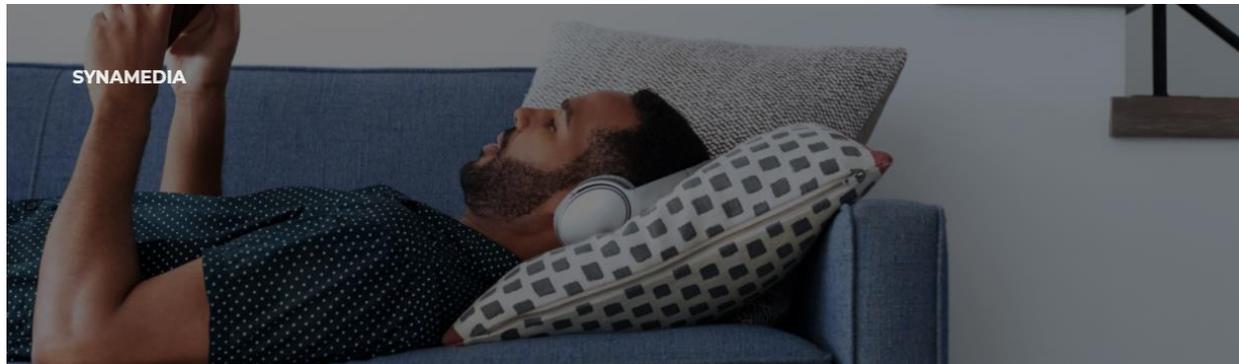


Synamedia



Quick Start Manual vDCM.info 2.0

Instruction Guidelines based on Use Cases

Quick Start Table of Content

- Setting up Premium Transcode Test using the UI menu..... 3
- Setting up an ABR Test using the UI menu 9
- Setting up a StatmuxTest using the UI menu 15
- Setting up a default ABR Test using the chatbot..... 21
- Setting up a Statmux Test using the chatbot..... 23
- Consulting Density Test Results..... 25
- Consulting VN-node Appliances information 26
- Consulting Pre-tested Premium Transcode Results..... 28

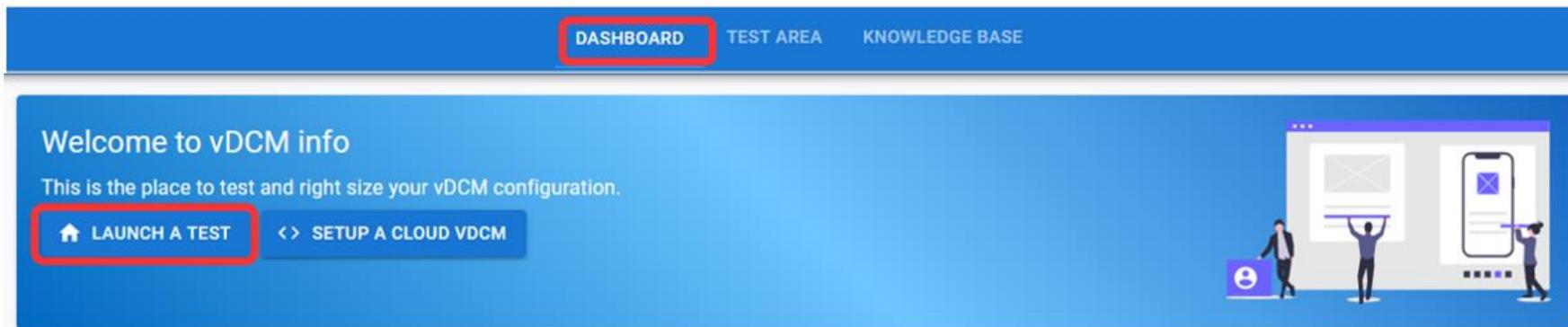
Synamedia

Setting up Premium Transcode Test using the UI menu

The use case used for illustration:

- Input: Chroma 4:2:0 8b, Resolution 1080p50
- Output: premium transcode with AVC codec, FHD, 5Mbps and with 2 audio channels Dolby Digital Plus

Step 1: Navigate from the dashboard to the tab(s) where you can define the configuration using the “LAUNCH A TEST” button.



This will create a test record in “DRAFT” mode. Any test record can be any combination of an ABR ladder, (multiple) Premium transcodes and/or a statmux configuration. In this use case, a single premium transcode configuration is tested.

Synamedia

Step 2: Select the "PREMIUM TRANSCODE" tab and add an entry by clicking on the "+ ADD PREMIUM TRANSCODE" option.

Density test
Draft

ABR TRANSCODE **PREMIUM TRANSCODE** STATMUX SUMMARY

+ ADD PREMIUM TRANSCODE

Source	Codec	Resolution	esRate [kbps]	Audio 1	Audio 2	Actions
--------	-------	------------	---------------	---------	---------	---------

Rows per page: 100 ▾ 0-0 of 0 < >

CANCEL DEPLOY START

Synamedia

Step 3: Modify the parameters according to your choice.

Density test

Draft

ABR TRANSCODE **PREMIUM TRANSCODE** STATMUX SUMMARY

+ ADD PREMIUM TRANSCODE

Source	Codec	Resolution	esRate [kbps]	Audio 1	Audio 2	Actions
4:2:0 8b 1080p50@15Mbps	H.264	FollowInput	5,000	DolbyDigitalPlus	DolbyDigitalPlus	  

Rows per page: 100 ▾ 1-1 of 1 < >

CANCEL DEPLOY START

Synamedia

Step 4: Select the "SUMMARY" tab to complete general test parameters.

Density test

Draft

ABR TRANSCODE

PREMIUM TRANSCODE

STATMUX

SUMMARY

Test description

Example of a premium test

Customer

Synamedia

Max CPU load [%] - Valid range [5 - 87] - Recommended Value = 87

87

CPU Selection VN Appliances

VN232-XXL: TBD

VN222-XXL: Dual AMD 7763

VN212-XXL: Not defined

VN122-XL: Single AMD 7763

VN111-XL: Dual Intel 6258R

VN-NODE-XL-2AC: Dual Intel 6254

VN122-L: Single AMD 7713P

VN111-L: Dual Intel 6240R

VN-NODE-L-2AC: Dual Intel 6240

VN122-M: Single AMD 7413

VN111-M0: Dual Intel 5218R

VN122-S: Single AMD 7313P

VN111-S0: Dual Intel 4210R

VN-NODE-S-2AC: Dual Intel 4210

VN121-XS: Single Intel E-2356G

VN111-XS: Single Intel E-2236

Other CPUs

Dual Intel Xeon 6330

Dual Intel Xeon E5-2697 v3

CANCEL

DEPLOY

START

Synamedia

Step 5: Finally, in the test configuration, select either “CANCEL”, “DEPLOY”, “START” or navigate away from the page

According to the action you perform:

- If you navigate away from the page, your test configuration will be stored in the database in “DRAFT” mode. You can edit/delete it any other time to complete the testing.
- Clicking on “CANCEL”: Your test record in draft mode will be deleted from the database.
- Clicking on “START”: the test configuration will be submitted without the possibility of tweaking it and pushed to the processing queue. There is no need to perform a manual “SUBMIT” action.
 - o Clicking on “DEPLOY”: Your test configuration will be deployed on a vDCM cloud instance. Before you actually submit the final test configuration, you can still tweak it on this cloud vDCM. The status can be tracked on the “TEST AREA” page.

DASHBOARD TEST AREA KNOWLEDGE BASE									
Period	User	Customer	Description	Url	Passphrase	Time left	Density test status		
>	<input type="checkbox"/>	Created ↓	User	Customer	Description	Url	Passphrase	Time left	Density test status
>	<input type="checkbox"/>	2024-01-16 10:30:38	jcodenie@synamedia.com	Synamedia	Example of a premium test	TBD	TBD	8	Deploying vDCM

- o It takes approximately 10 minutes until the configuration is deployed and the status changes to “Wait for Submit”
- o Use the URL and the Passphrase credentials to access the vDCM. The username is “Administrator”. You can now tweak the settings. When you are pleased with the settings, go back to vdcn.info and click the “SUBMIT” option. Your test will be pushed into the processing queue.

Period	User	Customer	Description	Url	Passphrase	Time left	Density test status		
>	<input type="checkbox"/>	Created ↓	User	Customer	Description	Url	Passphrase	Time left	Density test status
>	<input type="checkbox"/>	2024-01-16 10:30:38	jcodenie@synamedia.com	Synamedia	Example of a premium test	https://52.90.250.9	gYer5b7Oa6NE7f	171	Wait for Submit

Synamedia

- Once test capacity is available, the test status will change to “Testing”.

>	<input type="checkbox"/>	Created ↓	User	Customer	Description	VDCM Username Administrator	Passphrase	Time left	Density test status
>	<input type="checkbox"/>	2024-01-17 07:40:50	jcodenie@synamedia.com	Synamedia	Example of a Statmux test	N/A	N/A		Testing 

- When the test is finished, the status will change to “Done”. Use the “expand” icon to see the test results and the “eye” icon to see details

<input checked="" type="checkbox"/>	<input type="checkbox"/>	2024-01-17 07:40:50	jcodenie@synamedia.com	Synamedia	Example of a Statmux test	N/A	N/A	Done 
-------------------------------------	--------------------------	---------------------	------------------------	-----------	---------------------------	---------------------	-----	--

Test Results

Synamedia PID	CPU Architecture	OS Version	SW Version	Testing Density	Highest Pass	Lowest Fail
N/A	Dual_AMD_EPYC_9554_64-Core_Processor	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	4	5
N/A	Dual_Intel_Xeon_Silver_4210_CPU_2.20GHz	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	0	1
N/A	Dual_Intel_Xeon_Gold_6240_CPU_2.60GHz	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	0	1
N/A	Dual_Intel_Xeon_Gold_6254_CPU_3.10GHz	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	0	1

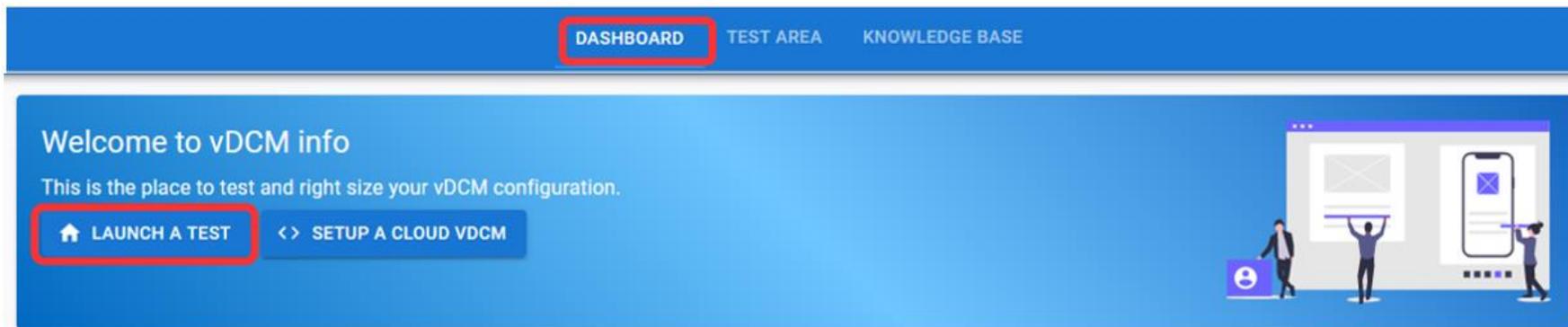
Synamedia

Setting up an ABR Test using the UI menu

The use case used for illustration:

- Input: Chroma 4:2:0 8b, Resolution 1080p50
- Output: 3 profiles with codec H.264 with 2 audio channels Dolby Digital Plus per profile

Step 1: Navigate from the dashboard to the tab(s) where you can define the configuration using the “LAUNCH A TEST” button.



This will create a test record in “DRAFT” mode. Any test record can be any combination of an ABR ladder, (multiple) Premium transcodes and/or a statmux configuration. In this use case, an ABR transcode configuration is tested.

Synamedia

Step 2: Select the “ABR TRANSCODE” tab and add the profiles by clicking on the “+ ADD VIDEO PROFILE” option.

Density test

Draft

ABR TRANSCODE PREMIUM TRANSCODE STATMUX SUMMARY

Input Source
4:2:0 8b 480i29.97@5Mbps

Audio Codec 1
Disable

Audio Codec 2
Disable

+ ADD VIDEO PROFILE

hRes	vRes	fps	Codec	esRate [kbps]	Actions
------	------	-----	-------	---------------	---------

Rows per page: 100 0-0 of 0

CANCEL DEPLOY START

Synamedia

Step 3: Modify the parameters according to your choice.

Density test

Draft

- ABR TRANSCODE**
- PREMIUM TRANSCODE
- STATMUX
- SUMMARY

Input Source: 4:2:0 8b 480i29.97@5Mbps

Audio Codec 1: DolbyDigitalPlus

Audio Codec 2: DolbyDigitalPlus

+ ADD VIDEO PROFILE

hRes	vRes	fps	Codec	esRate [kbps]	Actions
1920	1080	50	H.264	4000	
1920	1080	25	H.264	2000	
1280	720	25	H.264	2000	

Rows per page: 100 1-3 of 3

CANCEL DEPLOY START

Synamedia

Step 4: Select the "SUMMARY" tab to complete general test parameters.

Density test

Draft

ABR TRANSCODE PREMIUM TRANSCODE STATMUX **SUMMARY**

Test description

Example of an ABR test

Customer

Synamedia

Max CPU load [%] - Valid range [5 - 87] - Recommended Value = 87

87

CPU Selection VN Appliances

VN232-XXL: TBD

VN222-XXL: Dual AMD 7763

VN212-XXL: Not defined

VN122-XL: Single AMD 7763

VN111-XL: Dual Intel 6258R

VN-NODE-XL-2AC: Dual Intel 6254

VN122-L: Single AMD 7713P

VN111-L: Dual Intel 6240R

VN-NODE-L-2AC: Dual Intel 6240

VN122-M: Single AMD 7413

VN111-M0: Dual Intel 5218R

VN122-S: Single AMD 7313P

VN111-S0: Dual Intel 4210R

VN-NODE-S-2AC: Dual Intel 4210

VN121-XS: Single Intel E-2356G

VN111-XS: Single Intel E-2236

Other CPUs

Dual Intel Xeon 6330

Dual Intel Xeon E5-2697 v3

CANCEL

DEPLOY

START

Synamedia

Step 5: Finally, in the test configuration, select either “CANCEL”, “DEPLOY”, “START” or navigate away from the page

According to the action you perform:

- If you navigate away from the page, your test configuration will be stored in the database in “DRAFT” mode. You can edit/delete it any other time to complete the testing.
- Clicking on “CANCEL”: Your test record in draft mode will be deleted from the database.
- Clicking on “START”: the test configuration will be submitted without the possibility of tweaking it and pushed to the processing queue. There is no need to perform a manual “SUBMIT” action.
- Clicking on “DEPLOY”: Your test configuration will be deployed on a vDCM cloud instance. Before you actually submit the final test configuration, you can still tweak it on this cloud vDCM.
 - o The status can be tracked on the “TEST AREA” page.

Period	User	Customer	Description	vDCM Username	Passphrase	Time left	Density test status	
>	<input type="checkbox"/> Created ↓	User	Customer	Description	vDCM Username Administrator	Passphrase	Time left 9	Density test status Deploying vDCM
>	<input type="checkbox"/> 2024-01-16 13:12:23	jcodenie@synamedia.com	Synamedia	Example of an ABR test	TBD	TBD		

- o It takes approximately 10 minutes until the configuration is deployed and the status changes to “Wait for Submit”
- o Use the URL and the Passphrase credentials to access the vDCM. The username is “Administrator”. You can now tweak the settings. When you are pleased with the settings, go back to vdcn.info and click the “SUBMIT” option. Your test will be pushed into the processing queue.
Use the URL and the Passphrase credentials to access the vDCM. The username is “Administrator”. You can now tweak the settings. When you are pleased with the settings, go back to vdcn.info and click the “SUBMIT” option. Your test will be pushed into the processing queue.

Period	User	Customer	Description	vDCM Username	Passphrase	Time left	Density test status	
>	<input type="checkbox"/> Created ↓	User	Customer	Description	vDCM Username Administrator	Passphrase	Time left 171	Density test status Wait for Submit
>	<input type="checkbox"/> 2024-01-16 13:12:23	jcodenie@synamedia.com	Synamedia	Example of an ABR test	https://54.198.105.192	RhKr5ij2FH58ii		

Synamedia

- Once test capacity is available, the test status will change to “Testing”.

>	<input type="checkbox"/>	Created ↓	User	Customer	Description	vDCM Username Administrator	Passphrase	Time left	Density test status
>	<input type="checkbox"/>	2024-01-16 13:12:23	jcodenie@synamedia.com	Synamedia	Example of an ABR test	N/A	N/A		Testing

- When the test is finished, the status will change to “Done”. Use the “expand” icon to see the test results and the “eye” icon to see details

Period		User	Customer	Description					
Last 24 hours		jcode			COLUMNS + CREATE				
↓	<input type="checkbox"/>	Created ↓	User	Customer	Description	vDCM Username Administrator	Passphrase	Time left	Density test status
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2024-01-16 13:12:23	jcodenie@synamedia.com	Synamedia	Example of an ABR test	N/A	N/A		Done
Test Results									
Synamedia PID	CPU Architecture	OS Version	SW Version	Testing Density	Highest Pass	Lowest Fail			
N/A	Dual_AMD_EPYC_9554_64-Core_Processor	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	38	40			
N/A	Dual_Intel_Xeon_Gold_6254_CPU_3.10GHz	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	8	9			
N/A	Dual_Intel_Xeon_Gold_6240_CPU_2.60GHz	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	7	8			
N/A	Dual_Intel_Xeon_Silver_4210_CPU_2.20GHz	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	4	5			

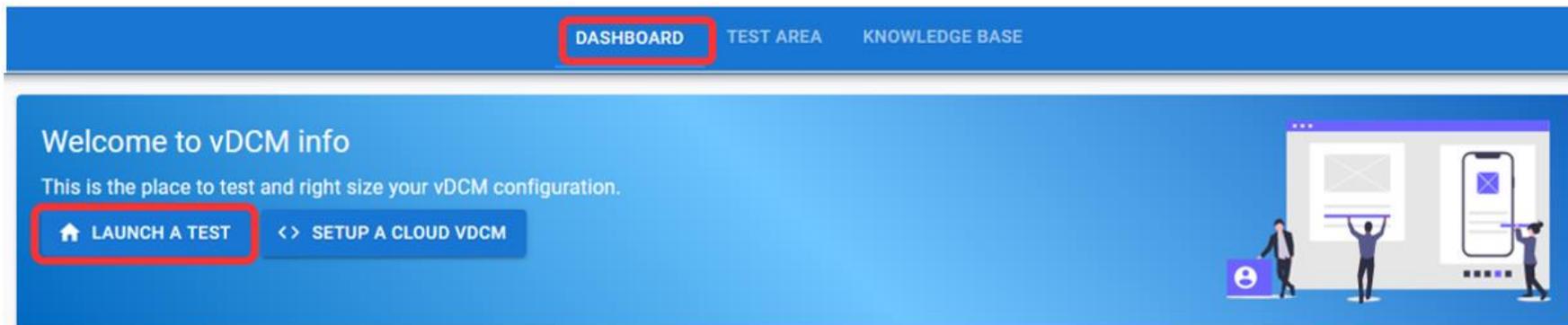
Synamedia

Setting up a Statmux Test using the UI menu

The use case used for illustration:

- 10 services in a statmux pool bandwidth of 20Mbps
- The input is 1080p50 4:2:0 8bit
- Codec is HEVC
- Output resolution is follow input
- No audio processing

Step 1: Navigate from the dashboard to the tab(s) where you can define the configuration using the “LAUNCH A TEST” button.



This will create a test record in “DRAFT” mode. Any test record can be any combination of an ABR ladder, (multiple) Premium transcodes and/or a statmux configuration. In this use case, a statmux test is defined.

Synamedia

Step 2: Select the "STATMUX" tab and add the services in the pool by clicking on the "+ ADD STATMUX SERVICE TO POOL" option.

Density test

Draft

ABR TRANSCODE PREMIUM TRANSCODE **STATMUX** SUMMARY

Pool bandwidth
10000 kBps

+ ADD STATMUX SERVICE TO POOL

Source	Codec	Resolution	Audio 1	Audio 2	Actions
Rows per page: 100 ▾ 0-0 of 0 < >					

CANCEL **DEPLOY** **START**

Tip : for identical settings you can use the copy icon

Source	Codec	Resolution	Audio 1	Audio 2	Actions
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  

Synamedia

Step 3: Modify the parameters according to your choice.

Density test

Draft

ABR TRANSCODE PREMIUM TRANSCODE **STATMUX** SUMMARY

Pool bandwidth
20000 kBps

+ ADD STATMUX SERVICE TO POOL

Source	Codec	Resolution	Audio 1	Audio 2	Actions
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  

1 row selected

Rows per page: 100 ▾ 1-10 of 10 < >

CANCEL **DEPLOY** **START**

Synamedia

Step 4: Select the "SUMMARY" tab to complete general test parameters.

Density test

Draft

ABR TRANSCODE

PREMIUM TRANSCODE

STATMUX

SUMMARY

Test description

Example of a Statmux test

Customer

Synamedia

Max CPU load [%] - Valid range [5 - 87] - Recommended Value = 87

87

CPU Selection VN Appliances

VN232-XXL: TBD

VN222-XXL: Dual AMD 7763

VN212-XXL: Not defined

VN122-XL: Single AMD 7763

VN111-XL: Dual Intel 6258R

VN-NODE-XL-2AC: Dual Intel 6254

VN122-L: Single AMD 7713P

VN111-L: Dual Intel 6240R

VN-NODE-L-2AC: Dual Intel 6240

VN122-M: Single AMD 7413

VN111-M0: Dual Intel 5218R

VN122-S: Single AMD 7313P

VN111-S0: Dual Intel 4210R

VN-NODE-S-2AC: Dual Intel 4210

VN121-XS: Single Intel E-2356G

VN111-XS: Single Intel E-2236

Other CPUs

Dual Intel Xeon 6330

Dual Intel Xeon E5-2697 v3

CANCEL

DEPLOY

START

Synamedia

Step 5: Finally, in the test configuration, select either “CANCEL”, “DEPLOY”, “START” or navigate away from the page

According to the action you perform:

- If you navigate away from the page, your test configuration will be stored in the database in “DRAFT” mode. You can edit/delete it any other time to complete the testing.
- Clicking on “CANCEL”: Your test record in draft mode will be deleted from the database.
- Clicking on “START”: the test configuration will be submitted without the possibility of tweaking it and pushed to the processing queue. There is no need to perform a manual “SUBMIT” action.
- Clicking on “DEPLOY”: Your test configuration will be deployed on a vDCM cloud instance. Before you actually submit the final test configuration, you can still tweak it on this cloud vDCM.
 - o The status can be tracked on the “TEST AREA” page.

DASHBOARD TEST AREA KNOWLEDGE BASE									
Period		User	Customer	Description	vDCM Username Administrator	Passphrase	Time left	Density test status	
>	<input type="checkbox"/>	Created ↓	User	Customer	Description	vDCM Username Administrator	Passphrase	Time left	Density test status
>	<input type="checkbox"/>	2024-01-17 07:40:50	jcodenie@synamedia.com	Synamedia	Example of a Statmux test	TBD	TBD	8	Deploying vDCM

- o It takes approximately 10 minutes until the configuration is deployed and the status changes to “Wait for Submit”
- o Use the URL and the Passphrase credentials to access the vDCM. The username is “Administrator”. You can now tweak the settings. When you are pleased with the settings, go back to vdcn.info and click the “SUBMIT” option. Your test will be pushed into the processing queue.

		Created ↓	User	Customer	Description	vDCM Username Administrator	Passphrase	Time left	Density test status	
>	<input type="checkbox"/>	2024-01-17 07:40:50	jcodenie@synamedia.com	Synamedia	Example of a Statmux test	https://3.87.155.97	9gt4VdEtC6Bzt4	171	Wait for Submit	<input type="button" value="SUBMIT"/>

Synamedia

- Once test capacity is available, the test status will change to “Testing”.

>	<input type="checkbox"/>	Created ↓	User	Customer	Description	vDCM Username Administrator	Passphrase	Time left	Density test status
>	<input type="checkbox"/>	2024-01-17 07:40:50	jcodenie@synamedia.com	Synamedia	Example of a Statmux test	N/A	N/A		Testing 

- When the test is final the status will change to “Done”. Use the “expand” icon to see the test results and the “eye” icon to see details

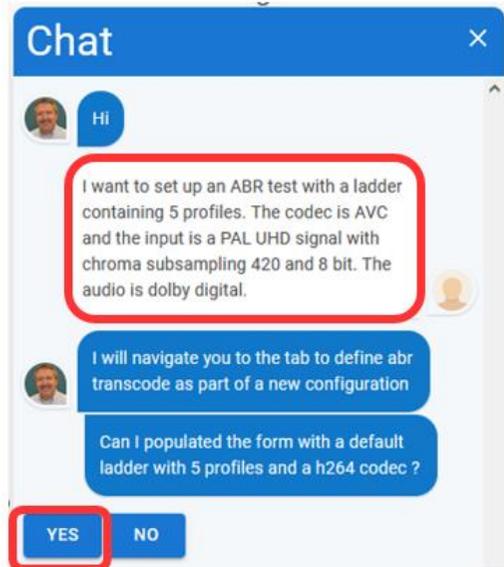
Period		User	Customer	Description					
Last 24 hours		jcode			COLUMNS + CREATE				
▼	<input type="checkbox"/>	Created ↓	User	Customer	Description	vDCM Username Administrator	Passphrase	Time left	Density test status
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2024-01-16 13:12:23	jcodenie@synamedia.com	Synamedia	Example of an ABR test	N/A	N/A		Done 
Test Results									
Synamedia PID	CPU Architecture	OS Version	SW Version	Testing Density	Highest Pass	Lowest Fail			
N/A	Dual_AMD_EPYC_9554_64-Core_Processor	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	38	40			
N/A	Dual_Intel_Xeon_Gold_6254_CPU_3.10GHz	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	8	9			
N/A	Dual_Intel_Xeon_Gold_6240_CPU_2.60GHz	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	7	8			
N/A	Dual_Intel_Xeon_Silver_4210_CPU_2.20GHz	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	4	5			

Synamedia

Setting up a default ABR Test using the chatbot

The chatbot function can be used to quickly populate the “ABR TRANSCODE” form with a pre-defined ladder. The ladder can be tweaked afterwards with menu actions in the form.

Step 1: Open the chatbot icon () on the lower right side of the page and give a textual description of the desired ABR ladder, mentioning the number of profiles, the codec and the input signal (resolution, frame rate, chroma). There is no need to specify the individual parameters of all profiles. If not all information is provided the chatbot will launch follow up question(s). After confirmation, a pre-defined ladder will be filled in the UI page which can be tweaked to your specific use case.



Confirm the action by clicking on yes

Synamedia

Step 2: proceed in the menu to tweak and submit the test as described in the section “Setting up an ABR Test using the UI menu”

Density test

Draft

ABR TRANSCODE PREMIUM TRANSCODE STATMUX SUMMARY

Input Source
4:2:0 8b 2160p50@15Mbps

Audio Codec 1
DolbyDigital

Audio Codec 2
DolbyDigital

+ ADD VIDEO PROFILE

hRes	vRes	fps	Codec	esRate [kbps]	Actions
1,920	1,080	50	H.264	7,830	✎ 🗑️ 📄
1,920	1,080	25	H.264	3,250	✎ 🗑️ 📄
1,280	720	50	H.264	6,000	✎ 🗑️ 📄
1,280	720	25	H.264	4,830	✎ 🗑️ 📄
1,280	720	25	H.264	3,000	✎ 🗑️ 📄

Rows per page: 100 1-5 of 5 < >

CANCEL DEPLOY START

You can also use the chatbot to update codec in bulk for all profiles

please update the video codec to h.265

Can I update the form by updating the abrcodec to h265

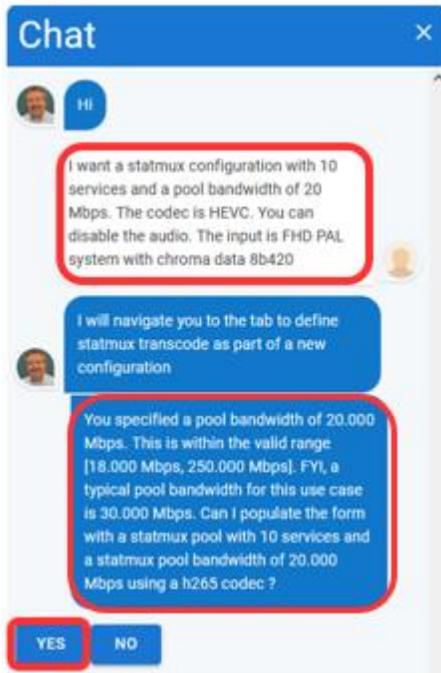
YES NO

Synamedia

Setting up a Statmux Test using the chatbot

The chatbot function can be used to quickly populate the “STATMUX” form with a pre-defined ladder. The ladder can be tweaked afterwards with menu actions in the form.

Step 1: Open the chatbot icon () on the lower right side of the page and give a textual description of your statmux configuration mentioning pool bandwidth, codec, audio and input parameters like resolution, frame rate and chroma information. If not all information is provided the chatbot will launch follow up question(s). Check the response in chat window for possible violations of the specified parameters.



The chat bot response will include some data validation on the pool bandwidth value.

Synamedia

Use the menu to tweak the values and to submit your test as explained in the section “Setting up a Statmux Test using the UI menu”.

Density test

Draft

ABR TRANSCODE PREMIUM TRANSCODE **STATMUX** SUMMARY

Pool bandwidth
20000 kBps

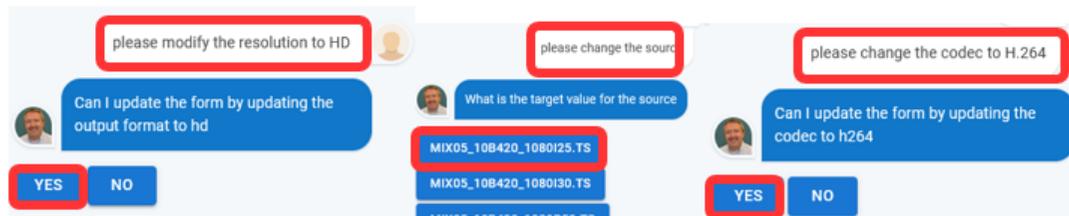
[+ ADD STATMUX SERVICE TO POOL](#)

Source	Codec	Resolution	Audio 1	Audio 2	Actions
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  
4:2:0 8b 1080p50@15Mbps	H.265	FollowInput	Disable	Disable	  

Rows per page: 100 1-10 of 10 < >

CANCEL **DEPLOY** **START**

Alternatively, you can use the chatbot to perform bulk actions to change values on all services with a single command. Below are some examples. The chatbot will check the validity of the pool bandwidth.



Synamedia

Consulting Density Test Results

Test results can be consulted on the “TEST AREA” tab

Use the filters to limit the test list.

Use the expand icon to show the result summary

If you are a test owner, you can :

- Delete a test. It is good practice to regularly check/clean up your tests in Draft state
- Edit the test when it is in “Draft” status by clicking on the pencil icon

All users can:

- Duplicate a test by clicking on the “pencil-icon”. As a result, a new test record is created in “Draft” state with prepopulated configuration tab
- View test results when the test is in “Done” state and clicking on the “eye-icon”

The screenshot shows the 'TEST AREA' tab in the Synamedia interface. At the top, there are navigation tabs: DASHBOARD, TEST AREA (highlighted), and KNOWLEDGE BASE. Below the navigation is a filter bar with fields for Period, User, Customer, and Description. A table below shows a list of tests. The first test is selected, and the 'DUPLICATE' and 'DELETE' buttons are visible. The second test is expanded to show detailed results.

Created [UTC]	User	Customer	Description	vDCM Username Administrator	Passphrase	Time left	Density test status
2024-01-19 11:59:52	jcodenie@synamedia.com	Synamedia	Test In Draft	TBD	TBD		Draft
2024-01-19 09:33:19	jcodenie@synamedia.com	Synamedia	H.264 + H.264 HDT premium transcode	N/A	N/A		Done

Test Results						
Synamedia PID	CPU Architecture	OS Version	SW Version	Testing Density	Highest Pass	Lowest Fail
N/A	Dual_AMD_EPYC_9554_64-Core_Processor	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	29	31
N/A	Dual_Intel_Xeon_Gold_6254_CPU_3.10GHz	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	6	7
N/A	Dual_Intel_Xeon_Gold_6240_CPU_2.60GHz	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	5	6
N/A	Dual_Intel_Xeon_Silver_4210_CPU_2.20GHz	Rocky Linux 9.2 (Blue Onyx)	V23.00.00	None	3	4

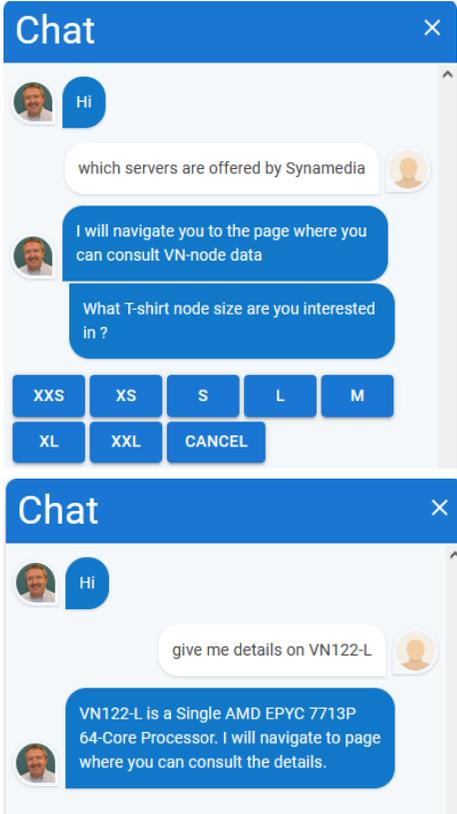
Consulting VN-node Appliances information

Navigate to the tab “KNOWLEDGE BASE”, sub page “APPLIANCES” for the overview. You can click on a specific PID to get more detailed information

DASHBOARD TEST AREA KNOWLEDGE BASE								
APPLIANCES PREMIUM TRANSCODE								
PID	Description	Threads	Cores	Sockets	Base frequency	Memory	Power	List price
VN-NODE-L-2AC	Dual Intel(R) Xeon(R) Gold 6240 CPU @ 2.60GHz	72	36	2	2.6	96	603	15,500
VN-NODE-M-2AC	Dual Intel(R) Xeon(R) Gold 5218 CPU @ 2.30GHz	64	32	2	2.3	96	528	13,000
VN-NODE-S-2AC	Dual Intel(R) Xeon(R) Silver 4210 CPU @ 2.20GHz	40	20	2	2.3	64	463	8,500
VN-NODE-XL-2AC	Dual Intel(R) Xeon(R) Gold 6254 CPU @ 3.10GHz	72	36	2	3.1	96	754	24,000
VN-NODE-XXS-2AC	*Single Intel(R) Xeon(R) E-2236 CPU @ 3.40GHz	12	6	1	3.4	64	200	5,110
VN111-L0	Dual Intel(R) Xeon(R) Gold 6240R CPU @ 2.40GHz	96	48	2	2.4	96	603	15,500
VN111-M0	Dual Intel(R) Xeon(R) Gold 5218R CPU @ 2.10GHz	80	40	2	2.1	96	528	13,000
VN111-S0	Dual Intel(R) Xeon(R) Silver 4210R CPU @ 2.40GHz	40	20	2	2.4	64	463	8,500
VN111-XL	Dual Intel(R) Xeon(R) Gold 6258R CPU @ 2.70GHz	112	56	2	2.7	96	754	24,000
VN111-XS	Single Intel(R) Xeon(R) E-2236 CPU @ 3.40GHz	12	6	1	3.4	64	200	5,110
VN121-XS	Single Intel(R) Xeon(R) E-2356G CPU @ 3.20GHz	12	6	1	3.2	64	200	0
VN122-L	Single AMD EPYC 7713P 64-Core Processor	128	64	1	2	128	350	0
VN122-M	Single AMD EPYC 7413 24-Core Processor	48	24	1	2.65	128	150	0
VN122-S	Single AMD EPYC 7313P 16-Core Processor	32	16	1	3	128	100	0
VN122-XL	Single AMD EPYC 7763 64-Core Processor	128	64	1	2.45	128	410	0
VN132-XL	Single AMD EPYC 9654P 96-Core Processor	192	96	1	2.4	128	540	0
VN222-XXL	Dual AMD EPYC 7763 64-Core Processor	256	64	2	2.45	128	800	0

Synamedia

As an alternative you can also use the chatbot functionality. Use phrases like below



Synamedia

Consulting Pre-tested Premium Transcode Results

A limited number of pre-tested Premium Transcode Results is available in a table. Note however that these results are less accurate than actual tests and that not all combinations are tested.

Best practice is to launch a test case for your specific use case configuration. The pre-tested table is to be used with caution !

Navigate to the “KNOWLEDGE BASE” tab and select “PREMIUM TRANSCODE”

Fill in the filters from left to right. If you leave the “SWVersion” filter blank all results will be shown

The screenshot shows the Synamedia Knowledge Base interface. At the top, there are three tabs: DASHBOARD, TEST AREA, and KNOWLEDGE BASE. The KNOWLEDGE BASE tab is selected. Below the tabs, there are two sub-tabs: APPLIANCES and PREMIUM TRANSCODE. The PREMIUM TRANSCODE sub-tab is selected. Below the sub-tabs, there are several filter controls: InputFormat (1080i25), InputChroma (420), InputBit (8), OutputCodec (H.264), ES Rate [Kbps] (5000), and OutputFormat (1080i25). Below these filters, there are two more filter controls: Profile (Main) and SwVersion. Below the filters, there is a table with the following columns: Output Codec, ES Rate [kbps], Output Format, Profile, and SwVersion. The table contains four rows of data. At the bottom right of the table, there is a 'Rows per page' dropdown menu set to '1-4 of 4'.

>	Output Codec	ES Rate [kbps]	Output Format	Profile	SwVersion
>	H.264	5000	1080i25	Main	20.2.0
>	H.264	5000	1080i25	Main	21.1.1
>	H.264	5000	1080i25	Main	21.3.0
>	H.264	5000	1080i25	Main	22.0.0

Synamedia

Expand the SW version of interest to see the results

 H.264	5000	1080i25	Main	21.3.0
Test Results				
Synamedia PID	CPU Architecture	Density		
VN222-XXL	Dual AMD EPYC 7763 64-Core Processor	79		
VN122-XL	Single AMD EPYC 7763 64-Core Processor	38		
VN122-L	Single AMD EPYC 7713P 64-Core Processor	36		
N/A	Dual Intel(R) Xeon(R) Gold 6330 CPU @ 2.00GHz	31		
VN111-XL	Dual Intel(R) Xeon(R) Gold 6258R CPU @ 2.70GHz	28		
VN111-L0	Dual Intel(R) Xeon(R) Gold 6240R CPU @ 2.40GHz	24		
VN-NODE-XL-2AC	Dual Intel(R) Xeon(R) Gold 6254 CPU @ 3.10GHz	20		
VN111-M0	Dual Intel(R) Xeon(R) Gold 5218R CPU @ 2.10GHz	18		
VN-NODE-L-2AC	Dual Intel(R) Xeon(R) Gold 6240 CPU @ 2.60GHz	18		
N/A	Dual Intel(R) Xeon(R) CPU E5-2697 v3 @ 2.60GHz	12		
VN111-S0	Dual Intel(R) Xeon(R) Silver 4210R CPU @ 2.40GHz	10		
VN-NODE-S-2AC	Dual Intel(R) Xeon(R) Silver 4210 CPU @ 2.20GHz	9		
VN111-XS	Single Intel(R) Xeon(R) E-2236 CPU @ 3.40GHz	5		
N/A	Single Intel(R) Xeon(R) E-2386G CPU @ 3.50GHz	4		