

# RiExerciser Home Networking Smoke Tests

RiExerciser home networking functionality can be used for streaming remote recordings, live channels and vpop. Below are basic tests for verifying HN functionality using RiExerciser. For a more comprehensive discussion on RiExerciser HN configurations, options and functionality please see [Home Networking Testing with RiExerciser](#).

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## Configuration

In \$OCAPROOT/bin/\$SOCAPTC/env configure final.properties and mpeenv.ini in the server and player to include:

- final.properties (server & player)  
  
`OCAP.hn.multicast.iface=eth0`  
  
`OCAP.hn.server.name=ServerName`  
  
`OCAP.hn.server.chunkEncodingMode=always`  
  
`OCAP.hn.server.vpop.enabled=true` *(only required for VPOP testing)*
- mpeenv.ini  
  
`HN.EXCLUDE.EXTRA.CHUNK.HEADERS=false`

## Playback a Remote Recording

1. Start the RiExerciser on the server and player.

```
> cd $PLATFORMROOT  
> ./runRI.sh -setup -xlet RiExerciser
```

2. On the server create a 30 second recording.

- Select Option 1, Display DVR Menu.
- Select Option 1, Start a Recording
- Select Option 1, Start 30-sec Instant Recording
- Wait for recording to complete. A recording complete message will display in the GUI log.

3. Publish the recording to the server's CDS.

- Return to the RiExerciser General Menu.
- Select Option 2, Display Home Networking Menu.
- Select Option 1, HN Server Options.
- Select Option 1, Display Publish Recording Menu.
- Select Option 1, Publish current recording to CDS.
- Wait for publishing to complete. A publish confirmation will display in the GUI log.

4. Playback the recording on the player.

- On the player, select Option 2, Display Home Networking Menu.
- Select Option 2, HN Player Options.
- Select Option 1, Display list of all Media Servers on a network.
- Select server from list in pop-up window. (Note: you will need to press the "Select" key on the remote to activate the window.)
- Select Option 2, Select Content Item for JMF playback OR Select Option 3, Select Remote Service for Playback.
- From pop-up menu select video container.
- From pop-up menu select recording for playback.
- Recording playback starts. Play, Pause, Rewind and Fast Forward should all be functional on the player.

## Live Streaming

1. Start the RiExerciser on the server and player.

```
> cd $PLATFORMROOT  
> ./runRI.sh -setup -xlet RiExerciser
```

## 2. Publish the channel to the server's CDS.

- On the server's RiExerciser General Menu, **Select Option 2, Display Home Networking Menu.**
- Select Option 1, HN Server Options.
- Select Option 2, Display Publish Channel Menu.
- Select Option 1, Publish current channel in CDS.
- Wait for publishing to complete. A publish confirmation will display in the GUI log.

## 3. Live stream server channel on the player.

- On the player, select Option 2, Display Home Networking Menu.
- Select Option 2, HN Player Options.
- Select Option 1, Display list of all Media Servers on a network.
- Select server from list in pop-up window. (Note: you will need to press the "Select" key on the remote to activate the window.)
- Select Option 2, Select Content Item for JMF playback OR Select Option 3, Select Remote Service for Playback.
- From pop-up menu select video container.
- From pop-up menu select channel for live streaming.
- Live streaming starts. Stream plays on player at 1x. Player stream should not lag server stream by more than 1 or 2 seconds. Play, Pause, Rewind and Fast Forward should all be functional on the player.

## VPOP

### 1. Start the RiExerciser on the server and player.

```
> cd $PLATFORMROOT  
> ./runRI.sh -setup -xlet RiExerciser
```

### 2. Stream VPOP on the player.

- On the player, select Option 2, Display Home Networking Menu.
- Select Option 2, HN Player Options.
- Select Option 1, Display list of all Media Servers on a network.
- Select server from list in pop-up window. (Note: you will need to press the "Select" key on the remote to activate the window.)
- Select Option 4, VPOP Player Test Menu Page. (Note: VPOP can also be streamed using JMF or Remote Service for playback).
- Select Option 1, Stream VPOP.
- VPOP starts. Stream plays on player at 1x. Play, Pause, Rewind and Fast Forward will NOT be functional on the player.
- Channel up on the server. The video on the player will change when video on the server changes.
- Playback a local recording on the server using DVR playback option. Recording playback will be streamed on the player.