Using the JNIOR with the GDC Digital Cinema Server

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The following is an explanation of how to utilize the JNIOR with the GDC Digital Cinema Server.

Please contact INTEG via e-mail at <u>support@integpg.com</u> or via phone at 724-933-9350. Please visit our website at <u>www.integpg.com for software updates</u>, <u>manuals and to</u> <u>download the JNIOR Support Tool.</u>

NOTE: All explaintions in this document for connectiong with GDC Server also work for the Series 3 JNIORS.

Overview

The GDC cinema server works with the JNIOR Model 410, JNIOR Model 412 and the 4 relay output expansion modules. The Model 410 has 8 digital inputs and 8 relay outputs. The Model 412 has 4 digital inputs and 12 relay outputs. The 4 Relay Output Expansion Module (low voltage) or the Power 4 Relay Output Module (120/240 VAC @ 10 amps) can be attached to either the JNIOR Model 410 or 412.

The GDC makes an Ethernet connection to the JNIOR. You must configure an IP address on the JNIOR. This can be done using the JNIOR Support Tool. The JNIOR Support Tool can be downloaded from the INTEG website at the following link.

https://www.integpg.com/jnior-support-tool/

Please connect your JNIOR to the Ethernet network, launch the JNIOR Support Tool and go to the Beacon tab. Your JNIOR should be displayed on the Beacon tab. Right click on your JNIOR and select Configuration and enter the IP configuration for your JNIOR.

JNIOR Application Note

	Options Beacon	neip							
eacon Devices Macro	o Update Registry Editor	Logs Snapshot							
Serial Number Hostna	ame	Address	Subnet Mask	MAC Address	> OS Version	Boot Time		Last Announced	Message
110040145 ToryC 110070130 µ1100 211016700 µ1050 211027425 Rick_1 310070054 Rick_1 310070054 Rick_1 411030010 Datal 817120012 TP-Ly 718070022 WAC 618080139 BT-M 816080015 kev-di 816080015 kev-di 816080015 kev-di 816080015 kev-di 816080016 toryis 918020054 Kevin 814490001 WAC 614110208 Democ 61410232 Toryis 8144490008 Price	Chema Test 70130 80373 Test_310 INICR Informatic riker_T Mac Address aneraC Setal Number MAC Address Setal Number MAC Address © Use DHCP © Use DHCP © Use DHCP IP Addressing stainker IP Addressing IP Addressing IP Addressing ID	10.0.240 10.0.241 10.0.241 10.0.242 10.0.243 m 614070322 9C:8D:1A:00:02 wing IP Config 1000 1000 1000 1000 1000 1000 1000	255 255 255 0 255 255 255 0 0 . 231 255 . 0 0 . 1	MAC Address 00 60 35 0e 63 20 00 60 35 10 19 31 00 60 35 11 30 30 00 60 35 11 30 30 00 60 35 11 2e eb	4.8.614.2124 4.8.614.2124 4.8.614.2124 4.8.614.2124 Enabl	11/11/2019 9: 10/24/2019 11 11/22/2019 3: 11/12/2019 3: 11/12/2019 11 22 e Beacon V herey New Announce):08:41 AM 43:51 PM	Last Announced 12/2/2019 1:13:11 PM 12/2/2019 1:13:11 PM 12/2/2019 1:13:11 PM 12/2/2019 1:13:11 PM 12/2/2019 1:13:11 PM 12/2/2019 1:13:11 PM 12/2/2019 1:13:10 PM 12/2/2019 1:13:10 PM 12/2/2019 1:13:10 PM 12/2/2019 1:13:11 PM	Message Errors file exists Some applications could not st

1 - Using the JNIOR for basic I/O

The JNIOR can be used as general purpose inputs/outputs for the GDC server. The JNIOR provides for easy installation and quick wiring of various items to be controlled or monitored in the theatre. The JNIOR provides great isolation and separation of voltage spikes between the theatre and the digital projector and cinema server.

After you have set the IP address on the JNIOR, there is nothing else that needs to be done on the JNIOR. The rest of the configuration is on the GDC server.

Click on the Automation set-up button

gdcserver:0.0	
Options Use startup/shutdown password Playlist menu password protected Skip non-playable composition play	 Reset TimeCode at end of clip Enable playback resumption Skip checking assets during ingest
Settings	Packet 204 Z Date Format DD/MMYYYY Z
Subtitle Delay 0 frames For	Size 12 Language English Z
Password Change User Password Ch	ange Technician Password Change Maintenance Password
SNMP Setup	Automation
General CineCanvas Assistance	Audio NOC. Caption Streaming
Aaintenance OK	Cancel

Go to the Devices tab and click Search devices on Network. This will search the network for any JNIORs installed on the network.

gdcserver:0.0				
Device Name	System		Add	it Defete
Device Type		\langle	Search device	es on network
System Settings				
Status		$\overline{\Sigma}$		
		k		
-	_			
Actions Inputs D	evices			

Select your JNIOR

NOTE: Each JNIOR may be listed two times, but just select your JNIOR once and click the ADD button

	V ² gdcs	erver:0.0						
	Searc	ch has complet	ed. Please p	ick a devi	ce:			
		Name	Company	Model	Туре	IP		
	1	web_demo	INTEG	JNIOR	AUTOMATION	10.0.0.200		
	2	Cinema-Tray	INTEG	JNIOR	AUTOMATION	10.0.0.228		
	3	web_demo	INTEG	JNIOR	AUTOMATION			
	4	Cinema-Tray	INTEG	JNIOR	AUTOMATION	10.0.0.228		
	G•[)•C				Add	Cancel	
Then add the		Port		50)2			
		Logi			nior			
		Pass	word	in	nior			
				5				

And click the Save button

dcserver:0.0			
Device Name	Cinema-Tray	Add Edit	Delete
Device Type	JNIOR_IO	Search devices of	on network
- JNIOR_IO Settings	JNIOR-A310	Status Enat	oled
IP Address	10.0.0.228		
Port	502	Input Min Pulse Width (ms)	
Login	→ jnior		
Password	• ••••	Output Pulse Width (ms)	
Actions Inputs De	evices Options		
G·D·C		Save	Close

You can then add the JNIOR I/O to your various EVENTS

Go to the Action tab and click ADD

gac	server:0.0						
Ev	ent Label		FIRE_ALARM		d	Delete	Edit
	Device		Action				
1	System	$\overline{\Delta}$	Primitive:	Pause			$\overline{\Delta}$
2	System		Primitive:	LogRequest			$\overline{\Sigma}$
	Add	Delete	e		Sch	edule	Execute
Actio			e ices Options		Sch	edule	Execute

Give your Event a name

gdcserver:0.0 Enter the label r		
Play 🗲		
1	2 3 4 5 6 7 8 9 0	
q	w e r t y u i o p	
а	s d f g h j k l	
z	x c v b n m / .	
@	- Space %	
	BackSpace Caps Enter Cancel	
G·D·C		

Then Add various Actions to your Event.

If you select the COIL action, the GDC will 'pulse' (close, then open) the JNIOR output relays that are selected. The default pulse duration is 700 milliseconds.

Va	gdcs	erver:0.0				
F	Eve	ent Label	Play		Add Delete	Edit
		Device Cinema-Tray 💟	Action		1 2 3	4 5 6 7 8
		System GPIO Timer Cinema-Tray	••••		Select	Output ulse
(C	Add Delet	e		Schedule	Execute
	Actio	ns Inputs Dev	vices Options			,
C	5• [D-C		s	ave	Close

If you select the LEVEL action, the GDC will either 'close' (turn on) the relay output or 'open' (turn off) the JNIOR relay output.

If you select the same number on both sides of the Level action, the relay will turn 'on' and stay 'on'.



If you only select the left side, the relay will turn 'off'.

V& gdc	server:0.0		
Ev	rent Label	Play	Add Delete Edit
	Device	Action	
1	Cinema-Tray	Coil 🛛	1 2 3 4 5 6 7 8
2	Cinema-Tray	Level	1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8
3	Timer Z	Delay(ms):	10000
4	Cinema-Tray	Level	1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8
			By selecting the relay number only on the left side, the relay turns 'off'
	Add Dele	te	Schedule Execute
Actic	ons Inputs Dev	vices Options]
G•	D·C		Save Close

You can continue to add Actions to your Event and then click on the Execute button to test your event.

If you want to monitor a JNIOR input, such as a fire alarm, then go to the Inputs tab and click Add, then select your JNIOR, input number and 'label'.



2 – Using the JNIOR for more than 8 Relay Outputs

If you need more than the standard 8 relay outputs on the JNIOR Model 410 and want to use the JNIOR Model 412 (12 relay outputs) or use the 4 Relay Output Expansion Module (low voltage) or the use the Power 4 Relay Output Expansion Module (120/240 VAC @ 10 amps), then you will have to use an additional program on the JNIOR.

You can use one of two programs – Serial Control PLUS or Cinema.Jar. **Please note**, **only one of these programs should be running.** This section will discuss using the Serial Control PLUS program. The next section will discuss using the Cinema.Jar program and the additional functionality available with that program.

Using the Serial Control PLUS Program

The Serial Control PLUS program will allow you to control more than 8 outputs on the JNIOR. Serial Control PLUS is preloaded on every JNIOR shipped.

NOTE: Older JNIORs may contain the program Serial Control. The Serial Control PLUS program is available on the INTEG website so that you can upgrade your JNIOR.

You will have to enable the Serial Control PLUS program on your JNIOR. It is not running by default. Once you enable the program, it will always run on boot up.

The easiest way to enable the Serial Control PLUS program is via the JNIOR Web page. You can launch the main JNIOR web page by typing the JNIOR IP address in your browser address line or right clicking on your JNIOR in the Beacon tab. After the JNIOR web page is loaded, go to the Applications tab and check the box for Serial Control PLUS. Reboot the JNIOR and the program will be running.

Input/Output	Configuration Console Folders Registry Syslog Peers About	
Display Labels Inputs Counters Outputs	Enable/Configure Registered Applications Serial Control Plus 5.0 Serial-to-Ethernet Server 6.0	
Metering Serial I/O	Task Manager 7.0	7
Applications Mail-Account	Modbus Server 1.7 (Slave)	
Mail-Profiles Events	SNMP 2.4.1	
Network Security	Slave Service 1.5	×
Telnet WebServer FTP Protocol Modules	Cinema 3.3.0	

From the Registry Editor tab in the JNIOR Web page, you can click on AppData – Serial_Control folder to see the default Serial Control PLUS settings. The following shows the default registry keys for the Serial Control PLUS program.

NOTE: You do NOT have to change any of these settings. The GDC configuration can be adjusted to match the JNIOR settings.

JNIOR Application Note

Refresh New Delete Registry Documentatio					
AppData/SERIAL_CONTROL/					
4 Registry	Кеу	Content			
⊿ AppData	\$Quit	false			
► Cinema	\$Started	Mon Dec 02 14:59:40 EST 2019			
⊢\$Quit	Baud	9600			
⊢ \$Started	DataBits	8			
⊢ Baud ⊢ DataBits	FlowControl	0			
⊢ FlowControl	IncomingTerminationString	١r			
⊢ IncomingTerminationSt ⊢ Name	Name	SERIAL CONTROL			
- OutgoingTerminationSt	OutgoingTerminationString	١r			
– PacketSize	PacketSize	1024			
⊢ Parity ⊢ SendCounts	Parity	0			
⊢ SerialPort	SendCounts	false			
⊢ StopBits	SerialPort	AUX			
⊢ TcpPort ⊢ Version	StopBits	1			
► Applications/	TcpPort	9202			
► AUXSerial/ ► Device/	Version	5.0.122.1501			

On the GDC server, another connection must be added to send additional commands to the JNIOR. Please Add another Device and select a NETWORK SOCKET CONNECTION.

gdcserver:0.0		
Device Settings		
Name		
JNIOR_EXPANSION		
Туре		
	· · · · · · · · · · · · · · · · · · ·	
	<u></u> K	<u>C</u> ancel

You will have to configure the Network Socket Connection to match the Serial Control PLUS settings.

IP Address	your JNIOR IP address
Port	9202
Linefeed Type	CR

NOTE: If you want to use a different port or Linefeed type, then you must make the corresponding change on the JNIOR using the Registry Editor Tab and go to the AppData – Serial Control folder (as shown above) and adjust the settings.

gdcserver:0.0	
Device Name	JNIOR_EXPANSION Z Add Edit Delete
Device Type	NETWORKSOCKET Search devices on network
Network and Contr	ol Cues Settings
IP Address	10.0.0.228 Status Enabled Transport
Port	9202 © TCP O UDP
Local Port	
Control Cues	Edit Control Cues
	_
Actions Inputs	Devices Options
G·D·C	Save Close

Then click on the Edit Control Cues button and add cues to control the extra outputs. You can also add cues to control the core relay outputs (1 - 8).

The Value column contains the commands that are recognized by Serial Control PLUS. These commands are described in detail in the Serial Control PLUS manual.

The basic commands are:

c1	- closes output 1
01	- opens output 1
c1p=1000	- pulses output 1 closed for 1000 milliseconds

Where the number 1 can be replaced with 2 through 8 to represent the first 8 outputs.

For outputs 9 - 12 in the JNIOR Model 412 or when using a 4 Relay Output Expansion Module, the number 1 is replaced with +1 through +8 to represent outputs 9 - 16.

c+3p=1000	- pulses output 11 closed for 1000 milliseconds
c+4	- closes output 12
o+8	- opens output 16

Below are some example commands entered as Cues in the GDC server to control outputs 3 and 10.

Va	gdo	server:0.0	
E	Edit C	Control Cues	
		Name	Value
	1	Close Output 10	c+2
	2	Close Output 3	c3
	3	Open Output 10	0+2
	4	Open Output 3	03
	5	Pulse Output 10	c+2p=1000
	6	Pulse Output 3	c3p=1000
		Add Remove	Ok

These cues can then be used in your Events.

NOTE: You can use both types of commands in your Events – the standard JNIOR commands using the Coil or Level Actions and the custom Cues using the Network Socket Connection.

Ev	ent Label	Play					2	7		/	٩dd	[Deli	ete			1	Edit
_	Device	Action																
1	Cinema-Tray	Coil	\sum									1	2	3	4	5	6	7
2	Cinema-Tray 💆	Level	$\overline{\Delta}$		1 2	3	4	5	6	7 8		Ţ	2	3	4	5	6	7
3	Timer 💆	Delay(m	ns):	5000													1	Ť
4	Cinema-Tray	Level	$\overline{\Delta}$		1 2	3	4	5	6	7 8		T	2	3	4	5	6	7
5		Event:		Clos	e Ou	tput	3					<u> </u>						Ż
6		Event:		Pulse	e Out	tput	10											
Add Delete Execute																		

V	gdcs	erver:0.0			<	
ſ	Eve	ent Label	Play	Add Delete Edit		
	_	Device	Action	A		
	3	Timer Z	Delay(ms):	5000		
	4	Cinema-Tray 💆	Level Z	1 2 3 4 5 6 7 8 1 2 3 4 5 6 7		
	5		Event:	Close Output 3	k	
	6		Event:	Pulse Output 10	ľ	
	7	Timer 💆	Delay(ms):	5000		
	8		Event:	Open Output 3		
	Add Delete Schedule Execute					
	Action	ns Inputs Dev	vices Options	J	1	
(G•C	D•C		Save Close		

3 – Using the JNIOR for more than 8 Relay Outputs and to execute MACROS on the JNIOR

If you need more than 8 relay outputs and want to run macros on the JNIOR, then you will have to use an additional program on the JNIOR. You must use the Cinema.Jar program.

The macros on the JNIOR can be configured to control JNIOR outputs, control external devices, such as projectors, sound processors, etc. and to send 'soft pulses' to the GDC to start, stop or pause the GDC server.

Installing Cinema.Jar

Cinema.Jar is installed using the JNIOR Support Tool.

The latest Cinema.Jar 'update project' can be found on our Cinema downloads page at the following link.

Cinema.Jar Download

Please download the zip file, but do NOT unzip it. Go to the Update tab in the JNIOR Support Tool and click on the Open Project link and then navigate to where you saved the update project. The JNIOR Support Tool will unzip the project. Then click Publish Update to JNIOR and select your JNIOR.

NOTE: If this is the first time you are installing Cinema.Jar on your JNIOR, it is recommended that you leave all the steps checked and then you can configure Cinema.Jar for your application. If you have already installed Cinema.Jar, then you only want the first and last steps checked. Please see the examples below.

Updating Cinema.Jar

JNIOR Support Tool - 7.9 File View Tools Options Update Help	
Beacon Devices Macro Update Registry Editor Logs Snapshot Devices Macro Update Registry Editor Logs Snapshot Open Project Configuration ① Publish ()	Cancel C:\Users\VMOEE-Demo\Downloads\Cinema-3.6-14aug2019.
Step I Cinema-3.6-14aug2019 I Load Cinema 3.6 I Run Key I Reboot	Status

Configuring the Cinema Server Client

After you have installed Cinema.Jar, you will need to enable a Cinema Server Client. The GDC server will act as a Cinema Server Client within the Cinema.Jar program. Open the main JNIOR Web page and go to the Registry Editor tab, click on the AppData folder, then the Cinema folder and finally CinemaServerClient folder.

Please modify the Cinema Server Client configuration to match the configuration highlighted in yellow in the picture below.

efresh New Delete		Registry Documentation				
AppData/Cinema/CinemaServer	Client/					
Registry	Кеу	Content				
⊿AppData	IncomingTerminationString	\r\n				
⊿ Cinema ⊿ Cinema ServerClient	Method	disabled				
► Serial/	OutgoingTerminationString	\r\n				
⊢ IncomingTerminations ⊢ Method	PauseDelay	-1				
⊢ OutgoingTerminationS ⊢ PauseDelay	SendAck	true				
	SendCounts	false				
⊢ SendAck ⊢ SendCounts	SendDateStamp	true				
- SendDateStamp	SerialCommandsEnabled	false				
- SerialCommandsEnab	TcpPort	-1				
⊢ TcpPort ⊢ UnsolicitedIoAlerts	UnsolicitedIoAlerts	false				
 Client/ IO/ Logic/ Logs/ Macros/ Panel/ Schedule/ 						

NOTE: In order for the above settings to take effect, you will have to reboot the JNIOR. **Please do not disconnect the power to the JNIOR to reboot.** After you make your changes, the JNIOR will take up to 1 minute to save the changes to permanent memory.

To reboot the JNIOR, please go to the About tab in the JNIOR Web page and click on the Reboot button so all settings will be saved properly.

Configuring the GDC Server

On the GDC server, another connection must be added to send additional commands to the JNIOR. Please Add another Device and select a NETWORK SOCKET CONNECTION

Va gdcs	server:0.0		
	vice Settings		
	Name		
	JNIOR_CinemaServer		
	Туре		
	NETWORKSOCKET		
		<u>o</u> k	<u>C</u> ancel

You will have to configure the Network Socket Connection to match the Cinema Server Client settings in the Cinema.Jar program.

IP Addressyour JNIOR IP addressPort9600Linefeed TypeCRLF

NOTE: If you want to use a different port or Linefeed type, then you must make the corresponding change on the JNIOR using the Registry Editor Tab and go to the AppData – Cinema – CinemaServerClient folder (as previously shown) and adjust the settings.

Bevice Name	JNIOR_CinemaServer Z Add Edit Delete
Device Type	NETWORKSOCKET Search devices on network
-Network and Contr	ol Cues Settings
IP Address	10.0.0.228
Port	9600 CTCP UDP
Local Port	CRLF
Control Cues	Edit Control Cues
	↑
	1
Actions Inputs	Devices Options
G·D·C	Save Close

Then click on the Edit Control Cues button and add cues to control the extra outputs. You can also add cues to control the core relay outputs (1 - 8).

The Value column contains the commands that are recognized by Cinema.Jar. The commands are described in detail in the Cinema.Jar manual.

The basic commands are:

::c1	- closes output 1
::01	- opens output 1
::c1p=1000	- pulses output 1 closed for 1000 milliseconds

Where the number 1 can be replaced with 2 through 8 to represent the first 8 outputs.

For outputs 9 - 12 in the JNIOR Model 412 or when using a 4 Relay Output Expansion Module, the number 1 is replaced with +1 through +8 to represent outputs 9 - 16.

::c+3p=1000	- pulses output 11 closed for 1000 milliseconds
::c+4	- closes output 12
::o+8	- opens output 16

NOTE: The individual relay commands are the same as those used with the Serial Control PLUS program except they are preceded with a double colon (::)

To execute a macro on the JNIOR, please use the following command

run macroname where macroname is the name of the macro stored on the JNIOR

For example, enter the command run flat start in the GDC server to have the JNIOR run the macro named flat start

NOTE: Do NOT use the :: in front of the run command The run command must be entered in the GDC in lower case letters.

V	🛛 gdcserver:0.0									
	Edit C	Control Cues								
		Name	Value							
	1	Close Output 10	::c+2							
	2	Open Output 10	::o+2							
	3	Pulse Output 10	::c+2p=1000							
	4	Run Macro FLAT START	run flat start							
		Add Remove	Ok							

These cues can then be used in your Events.

NOTE: You can use both types of commands in your Events – the standard JNIOR commands using the Coil or Level Actions and the custom Cues using the Network Socket Connection.

Ev	ent Label	Play		2		Add		Del	ete		E	dit
	Device	Action										
	Cinema-Tray	Coil 🛛 🔤						1 2	3 4	5	6	7 8
2	Cinema-Tray	Level 🗵	1	2 3 4	56	7 8		1 2	3 4	5	6	7 8
3	Timer 💆	Delay(ms):	5000								<	$\langle \uparrow \rangle$
Ļ	Cinema-Tray	Level Z	1	2 3 4	56	7 8		1 2	3 4	5	6	7 8
+	JNIOR_Ciner	Event:	Pulse O	utput 10								Ż
-	JNIOR_Ciner	Event:	Run Ma	cro FLAT	STAF	RT						
	Add Dele	te					So	chedu	le	E	xec	ute

Triggering Inputs using a JNIOR Macro

You can simulate a JNIOR input going from low to high in software on the JNIOR by using a 'soft pulse' command in a JNIOR macro. The 'soft pulse' command can be used in a macro, for example, that is run when a preshow is completed. The GDC can be configured to monitor a JNIOR input and when this input goes 'high' (on), the GDC will unpause and begin to play the movie.

When using a 'soft pulse', the following Registry Key must be added to the JNIOR so that when the 'soft pulse' triggers, it also increments the counter for that input. Since a 'soft pulse' is not a real electrical signal on the JNIOR input, the counter for that input will not increment. The GDC looks at both the signal going 'on' and verifies the counter has incremented to then recognize the input transition as valid. By adding the following Registry key, a 'soft pulse' will also increment the counter.

Open a Telnet session via the JNIOR Support Tool, login and type the following:

registry IO/Inputs/din4/IncrementCounterOnInversion = true

NOTE: The 4 is the input number and valid values are 1 through 8 There is a space after the word registry and on both sides of the = sign above

Cinema.Jar Configuration – Devices and Macro Files

The details on how and why to use a Devices file and Macro file are described in detail in the Cinema.Jar Users Manual. The following provides a brief overview.

Devices File

You do not need a devices file to use Cinema.Jar. You only need a Devices file if you are going to control an external device such as a digital projector. In order to control one or more projectors or other 'devices', you must configure your devices file. Below is a sample devices file for controlling a projector.

Open Local File Ope	·	oshot <u>As Publish to JNIC</u> J.INTEGPG2\Applic	_	G'UNIOR Suppo	rt Tool\Files\de	vices_sample.csv	
Device Name	Device Type		IP Address	Port	Baud	Data Bits	F
Projector	BARCO BARCO	*	10.0.0.50	43728			
	CHRISTIE NEC NEC SERIES 2 USL JSD100 ETHEI DOLBY CP650 ETH DOLBY CP750 ETH DOLBY 3D DFC100	ERNET ERNET					
Add	emove	device fro	vice and t om the De ecific info	vice Type	column.	Enter the	e

NOTE: After you have created your devices, you must click on the Save As and then click on Publish to JNIOR to load the devices file to your JNIOR.

You may or may not have to restart Cinema.Jar after you upload your devices file. The JNIOR Support Tool may try to restart the program or the Cinema.Jar may try to ingest the new file. It all depends on the version of software you are running. To be safe, you can reboot the JNIOR.

Macro File

The macro file stores the macros to be executed on the JNIOR. You can create a variety of macros to control the digital projector, JNIOR outputs, other devices and to send data to the Cinema Server Client.



NOTE: After you have created your macros, you must click on the Save As and then click on Publish to JNIOR to load the macro file to your JNIOR.

You may or may not have to restart Cinema.Jar after you upload your macro file. The JNIOR Support Tool may try to restart the program or the Cinema.Jar may try to ingest the new file. It all depends on the version of software you are running. To be safe, you can reboot the JNIOR.

Testing a macro on the JNIOR

You can test the macros on the JNIOR by using the Macro Execution tool which is part of the JNIOR Support Tool. The Macro Execution tool can be launched by 'rightclicking' on your JNIOR in the Beacon tab and selecting Macro Execution or by going to the Tools pull down at the top and selecting Macro Execution.

File View	Tools	Options Beacon	Help	
Beacon Devid	М	lacro Execution	ditor Logs	Snapshot
Serial Numbe	c	ommand Line	ddress	SubnetMask

The Macro Execution tool is shown below. Type the name of your macro in the box (it is NOT case sensitive). You can test your macro on the JNIOR by clicking on the Connect button and the Send button. The Macro Execution tool will send the execute macro command to the JNIOR.

Macro Name Sender Tool

			HEX String
			2.242
Send	0.0 Send	0.0.0	P Address
		inior	Jser Name
		inior	assword
	sconnect	onnect Disco	С
	sconnect	inior innect Disco	Password

4 – Troubleshooting

After you have installed and configured your JNIOR, you may need to verify that everything is operating properly. The quickest way to check the JNIOR operation with the GDC server is to open a Telnet session using the JNIOR Support Tool. Right click on your JNIOR in the Beacon tab and select Telnet.

Query	•	
Configure	•	
Tools	•	Open Web Page
JNIOR List	•	Open Telnet
Reboot		Open FTP 63
		Open Classic Monitor, Configure, Control Application
		Open Task Manager Application
		Macro Execution
		Show JniorSysLog
		Set Time

After you login, you can type dir to see a list of the logs on the JNIOR.

You can look at a log by typing cat and the name of the log. For example,

cat jniorsys.log

This log will show the main GDC server connection and that the GDC has connected to the JNIOR and logged in. It may also note if the GDC has disconnected.



Two other helpful commands are ps and netstat

ps -

will list all the processes running on the JNIOR so you can see if Serial Control PLUS or Cinema.Jar is running

netstat -

will list all the connections to the JNIOR so you can see the main GDC connection to port 502 and either the Serial Control PLUS connection to port 9202 or the Cinema Server Client connection to port 9600.

JNIOR Command Lin	e mana	1.0 - 1.0	······································	1.1.211.1.1.4	Trees The second	
'onysJnior2 logi	n: jnior					
onysJnior2 pass						
°onysJnior2 /≻ p						
0: Idle Pr						
1: Network 2: System	Service					
	sh/serialcontrol.ja	ar.				
	/10.0.0.37:50615	**				
	:51.386 uptime					
onysJnior2 /> n						
	ctive (100 Mbps)					
erver/Connectio						
Local Port Re 1: 21	mote Port Remote 3	TP	State LISTEN			
1: 21 2: 9220			LISTEN			
3: 9200			LISTEN			
4: 80			LISTEN			
5: 443*			LISTEN			
6: 23			LISTEN			
7: 9202			LISTEN			
8: 23	50615 10.0.0.3	37	ESTABLISHED			
9: 9202	50612 10.0.0.3	37	ESTABLISHED			
encrypted sock	et					
T						
onysJnior2 />						
Discourse		0 231 23			Class	
Disconnect	TCP / IP + 10 . 0	. 0 . 231 23			Clear	Options -

JNIOR Application Note

JNIOR Command I	ine	contracted reflect lates.	
2: System 3: Run/fl 4: Web Se 5: Comman	Process rk Service n Lash/cinema.jar		
TonysJnior2 /> LAN connection Server/Connecti	active (100 Mbps)		
Local Port H 1: 21 2: 9220	Remote Port Remote IP 	State LISTEN LISTEN	_
3: 9200 4: 80		LISTEN LISTEN	E
5: 443*		LISTEN	
6: 23		LISTEN	
7: 80	50679 10.0.0.37	ESTABLISHED	
8: 23 9: 9203	50681 10.0.0.37	ESTABLISHED LISTEN	
10: 9203	50686 10.0.37	ESTABLISHED	
* encrypted soo TonysJnior2 />	cket		
Disconnect	TCP/IP • 10 . 0 . 0 . 2	31 23	Clear Options -