Using the Google Assistant to send commands to your AllStar Hamvoip Nodes.
I found an example from 4X5MG and added to it and edited it my way using
windows 10 based editing. I use WinSCP for making,editing, transfering files
to and from my Raspberry Pi AllStar Hamvoip Nodes.
After all is done you will need to port forward from the Internet to your
Raspberry Pi IP port 80, I used 88 on the street side and pointed it to 80
on the LAN side static IP for the Raspberry Pi Node.
Open an account with IFTTT.com and connect it to your google account same
as your google asisstant is connected to. The Google assistant I have looks like
a hamburger and is so amazing with the sound and loudness it plays music
and I can still command it to stop without shouting even with the music blasting.
The ; is used as a block to the software so a comment can be typed for help.
Don't add it to the programming, I put there to help explain things.
I used the 5 free IFTTT.com commands and my examples are below. 3 for my Allstar node
and 2 for my repeater node. Note the php name changes, google.php and repeater.php
After you are logged into your https://ifttt.com/ account click on:

Create
If This Add
Search Google Assistant
Say a Phrase with a Number
What do you want to say?
connect to #
;spacing is critical, no space before the c
What do you want the Assistant to say in response?
connecting to
;click on Create Trigger
Then That
; Webhooks in the search box
; click on Webhooks
; Click on Make a web request
URL ;put your info inplace of my example, this is how your raspberry is found.
;Remove the " before and after the password with no space after = and before &.
http://wa2kjc.freeddns.org:88/google.php?secret="passwordhere"&command=connect&node=
;Add Ingredient, NumberField
;Method Get
;Create Action
;Continue
;Finish

;Repeat the process for the disconnect from command.
Create
If This Add
Search Google Assistant
Say a Phrase with a Number
What do you want to say?
disconnect from #
What do you want the Assistant to say in response?
disonnecting from
;click on Create Trigger
Then That
; webhooks in the search box
; click on Webhooks
; Click on Make a web request
URL ;put your info inplace of my example, this is how your raspberry is found.
;Remove the " before and after the password with no space after = and before &.

```
http://wa2kjc.freeddns.org:88/google.php?secret="passwordhere"&command=disconnect&node=
;Add Ingredient, NumberField
;Method Get
;Create Action
;Continue
;Finish

;Repeat the process for the monitor command.
Create
If This Add
Search Google Assistant
Say a Phrase with a Number
What do you want to say?
monitor #
What do you want the Assistant to say in response?
monitoring
;click on Create Trigger
Then That
; webhooks in the search box
; click on Webhooks
; Click on Make a web request
URL ;put your info inplace of my example, this is how your raspberry is found.
;Remove the " before and after the password with no space after = and before &.
http://wa2kjc.freeddns.org:88/google.php?secret="passwordhere"&command=monitor&node=
;Add Ingredient, NumberField
;Method Get
;Create Action
;Continue
;Finish

;Repeat the process for the star command.Note the php changed to repeater.php
Create
If This Add
Search Google Assistant
Say a Phrase with a Number
What do you want to say?
star #
What do you want the Assistant to say in response?
sending dtmf
;click on Create Trigger
Then That
; webhooks in the search box
; click on Webhooks
; Click on Make a web request
URL ;put your info inplace of my example, this is how your raspberry is found.
;Remove the " before and after the password with no space after = and before &.
http://wa2kjc.freeddns.org:88/repeater.php?secret="passwordhere"&command=star&node=
;Add Ingredient, NumberField
;Method Get
;Create Action
;Continue
;Finish

;Repeat the process for the macro command.Note the php changed to repeater.php
Create
If This Add
```

Search Google Assistant
Say a Phrase with a Number
What do you want to say?
macro #
What do you want the Assistant to say in response?
requesting macro
;click on Create Trigger
Then That
; webhooks in the search box
; click on Webhooks
; Click on Make a web request
URL ;put your info inplace of my example, this is how your raspberry is found.
;Remove the " before and after the password with no space after = and before &.
http://wa2kjc.freeddns.org:88/repeater.php?secret="passwordhere"&command=macro&node=
;Add Ingredient, NumberField
;Method Get
;Create Action
;Continue
;Finish

;Now lets create your google.php file that gets accessed by IFTTT.com via
;your Public IP that has to be forwarded to your raspberry port 80.
;if your Public IP changes then you need to use freeddns.org like i do, there is
;a update app that you download to a computer on your lan and let it run automatically
;when your computer is online so your Public IP is updated.
;/srv/http is the directory in the Raspberry Pi that the following files are placed.
;I made two php files so i can control two nodes. I used WinSCP for editing.
;connect, disconnect, monitor,all point to google.php 40039, my AllStar node.
;macro, star, both point to repeater.php, my private node 5086 hosting my repeater.
;so I made two php files with different names and pointed to them with different commands.

;Google.php example:copy and paste to a file called google.php,make two necessary changes.
;$mynode = 'your node'
;if ($secret === "your supermon password"

```php
<?php
// Your node number
$mynode = '40039'; replace with your allstar node
// Getting the data
$command = htmlspecialchars($_GET["command"]);
$node = htmlspecialchars($_GET["node"]);
$secret = htmlspecialchars($_GET["secret"]);
if ($secret === "change this to your supermon password keep the quotes") {
// Debugging
echo $command."</br>";
echo $node."</br>";
// Removeing spaces from the node number
$node = preg_replace('/\s+/', '', $node);
// Executing connect sequence and logging to file
if ($command === "connect") {
$txt = $node;
exec('sudo asterisk -rx "rpt fun '.$mynode.' *3'.$node.'"');
$myfile = file_put_contents('logs.txt', $txt.PHP_EOL, FILE_APPEND | LOCK_EX);
}
// Executing disconnect sequence and logging to file
```

```php
if ($command === "disconnect") {
$txt = $node;
exec('sudo asterisk -rx "rpt fun '.$mynode.' *1'.$node.'"');
$myfile = file_put_contents('logs.txt', $txt.PHP_EOL, FILE_APPEND | LOCK_EX);
}
// Executing disconnect sequence and logging to file
if ($command === "monitor") {
$txt = $node;
exec('sudo asterisk -rx "rpt fun '.$mynode.' *2'.$node.'"');
$myfile = file_put_contents('logs.txt', $txt.PHP_EOL, FILE_APPEND | LOCK_EX);
}
}
?>
```

;Here is my Repeater.php example:Copy and paste to a file named repeater.php, make two
;necessary changes.
;$mynode = 'your node'
;if ($secret === "your supermon password"

```php
<?php
// Your node number
$mynode = '5086';this is my private node connected to my repeater, change to your node.
// Getting the data
$command = htmlspecialchars($_GET["command"]);
$node = htmlspecialchars($_GET["node"]);
$secret = htmlspecialchars($_GET["secret"]);
if ($secret === "your supermon password here") {
// Debugging
echo $command."</br>";
echo $node."</br>";
// Removeing spaces from the node number
$node = preg_replace('/\s+/', '', $node);
// Executing connect sequence and logging to file
}
if ($command === "star") {
$txt = $node;
exec('sudo asterisk -rx "rpt fun '.$mynode.' *'.$node.'"');
$myfile = file_put_contents('logs.txt', $txt.PHP_EOL, FILE_APPEND | LOCK_EX);
}
// Executing disconnect sequence and logging to file
if ($command === "macro") {
$txt = $node;
exec('sudo asterisk -rx "rpt fun '.$mynode.' *5'.$node.'"');
$myfile = file_put_contents('logs.txt', $txt.PHP_EOL, FILE_APPEND | LOCK_EX);
}
}
```

;End of php files, now when i say, ok google star 81, my repeater node 5086 keys up and
;plays the time and weather. Star is the same as sending a dtmf * followed by number keys.
;So what ever you have programmed in the rpt.conf [functions] can be commanded.
;you just speak the command, no need to fat finger the HT dtmf pad.
;If i say,ok google connect to 40198, my AllStar node 40039 connects to my friends AllStar
;node 40198. Because I added the word, to, to the connect command I can use upto 6 digits
;and there seems to be less confusion by google.
;If i say,ok google disconnect 40198, my node 40039 disconnects from node 40198.
;But I ocassionally cannot disconnect with more than 5 digits, I am asking for help.

```
;Monitor is like sending *2 followed by your numbers. Ok google monitor 40198
;Monitor only works with 5 digits or less, I am trying to get help fixing that as well.
;Macro is sending *5 followed by your numbers, so what ever you have in rpt.conf [macro]
;gets ran just by your voice command. Ok Google macro 971, is my playnewsline command.
;So if you have a node you like, ie, 506311 Blindhams, N2DYI than write a Macro for
;connecting and disconnecting.
;All this fun using your voice instead of a keypad and you don't have to move a muscle,
;just command google asisstant.
;I wrote a nice doucment on how to make voice files, 5 voice choices, so you could do
;localplay for just your node to hear or playback to make a global announcement that all
;connected nodes hear.
;nothing to do with telemetry being turned off, it will play. Here are some examples.
;684=localplay,/etc/asterisk/local/telemetryon
;686=localplay,/etc/asterisk/local/telemetryoff
;62=playback,/var/lib/asterisk/sounds/custom/parroton
;63=playback,/var/lib/asterisk/sounds/custom/parrotoff
;you can use a macro to combine these with a command so you have a voice reply to the
;command.
;So when you're done with these two files and put them in the raspberry Pi, /srv/http
folder
;You should be ready to test, or kick back and play.
Enjoy 73 Dave
WA2KJC
```