

# Network Program / Satellite Rotation

Satellite programming can be a challenging task in this document we go through the steps of setting up a clock/rotation for running a satellite hour/s

## Requirements

1. Satellite receiver hooked up to a broadcast tools switcher for nextstart triggering
2. Pc with Nextkast installed and a soundcard to receive the satellite programming

## Creating the Rotation/Clock

We will start nkManager as select New Rotation. Each show will have slightly different approach but this should give you a general overview of how to set it up.

The screenshot shows two windows from the nkManager software. The left window, titled 'Rotation Clock Display', shows a circular clock face divided into segments. The segments are labeled with times and actions: 00:00 TOH, 00:25 startLineIn, 16:09 mergeExternalTrafficLog, 20:05 startLineIn, 36:25 mergeExternalTrafficLog, 40:25 startLineIn, and 56:25 mergeExternalTrafficLog. The right window, titled 'Editing Rotation: Show 1', contains a 'Rotation List' table and a 'Category List' grid. The 'Rotation List' table has columns for 'Sweeper', 'Category', and 'Time'. The 'Category List' grid shows various music categories like 'ads90', 'Classic', 'EDM Minute', etc., each with a corresponding icon.

Sweeper	Category	Time
	TOH	00:00
	startSerialListen	00:25
	sendSerialCommand	00:25
	startLineIn	00:25
	timeSync	16:00
	mergeExternalTrafficLog	16:00
	startLineIn	20:00
	timeSync	34:00
	mergeExternalTrafficLog	34:00
	startLineIn	38:00
	timeSync	54:00
	mergeExternalTrafficLog	54:00

1. TOH this can be a static top of hour audio file or a top of hour category
2. StartSerialListen sets up the communication between nextkast and broadcast tools to receive nextstart or other commands. We will go into the setup of this later
3. SendSerialCommand, in this case we are sending a serial command to the Broadcast tools switcher to switch to the audio channel the satellite programming is on.
4. We startLineIn, this takes the audio from a selected sound card specified and broadcast it though nextkast, the automation will wait in this state until a nextstart is called from the broadcast tools trigger there is also a way to specify time of linein duration as a backup means if no nextstart command is sent.
5. timeSync we tell the software our commercial break coming up is going to occur at the time we specify.
6. mergeExternalTrafficLog will merge traffic/ads from natural log and others for this stop set or time range.
7. Start Linein we go back to satellite programming and the cycle repeats until end of hour

For details on how to set up broadcast tools switcher to work with nextkast follow this link.  
<https://youtu.be/wyVB273rJ40> or <https://www.nextkast.com/BX/help/>