Webinar: An Ecosystem Expanded – New Core Processors

1) In the "distributed topology" model what would be the reason(s) to interconnect the individual Cores? What information would they exchange?
One of the most common signals shared between Cores in a distributed topology is non-sync audio, such as background music, which is often shared between the entire multiplex system via Core to Core streaming components. Another would be control and monitoring capability. It can be beneficial to have the ability to monitor the status of amplifiers and loudspeakers throughout the complex from one central location as well.

2) Will there be separate "Cinema" versions like the 110c and 510c versus the 110f and 510i?
No, at this time, there are no plans to create “cinema” versions of these new Core Processors.

3) Is it correct that a DCIO/ DCIO-H is still needed to get AES into the Q-SYS ecosystem?
In many cases, yes. This would be the most typical case in a cinema situation. One could also use an I/O-Frame. However, when using a Dolby CP 850 for instance, or an IMS-3000 for an ATMOS setup, a DCIO / DCIO-H would not be necessary.
If more analog I/O is needed when using an IMS-3000, for instance, for HI/VI, microphone inputs, etc., a Core 8 Flex, I/O 8 Flex, or I/O-Frame, would be a good addition to your system.

4) When using one Core processor per screen is there a method to use a centralized UCI to monitor and control all Cores/screens?
Yes, this is possible using control scripting although we are currently exploring additional options in this area. Please contact one of our application engineers who can advise you on how to do this properly.
One Q-SYS user has found that Control-Link components can be used, without scripting, to pass UCI information between Cores to have one Core effectively have UCIs for all screens/cores.

5) Are there any plans to allow USB to Ethernet adapters for the Core 110c/f and these new Cores to allow for a 3rd network in addition to LAN A and B?
We are looking into this area but there is nothing definite at this time; however a 3rd network port is available on the Core 510c for redundancy or a management network.

6) What is your best recommendation to incorporate Global PA capability?
Our Core-to-Core streaming features allow us to send audio throughout the entire multiplex. This could be audio from an internal audio player in Q-SYS, an external source connected to one of the Cores such as an iPod or live streaming event, and we also have the ability to handle live and pre-recorded paging using the internal audio recorder, virtual page station, and PA router components inside of Q-SYS.

7) When are these shipping?
The Core Nano and Core 8 Flex processors should be available by year end 2020.

8) What would be the advantage of using Core 8 Flex in a rolling AV cart instead of IO-8Flex? The Core would not use Dynamic Pairing to extend your I/O, right?
Are the peripherals on the cart connected to the Core in the room, or does it need to have standalone capabilities to be used elsewhere in the complex also? If the cart will be "roaming" it would be a good idea to use the Core 8 Flex on the cart.

9) What is the price difference between the Core Nano and the core 8 Flex?
Please contact your QSC Dealer for pricing information which should be released sometime in October, 2020.

10) When using these new Cores in a business music application what kind of media playback capacity does Q-SYS provide?
Similar to the Core 110c, these Cores offer 16 track playback, expandable up to 32 tracks with optional license. Storage capacity can be expanded as well.

11) The Core Nano and 8 Flex offer up to 32 x 32 Dante audio channels. Is this in addition to the 64 x 64 Q-LAN / AES67 network channel capacity?
No, any Dante channels that are used would count against the 64 x 64 network channel capacity.

12) Is it possible to utilize Q-LAN, AES67 and Dante simultaneously?
Yes.

13) Which version of Q-SYS Designer Software will support the new Cores?
Q-SYS Designer v8.5

14) Is licensing still required for scripting and UCI deployment?
Yes, Q-SYS Scripting Engine & Q-SYS UCI Editor licenses would be required when applicable.

15) Is Q-SYS compatible with generic network switches, or are the NS Series switches required?
Q-SYS is compatible with any generic network switch. The Q-SYS NS Series network switches are intended for users who are not comfortable with switch configuration and would prefer to deploy something that is pre-configured and ready 'out-of-the-box'.

16) Does the Core Nano / 8 Flex include the mounting hardware?
Yes, all mounting hardware is included in the box.

17) Can a Q-SYS Core Nano or Core 8 Flex be a redundant backup for a Core 110c, assuming no physical I/O?
No, only like Cores can be made redundant pairs.

18) How many Media Stream Receivers do the Core Nano and Core 8 Flex support?
They support 12 x 12 media or WAN streams.