immediately after the file is transferred. The user could set this to false and utilize the Reboot Step later in the project. The user can edit the Name cell for display purposes in the Step list window on the left.



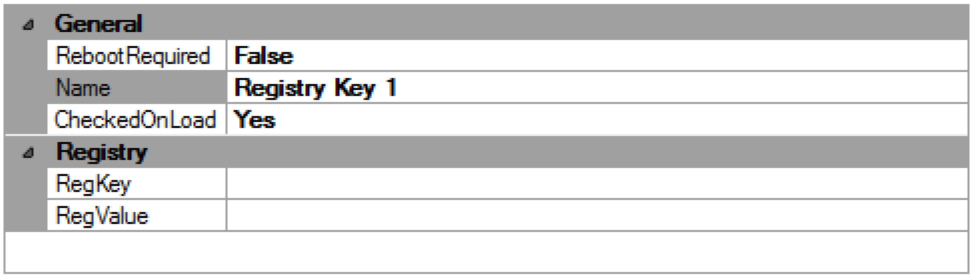
File Transfer	
RemoteFolder	
RemoteFile	jr310.upd
RemoveFirst	True
LocalFile	
General	
Name	**Update Series 3 OS 1**
CheckedOnLoad	**Yes**
Options	
Reboot	**True**
Version	
VersionLocation	$Version
Version	

Update Series 4 OS - this Step is designed to allow the user to transfer a upd update file to the JNIOR operating system. This file is provided by INTEG, as needed. When the user clicks in the Local File cell, clicking on the icon with three dots will allow the user to navigate to the location of this file. The Support Tool will pull this file from the remote location and put it in a local folder. The JNIOR OS version is automatically detected and displayed in the Version cell. The Option to reboot the JNIOR is set as true by default. This causes the JNIOR to reboot immediately after the file is transferred. The user could set this to false and utilize the Reboot Step later in the project. The user can edit the Name cell for display purposes in the Step list window on the left.



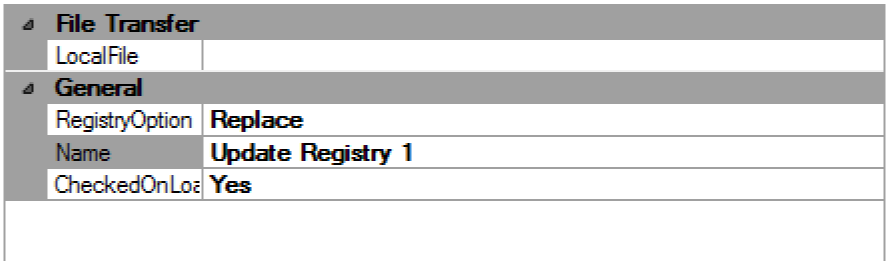
File Transfer	
RemoteFolder	temp
LocalFile	
RemoteFile	
RemoveFirst	True
General	
Name	**Update Series 4 OS 1**
CheckedOnLoa	**Yes**
Options	
Reboot	**True**
Version	
VersionLocatio	$Version
Version	

Registry Key – this Step is designed to allow the user to create and/or set a registry key on the JNIOR with a value. The RegKey cell must contain the exact text and capitalization needed for the Registry key. The RegValue cell must contain an acceptable value for the Registry key. The RebootRequired cell can be set to false or true to indicate if a reboot is required as a result of this step. A Reboot Step must also be included in the Project to trigger a reboot after this step is executed. The user can edit the Name cell for display purposes in the Step list window on the left.



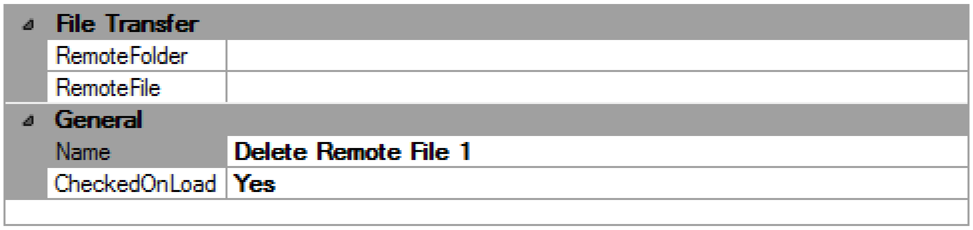
General	
RebootRequired	False
Name	Registry Key 1
CheckedOnLoad	Yes
Registry	
RegKey	
RegValue	

Update Registry - this Step grabs an .ini file from you PC and uploads it to the selected JNIOR. This will update the registry with the one saved as the .ini file.



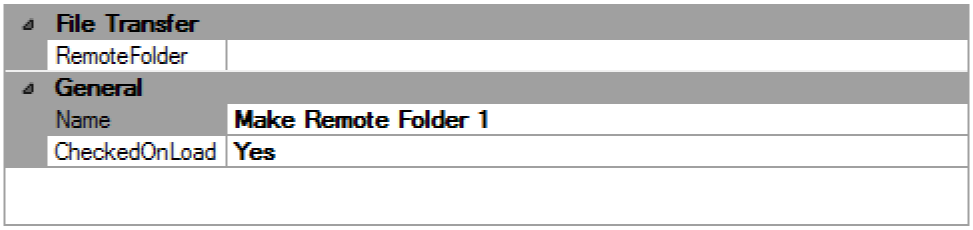
File Transfer	
LocalFile	
General	
RegistryOption	Replace
Name	Update Registry 1
CheckedOnLoa	Yes

Delete File – this Step is designed to allow the user to delete a file on the JNIOR. The user must enter the file name in the RemoteFile cell and any folder name where the file is stored (besides the root directory) in the RemoteFolder cell. The user can edit the Name cell for display purposes in the Step list window on the left.



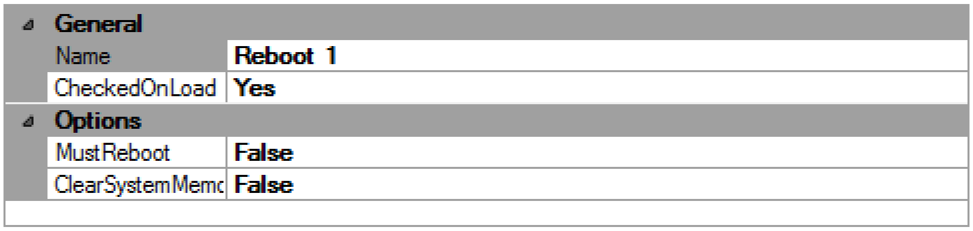
File Transfer	
RemoteFolder	
RemoteFile	
General	
Name	Delete Remote File 1
CheckedOnLoad	Yes

Make Remote Directory – this Step is designed to allow the user create a new folder (directory) on the JNIOR for storing an application or other file. The user must enter the folder name and any path in the RemoteFolder cell. The user can edit the Name cell for display purposes in the Step list window on the left.



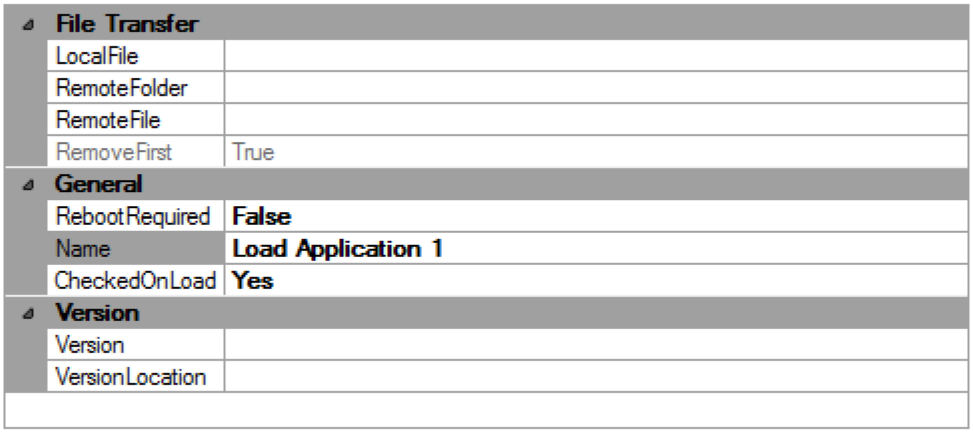
File Transfer	
RemoteFolder	
General	
Name	**Make Remote Folder 1**
CheckedOnLoad	**Yes**

Reboot – this Step is designed to allow the user to reboot the JNIOR during the execution of the project. A reboot must occur to update the JNIOR OS, or stop and start an application or for some Registry setting changes to take effect. If any of the steps require a reboot, then a Reboot step must be included in the project to respond to the reboot flag set by one of the other steps. The user can also set the ClearSystemMemory to true to clear the RAM memory on reboot. This deletes all the logs and some other temporary files, but does not delete anything in the flash memory (same as a reboot –a command). The user can also set the MustReboot option to true to force a reboot regardless of the previous steps. The user can edit the Name cell for display purposes in the Step list window on the left.



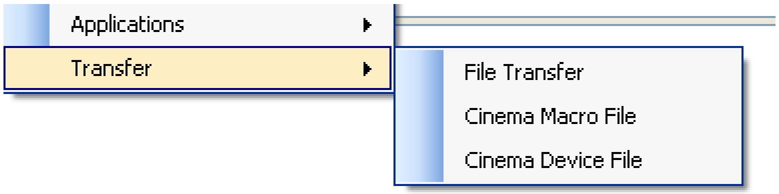
General	
Name	**Reboot 1**
CheckedOnLoad	**Yes**
Options	
MustReboot	**False**
ClearSystemMemc	**False**

Applications – The Load Application Step and can be used to load any application. You do NOT need to have a version or version location registry key (location) defined. If a version number is available, the Load Application Step will check it and compare the version numbers. You can also use the Generic File Transfer Step to transfer an application besides a standard INTEG application.



File Transfer	
LocalFile	
RemoteFolder	
RemoteFile	
RemoveFirst	True
General	
RebootRequired	**False**
Name	**Load Application 1**
CheckedOnLoad	**Yes**
Version	
Version	
VersionLocation	

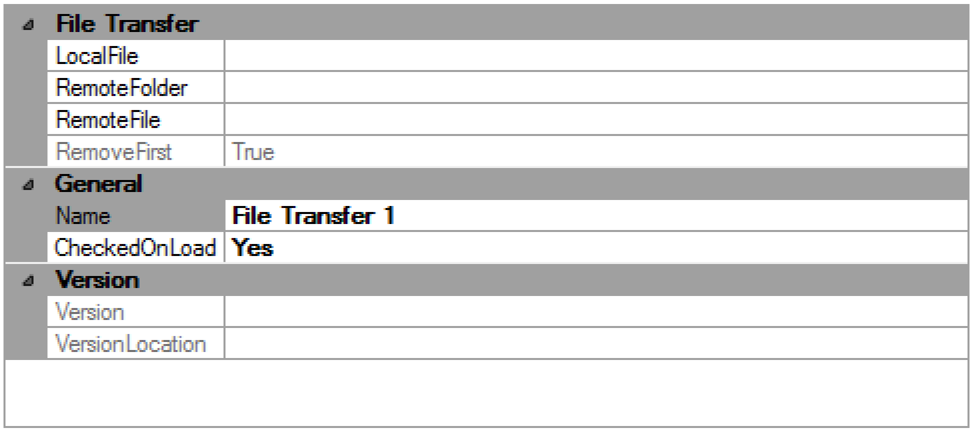
Transfer Functions – there are several types of file transfer functions available. There is a generic File Transfer Step and two specific steps for use with the Cinema.JNIOR application.



Generic File Transfer – this Step is designed to allow the user to transfer a file to the JNIOR. The location of the file on the PC must be selected via the LocalFile cell and the location for the file on the JNIOR must be entered in the RemoteFile cell. The file can be transferred to a specific folder on the JNIOR by entering the complete path in the RemoteFolder cell.

NOTE: The folder on the JNIOR must exist or must be created with a Make Remote Folder Step prior to this step. The user can rename the file and the Support Tool will change the name of the file before it is transferred to the JNIOR. A file on the JNIOR with the same name will be removed before transferring the new file (RemoveFirst). The user can edit the Name cell for display purposes in the Step list window on the left.

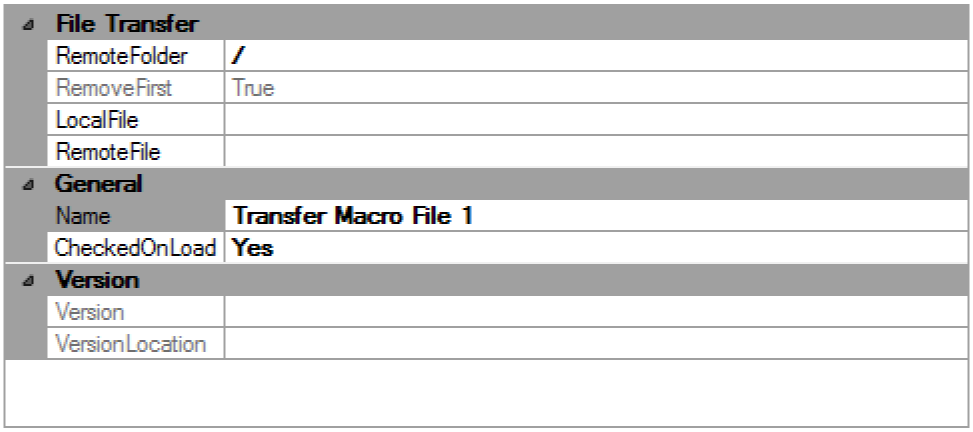
NOTE: If you are transferring a jnior.ini file to reconfigure your JNIOR, the Support Tool will pause after transferring the jnior.ini file to detect that the JNIOR has properly recognized the jnior.ini file and reconfigured your JNIOR to the new settings before moving on to the next step. This can take up to 1 minute to confirm.



File Transfer	
LocalFile	
RemoteFolder	
RemoteFile	
RemoveFirst	True
General	
Name	**File Transfer 1**
CheckedOnLoad	**Yes**
Version	
Version	
VersionLocation	

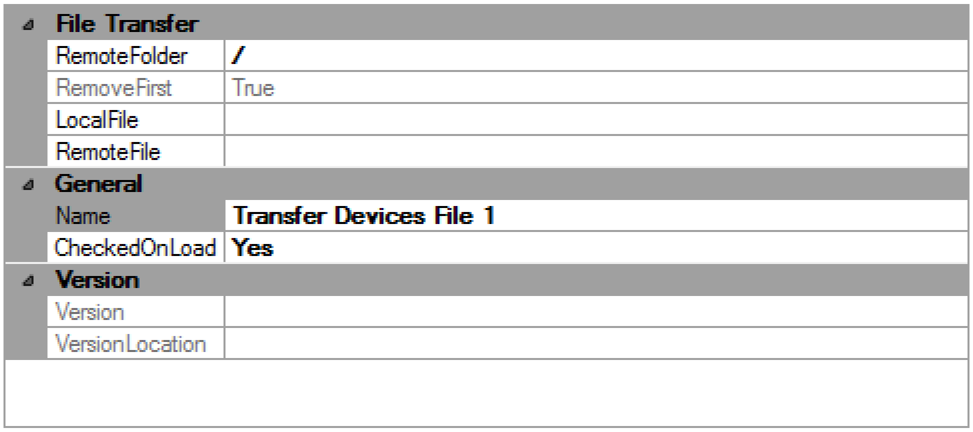
Cinema Macro File Transfer – this Step is designed to allow the user to transfer a Macro file used by Cinema.JNIOR. This step is different than a Generic File Transfer because this step will first check the JNIOR to see if a macro file exists with the same name or a different name. In either case, **it will delete the macro file so that only one**

macro file exists on the JNIOR. The location of the file on the PC must be selected via the LocalFile cell. The name for the file on the JNIOR must be entered in the RemoteFile cell and must be macro_xxx.csv (where xxx can be anything) to be recognized by the Cinema.JNIOR program. The file can only be transferred to the root directory. The user can edit the Name cell for display purposes in the Step list window on the left.



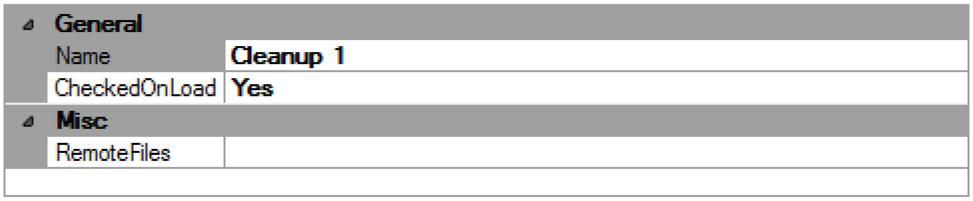
File Transfer	
RemoteFolder	/
RemoveFirst	True
LocalFile	
RemoteFile	
General	
Name	**Transfer Macro File 1**
CheckedOnLoad	**Yes**
Version	
Version	
VersionLocation	

Cinema Device File Transfer – this Step is designed to allow the user to transfer a Devices file used by Cinema.JNIOR. This step is different than a Generic File Transfer because this step will first check the JNIOR to see if a devices file exists with the same name or a different name. In either case, **it will delete the devices file so that only one devices file exists on the JNIOR**. The location of the file on the PC must be selected via the LocalFile cell. The name for the file on the JNIOR must be entered in the RemoteFile cell and must be devices_xxx.csv (where xxx can be anything) to be recognized by the Cinema.JNIOR program. The file can only be transferred to the root directory. The user can edit the Name cell for display purposes in the Step list window on the left.



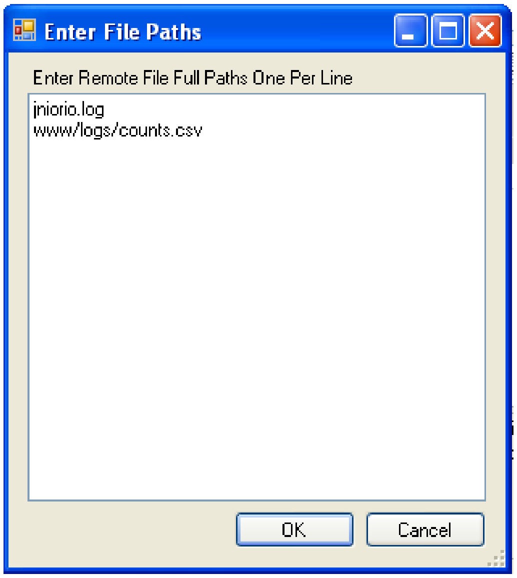
File Transfer	
RemoteFolder	/
RemoveFirst	True
LocalFile	
RemoteFile	
General	
Name	**Transfer Devices File 1**
CheckedOnLoad	**Yes**
Version	
Version	
VersionLocation	

Cleanup – this Step allows you to delete one or more files on the JNIOR. When the user clicks in the Remote Files cell, a window will pop-up allowing the user to enter the file names and/or folder/filenames of the files to be deleted. The user can edit the Name cell for display purposes in the Step list window on the left.



General	
Name	**Cleanup 1**
CheckedOnLoad	**Yes**
Misc	
RemoteFiles	

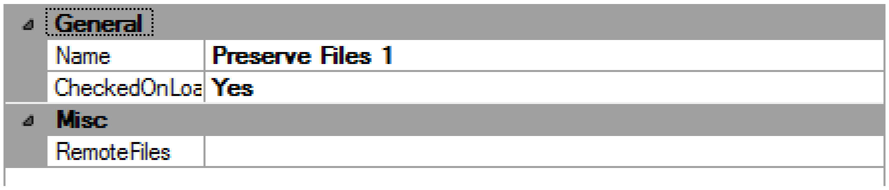
Below is the window where the file names and paths (if required) are entered **one per line**. The wild card * can be used.



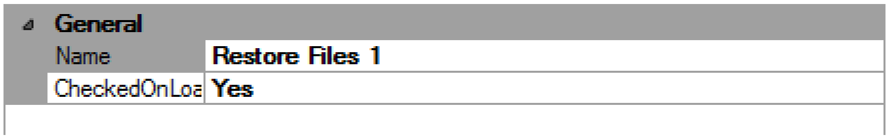
Enter Remote File Full Paths One Per Line

```
jniorio.log
www/logs/counts.csv
```

Preserve and Restore Files - this Steps should be used together. The preserve will save certain files from you JNIOR to keep and then the Restore will reset the JNIOR then load the files saved back onto that JNIOR.

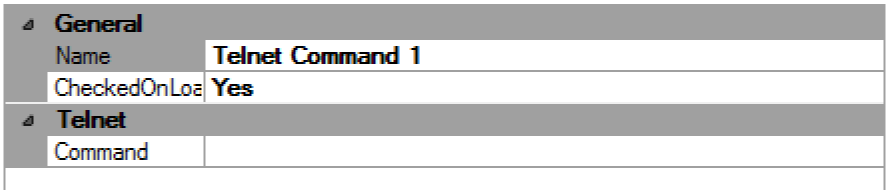


General	
Name	**Preserve Files 1**
CheckedOnLoa	**Yes**
Misc	
RemoteFiles	



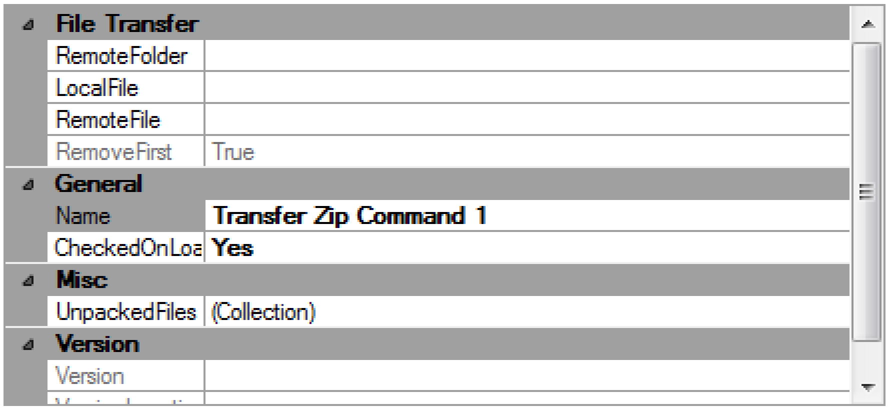
General	
Name	**Restore Files 1**
CheckedOnLoa	**Yes**

Telnet Command - this Step will allow you send a telnet command through the command line, allowsing for example a “reboot” command to reboot the JNIOR or a “ps” command that will show you which process on the JNIOR are running.



General
Name: Telnet Command 1
CheckedOnLoa: Yes
Telnet
Command:

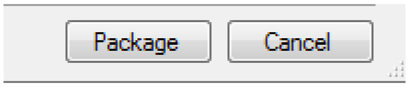
Transfer Zip - this Step allows you to send the contents of a zip file to a JNIOR.



File Transfer
RemoteFolder:
LocalFile:
RemoteFile:
RemoveFirst: True
General
Name: Transfer Zip Command 1
CheckedOnLoa: Yes
Misc
UnpackedFiles: (Collection)
Version
Version:

Up and Dn Buttons – the up and down buttons in the middle of the Edit Project Configuration window allow the user to reorder the Steps. The order of the Steps can be important for proper implementation of a project.

Package and Close Buttons

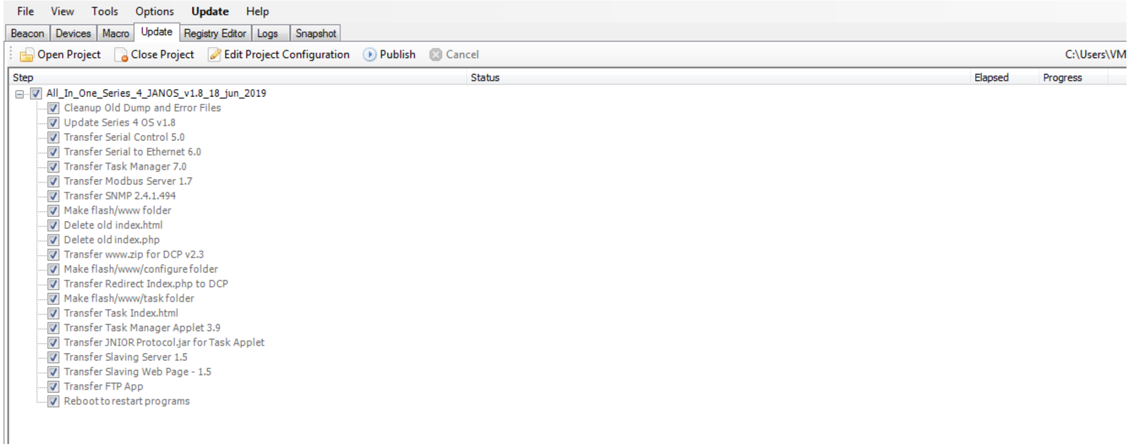


The user can **Package** a project that will include all the steps and any software files into a zip folder. This zip folder can be sent to another user for use with the Support Tool. The other user will open this zip file by using the Open Project command in the Support Tool. The other user does not have to unzip the project.

The **Close** button will close the current Edit Project Configuration window without saving any of the changes.

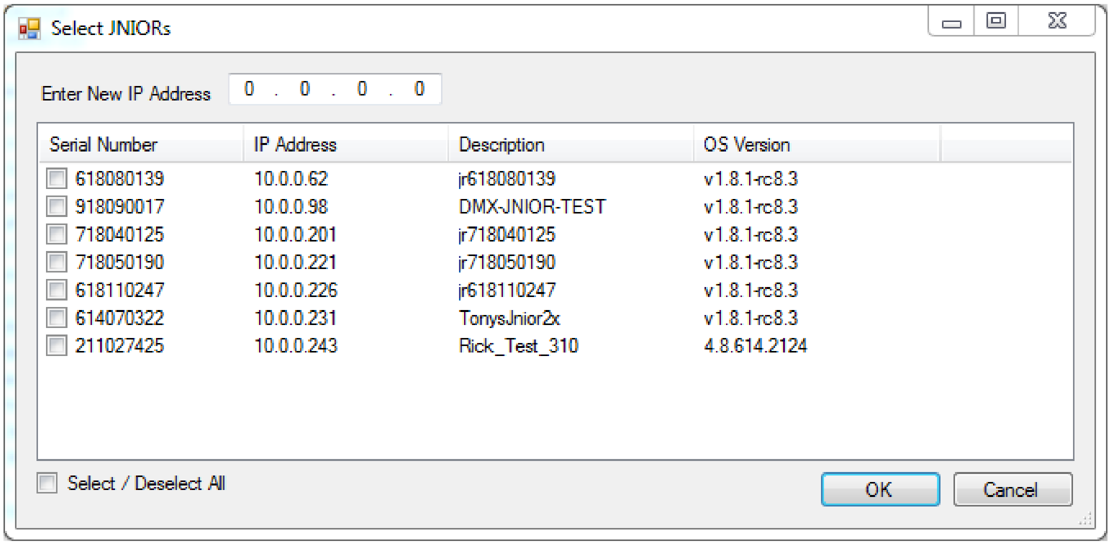
5.2 Updating a JNIOR

To update a JNIOR, the user must have an active project open. The user can “uncheck” any step that they do not want to execute.


File
View
Tools
Options
Update
Help
Beacon
Devices
Macro
Update
Registry Editor
Logs
Snapshot
Open Project
Close Project
Edit Project Configuration
Publish
Cancel
C:\Users\VM
Step
Status
Elapsed
Progress

- ☑ All_In_One_Series_4_JANOS_v1.8_18_jun_2019
  - ☑ Cleanup Old Dump and Error Files
  - ☑ Update Series 4 OS v1.8
  - ☑ Transfer Serial Control 5.0
  - ☑ Transfer Serial to Ethernet 6.0
  - ☑ Transfer Task Manager 7.0
  - ☑ Transfer Modbus Server 1.7
  - ☑ Transfer SNMP 2.4.1.494
  - ☑ Make flash/www folder
  - ☑ Delete old index.html
  - ☑ Delete old index.php
  - ☑ Transfer www.zip for DCP v2.3
  - ☑ Make flash/www/configure folder
  - ☑ Transfer Redirect Index.php to DCP
  - ☑ Make flash/www/task folder
  - ☑ Transfer Task Index.html
  - ☑ Transfer Task Manager Applet 3.9
  - ☑ Transfer JNIOR Protocol.jar for Task Applet
  - ☑ Transfer Slaving Server 1.5
  - ☑ Transfer Slaving Web Page - 1.5
  - ☑ Transfer FTP App
  - ☑ Reboot to restart programs

When the user clicks on the Publish Update to JNIOR command, a pop-up box will be provided to select one or more JNIOR IP address or to manually enter it. Once the OK button is selected, the update will begin. The IP address of the current JNIOR will be displayed in the dashboard.


Select JNIORs
OK
Cancel

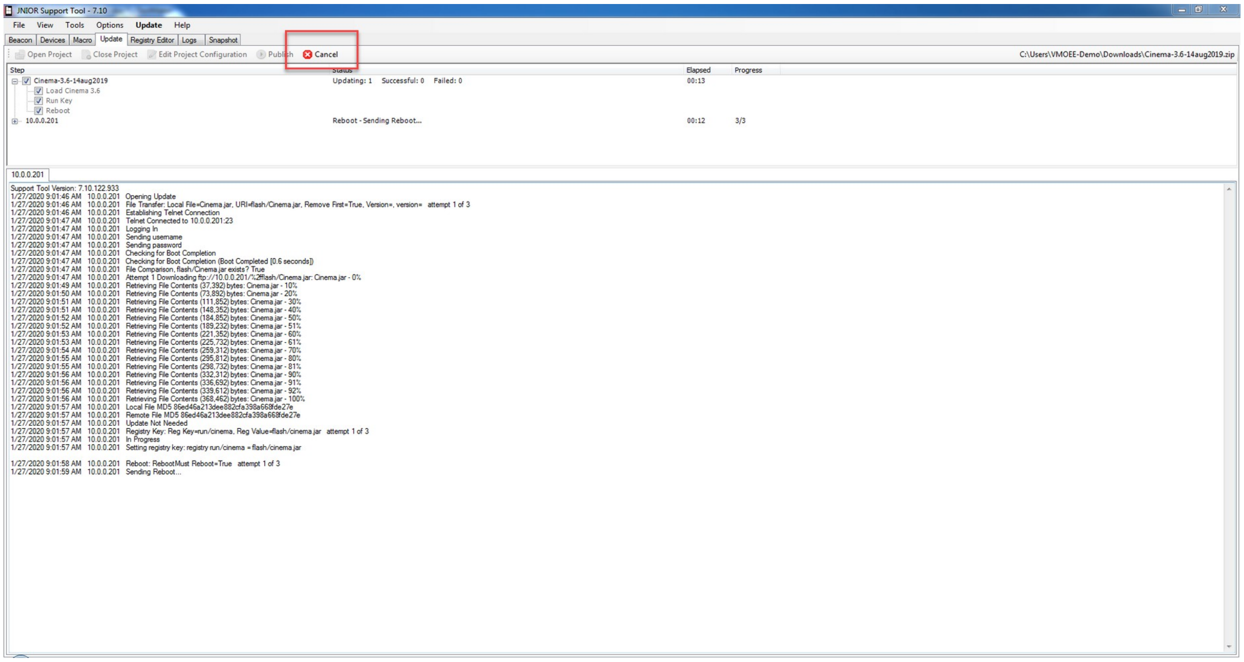
Enter New IP Address 0 . 0 . 0 . 0

Serial Number	IP Address	Description	OS Version
☐ 618080139	10.0.0.62	jr618080139	v1.8.1-rc8.3
☐ 918090017	10.0.0.98	DMX-JNIOR-TEST	v1.8.1-rc8.3
☐ 718040125	10.0.0.201	jr718040125	v1.8.1-rc8.3
☐ 718050190	10.0.0.221	jr718050190	v1.8.1-rc8.3
☐ 618110247	10.0.0.226	jr618110247	v1.8.1-rc8.3
☐ 614070322	10.0.0.231	TonysJnior2x	v1.8.1-rc8.3
☐ 211027425	10.0.0.243	Rick_Test_310	4.8.614.2124

☐ Select / Deselect All

The user will receive status information for each step of the project for each JNIOR being updated. Progress and feedback will also be provided in the bottom area of the Update Tab for a temporary record of each step.

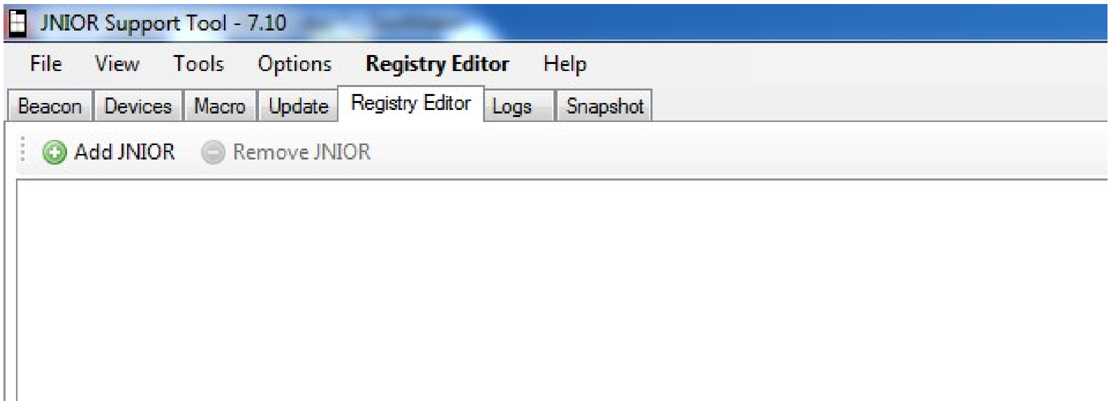
The user can click on the Cancel command in the dashboard to stop the Update.


JNIOR Support Tool - 7.10
File
View
Tools
Options
Update
Help
Beacon
Devices
Macro
Update
Registry Editor
Logs
Snapshot
Open Project
Close Project
Edit Project Configuration
Publish
Cancel
C:\Users\VMOEE-Demo\Downloads\Cinema-3.6-14aug2019.zip
Step
Status
Elapsed
Progress
Cinema-3.6-14aug2019
Load Cinema 3.6
Run Key
Reboot
Updating: 1 Successful: 0 Failed: 0
00:13
10.0.0.201
Reboot - Sending Reboot...
00:12
3/3
10.0.0.201

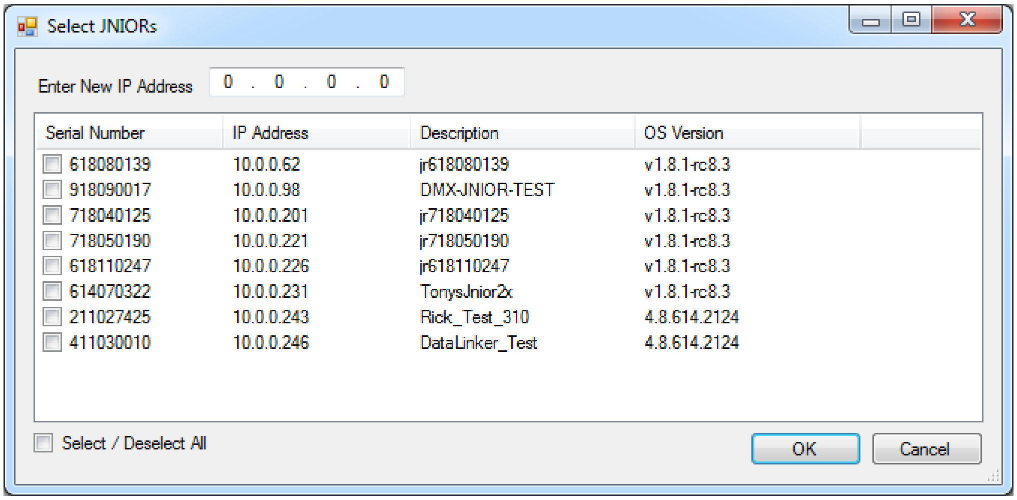
```
Support Tool Version: 7.10.122.933
1/27/2020 9:01:46 AM   10.0.0.201   Opening Update
1/27/2020 9:01:46 AM   10.0.0.201   File Transfer: Local File=Cinema.jar, URI=flash/Cinema.jar, Remove First=True, Version=, version=   attempt 1 of 3
1/27/2020 9:01:46 AM   10.0.0.201   Establishing Telnet Connection
1/27/2020 9:01:47 AM   10.0.0.201   Telnet Connected to 10.0.0.201:23
1/27/2020 9:01:47 AM   10.0.0.201   Logging In
1/27/2020 9:01:47 AM   10.0.0.201   Sending username
1/27/2020 9:01:47 AM   10.0.0.201   Sending password
1/27/2020 9:01:47 AM   10.0.0.201   Checking for Boot Completion
1/27/2020 9:01:47 AM   10.0.0.201   Checking for Boot Completion (Boot Completed [0.6 seconds])
1/27/2020 9:01:47 AM   10.0.0.201   File Comparison, flash/Cinema.jar exists? True
1/27/2020 9:01:47 AM   10.0.0.201   Attempt 1 Downloading ftp://10.0.0.201/%2fflash/Cinema.jar: Cinema.jar - 0%
1/27/2020 9:01:49 AM   10.0.0.201   Retrieving File Contents (37,392) bytes: Cinema.jar - 10%
1/27/2020 9:01:50 AM   10.0.0.201   Retrieving File Contents (73,892) bytes: Cinema.jar - 20%
1/27/2020 9:01:51 AM   10.0.0.201   Retrieving File Contents (111,852) bytes: Cinema.jar - 30%
1/27/2020 9:01:51 AM   10.0.0.201   Retrieving File Contents (148,352) bytes: Cinema.jar - 40%
1/27/2020 9:01:52 AM   10.0.0.201   Retrieving File Contents (184,852) bytes: Cinema.jar - 50%
1/27/2020 9:01:52 AM   10.0.0.201   Retrieving File Contents (189,232) bytes: Cinema.jar - 51%
1/27/2020 9:01:53 AM   10.0.0.201   Retrieving File Contents (221,352) bytes: Cinema.jar - 60%
1/27/2020 9:01:53 AM   10.0.0.201   Retrieving File Contents (225,732) bytes: Cinema.jar - 61%
1/27/2020 9:01:54 AM   10.0.0.201   Retrieving File Contents (259,312) bytes: Cinema.jar - 70%
1/27/2020 9:01:55 AM   10.0.0.201   Retrieving File Contents (295,812) bytes: Cinema.jar - 80%
1/27/2020 9:01:55 AM   10.0.0.201   Retrieving File Contents (298,732) bytes: Cinema.jar - 81%
1/27/2020 9:01:56 AM   10.0.0.201   Retrieving File Contents (332,312) bytes: Cinema.jar - 90%
1/27/2020 9:01:56 AM   10.0.0.201   Retrieving File Contents (336,692) bytes: Cinema.jar - 91%
1/27/2020 9:01:56 AM   10.0.0.201   Retrieving File Contents (339,612) bytes: Cinema.jar - 92%
1/27/2020 9:01:56 AM   10.0.0.201   Retrieving File Contents (368,462) bytes: Cinema.jar - 100%
1/27/2020 9:01:57 AM   10.0.0.201   Local File MD5 86ed46a213dee882cfa398a668fde27e
1/27/2020 9:01:57 AM   10.0.0.201   Remote File MD5 86ed46a213dee882cfa398a668fde27e
1/27/2020 9:01:57 AM   10.0.0.201   Update Not Needed
1/27/2020 9:01:57 AM   10.0.0.201   Registry Key: Reg Key=run/cinema, Reg Value=flash/cinema.jar   attempt 1 of 3
1/27/2020 9:01:57 AM   10.0.0.201   In Progress
1/27/2020 9:01:57 AM   10.0.0.201   Setting registry key: registry run/cinema = flash/cinema.jar

1/27/2020 9:01:58 AM   10.0.0.201   Reboot: RebootMust Reboot=True   attempt 1 of 3
1/27/2020 9:01:59 AM   10.0.0.201   Sending Reboot...
```

6 Registry Editor

The Registry Editor allows you to access and edit the Registry of the selected JNIOR. To start, you'll start with an empty page, with two options. You can either add a JNIOR or remove a JNIOR.


JNIOR Support Tool - 7.10
File
View
Tools
Options
Registry Editor
Help
Beacon
Devices
Macro
Update
Registry Editor
Logs
Snapshot
Add JNIOR
Remove JNIOR

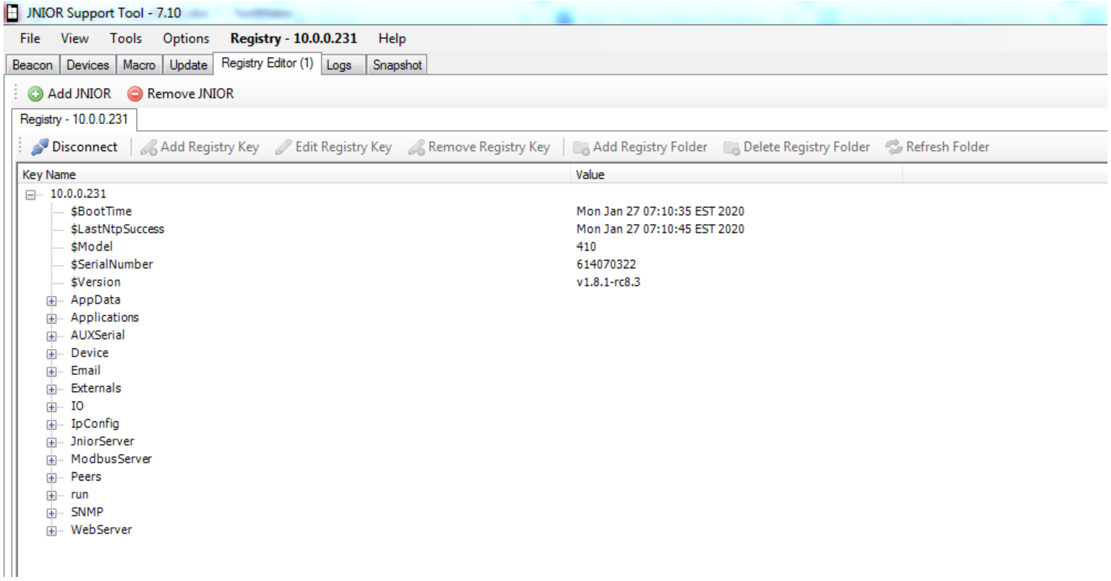
When a JNIOR is added, the beacon list of JNIOR's will appear. From here a JNIOR can be selected to view and edit its Registry.


Select JNIORs
OK
Cancel
☐ Select / Deselect All

Enter New IP Address 0 . 0 . 0 . 0

Serial Number	IP Address	Description	OS Version
☐ 618080139	10.0.0.62	jr618080139	v1.8.1-rc8.3
☐ 918090017	10.0.0.98	DMX-JNIOR-TEST	v1.8.1-rc8.3
☐ 718040125	10.0.0.201	jr718040125	v1.8.1-rc8.3
☐ 718050190	10.0.0.221	jr718050190	v1.8.1-rc8.3
☐ 618110247	10.0.0.226	jr618110247	v1.8.1-rc8.3
☐ 614070322	10.0.0.231	TonysJnior2x	v1.8.1-rc8.3
☐ 211027425	10.0.0.243	Rick_Test_310	4.8.614.2124
☐ 411030010	10.0.0.246	DataLinker_Test	4.8.614.2124

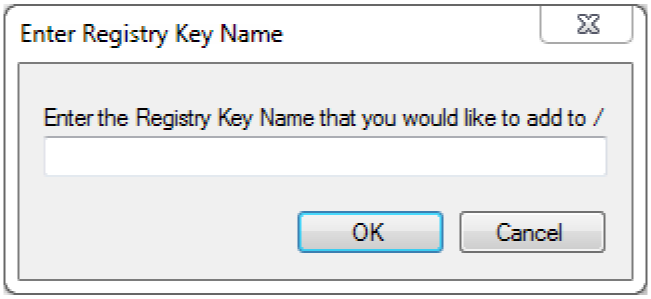
Once a JNIOR has been selected, pressing ok will bring up that JNIOR's Registry. You can select mulitiple JNIOR's, and that will bring up multiple tabs of JNIOR Registries.


JNIOR Support Tool - 7.10
File
View
Tools
Options
Registry - 10.0.0.231
Help
Beacon
Devices
Macro
Update
Registry Editor (1)
Logs
Snapshot
Add JNIOR
Remove JNIOR
Registry - 10.0.0.231
Disconnect
Add Registry Key
Edit Registry Key
Remove Registry Key
Add Registry Folder
Delete Registry Folder
Refresh Folder

Key Name	Value
10.0.0.231	
$BootTime	Mon Jan 27 07:10:35 EST 2020
$LastNtpSuccess	Mon Jan 27 07:10:45 EST 2020
$Model	410
$SerialNumber	614070322
$Version	v1.8.1-rc8.3
AppData	
Applications	
AUXSerial	
Device	
Email	
Externals	
IO	
IpConfig	
JniorServer	
ModbusServer	
Peers	
run	
SNMP	
WebServer	

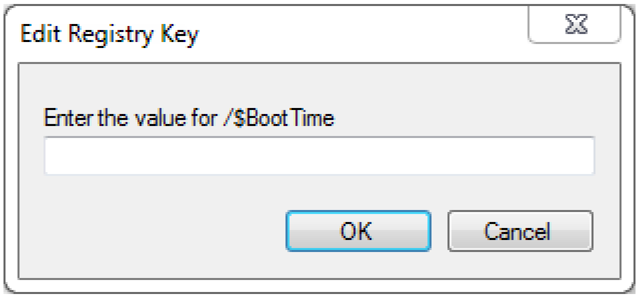
Here the Registry of the selected JNIOR will now be displayed, when clicking inside the Registry, a number of options are available to use. Here is the list:

Add Registry Key - adds a new Registry Key at the selected spot in the directory.


Enter Registry Key Name
OK
Cancel

Enter the Registry Key Name that you would like to add to /

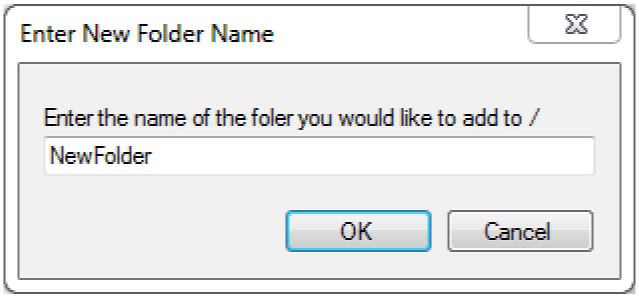
Edit Registry Key - edits the currently selected Registry key.


Edit Registry Key

Enter the value for /$BootTime

Remove Registry Key - removes the current selected Registry Key. (Will not prompt confirmation, careful to not accidently remove Registry Keys.)

Add Registry Folder - adds a Registry Folder, that creates a directory to hold new Registry Keys.


Enter New Folder Name

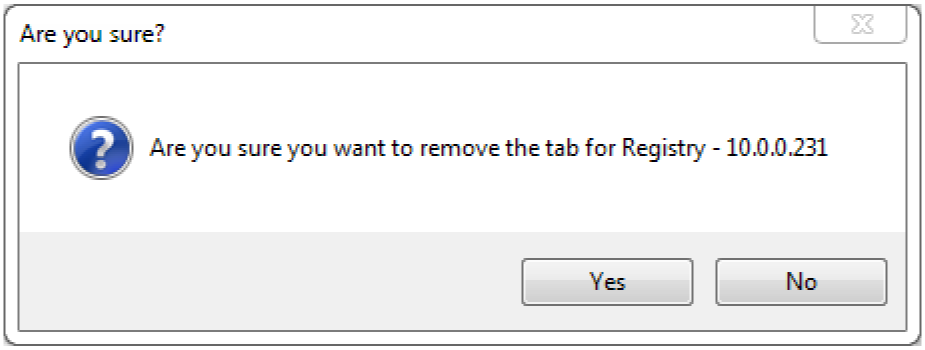
Enter the name of the foler you would like to add to /

NewFolder

Remove Registry Folder - removes the currently selected Registry Directory, removing all keys inside it.

Refresh Folder - refreshes the currently selected folder, or folder of the key currently selected.

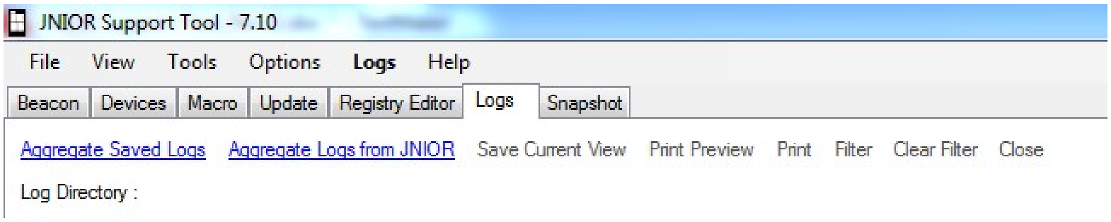
To remove a JNIOR's registry from the support tool, while clicking on the selected JNIOR tab, clicking remove JNIOR will prompt if the JNIOR should be removed.


Are you sure?

Are you sure you want to remove the tab for Registry - 10.0.0.231

7 Logs Tab

The JNIOR Support Tool provides an easy way for the user to retrieve, aggregate, view, filter, print and save the logs created on the JNIOR. The user can utilize various commands available via the dashboard area of the Logs Tab. The dashboard is shown below:

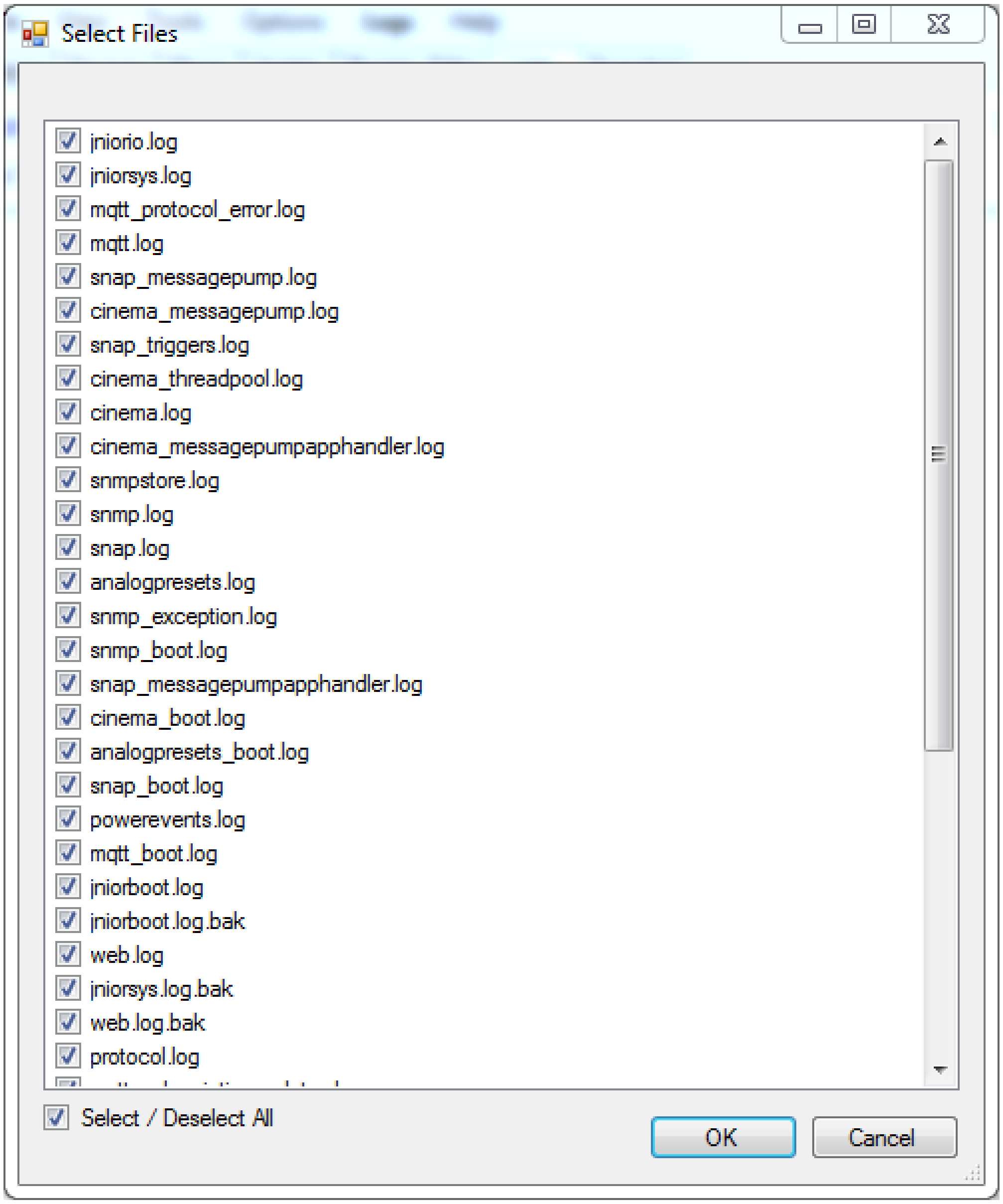

JNIOR Support Tool - 7.10
File
View
Tools
Options
Logs
Help
Beacon
Devices
Macro
Update
Registry Editor
Logs
Snapshot
Aggregate Saved Logs
Aggregate Logs from JNIOR
Save Current View
Print Preview
Print
Filter
Clear Filter
Close
Log Directory :

Dashboard Commands

The dashboard commands available are as follows:

Aggregate Logs from JNIOR – this command will transfer the logs from any JNIOR back to the PC and aggregate all the various log files into one integrated file with each log entry in chronological order for use with the Support Tool. The source of the log message, the time stamp and message will be displayed.

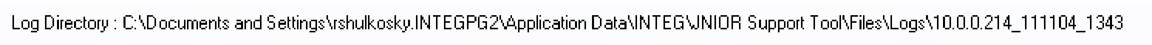
A pop-up box will be displayed for selecting the JNIOR IP address (if available via Beacon) via the pull down or for manually entering the JNIOR IP address. After 10 – 15 seconds, a second pop-up box will be displayed listing the logs available on the remote JNIOR and allow the user to select which logs they want transferred back to the PC.



☑ jniorio.log
☑ jniorsys.log
☑ mqtt_protocol_error.log
☑ mqtt.log
☑ snap_messagepump.log
☑ cinema_messagepump.log
☑ snap_triggers.log
☑ cinema_threadpool.log
☑ cinema.log
☑ cinema_messagepumpapphandler.log
☑ snmpstore.log
☑ snmp.log
☑ snap.log
☑ analogpresets.log
☑ snmp_exception.log
☑ snmp_boot.log
☑ snap_messagepumpapphandler.log
☑ cinema_boot.log
☑ analogpresets_boot.log
☑ snap_boot.log
☑ powerevents.log
☑ mqtt_boot.log
☑ jniorboot.log
☑ jniorboot.log.bak
☑ web.log
☑ jniorsys.log.bak
☑ web.log.bak
☑ protocol.log

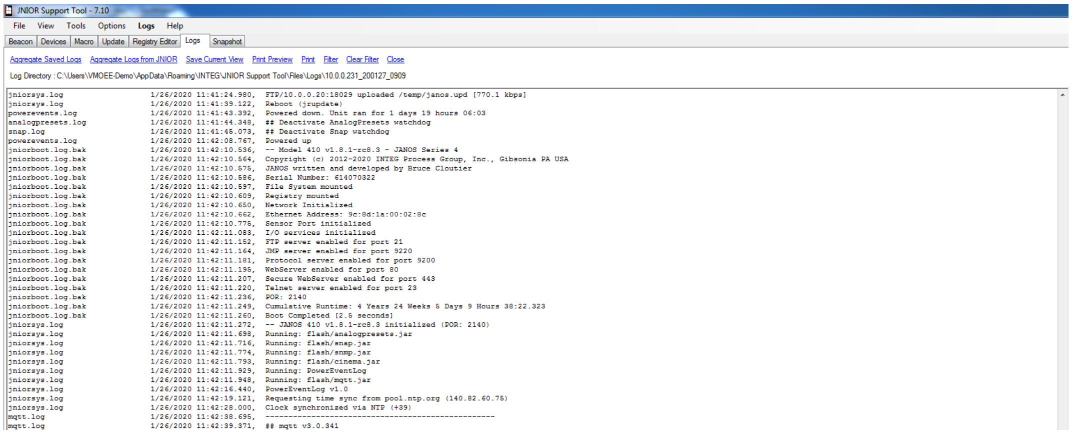
☑ Select / Deselect All

When the logs are transferred back to the PC, they will be stored in a folder with a name that is made up of the JNIOR's IP address and the date. If the user accesses the logs again on the same date, the time will be added to the folder name. The path will be displayed in the dashboard area below the commands. In the example below, the JNIOR had an IP address of 10.0.0.214 and the files were retrieved on 2011, November 04, at 13:43.



Log Directory : C:\Documents and Settings\rshulkosky.INTEGPG2\Application Data\INTEG\JNIOR Support Tool\Files\Logs\10.0.0.214_111104_1343

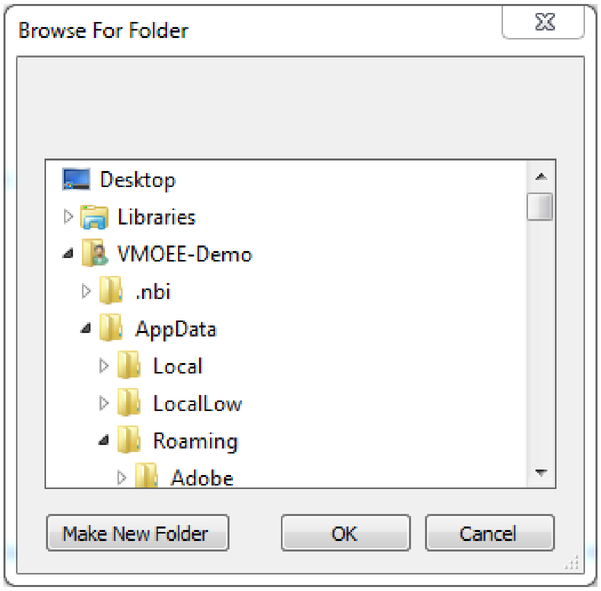
The aggregated logs will then be displayed in the Support Tool as shown below.



Log Directory : C:\Users\VMOEE-Demo\AppData\Roaming\INTEG\JNIOR Support Tool\Files\Logs\10.0.0.231_200127_0909

```
jniorsys.log             1/26/2020 11:41:24.980,  FTP/10.0.0.20:18029 uploaded /temp/janos.upd [770.1 kbps]
jniorsys.log             1/26/2020 11:41:39.122,  Reboot (jrupdate)
powerevents.log          1/26/2020 11:41:43.392,  Powered down. Unit ran for 1 days 19 hours 06:03
analogpresets.log        1/26/2020 11:41:44.348,  ## Deactivate AnalogPresets watchdog
snap.log                 1/26/2020 11:41:45.073,  ## Deactivate Snap watchdog
powerevents.log          1/26/2020 11:42:08.767,  Powered up
jniorboot.log.bak        1/26/2020 11:42:10.536,  -- Model 410 v1.8.1-rc8.3 - JANOS Series 4
jniorboot.log.bak        1/26/2020 11:42:10.564,  Copyright (c) 2012-2020 INTEG Process Group, Inc., Gibsonia PA USA
jniorboot.log.bak        1/26/2020 11:42:10.575,  JANOS written and developed by Bruce Cloutier
jniorboot.log.bak        1/26/2020 11:42:10.586,  Serial Number: 614070322
jniorboot.log.bak        1/26/2020 11:42:10.597,  File System mounted
jniorboot.log.bak        1/26/2020 11:42:10.609,  Registry mounted
jniorboot.log.bak        1/26/2020 11:42:10.650,  Network Initialized
jniorboot.log.bak        1/26/2020 11:42:10.662,  Ethernet Address: 9c:8d:1a:00:02:8c
jniorboot.log.bak        1/26/2020 11:42:10.775,  Sensor Port initialized
jniorboot.log.bak        1/26/2020 11:42:11.083,  I/O services initialized
jniorboot.log.bak        1/26/2020 11:42:11.152,  FTP server enabled for port 21
jniorboot.log.bak        1/26/2020 11:42:11.164,  JMP server enabled for port 9220
jniorboot.log.bak        1/26/2020 11:42:11.181,  Protocol server enabled for port 9200
jniorboot.log.bak        1/26/2020 11:42:11.195,  WebServer enabled for port 80
jniorboot.log.bak        1/26/2020 11:42:11.207,  Secure WebServer enabled for port 443
jniorboot.log.bak        1/26/2020 11:42:11.220,  Telnet server enabled for port 23
jniorboot.log.bak        1/26/2020 11:42:11.236,  POR: 2140
jniorboot.log.bak        1/26/2020 11:42:11.249,  Cumulative Runtime: 4 Years 24 Weeks 5 Days 9 Hours 38:22.323
jniorboot.log.bak        1/26/2020 11:42:11.260,  Boot Completed [2.5 seconds]
jniorsys.log             1/26/2020 11:42:11.272,  -- JANOS 410 v1.8.1-rc8.3 initialized (POR: 2140)
jniorsys.log             1/26/2020 11:42:11.698,  Running: flash/analogpresets.jar
jniorsys.log             1/26/2020 11:42:11.716,  Running: flash/snap.jar
jniorsys.log             1/26/2020 11:42:11.774,  Running: flash/snmp.jar
jniorsys.log             1/26/2020 11:42:11.793,  Running: flash/cinema.jar
jniorsys.log             1/26/2020 11:42:11.929,  Running: PowerEventLog
jniorsys.log             1/26/2020 11:42:11.948,  Running: flash/mqtt.jar
jniorsys.log             1/26/2020 11:42:16.440,  PowerEventLog v1.0
jniorsys.log             1/26/2020 11:42:19.121,  Requesting time sync from pool.ntp.org (140.82.60.75)
jniorsys.log             1/26/2020 11:42:28.000,  Clock synchronized via NTP (+39)
mqtt.log                 1/26/2020 11:42:38.695,  --------------------------------------------------
mqtt.log                 1/26/2020 11:42:39.371,  ## mqtt v3.0.341
```

Aggregate Saved Logs – the user can open logs that were previously transferred from a JNIOR. The log files will be stored in a folder using the pattern described above. When the user clicks on this command, a Browse for Folder window will be shown so the user can select the proper folder holding the logs to be aggregated.

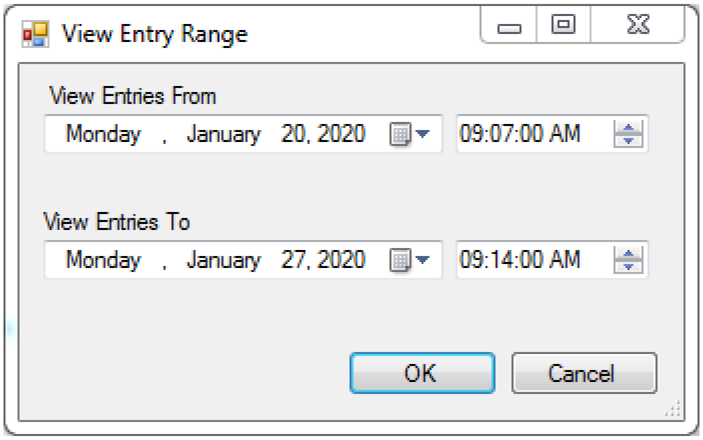


Save Current View – allows the user to save the current view whether it is the complete log aggregation or a ‘filtered’ view. A pop-up window will be displayed asking the user where they want to store the file and the file name. The user should use a .txt file name extension so the file can be opened with a program such as Notepad or WordPad.

Print Preview – allows the user to see a print preview of the data being displayed

Print – prints the aggregated logs, either the complete set or the filtered set

Filter – allows the user to filter the data based on a date and time range. A pop-up box is provided for entering the date and time range.



View Entries From
Monday , January 20, 2020 09:07:00 AM

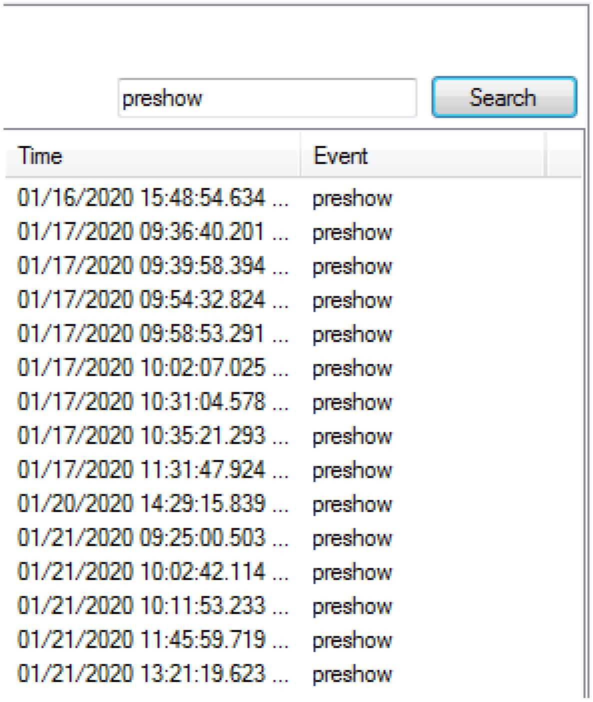
View Entries To
Monday , January 27, 2020 09:14:00 AM

Clear Filter – clears the filtered range and displays the complete data set again.

Close – closes the log aggregation.

Search Aggregated Logs

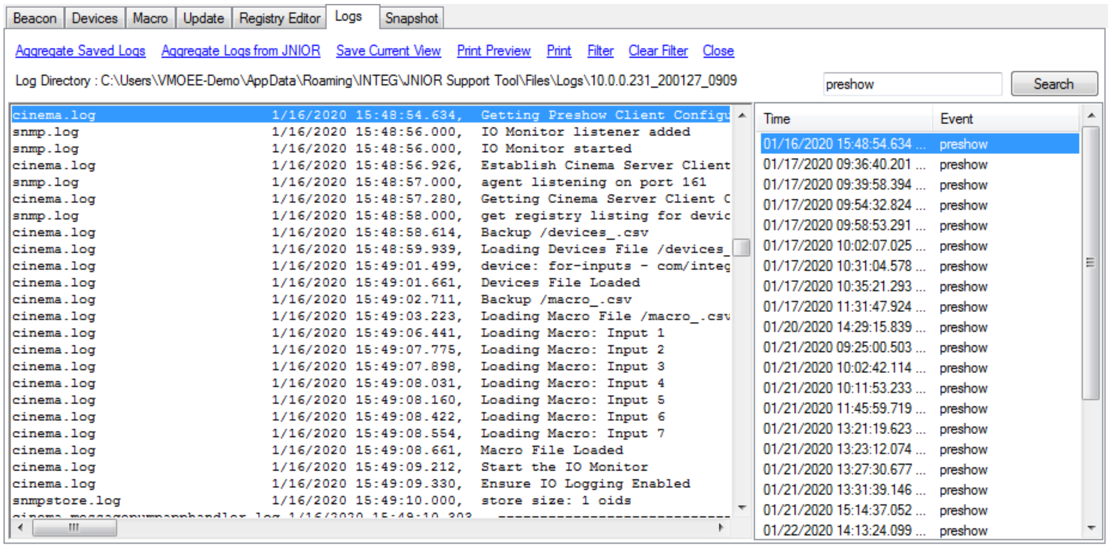
On the right side of the Logs Tab, the user can enter text and the Support Tool will search for every instance of this text. The user can then click on any line in the right window area and the source line will be highlighted in the left window.



preshow

Time	Event
01/16/2020 15:48:54.634 ...	preshow
01/17/2020 09:36:40.201 ...	preshow
01/17/2020 09:39:58.394 ...	preshow
01/17/2020 09:54:32.824 ...	preshow
01/17/2020 09:58:53.291 ...	preshow
01/17/2020 10:02:07.025 ...	preshow
01/17/2020 10:31:04.578 ...	preshow
01/17/2020 10:35:21.293 ...	preshow
01/17/2020 11:31:47.924 ...	preshow
01/20/2020 14:29:15.839 ...	preshow
01/21/2020 09:25:00.503 ...	preshow
01/21/2020 10:02:42.114 ...	preshow
01/21/2020 10:11:53.233 ...	preshow
01/21/2020 11:45:59.719 ...	preshow
01/21/2020 13:21:19.623 ...	preshow

The screen shot below demonstrates how the source line be highlighted when clicking on one of the search results in the right window.



Log Directory : C:\Users\VMOEE-Demo\AppData\Roaming\INTEG\JNIOR Support Tool\Files\Logs\10.0.0.231_200127_0909

preshow

```
cinema.log                      1/16/2020 15:48:54.634,  Getting Preshow Client Configu
snmp.log                        1/16/2020 15:48:56.000,  IO Monitor listener added
snmp.log                        1/16/2020 15:48:56.000,  IO Monitor started
cinema.log                      1/16/2020 15:48:56.926,  Establish Cinema Server Client
snmp.log                        1/16/2020 15:48:57.000,  agent listening on port 161
cinema.log                      1/16/2020 15:48:57.280,  Getting Cinema Server Client C
snmp.log                        1/16/2020 15:48:58.000,  get registry listing for devic
cinema.log                      1/16/2020 15:48:58.614,  Backup /devices_.csv
cinema.log                      1/16/2020 15:48:59.939,  Loading Devices File /devices_
cinema.log                      1/16/2020 15:49:01.499,  device: for-inputs - com/integ
cinema.log                      1/16/2020 15:49:01.661,  Devices File Loaded
cinema.log                      1/16/2020 15:49:02.711,  Backup /macro_.csv
cinema.log                      1/16/2020 15:49:03.223,  Loading Macro File /macro_.csv
cinema.log                      1/16/2020 15:49:06.441,  Loading Macro: Input 1
cinema.log                      1/16/2020 15:49:07.775,  Loading Macro: Input 2
cinema.log                      1/16/2020 15:49:07.898,  Loading Macro: Input 3
cinema.log                      1/16/2020 15:49:08.031,  Loading Macro: Input 4
cinema.log                      1/16/2020 15:49:08.160,  Loading Macro: Input 5
cinema.log                      1/16/2020 15:49:08.422,  Loading Macro: Input 6
cinema.log                      1/16/2020 15:49:08.554,  Loading Macro: Input 7
cinema.log                      1/16/2020 15:49:08.661,  Macro File Loaded
cinema.log                      1/16/2020 15:49:09.212,  Start the IO Monitor
cinema.log                      1/16/2020 15:49:09.330,  Ensure IO Logging Enabled
snmpstore.log                   1/16/2020 15:49:10.000,  store size: 1 oids
```

Time	Event
01/16/2020 15:48:54.634 ...	preshow
01/17/2020 09:36:40.201 ...	preshow
01/17/2020 09:39:58.394 ...	preshow
01/17/2020 09:54:32.824 ...	preshow
01/17/2020 09:58:53.291 ...	preshow
01/17/2020 10:02:07.025 ...	preshow
01/17/2020 10:31:04.578 ...	preshow
01/17/2020 10:35:21.293 ...	preshow
01/17/2020 11:31:47.924 ...	preshow
01/20/2020 14:29:15.839 ...	preshow
01/21/2020 09:25:00.503 ...	preshow
01/21/2020 10:02:42.114 ...	preshow
01/21/2020 10:11:53.233 ...	preshow
01/21/2020 11:45:59.719 ...	preshow
01/21/2020 13:21:19.623 ...	preshow
01/21/2020 13:23:12.074 ...	preshow
01/21/2020 13:27:30.677 ...	preshow
01/21/2020 13:31:39.146 ...	preshow
01/21/2020 15:14:37.052 ...	preshow
01/22/2020 14:13:24.099 ...	preshow

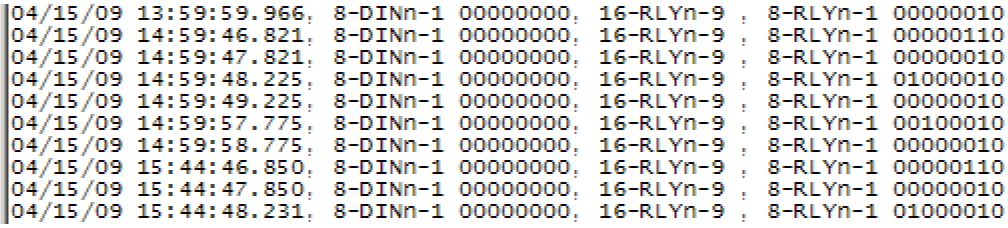
LOGS

The following logs are available with the JNIOR and/or the Cinema.JNIOR Application. All or several of these logs can be aggregated with the JNIOR Support Tool. A sample of each is provided.

Cinema Log (cinema.log) – records general activities about the cinema application including events surrounding the initial program loading, specific connections, exceptions, etc.

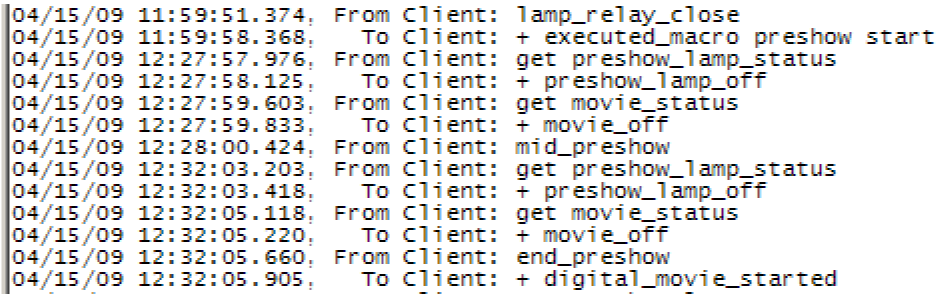
```
06/16/2009 00:51:43.796,  [               Get Configuration                ]
06/16/2009 00:52:20.714,  [           Initialize the IO Monitor            ]
06/16/2009 00:52:21.930,  [             Establish Client Comm              ]
06/16/2009 00:52:29.204,  [       Monitor Start Push Button - INPUT 7      ]
06/16/2009 00:52:29.498,  [         Monitor Pre-show Lock - OUTPUT 5       ]
06/16/2009 00:52:31.087,  [         Loading IP Profile ipprofile.csv       ]
06/16/2009 00:52:31.491,  [ Devices File not found                         ]
06/16/2009 00:52:35.044,  [           Loading Macro File macro.csv         ]
06/16/2009 00:52:35.440,  [ Macro File not found                           ]
06/16/2009 00:52:35.787,  [           Monitor Fire Alarm - INPUT 1         ]
06/16/2009 00:52:36.104,  [       Monitor Fire Alarm Release - INPUT 2     ]
06/16/2009 00:52:36.614,  [              Start the IO Monitor              ]
06/16/2009 00:52:37.178,  [           Ensure IO Logging Enabled            ]
06/16/2009 00:52:41.776,  [       Register InterProcess Macro Command      ]
06/16/2009 00:52:42.827,  [ Press 'q' to exit.                             ]
```

I/O Log (jniorio.log) – records the change in state of the internal and external I/O. Each status change contains a time stamp (date and time).



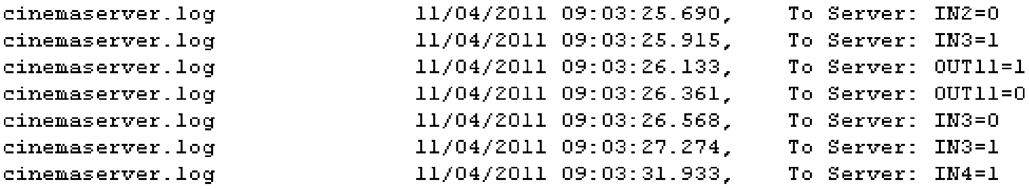
```
04/15/09 13:59:59.966, 8-DINn-1 00000000, 16-RLYn-9 , 8-RLYn-1 00000010
04/15/09 14:59:46.821, 8-DINn-1 00000000, 16-RLYn-9 , 8-RLYn-1 00000110
04/15/09 14:59:47.821, 8-DINn-1 00000000, 16-RLYn-9 , 8-RLYn-1 00000010
04/15/09 14:59:48.225, 8-DINn-1 00000000, 16-RLYn-9 , 8-RLYn-1 01000010
04/15/09 14:59:49.225, 8-DINn-1 00000000, 16-RLYn-9 , 8-RLYn-1 00000010
04/15/09 14:59:57.775, 8-DINn-1 00000000, 16-RLYn-9 , 8-RLYn-1 00100010
04/15/09 14:59:58.775, 8-DINn-1 00000000, 16-RLYn-9 , 8-RLYn-1 00000010
04/15/09 15:44:46.850, 8-DINn-1 00000000, 16-RLYn-9 , 8-RLYn-1 00000110
04/15/09 15:44:47.850, 8-DINn-1 00000000, 16-RLYn-9 , 8-RLYn-1 00000010
04/15/09 15:44:48.231, 8-DINn-1 00000000, 16-RLYn-9 , 8-RLYn-1 01000010
```

Client Log (client.log) – records the messages going between the Client and JNIOR. Each message includes a time stamp (date and time).



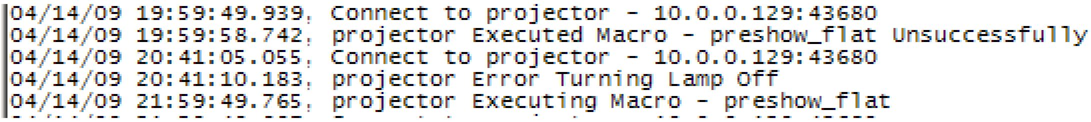
```
04/15/09 11:59:51.374, From Client: lamp_relay_close
04/15/09 11:59:58.368,   To Client: + executed_macro preshow start
04/15/09 12:27:57.976, From Client: get preshow_lamp_status
04/15/09 12:27:58.125,   To Client: + preshow_lamp_off
04/15/09 12:27:59.603, From Client: get movie_status
04/15/09 12:27:59.833,   To Client: + movie_off
04/15/09 12:28:00.424, From Client: mid_preshow
04/15/09 12:32:03.203, From Client: get preshow_lamp_status
04/15/09 12:32:03.418,   To Client: + preshow_lamp_off
04/15/09 12:32:05.118, From Client: get movie_status
04/15/09 12:32:05.220,   To Client: + movie_off
04/15/09 12:32:05.660, From Client: end_preshow
04/15/09 12:32:05.905,   To Client: + digital_movie_started
```

Cinema Server Log (cinemaserver.log) – records the messages going between the Cinema Server Client and JNIOR. Each message includes a time stamp (date and time).



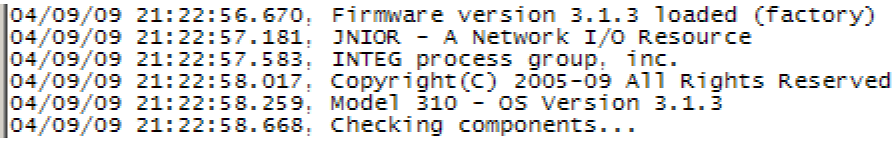
```
cinemaserver.log          11/04/2011 09:03:25.690,    To Server: IN2=0
cinemaserver.log          11/04/2011 09:03:25.915,    To Server: IN3=1
cinemaserver.log          11/04/2011 09:03:26.133,    To Server: OUT11=1
cinemaserver.log          11/04/2011 09:03:26.361,    To Server: OUT11=0
cinemaserver.log          11/04/2011 09:03:26.568,    To Server: IN3=0
cinemaserver.log          11/04/2011 09:03:27.274,    To Server: IN3=1
cinemaserver.log          11/04/2011 09:03:31.933,    To Server: IN4=1
```

Devices Log (devices.log) – records the messages being sent by the JNIOR to the projectors and serial devices. Each message includes a time stamp (date and time).



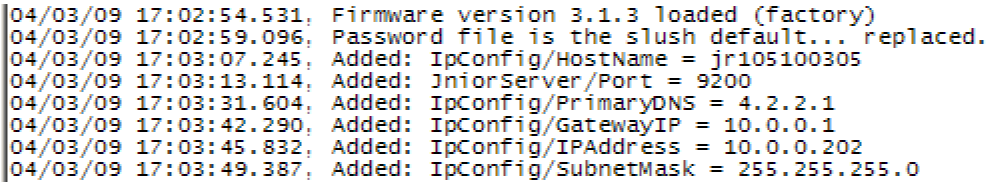
```
04/14/09 19:59:49.939, Connect to projector - 10.0.0.129:43680
04/14/09 19:59:58.742, projector Executed Macro - preshow_flat Unsuccessfully
04/14/09 20:41:05.055, Connect to projector - 10.0.0.129:43680
04/14/09 20:41:10.183, projector Error Turning Lamp Off
04/14/09 21:59:49.765, projector Executing Macro - preshow_flat
```

JNIOR Boot Log (jniorboot.log) – records the status of the last JNIOR reboot



```
04/09/09 21:22:56.670, Firmware version 3.1.3 loaded (factory)
04/09/09 21:22:57.181, JNIOR - A Network I/O Resource
04/09/09 21:22:57.583, INTEG process group, inc.
04/09/09 21:22:58.017, Copyright(C) 2005-09 All Rights Reserved
04/09/09 21:22:58.259, Model 310 - OS Version 3.1.3
04/09/09 21:22:58.668, Checking components...
```

JNIOR System Log (jniorsys.log) – records the general activities occurring on the JNIOR, including Registry key changes, logins, etc.

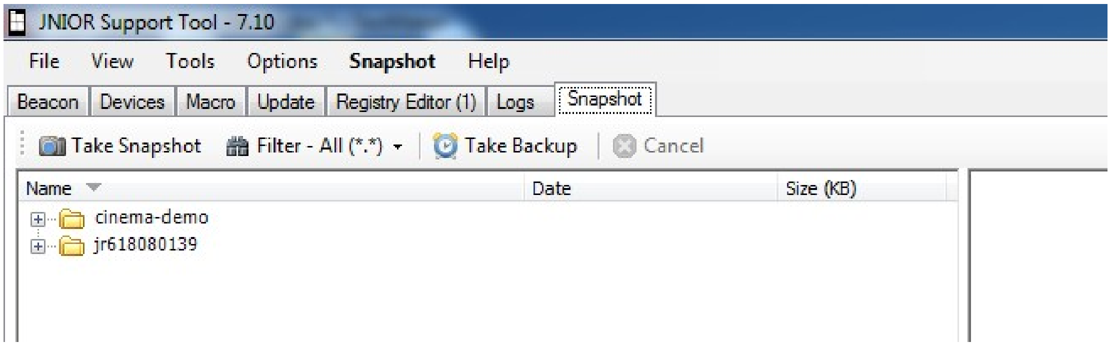


```
04/03/09 17:02:54.531, Firmware version 3.1.3 loaded (factory)
04/03/09 17:02:59.096, Password file is the slush default... replaced.
04/03/09 17:03:07.245, Added: IpConfig/HostName = jr105100305
04/03/09 17:03:13.114, Added: JniorServer/Port = 9200
04/03/09 17:03:31.604, Added: IpConfig/PrimaryDNS = 4.2.2.1
04/03/09 17:03:42.290, Added: IpConfig/GatewayIP = 10.0.0.1
04/03/09 17:03:45.832, Added: IpConfig/IPAddress = 10.0.0.202
04/03/09 17:03:49.387, Added: IpConfig/SubnetMask = 255.255.255.0
```

8 Snapshot Tab

The Snapshot Tab allows the user to download one or more files from the JNIOR. The user can take a 'snapshot' of the current JNIOR files.

The user can utilize various commands available via the dashboard area of the Snapshot Tab. The dashboard is shown below:


JNIOR Support Tool - 7.10
File
View
Tools
Options
Snapshot
Help
Beacon
Devices
Macro
Update
Registry Editor (1)
Logs
Snapshot
Take Snapshot
Filter - All (*.*)
Take Backup
Cancel
Name
Date
Size (KB)
cinema-demo
jr618080139

<u>Dashboard Commands</u>

The dashboard commands available are as follows:

Take Snapshot – allows the user to select <u>one or more</u> JNIORs for the download. When the user clicks on this command, a pop-up window will be displayed listing all the JNIORs found by Beacon, including those entered in the Manage IP List. **If your JNIOR is not listed, you can manually type in the IP address of your JNIOR in the Enter New IP Address box.**

Cancel – cancels the snapshot in progress.

Take Backup - creates an update project from the selected JNIOR that when used can restore any JNIOR to this ones states.

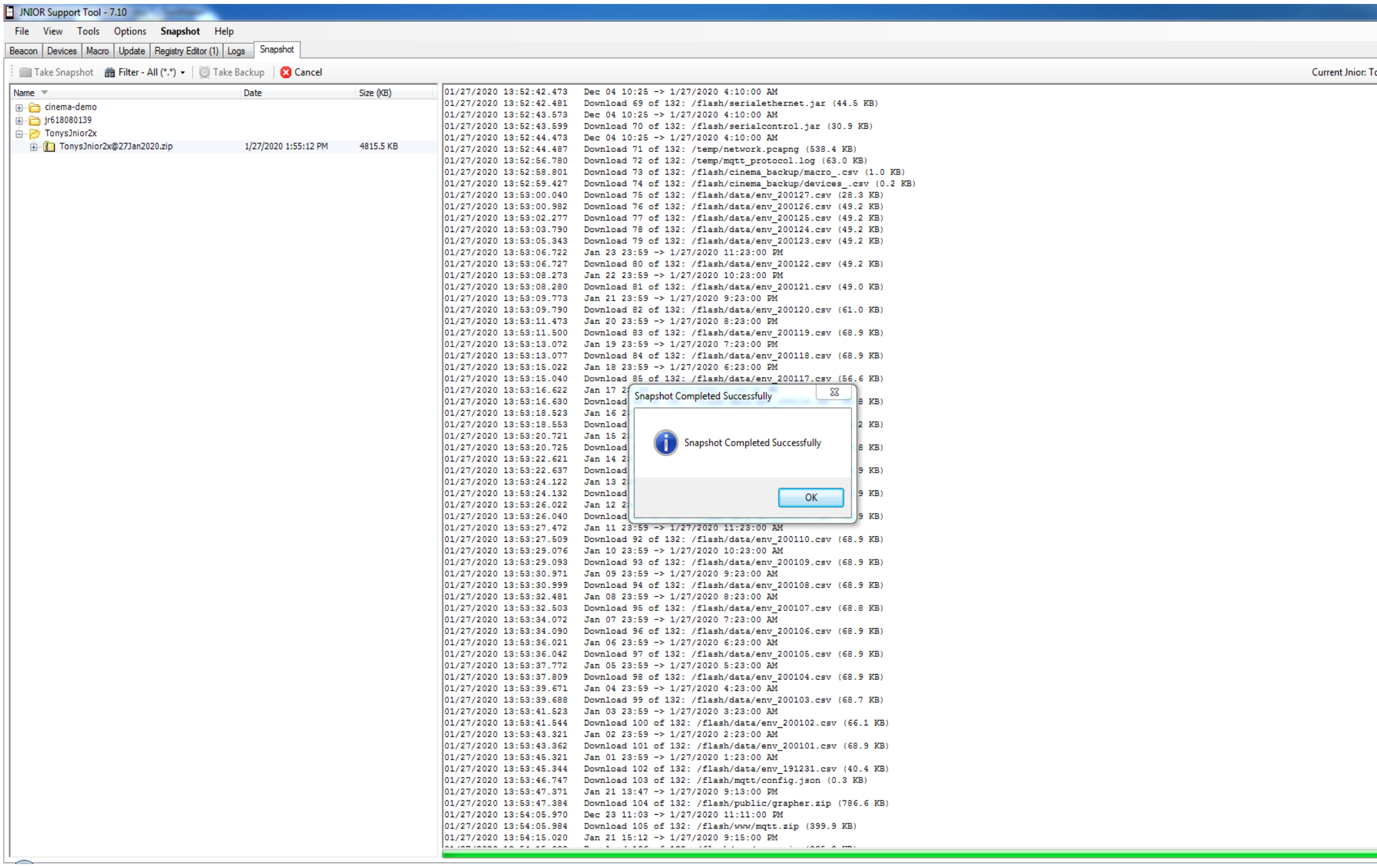
Filter – the user can enter a filter string to have only certain files downloaded from the JNIOR. The user can use the * wildcard.

If you want to use a filter, you must enter it <u>before</u> you click on Take Snapshot. Some examples on how to use a filter:

- Leaving the filter blank will download from the JNIOR every folder and file on the JNIOR.
- Entering a specific filename, like jnior.ini, will cause Snapshot to go through every folder on the JNIOR to find the file called jnior.ini. If there is more than one copy, it will download them all.
- Entering the filter flash/jnior.ini will cause Snapshot to go to a specific folder, the flash folder, to find the file called jnior.ini
- Entering *.csv will download every file with the extension csv

Below is an example of a Snapshot download from one JNIOR with an IP address of 10.0.0.117 using the filter *.csv. Snapshot will go through every folder and download every file with the csv extension. The FTP progress will display the current status and the dialog box at the bottom of the Snapshot tab will provide specific details.

Snapshot creates a folder for each IP address and then under this folder, it creates a folder with the date and time for the current snapshot. A tilde (~) will be placed at the beginning of the date/time folder indicating that the snapshot is in progress. If the tilde remains after the snapshot has completed, then an error occurred during the download. The word ‘filtered’ will be added after each snapshot that was done using a filter.

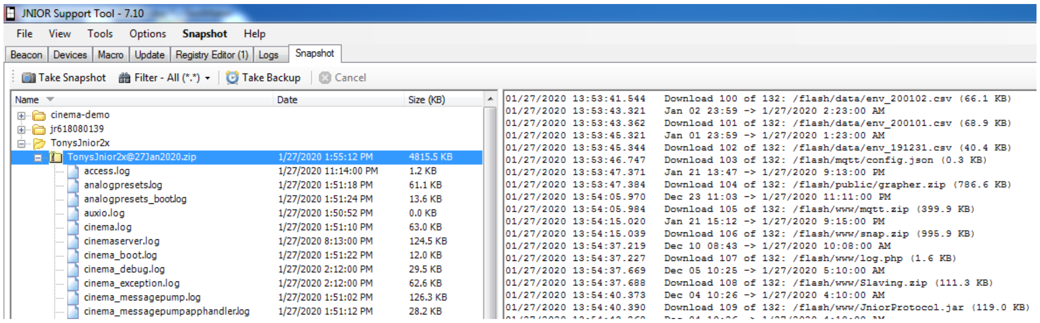


Name	Date	Size (KB)
cinema-demo		
jr618080139		
TonysJnior2x		
TonysJnior2x@27Jan2020.zip	1/27/2020 1:55:12 PM	4815.5 KB

```
01/27/2020 13:52:42.473   Dec 04 10:25 -> 1/27/2020 4:10:00 AM
01/27/2020 13:52:42.481   Download 69 of 132: /flash/serialethernet.jar (44.5 KB)
01/27/2020 13:52:43.573   Dec 04 10:25 -> 1/27/2020 4:10:00 AM
01/27/2020 13:52:43.599   Download 70 of 132: /flash/serialcontrol.jar (30.9 KB)
01/27/2020 13:52:44.473   Dec 04 10:25 -> 1/27/2020 4:10:00 AM
01/27/2020 13:52:44.487   Download 71 of 132: /temp/network.pcapng (538.4 KB)
01/27/2020 13:52:56.780   Download 72 of 132: /temp/mqtt_protocol.log (63.0 KB)
01/27/2020 13:52:58.801   Download 73 of 132: /flash/cinema_backup/macro_.csv (1.0 KB)
01/27/2020 13:52:59.427   Download 74 of 132: /flash/cinema_backup/devices_.csv (0.2 KB)
01/27/2020 13:53:00.040   Download 75 of 132: /flash/data/env_200127.csv (28.3 KB)
01/27/2020 13:53:00.982   Download 76 of 132: /flash/data/env_200126.csv (49.2 KB)
01/27/2020 13:53:02.277   Download 77 of 132: /flash/data/env_200125.csv (49.2 KB)
01/27/2020 13:53:03.790   Download 78 of 132: /flash/data/env_200124.csv (49.2 KB)
01/27/2020 13:53:05.343   Download 79 of 132: /flash/data/env_200123.csv (49.2 KB)
01/27/2020 13:53:06.722   Jan 23 23:59 -> 1/27/2020 11:23:00 PM
01/27/2020 13:53:06.727   Download 80 of 132: /flash/data/env_200122.csv (49.2 KB)
01/27/2020 13:53:08.273   Jan 22 23:59 -> 1/27/2020 10:23:00 PM
01/27/2020 13:53:08.280   Download 81 of 132: /flash/data/env_200121.csv (49.0 KB)
01/27/2020 13:53:09.773   Jan 21 23:59 -> 1/27/2020 9:23:00 PM
01/27/2020 13:53:09.790   Download 82 of 132: /flash/data/env_200120.csv (61.0 KB)
01/27/2020 13:53:11.473   Jan 20 23:59 -> 1/27/2020 8:23:00 PM
01/27/2020 13:53:11.500   Download 83 of 132: /flash/data/env_200119.csv (68.9 KB)
01/27/2020 13:53:13.072   Jan 19 23:59 -> 1/27/2020 7:23:00 PM
01/27/2020 13:53:13.077   Download 84 of 132: /flash/data/env_200118.csv (68.9 KB)
01/27/2020 13:53:15.022   Jan 18 23:59 -> 1/27/2020 6:23:00 PM
01/27/2020 13:53:15.040   Download 85 of 132: /flash/data/env_200117.csv (56.6 KB)
01/27/2020 13:53:16.622   Jan 17 2
01/27/2020 13:53:16.630   Download                                      8 KB)
01/27/2020 13:53:18.523   Jan 16 2
01/27/2020 13:53:18.553   Download                                      2 KB)
01/27/2020 13:53:20.721   Jan 15 2
01/27/2020 13:53:20.725   Download                                      8 KB)
01/27/2020 13:53:22.621   Jan 14 2
01/27/2020 13:53:22.637   Download                                      9 KB)
01/27/2020 13:53:24.122   Jan 13 2
01/27/2020 13:53:24.132   Download                                      9 KB)
01/27/2020 13:53:26.022   Jan 12 2
01/27/2020 13:53:26.040   Download                                      9 KB)
01/27/2020 13:53:27.472   Jan 11 23:59 -> 1/27/2020 11:23:00 AM
01/27/2020 13:53:27.509   Download 92 of 132: /flash/data/env_200110.csv (68.9 KB)
01/27/2020 13:53:29.076   Jan 10 23:59 -> 1/27/2020 10:23:00 AM
01/27/2020 13:53:29.093   Download 93 of 132: /flash/data/env_200109.csv (68.9 KB)
01/27/2020 13:53:30.971   Jan 09 23:59 -> 1/27/2020 9:23:00 AM
01/27/2020 13:53:30.999   Download 94 of 132: /flash/data/env_200108.csv (68.9 KB)
01/27/2020 13:53:32.481   Jan 08 23:59 -> 1/27/2020 8:23:00 AM
01/27/2020 13:53:32.503   Download 95 of 132: /flash/data/env_200107.csv (68.8 KB)
01/27/2020 13:53:34.072   Jan 07 23:59 -> 1/27/2020 7:23:00 AM
01/27/2020 13:53:34.090   Download 96 of 132: /flash/data/env_200106.csv (68.9 KB)
01/27/2020 13:53:36.021   Jan 06 23:59 -> 1/27/2020 6:23:00 AM
01/27/2020 13:53:36.042   Download 97 of 132: /flash/data/env_200105.csv (68.9 KB)
01/27/2020 13:53:37.772   Jan 05 23:59 -> 1/27/2020 5:23:00 AM
01/27/2020 13:53:37.809   Download 98 of 132: /flash/data/env_200104.csv (68.9 KB)
01/27/2020 13:53:39.671   Jan 04 23:59 -> 1/27/2020 4:23:00 AM
01/27/2020 13:53:39.688   Download 99 of 132: /flash/data/env_200103.csv (68.7 KB)
01/27/2020 13:53:41.523   Jan 03 23:59 -> 1/27/2020 3:23:00 AM
01/27/2020 13:53:41.544   Download 100 of 132: /flash/data/env_200102.csv (66.1 KB)
01/27/2020 13:53:43.321   Jan 02 23:59 -> 1/27/2020 2:23:00 AM
01/27/2020 13:53:43.362   Download 101 of 132: /flash/data/env_200101.csv (68.9 KB)
01/27/2020 13:53:45.321   Jan 01 23:59 -> 1/27/2020 1:23:00 AM
01/27/2020 13:53:45.344   Download 102 of 132: /flash/data/env_191231.csv (40.4 KB)
01/27/2020 13:53:46.747   Download 103 of 132: /flash/mqtt/config.json (0.3 KB)
01/27/2020 13:53:47.371   Jan 21 13:47 -> 1/27/2020 9:13:00 PM
01/27/2020 13:53:47.384   Download 104 of 132: /flash/public/grapher.zip (786.6 KB)
01/27/2020 13:54:05.970   Dec 23 11:03 -> 1/27/2020 11:11:00 PM
01/27/2020 13:54:05.984   Download 105 of 132: /flash/www/mqtt.zip (399.9 KB)
01/27/2020 13:54:15.020   Jan 21 15:12 -> 1/27/2020 9:15:00 PM
```

Snapshot Completed Successfully

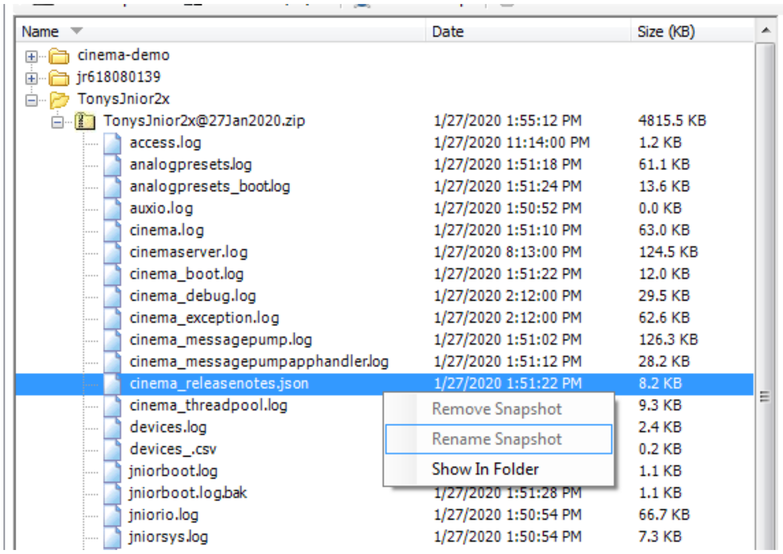
A SNAPSHOT.log file is created with a log of the download session and can also be used to determine if or why a snapshot did not complete.


JNIOR Support Tool - 7.10
File
View
Tools
Options
Snapshot
Help
Beacon
Devices
Macro
Update
Registry Editor (1)
Logs
Snapshot
Take Snapshot
Filter - All (*.*)
Take Backup
Cancel

Name	Date	Size (KB)
cinema-demo		
jr618080139		
TonysJnior2x		
TonysJnior2x@27Jan2020.zip	1/27/2020 1:55:12 PM	4815.5 KB
access.log	1/27/2020 11:14:00 PM	1.2 KB
analogpresets.log	1/27/2020 1:51:18 PM	61.1 KB
analogpresets_boot.log	1/27/2020 1:51:24 PM	13.6 KB
auxio.log	1/27/2020 1:50:52 PM	0.0 KB
cinema.log	1/27/2020 1:51:10 PM	63.0 KB
cinemaserver.log	1/27/2020 8:13:00 PM	124.5 KB
cinema_boot.log	1/27/2020 1:51:22 PM	12.0 KB
cinema_debug.log	1/27/2020 2:12:00 PM	29.5 KB
cinema_exception.log	1/27/2020 2:12:00 PM	62.6 KB
cinema_messagepump.log	1/27/2020 1:51:02 PM	126.3 KB
cinema_messagepumpapphandler.log	1/27/2020 1:51:12 PM	28.2 KB

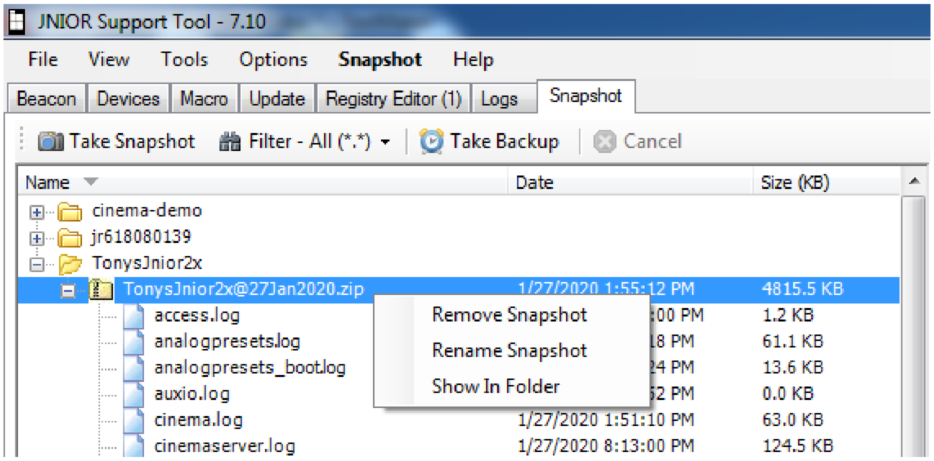
```
01/27/2020 13:53:41.544   Download 100 of 132: /flash/data/env_200102.csv (66.1 KB)
01/27/2020 13:53:43.321   Jan 02 23:59 -> 1/27/2020 2:23:00 AM
01/27/2020 13:53:43.362   Download 101 of 132: /flash/data/env_200101.csv (68.9 KB)
01/27/2020 13:53:45.321   Jan 01 23:59 -> 1/27/2020 1:23:00 AM
01/27/2020 13:53:45.344   Download 102 of 132: /flash/data/env_191231.csv (40.4 KB)
01/27/2020 13:53:46.747   Download 103 of 132: /flash/mqtt/config.json (0.3 KB)
01/27/2020 13:53:47.371   Jan 21 13:47 -> 1/27/2020 9:13:00 PM
01/27/2020 13:53:47.384   Download 104 of 132: /flash/public/grapher.zip (786.6 KB)
01/27/2020 13:54:05.970   Dec 23 11:03 -> 1/27/2020 11:11:00 PM
01/27/2020 13:54:05.984   Download 105 of 132: /flash/www/mqtt.zip (399.9 KB)
01/27/2020 13:54:15.020   Jan 21 15:12 -> 1/27/2020 9:15:00 PM
01/27/2020 13:54:15.039   Download 106 of 132: /flash/www/snap.zip (995.9 KB)
01/27/2020 13:54:37.219   Dec 10 08:43 -> 1/27/2020 10:08:00 AM
01/27/2020 13:54:37.227   Download 107 of 132: /flash/www/log.php (1.6 KB)
01/27/2020 13:54:37.669   Dec 05 10:25 -> 1/27/2020 5:10:00 AM
01/27/2020 13:54:37.688   Download 108 of 132: /flash/www/Slaving.zip (111.3 KB)
01/27/2020 13:54:40.373   Dec 04 10:26 -> 1/27/2020 4:10:00 AM
01/27/2020 13:54:40.390   Download 109 of 132: /flash/www/JniorProtocol.jar (119.0 KB)
```

The files that are downloaded can be opened by 'right clicking' on the filename in the right window. The Show In Folder command will be displayed and if you click on this, Windows will open the folder the file is located in to allow it to be viewed and interacted with.


Remove Snapshot
Rename Snapshot
Show In Folder

Name	Date	Size (KB)
cinema-demo		
jr618080139		
TonysJnior2x		
TonysJnior2x@27Jan2020.zip	1/27/2020 1:55:12 PM	4815.5 KB
access.log	1/27/2020 11:14:00 PM	1.2 KB
analogpresets.log	1/27/2020 1:51:18 PM	61.1 KB
analogpresets_boot.log	1/27/2020 1:51:24 PM	13.6 KB
auxio.log	1/27/2020 1:50:52 PM	0.0 KB
cinema.log	1/27/2020 1:51:10 PM	63.0 KB
cinemaserver.log	1/27/2020 8:13:00 PM	124.5 KB
cinema_boot.log	1/27/2020 1:51:22 PM	12.0 KB
cinema_debug.log	1/27/2020 2:12:00 PM	29.5 KB
cinema_exception.log	1/27/2020 2:12:00 PM	62.6 KB
cinema_messagepump.log	1/27/2020 1:51:02 PM	126.3 KB
cinema_messagepumpapphandler.log	1/27/2020 1:51:12 PM	28.2 KB
cinema_releasenotes.json	1/27/2020 1:51:22 PM	8.2 KB
cinema_threadpool.log		9.3 KB
devices.log		2.4 KB
devices_.csv		0.2 KB
jniorboot.log		1.1 KB
jniorboot.log.bak	1/27/2020 1:51:28 PM	1.1 KB
jniorio.log	1/27/2020 1:50:54 PM	66.7 KB
jniorsys.log	1/27/2020 1:50:54 PM	7.3 KB

By 'right clicking' on a folder that is a snapshot, you can remove or rename the selected snapshot.


JNIOR Support Tool - 7.10
File
View
Tools
Options
Snapshot
Help
Beacon
Devices
Macro
Update
Registry Editor (1)
Logs
Snapshot
Take Snapshot
Filter - All (*.*)
Take Backup
Cancel
Remove Snapshot
Rename Snapshot
Show In Folder

Name	Date	Size (KB)
cinema-demo		
jr618080139		
TonysJnior2x		
TonysJnior2x@27Jan2020.zip	1/27/2020 1:55:12 PM	4815.5 KB
access.log	00 PM	1.2 KB
analogpresets.log	8 PM	61.1 KB
analogpresets_boot.log	24 PM	13.6 KB
auxio.log	52 PM	0.0 KB
cinema.log	1/27/2020 1:51:10 PM	63.0 KB
cinemaserver.log	1/27/2020 8:13:00 PM	124.5 KB

9 Devices Tab

NOTE: In order to view the Devices tab, the View must be set to Cinema. If you are not using Cinema.JNIOR, then please skip this section.

The Cinema.JNIOR application can communicate with a variety of external devices via the Ethernet and the serial ports on the JNIOR. These devices can be controlled as part of a macro running on the JNIOR with the Cinema.JNIOR program. The Devices Tab is used to configure the devices available for use by the macros. The Devices file provides the JNIOR with important set-up information about the device being connected to.

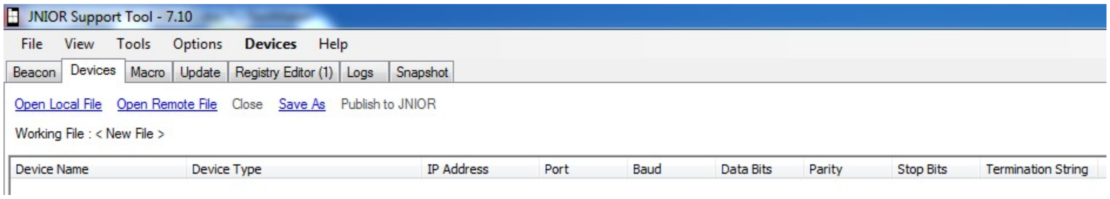
NOTE: The devices file must be built using the JNIOR Support Tool. Only one devices file can be utilized on the JNIOR at a time. The JNIOR Support Tool should be used to transfer the devices file since it will verify there is only one devices file on the JNIOR. If more than one devices file is transferred to the JNIOR, the JNIOR may select the first file found which may or may not be the one intended for operation.

When the JNIOR Support Tool is first launched, a 'default' file is opened. The user can edit the default file and save it.

NOTE: The devices file must be saved as a filename that starts with devices_. A valid filename that will be recognized by the Cinema.JNIOR application is:

devices_*x*.csv where *x* can be any number of acceptable characters

The user can utilize various commands available via the dashboard area of the Devices Tab. The dashboard is shown below:



Working File : < New File >

Device Name	Device Type	IP Address	Port	Baud	Data Bits	Parity	Stop Bits	Termination String

Dashboard Commands

The dashboard commands available are as follows:

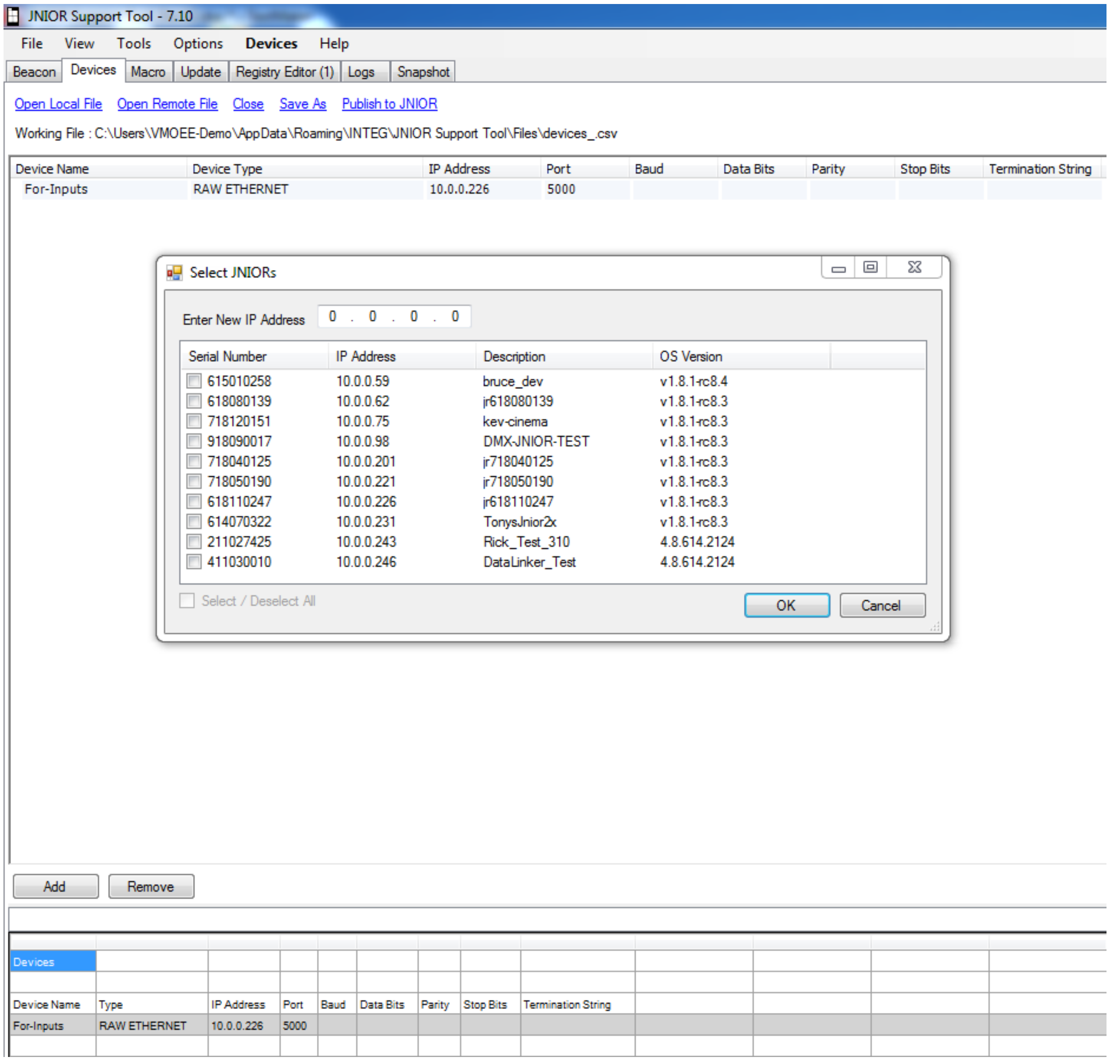
Open Local File – the user must initially edit the default file and save it. When the user clicks on this command, a Windows pop-up box will be displayed that allows the user to select a previously saved devices file.

Open Remote File – the user can transfer a devices file from a JNIOR back to the PC to be viewed and/or edited.

Close – closes the file currently being viewed

Save As – allows the user to save the file. **The filename must start with devices_**

Publish to JNIOR – allows the user to transfer the devices file to a JNIOR. When the user clicks on this command, a pop-up window will be displayed. The pull down will list all the JNIORs found by Beacon. **If your JNIOR is not listed, you can manually type in the IP address of your JNIOR in the Enter New IP Address at the box at the top.**


JNIOR Support Tool - 7.10
File
View
Tools
Options
Devices
Help
Beacon
Devices
Macro
Update
Registry Editor (1)
Logs
Snapshot
Open Local File
Open Remote File
Close
Save As
Publish to JNIOR
Select JNIORs
Select / Deselect All
OK
Cancel
Add
Remove

Working File : C:\Users\VMOEE-Demo\AppData\Roaming\INTEG\JNIOR Support Tool\Files\devices_.csv

Device Name	Device Type	IP Address	Port	Baud	Data Bits	Parity	Stop Bits	Termination String
For-Inputs	RAW ETHERNET	10.0.0.226	5000					

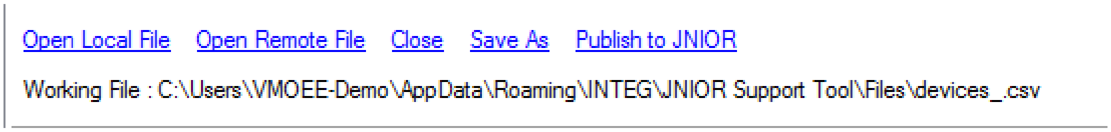
Enter New IP Address 0 . 0 . 0 . 0

Serial Number	IP Address	Description	OS Version
☐ 615010258	10.0.0.59	bruce_dev	v1.8.1-rc8.4
☐ 618080139	10.0.0.62	jr618080139	v1.8.1-rc8.3
☐ 718120151	10.0.0.75	kev-cinema	v1.8.1-rc8.3
☐ 918090017	10.0.0.98	DMX-JNIOR-TEST	v1.8.1-rc8.3
☐ 718040125	10.0.0.201	jr718040125	v1.8.1-rc8.3
☐ 718050190	10.0.0.221	jr718050190	v1.8.1-rc8.3
☐ 618110247	10.0.0.226	jr618110247	v1.8.1-rc8.3
☐ 614070322	10.0.0.231	TonysJnior2x	v1.8.1-rc8.3
☐ 211027425	10.0.0.243	Rick_Test_310	4.8.614.2124
☐ 411030010	10.0.0.246	DataLinker_Test	4.8.614.2124

☐ Select / Deselect All

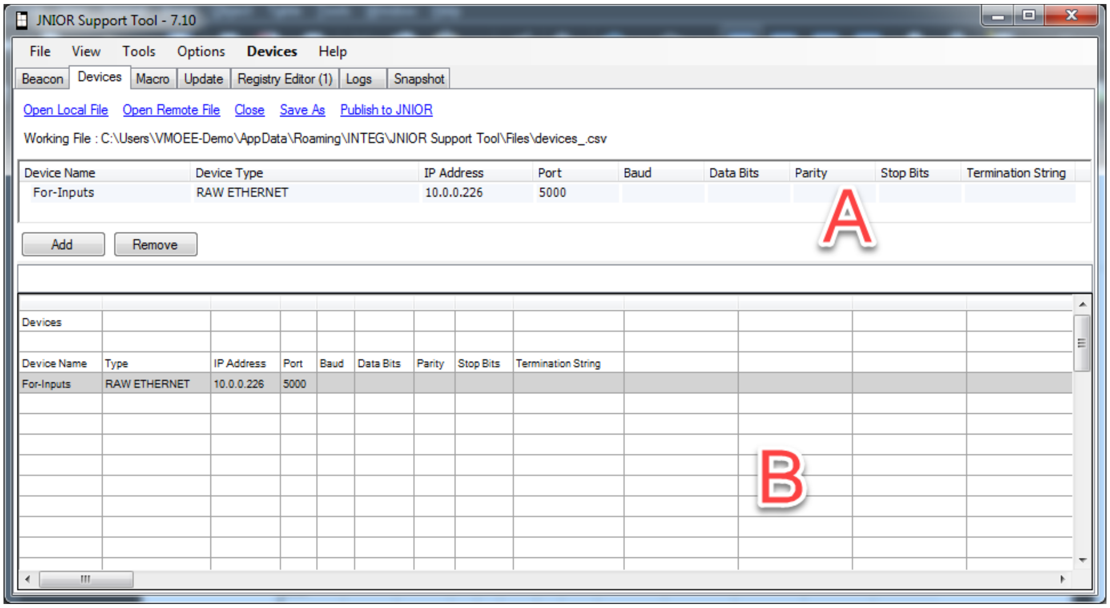
Devices								
Device Name	Type	IP Address	Port	Baud	Data Bits	Parity	Stop Bits	Termination String
For-Inputs	RAW ETHERNET	10.0.0.226	5000					

Below are the commands the dashboard will display the path and name of the current devices file being edited:


Open Local File
Open Remote File
Close
Save As
Publish to JNIOR

Working File : C:\Users\VMOEE-Demo\AppData\Roaming\INTEG\JNIOR Support Tool\Files\devices_.csv

Below the dashboard, the Devices Tab contains two areas – the top area (A) is where the user builds their devices file and the lower area (B) displays the contents of the devices file.


JNIOR Support Tool - 7.10
File
View
Tools
Options
Devices
Help
Beacon
Devices
Macro
Update
Registry Editor (1)
Logs
Snapshot
Open Local File
Open Remote File
Close
Save As
Publish to JNIOR
Add
Remove
A
B

Working File : C:\Users\VMOEE-Demo\AppData\Roaming\INTEG\JNIOR Support Tool\Files\devices_.csv

Device Name	Device Type	IP Address	Port	Baud	Data Bits	Parity	Stop Bits	Termination String
For-Inputs	RAW ETHERNET	10.0.0.226	5000					

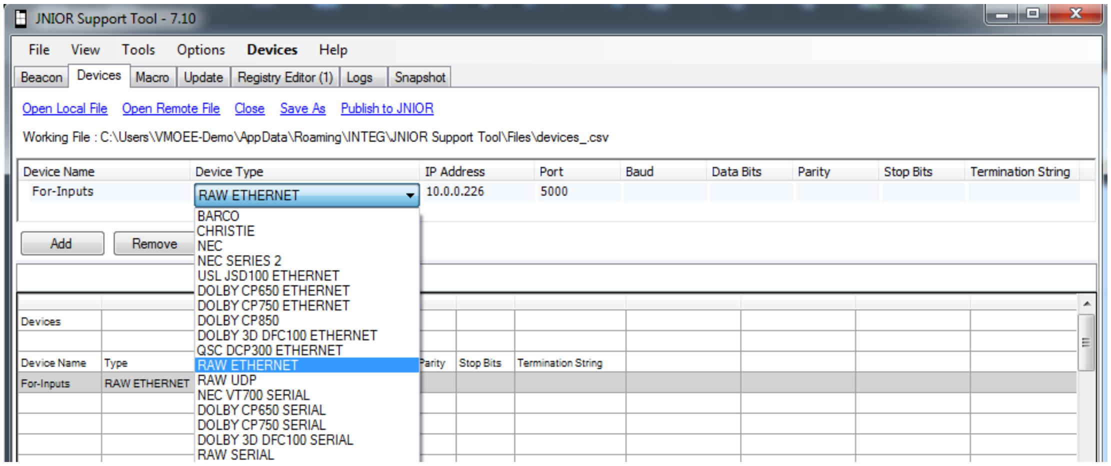
Devices								
Device Name	Type	IP Address	Port	Baud	Data Bits	Parity	Stop Bits	Termination String
For-Inputs	RAW ETHERNET	10.0.0.226	5000					

Area A - The top area contains the following columns and functionality:

Device Name – free form name for the device with each name being unique with the exception that **NO SPACES** are allowed

Device Type – this field will tell the JNIOR the specific device to connect to so that the JNIOR can utilize the proper protocol and make available to the macro the relevant commands. More details on the functionality available for each device type is provided in the next section of this manual (Macro Tab). The names for this field are defined by INTEG and represent the valid types of devices available. **A separate data sheet has the current list of devices**, but the typical devices include:

- Barco digital projector
- Christie digital projector
- NEC digital projector
- Sound processors
- RAW Ethernet (will only send a user entered message defined in the macro)
- RAW Serial (will only send a user entered message defined in the macro)


JNIOR Support Tool - 7.10
File
View
Tools
Options
Devices
Help
Beacon
Devices
Macro
Update
Registry Editor (1)
Logs
Snapshot
Open Local File
Open Remote File
Close
Save As
Publish to JNIOR
Add
Remove
BARCO
CHRISTIE
NEC
NEC SERIES 2
USL JSD100 ETHERNET
DOLBY CP650 ETHERNET
DOLBY CP750 ETHERNET
DOLBY CP850
DOLBY 3D DFC100 ETHERNET
QSC DCP300 ETHERNET
RAW ETHERNET
RAW UDP
NEC VT700 SERIAL
DOLBY CP650 SERIAL
DOLBY CP750 SERIAL
DOLBY 3D DFC100 SERIAL
RAW SERIAL

Working File : C:\Users\VMOEE-Demo\AppData\Roaming\INTEG\JNIOR Support Tool\Files\devices_.csv

Device Name	Device Type	IP Address	Port	Baud	Data Bits	Parity	Stop Bits	Termination String
For-Inputs	RAW ETHERNET	10.0.0.226	5000					

Devices

Device Name	Type			Parity	Stop Bits	Termination String
For-Inputs	RAW ETHERNET					

IP Address – the IP address of the external device on the Ethernet (blank for serial devices).

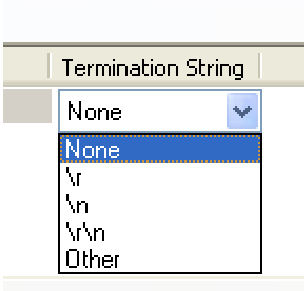
Port – the port number to be used by the JNIOR when opening the connection to the external device over the Ethernet or the JNIOR serial port to be used for serial connections.

The default Ethernet port number will be shown in a pop-up box for the Barco, Christie and NEC projectors and some sound devices. The user can accept the default or change the port number.

For a serial device, the user must select AUX (if the Aux. Serial port is used) or RS232 (if the RS-232 port is used) to define which serial port is being used on the JNIOR.

Baud, Data Bits, Parity, and Stop Bits – settings to be used for connections to serial devices (blank for Ethernet devices). Pull downs are provided to indicate the available settings available with the JNIOR serial ports.

Termination String – the characters to be sent at the end of the message. The user must select one of the defaults or select Other and enter their own. \n is line feed and \r is carriage return.


Termination String
None
None
\r
\n
\r\n
Other

Add and Remove Buttons – these buttons allow the user to add or delete devices from the list.

Area B - The bottom area is for display purposes only and displays the contents of the devices file.

10 Macro Tab

NOTE: In order to view the Macro tab, the View must be set to Cinema. If you are not using Cinema.JNIOR, then please skip this section.

The Cinema.JNIOR Application has the ability to run macros stored on the JNIOR. The macros can control the JNIOR outputs and interact with the connected devices. A macro file includes a complete list of the all the macros and their associated actions and timing. The following describes the functionality of the JNIOR macros and how they are configured.

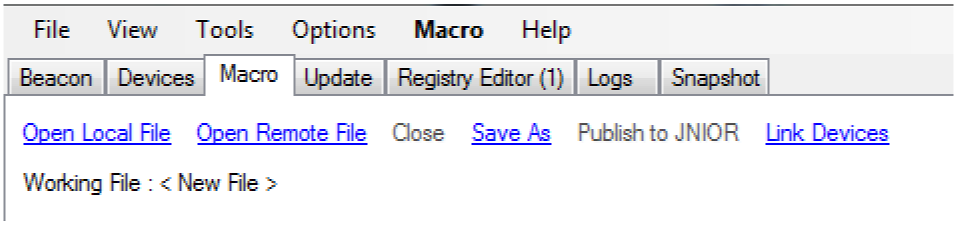
NOTE: The macros must be built using the JNIOR Support Tool. Only one macros file can be utilized on the JNIOR at a time. The JNIOR Support Tool should be used to transfer the macro file since it will verify there is only one macros file on the JNIOR. If more than one macros file is transferred to the JNIOR, the JNIOR may select the first file found which may or may not be the one intended for operation.

When the JNIOR Support Tool is first launched, a 'default' file is opened. The user can edit the default file and save it.

NOTE: The macro file must be saved as a filename that starts with macro_. A valid filename that will be recognized by the Cinema.JNIOR application is as follows:

macro_*x*.csv where *x* can be any number of acceptable characters

The user can utilize various commands available via the dashboard area of the Macro Tab. The dashboard is shown below:



Working File : < New File >

Dashboard Commands

The dashboard commands available are as follows:

Open Local File – the user must initially edit the default file and save it. When the user clicks on this command, a Windows pop-up box will be displayed that allows the user to select a previously saved macro file.

Open Remote File – the user can transfer a macro file from a JNIOR back to the PC to be viewed and/or edited.

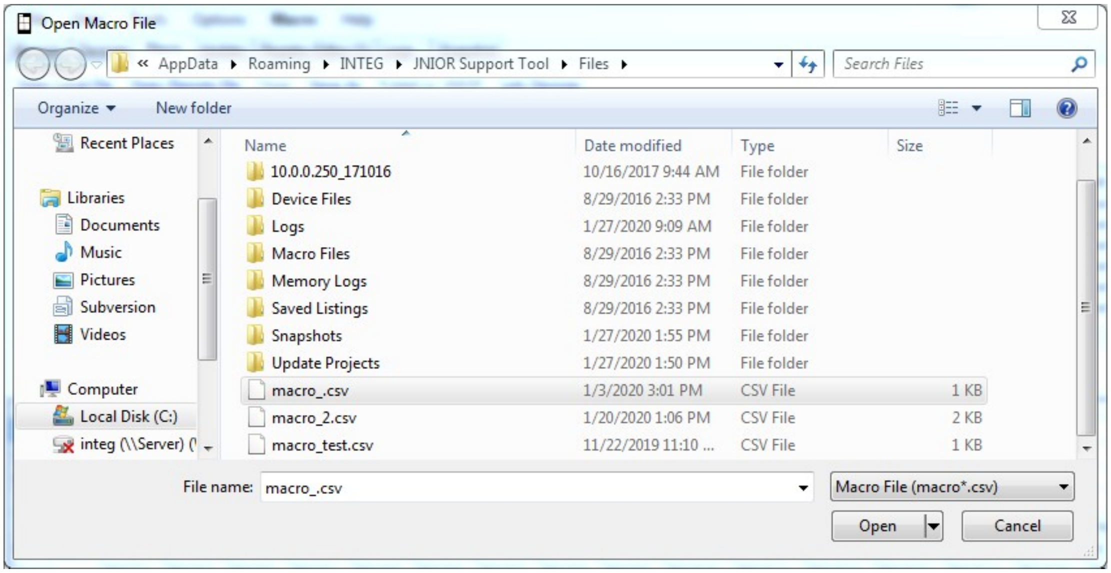
Close – closes the file currently being viewed

Save As – allows the user to save the file. **The filename must start with macro_**

Publish to JNIOR – allows the user to transfer the macro file to a JNIOR. When the user clicks on this command, a pop-up window will be displayed. The pull down will list all the JNIORs found by Beacon. If your JNIOR is not listed, you can manually type in the IP address of your JNIOR. (Please see the Devices Tab section for a typical screen shot.)

Link Devices – allows the user to include in the macro file commands that will be sent to a remote device such as a projector or serial device. When you click on the Link Devices command, a pop-up window will ask you to provide the devices filename to use. The file 'linked to' will be displayed to the right of the Link Devices command.

NOTE: The linkage to this file is not dynamic, so if you make changes to your devices file, you must link again. Whenever you open this macro file again, a different pop-up window will inform you that this macro file contains linked devices and you will be asked to click on the devices file to use. This linkage will not automatically happen each time the macro file is opened. You must remember the devices file name to use. However, if you are not making any changes to the auxiliary devices, you do not have to open the devices file each time you open the macro file.

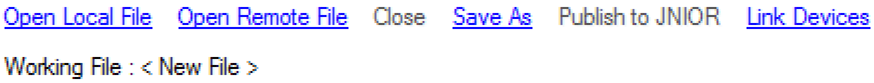


Name	Date modified	Type	Size
10.0.0.250_171016	10/16/2017 9:44 AM	File folder	
Device Files	8/29/2016 2:33 PM	File folder	
Logs	1/27/2020 9:09 AM	File folder	
Macro Files	8/29/2016 2:33 PM	File folder	
Memory Logs	8/29/2016 2:33 PM	File folder	
Saved Listings	8/29/2016 2:33 PM	File folder	
Snapshots	1/27/2020 1:55 PM	File folder	
Update Projects	1/27/2020 1:50 PM	File folder	
macro_.csv	1/3/2020 3:01 PM	CSV File	1 KB
macro_2.csv	1/20/2020 1:06 PM	CSV File	2 KB
macro_test.csv	11/22/2019 11:10 ...	CSV File	1 KB

File name: macro_.csv

Macro File (macro*.csv)

Below the commands, the dashboard will display the path and name of the current macro file being edited and the devices file that was linked:


Open Local File
Open Remote File
Close
Save As
Publish to JNIOR
Link Devices

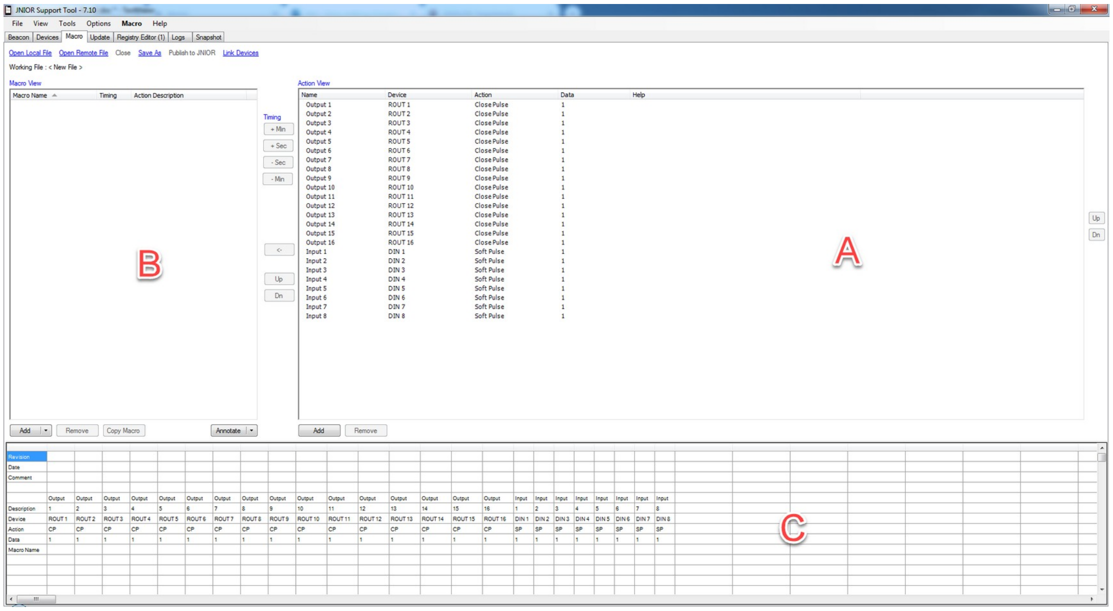
Working File : < New File >

Below the dashboard, the Macro Tab contains three main areas (letters correspond to letters in screen shot below):

Area A) – Action View Window – used to display and manage actions that can be used in macros

Area B) – Macro View Window – used to display and create macros consisting of actions and timing

Area C) – Macro File Overview Window – display only – shows all the macros, actions and timing


JNIOR Support Tool - 7.10
File
View
Tools
Options
Macro
Help
Beacon
Devices
Macro
Update
Registry Editor (1)
Logs
Snapshot
Open Local File
Open Remote File
Close
Save As
Publish to JNIOR
Link Devices
Macro View
Action View
Timing
+ Min
+ Sec
- Sec
- Min
<-
Up
Dn
Add
Remove
Copy Macro
Annotate
Add
Remove
Up
Dn
A
B
C

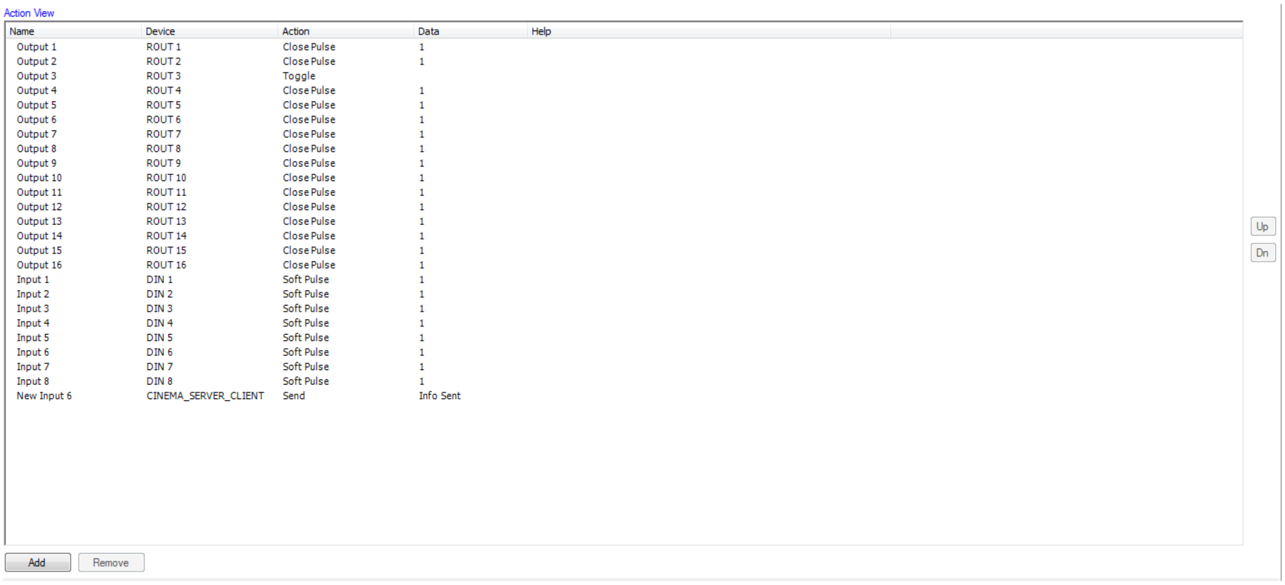
Working File : < New File >

Macro Name	Timing	Action Description

Name	Device	Action	Data	Help
Output 1	ROUT 1	Close Pulse	1	
Output 2	ROUT 2	Close Pulse	1	
Output 3	ROUT 3	Close Pulse	1	
Output 4	ROUT 4	Close Pulse	1	
Output 5	ROUT 5	Close Pulse	1	
Output 6	ROUT 6	Close Pulse	1	
Output 7	ROUT 7	Close Pulse	1	
Output 8	ROUT 8	Close Pulse	1	
Output 9	ROUT 9	Close Pulse	1	
Output 10	ROUT 10	Close Pulse	1	
Output 11	ROUT 11	Close Pulse	1	
Output 12	ROUT 12	Close Pulse	1	
Output 13	ROUT 13	Close Pulse	1	
Output 14	ROUT 14	Close Pulse	1	
Output 15	ROUT 15	Close Pulse	1	
Output 16	ROUT 16	Close Pulse	1	
Input 1	DIN 1	Soft Pulse	1	
Input 2	DIN 2	Soft Pulse	1	
Input 3	DIN 3	Soft Pulse	1	
Input 4	DIN 4	Soft Pulse	1	
Input 5	DIN 5	Soft Pulse	1	
Input 6	DIN 6	Soft Pulse	1	
Input 7	DIN 7	Soft Pulse	1	
Input 8	DIN 8	Soft Pulse	1	

Revision																								
Date																								
Comment																								
Description	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11	Output 12	Output 13	Output 14	Output 15	Output 16	Input 1	Input 2	Input 3	Input 4	Input 5	Input 6	Input 7	Input 8
Device	ROUT 1	ROUT 2	ROUT 3	ROUT 4	ROUT 5	ROUT 6	ROUT 7	ROUT 8	ROUT 9	ROUT 10	ROUT 11	ROUT 12	ROUT 13	ROUT 14	ROUT 15	ROUT 16	DIN 1	DIN 2	DIN 3	DIN 4	DIN 5	DIN 6	DIN 7	DIN 8
Action	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	SP	SP	SP	SP	SP	SP	SP	SP
Data	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Macro Name																								

The Action View window by default lists all the actions available involving the digital inputs and the digital outputs on the JNIOR and 4 Relay Output Expansion Module. The JNIOR can utilize one or two expansion modules giving the JNIOR a total of 8, 12 or 16 relay outputs.



Name	Device	Action	Data	Help
Output 1	ROUT 1	Close Pulse	1	
Output 2	ROUT 2	Close Pulse	1	
Output 3	ROUT 3	Toggle		
Output 4	ROUT 4	Close Pulse	1	
Output 5	ROUT 5	Close Pulse	1	
Output 6	ROUT 6	Close Pulse	1	
Output 7	ROUT 7	Close Pulse	1	
Output 8	ROUT 8	Close Pulse	1	
Output 9	ROUT 9	Close Pulse	1	
Output 10	ROUT 10	Close Pulse	1	
Output 11	ROUT 11	Close Pulse	1	
Output 12	ROUT 12	Close Pulse	1	
Output 13	ROUT 13	Close Pulse	1	
Output 14	ROUT 14	Close Pulse	1	
Output 15	ROUT 15	Close Pulse	1	
Output 16	ROUT 16	Close Pulse	1	
Input 1	DIN 1	Soft Pulse	1	
Input 2	DIN 2	Soft Pulse	1	
Input 3	DIN 3	Soft Pulse	1	
Input 4	DIN 4	Soft Pulse	1	
Input 5	DIN 5	Soft Pulse	1	
Input 6	DIN 6	Soft Pulse	1	
Input 7	DIN 7	Soft Pulse	1	
Input 8	DIN 8	Soft Pulse	1	
New Input 6	CINEMA_SERVER_CLIENT	Send	Info Sent	

The Action View window contains the following information:

Name – User configurable field to describe the action or output (spaces are allowed)

Device – A macro can utilize any of the JNIOR inputs or outputs, or connect to an external device. The external devices must be configured in the Devices Tab of the JNIOR Support Tool and then the Devices file must be 'linked' to the Macro file using the **Link Devices** feature in the dashboard at the top of the macro configuration area. The link function will add the devices from the Devices file to the pull down in the Action column.
Action – User selectable action to take when this Action is executed.

For the outputs, the choices are Open, Close, Toggle and Close Pulse.

For the inputs, a Soft Pulse action can be implemented where the user does not have to actually wire a signal to the input. Instead, the JNIOR can create the input 'high' (or on) message with a Soft Pulse. The JNIOR will send out the message packet indicating the input has gone 'high' for external devices, such as a cinema server, which are monitoring the JNIOR I/O and using the input signal as a trigger.

For external devices, additional actions will be listed based on the device type. **A separate data sheet has the current list of devices and associated actions**, but the typical devices include:

Barco Projector	Lamp On, Lamp Off, Open Dowser, Close Dowser, Send Macro
Christie Projector	Lamp On, Lamp Off, Open Dowser, Close Dowser
NEC Projector	Lamp On, Lamp Off, Open Dowser, Close Dowser, Input Switch

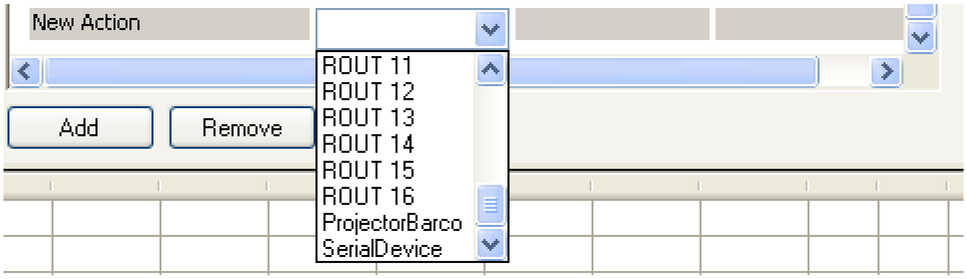
For the Barco projector only, the Send Macro action is available where a macro name can be entered in the Data column and sent to the Barco projector. For the NEC projector only, the Input Switch action is available where a switch number can be entered in the Data column and sent to the NEC projector. For the RAW Ethernet or RAW Serial devices, the only action available is a Send command. This will send the information entered in the Data column to the device.

Data – Defines the pulse duration (in whole seconds) for the Close Pulse command or the data to be sent to the RAW Ethernet or RAW Serial devices.

Up and Dn Buttons – the up and down buttons on the right side of the Action View Window allow the user to reorder the actions. This will also adjust the order of the actions in the Macro File Overview Window at the bottom of the Macro Tab.

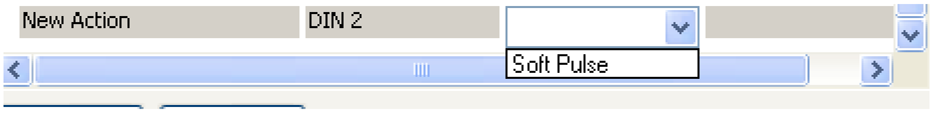
Add Button – allows the user to enter new Actions. You will enter a name and then when you click on the Devices column, you will be given a choice of the eight JNIOR Inputs, the sixteen JNIOR Outputs and any external devices imported via the Link Devices command.

Below is a screen shot of the pull down for the Devices column with linked devices.



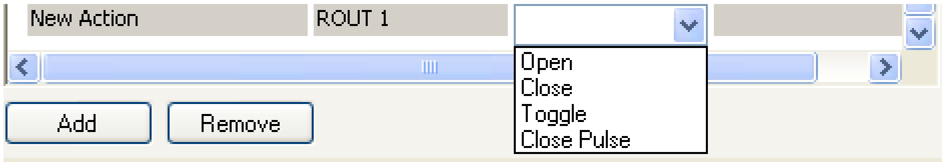
Depending upon the device selected, you will receive an appropriate list of Actions to choose from.

Below is the pull down listing the action for a **digital input**. The Soft Pulse action creates an approximately one to two second transition to ‘high’ of this input. This is a software only transition and does not affect the electrical side of the inputs. This causes the input high message to be sent from the JNIOR to other devices, such as a cinema player, connected to the JNIOR and monitoring the status of the inputs. This message can be used in lieu of wiring an actual signal to the JNIOR input.

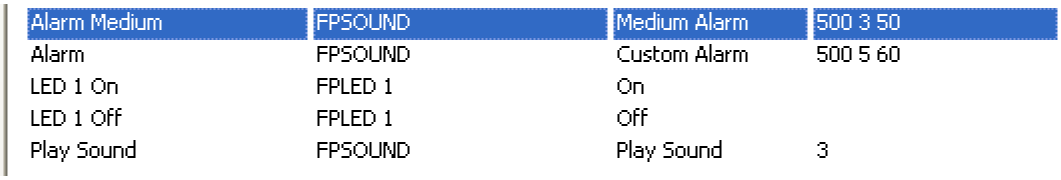


Below is a pull down listing the actions for a **relay output**. An output action can be Open, Close, Toggle (changes to the opposite state it is currently in) or Close Pulse. When the Close Pulse command is selected the appropriate pulse duration, in whole seconds, must be entered in the Data column. The default, and typical value, is 1 second.

NOTE: You can have different actions configured for the same output. For example, an output can have a Close action and a Close Pulse action and these actions can be used in the same or different macros.

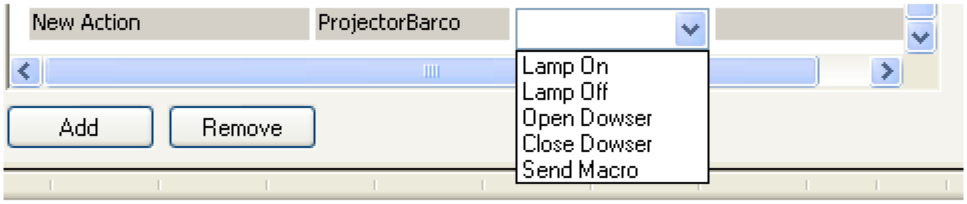

New Action
ROUT 1
Open
Close
Toggle
Close Pulse
Add
Remove

Below is a listing the typical actions for a **JNIOR Control Panel**. The JNIOR Control Panel has LED status indicators that can be controlled in a macro. The JNIOR Control Panel also has a speaker that can play alarms (sounds) as part of a macro. See the JNIOR Control Panel documentation for further instructions.



Alarm Medium	FPSOUND	Medium Alarm	500 3 50
Alarm	FPSOUND	Custom Alarm	500 5 60
LED 1 On	FPLED 1	On	
LED 1 Off	FPLED 1	Off	
Play Sound	FPSOUND	Play Sound	3

Below is a pull down listing the actions for the Barco Projector. If the Send Macro action is selected, the macro name must be entered in the Data column. (The commands for the other devices are listed on the previous page of this document.)

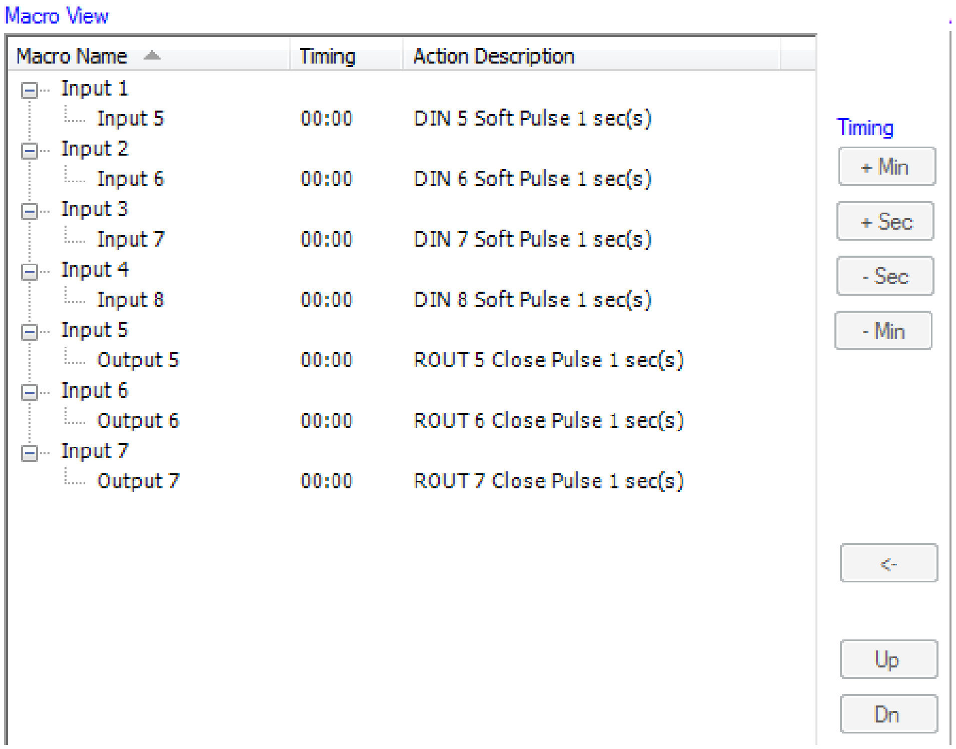

New Action
ProjectorBarco
Lamp On
Lamp Off
Open Dowser
Close Dowser
Send Macro
Add
Remove

Remove Button – allows the user to delete any action.

NOTE: Deleting unused actions is not required, but can be done so that the Macro File Overview Window at the bottom is cleaner and only shows the relevant Actions and I/O being used.

Macro View Window

The Macro View window displays the macros being created and is used to adjust the timing of each action and to reorder the macros in the macro file.



Macro Name	Timing	Action Description
Input 1		
Input 5	00:00	DIN 5 Soft Pulse 1 sec(s)
Input 2		
Input 6	00:00	DIN 6 Soft Pulse 1 sec(s)
Input 3		
Input 7	00:00	DIN 7 Soft Pulse 1 sec(s)
Input 4		
Input 8	00:00	DIN 8 Soft Pulse 1 sec(s)
Input 5		
Output 5	00:00	ROUT 5 Close Pulse 1 sec(s)
Input 6		
Output 6	00:00	ROUT 6 Close Pulse 1 sec(s)
Input 7		
Output 7	00:00	ROUT 7 Close Pulse 1 sec(s)

Macro Name – a user configurable name for the macro. This name is the name that is used by any trigger to run this macro. The macro can be triggered by the Preshow Client, Cinema Server Client, the switches on the JNIOR Control Panel, digital inputs and via devices on the network. Please see the Cinema.JNIOR Application manual for more details on how to trigger a macro.

Timing – The number of minutes and seconds from the time the macro is triggered that the specific action will be executed. Two actions can occur at the same time. However, if they are two different types of actions, they may not actually occur at the exact same time. Relay Outputs on the JNIOR (outputs 1 – 8) must be separated by their pulse duration. For example, if you increase the pulse duration to 3 seconds, the next action must occur at least 3 seconds later. This does not apply to relay outputs on the 4 Relay Output Expansion Module where actions can occur at the same time, but do not have to be separated by more than 1 second regardless of pulse duration length.

Action Description – Displays the action, device and any data associated with the action.

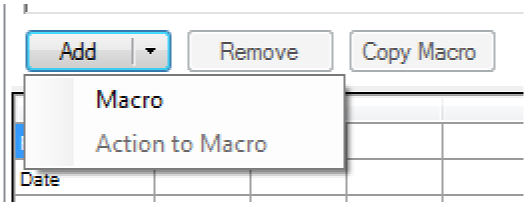
Add Button – allows the user to add a new macro

Remove Button – allows the user to delete a macro

Adding An Action to a Macro – the user can 'move' an action from the right window to a macro in the left window by:

1. Clicking on the desired macro in the left window
2. Clicking on the desired action in the right window
3. clicking on the <- (left arrow) button in between the two windows

As an alternative to step 3 above, the user could click on the Add button and then the Action to Macro option as shown below.

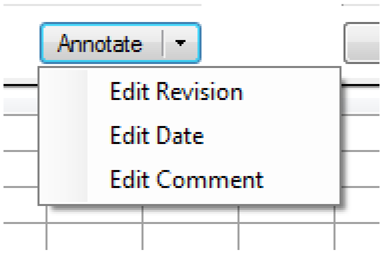


Timing + and – Buttons – allows the user to increase or decrease the timing value for an action within a specific macro

Up and Dn Buttons – the up and down buttons on the right side of the Macro View Window allow the user to reorder the macros. This will also adjust the order of the macros in the Macro File Overview Window at the bottom of the Macro Tab.

NOTE: Starting a macro can be done by using the macro name or its macro number. The macro number is the sequential number given to each macro based on its listing order in the Macro File Overview Window. One is given to the first one, two the second, and so on. So reordering the macros will change this macro number.

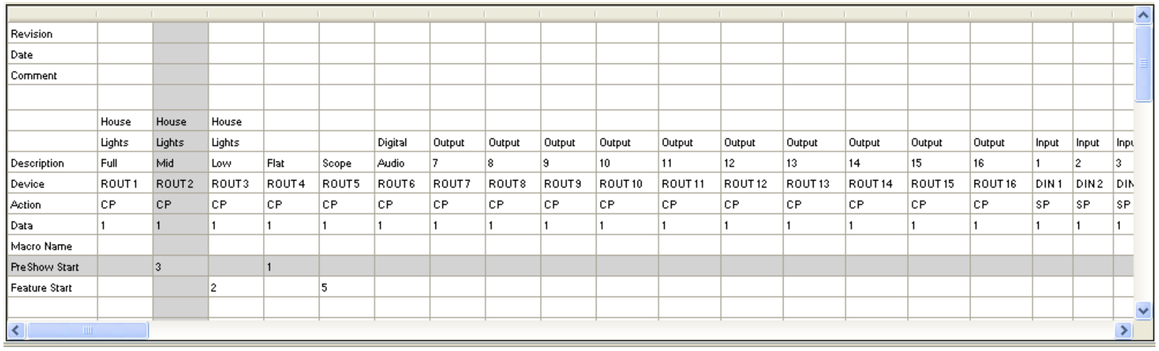
Annotate Pull Down – the user can enter a revision, date and comment that are stored with the macro file to help describe the purpose of the macro file.



Macro File Overview Window

The Macro File Overview window displays the complete list of all the actions defined in the Action View window, all the macros configured, and the timing for each action in each macro. The Macro File Overview window provides the user with an easy way to view their macro file configuration. Scroll bars are provided for viewing all the information.

‘Cross hairs’ are provided by highlighting the macro selected in the Macro View window and the Action selected in the Action View window.



Revision																			
Date																			
Comment																			
	House	House	House																
	Lights	Lights	Lights			Digital	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Input	Input	Inpu
Description	Full	Mid	Low	Flat	Scope	Audio	7	8	9	10	11	12	13	14	15	16	1	2	3
Device	ROUT1	ROUT2	ROUT3	ROUT4	ROUT5	ROUT6	ROUT7	ROUT8	ROUT9	ROUT10	ROUT11	ROUT12	ROUT13	ROUT14	ROUT15	ROUT16	DIN1	DIN2	DIN
Action	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	SP	SP	SP
Data	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Macro Name																			
PreShow Start		3		1															
Feature Start			2		5														

Summary

Thank you for purchasing the **JNIOR**. Hopefully this manual made the getting-to-know process of your new **JNIOR** very quick and easy. The **JNIOR** has many more wonderful tools and features available, and are explained in detail in the supplied documents.

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