

ReQuest MediaPlayer UI

Control System Guide



Revised April 14, 2015

URLs

All ReQuest servers running 7.0.2.4944 or later have a new program in their web services called SendIR. While the name has "IR" in it, it is designed to allow for all ReQuest commands to be sent to the MPs and Servers via HTTP URL. It mimics what IR can do and is a one-way control, so we called it IR. This will always show you the list of commands that the server knows how to transmit to the UIs on clients that are attached. This will always be the best list.

```
http://<ip of server>/services/ARQService/sendir.php?help=list
```

The new ReQuest MediaPlayer UI functions all start with N03xxxx. For example, to apply the Blu-ray filter is showblurays, having N-code N030019. The format of the URL is as follows.

```
http://server/services/ARQService/sendir.php?ir=cmd&where=mpserial
```

server = IP address of ReQuest Server

cmd = the command name or N-code to send

mpserial = serial number of MediaPlayer

To complete our example, to instruct the MediaPlayer Plus MPP30010 connected to a ReQuest server at 10.1.3.18, you would send the following URL:

```
http://10.1.3.18/services/ARQService/sendir.php?ir=showblurays&where=MPP30010
```

You can command ALL of the MediaPlayers attached to a server to do the same thing at the same time by not specifying the MediaPlayer serial number and just the designation "mp".

```
http://server/services/ARQService/sendir.php?ir=showblurays&where=mp
```

If the command is to be processed by the local ReQuest server itself, for example to Pause the music, the URL is:

```
http://server/services/ARQService/sendir.php?ir=pause&where=arq
```

IR

Any of the Nxxxx commands can be sent to a ReQuest External IR device. Note that none of the ReQuest servers with internal IR receivers can receive these commands. Only the external USB IR dongle can receive IR commands in this format. A full listing in CSV format along with the CCF format of the command for import into various other remote devices is available on ReQuest servers by querying:

```
http://server/services/ARQService/sendir.php?ccf=csv
```

Binary Control or "Crestron" Format

All MediaPlayers and Intelligent Media Clients since their inception in 2008 are able to work with the ReQuest Binary Control format. These commands are sent in a specific format with a terminating byte sequence. Using the ReQuest Crestron base module, you can command the ReQuest Server and MediaPlayers with any of the N-code commands, in addition to the existing binary command protocols.

For example, the Crestron format for Cursor Up is `\x0B\x86\x5C\xD7\x7F\x7D`

You can send ANY of the ReQuest MP UI codes in this format `Nxxxxxx\x7F\x7D` directly targeting the IP address of the MediaPlayer and TCP/IP control port 3663.

Python Scripting Example

```
sock = socket.socket()
sock.setsockopt(socket.SOL_SOCKET, socket.SO_REUSEADDR, 1)
sock.connect(("10.1.2.150", 3663))
#sock.send("\x2B\x2C\x7C\x7D\x7F\x7D")
#sock.send("N021936\x7F\x7D")
sock.send("N03000A\x7F\x7D")
```

Searching

Searching, this is now handled by the control system sending a search command to the MP. If you launch Maestro on your iPad or computer, you will see a "More" button on the screen. When you click that, you get additional buttons including Sort Movies and a Search field. Why? Maintaining an on-screen keyboard and parsing logic for every language is a nearly impossible task. By putting the search terms on the iPad, or whatever, we use the native language and keyboards from the user's device.

You can send you own search request from your system by having your controller send this URL:

```
http://server/services/IMCService/action.php?
cmd=inject_ir&serial_num=mpserial&payload=N030022:searchterm
```

server = IP address of ReQuest server
mpserial = serial of MediaPlayer
searchterm = URL encoded search terms

For real-world example:

```
http://10.1.3.18/services/IMCService/action.php?cmd=inject_ir&serial_num=MP30030
&payload=N030022:mystery%20men
```

The server is at 10.1.3.18. The MP serial is MP30030 and the search phrase is mystery%20men. Note that the search phrase must be URL encoded.

Command Reference

Command	64-code	"N" Code	IR-Over-TCP-Code
adv		N021935	
allroomsoff	0218849E		
alt	02188298		
back	02181208	N021934	0BA65CF7 D31D01
bksp	02187F65	N02199F	29047E55
bottom	02188A90	N02199E	29847ED5
cancel	02181208	N021934	0BA65CF7 D31D01
clear	02189F85		
clearsearch		N030023	\x4e\x30\x33\x30\x30\x32\x33
continuouson	0218CED4		
copy	02183E24		
del		N02199F	
delete	02183C26		
down	02180A10	N021937	0B065C57 C241
edit	0218607A		
eject	02182C36	N021919	2B2C7C7D A10301
enter	02180D17	N021903	
enternoflip	0218D9C3		
eq	02187B61		
ff	0218D6CC	N021915	2B267C77 990101
gotoalbum	02181E04		
gotoartist	02181D07		
gotocd	02181A00		
gotonowplaying	02181F05		
gotoselected	0218D4CE		
gotosongs	02181C06		
help	02181903		
home	0218D3C9	N021926	8B86DCD7 ED41
info	02187C66		
intro	02187D67		
left	02180812	N021938	0BAC5CFD 4E42
letterjump		N030025	\x4e\x30\x33\x30\x30\x32\x35
lineinplay	0218E5FF		
lineinrec	0218D0CA		
menu		N021913	
menumode	02180319		
mode	0218011B		
modebrowse	0218B1AB		
modeplayer	0218B2A8		

next	0218D7CD	N021927	8B06DC57 5C0901
nextdiscfilter		N030026	\x4e\x30\x33\x30\x30\x32\x36
nextalbum	02189E84		
nextangle		N021922	8B8EDCDF 4F40
nextartist	02189D87		
nextaudio		N021916	2B867CD7 F40701
nextchap	0218D7CD	N021927	8B06DC57 5C0901
nextplaylist	0218E4FE		
nextsubtitle		N021902	AB8EFCDF 5E04
nextzone	0218C2D8		
off	0218716B	N02193D	
on	0218706A	N02193C	
pause	0218061C	N021920	8BAEDCFF 2C10
pauseoff	0218869C		
pauseon	0218CFD5		
pgdn	02181309	N02199C	29A47EF5
pgup	0218110B	N02199B	290C7E5D
play	02188D97	N021930	0BAE5CFF 360201
playflip	0218E9F3		AB0EFC5F 720301
popup		N0219FF	
power	0218041E	N021933	0B0E5C5F 3211
poweroff			0B245C75
poweron			0BA45CF5
prev	0218D5CF	N021910	2BAE7CFF D20301
prevalbum	0218E8F2		
prevartist	0218E7FD		
prevchap	0218D5CF	N021910	2BAE7CFF D20301
prevplaylist	0218E3F9		
prevzone	0218C1DB		
queue	02185C46		
randomoff	0218918B		
randomon	02189389		
reboot		N02193F	
record	0218071D		
repeat	0218160C		
repeatoff	0218968C		
repeaton	0218D2C8		
resetir	02189288		
rewind	0218D8C2	N021931	0B2E5C7F 950701
right	02180913	N021939	0B2C5C7D 560201
root		N021913	2B0E7C5F 9E0001 3110
search	02183B21		
select	0218140E		

shift	0218819B		
show3d		N030020	\x4e\x30\x33\x30\x30\x32\x30
showall		N030021	\x4e\x30\x33\x30\x30\x32\x31
showblurays		N030019	\x4e\x30\x33\x30\x30\x31\x39
showdvds		N030018	\x4e\x30\x33\x30\x30\x31\x38
showinfo		N030029	\x4e\x30\x33\x30\x30\x32\x39
showgrid		N030012	\x4e\x30\x33\x30\x30\x31\x32
showlist		N030013	\x4e\x30\x33\x30\x30\x31\x33
showmovies		N030011	\x4e\x30\x33\x30\x30\x31\x31
showsort		N030024	\x4e\x30\x33\x30\x30\x32\x34
shuffle	0218150F		
shuffleoff	0218958F		
shuffleon	0218D1CB		
sort	02185B41		
space	0218203A	N0219A0	89AEDEFF
step		N021935	0B265C77 D041
stop	0218051F	N021923	8B0EDC5F BA40
themes	02185E44		
togglegrid		N03000A	\x4e\x30\x33\x30\x30\x30\x41
top	02188B91	N02199D	29247E75
up	02180B11	N021936	0B865CD7 4E0101
visuals	02185D47		
voldown	02180F15		
volup	02180E14		
zone1	0218F1EB		

zone2	0218F2E8		
zone3	0218F3E9		
zone4	0218F4EE		
!	0218213B	N0219A1	892EDE7F
"	02182238	N0219A2	898EDEDf
#	02182339	N0219A3	890EDE5F
\$	0218243E	N0219A4	89A6DEF7
%		N0219A5	8926DE77
&	0218263C	N0219A6	8986DED7
'	0218273D	N0219A7	8906DE57
(02182832	N0219A8	89ACDEFD
)	02182933	N0219A9	892CDE7D
*	02182A30	N0219AA	898CDEDD
+	02182B31	N0219AB	890CDE5D
,	02182C36	N0219AC	89A4DEF5
-	02182D37	N0219AD	8924DE75
.	02182E34	N0219AE	8984DED5
/	02182F35	N0219AF	8904DE55
0	0218302A	N0219B0	09AE5EFF
1	0218312B	N0219B1	092E5E7F
2	02183228	N0219B2	098E5EDF
3	02183329	N0219B3	090E5E5F
4	0218342E	N0219B4	09A65EF7
5	0218352F	N0219B5	09265E77
6	0218362C	N0219B6	09865ED7
7	0218372D	N0219B7	09065E57
8	02183822	N0219B8	09AC5EFD
9	02183923	N0219B9	092C5E7D
:	02183A20	N0219BA	098C5EDD
;		N0219BB	090C5E5D
<		N0219BC	09A45EF5
=	02183D27	N0219BD	09245E75
>		N0219BE	09845ED5
?	02183F25	N0219BF	09045E55
@	0218405A	N0219C0	A1AEF6FF
A	0218415B	N0219C1	A12EF67F
B	02184258	N0219C2	A18EF6DF
C	02184359	N0219C3	A10EF65F
D	0218445E	N0219C4	A1A6F6F7
E	0218455F	N0219C5	A126F677
F	0218465C	N0219C6	A186F6D7
G	0218475D	N0219C7	A106F657

H	02184852	N0219C8	A1ACF6FD
I	02184953	N0219C9	A12CF67D
J	02184A50	N0219CA	A18CF6DD
K	02184B51	N0219CB	A10CF65D
L	02184C56	N0219CC	A1A4F6F5
M	02184D57	N0219CD	A124F675
N	02184E54	N0219CE	A184F6D5
O	02184F55	N0219CF	A104F655
P	0218504A	N0219D0	21AE76FF
Q	0218514B	N0219D1	212E767F
R	02185248	N0219D2	218E76DF
S	02185349	N0219D3	210E765F
T	0218544E	N0219D4	21A676F7
U	0218554F	N0219D5	21267677
V	0218564C	N0219D6	218676D7
W	0218574D	N0219D7	21067657
X	02185842	N0219D8	21AC76FD
Y	02185943	N0219D9	212C767D
Z	02185A40	N0219DA	218C76DD
[N0219DB	210C765D
\		N0219DC	21A476F5
]		N0219DD	21247675
^		N0219DE	218476D5
_	02185F45	N0219DF	21047655
`		N0219E0	81AED6FF
a	0218617B	N0219E1	812ED67F
b	02186278	N0219E2	818ED6DF
c	02186379	N0219E3	810ED65F
d	0218647E	N0219E4	81A6D6F7
e	0218657F	N0219E5	8126D677
f	0218667C	N0219E6	8186D6D7
g	0218677D	N0219E7	8106D657
h	02186872	N0219E8	81ACD6FD
i	02186973	N0219E9	812CD67D
j	02186A70	N0219EA	818CD6DD
k	02186B71	N0219EB	810CD65D
l	02186C76	N0219EC	81A4D6F5
m	02186D77	N0219ED	8124D675
n	02186E74	N0219EE	8184D6D5
o	02186F75	N0219EF	8104D655
p	0218706A	N0219F0	01AE56FF
q	0218716B	N0219F1	012E567F

r	02187268	N0219F2	018E56DF
s	02187369	N0219F3	010E565F
t	0218746E	N0219F4	01A656F7
u	0218756F	N0219F5	01265677
v	0218766C	N0219F6	018656D7
w	0218776D	N0219F7	01065657
x	02187862	N0219F8	01AC56FD
y	02187963	N0219F9	012C567D
z	02187A60	N0219FA	018C56DD
{		N0219FB	010C565D
		N0219FC	01A456F5
}		N0219FD	01245675
~	02187E64	N0219FE	018456D5