



## SOLUTION BRIEF

# Next Generation Media/Conferencing VNF

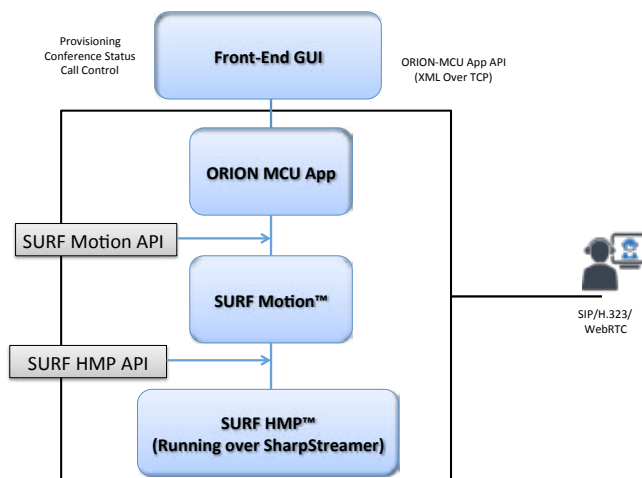
### Now 10x the channels and 7x the conferences of legacy solutions

- Compatible with servers and cloud-based implementations
- 84 HD full-duplex video channel transcoding density (720p/30) per SharpStreamer PCI Express add-on card
- 28 concurrent conferences (720p/30)
- Up to 4K 60fps supported
- Broad media and signaling protocol support
- Supports WebRTC for OTT
- Supports diverse applications: leverage initial investment to build additional income sources
- Extremely easy-to-use API

Artesyn Embedded Technologies and the SURF-HMP™ platform have revolutionized cost, performance and functionality via superb 4K video resolutions, and ultra-high capacity voice and video transcoding, mixing and processing on the Artesyn dense *SharpStreamer™* Intel® based GPU accelerated processor card. Available in a wide variety of licensing models, SURF-HMP serves evolving and large-scale deployments, driven-by a powerful multimedia processing engine which facilitates a multitude of applications including

conferencing, transcoding, bridging, MRF, playout, recording, messaging, video surveillance, VoIP GW and more. The solution is instrumental in bridging the WebRTC “battle between codecs” – supporting any-to-any transcoding between H.264, H.265, VP8 and VP9 codecs. It also solves signaling and termination gap challenges, and is a key building-block when interconnecting between legacy / incumbent operator networks and emerging WebRTC environments, delivering on the promise of cloud-based media processing.

### Application and Interface Model



Supported CODECS
H.264
H.265
VP8
VP9
Supported Resolutions
4K/60
1080p/60
1080p/30
720p/30
WVGA/30



## SharpStreamer™ Video Accelerator Card



As shown here, the *SharpStreamer™* based SURF-HMP™ performance is far superior to competitive alternatives based on the TI architecture when measured in full-duplex video transcoding and concurrent conference capability. Also, compared to the capacity of standard HMP servers, the SharpStreamer GPU-accelerated implementation delivers significant CapEx and OpEx savings.

HMP™ is a comprehensive platform enabling the development of any multimedia service (conferencing, transcoding, play-out, recording, messaging, termination, bridging and more), while supporting many codec and signaling protocols.

SURF-HMP utilizes COTS Intel® processors on the Artesyn SharpStreamer PCI Express add-on card, bringing cost-effective performance to media processing. Compared to 8 channels of 720p30 video on the legacy solution, the SharpStreamer card delivers 84 channels, a 10x increase in density. Likewise the SharpStreamer product delivers 28 concurrent conferences running at 720p30, a 7x increase compared to the legacy product. The increase in density provides a direct cost reduction to service providers, increasing per stream profitability.

SURF and Artesyn — bringing performance and cost benefits to next generation media systems.

### About Surf

*SURF* is a leader in multimedia technologies and solutions, delivering the engine behind the leading multimedia servers, IPBXs and gateways. SURF-HMP is available at both the code writing level and easy-to-use API levels (GUI based – providing fastest time-to-market development), through a variety of licensing options.

[www.artesyn.com](http://www.artesyn.com)

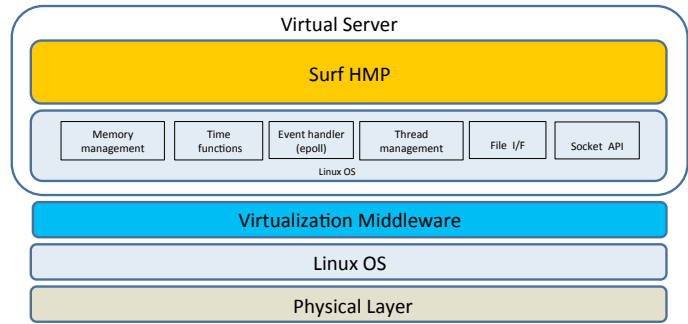
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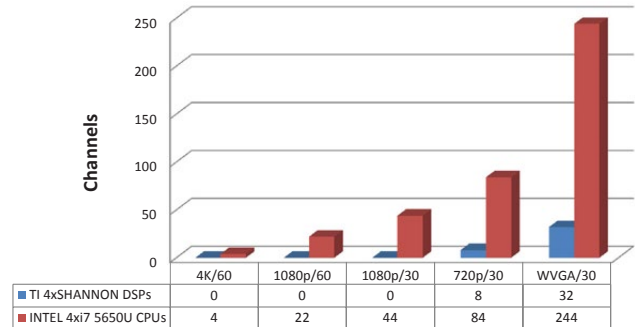
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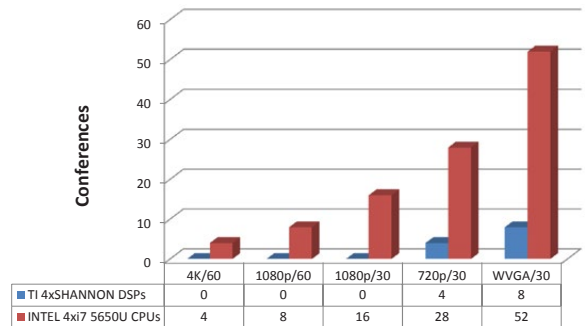
## SURF-HMP™ Virtualization Model



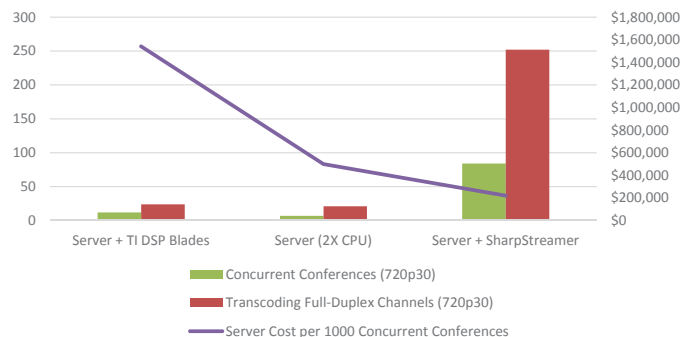
### Transcoding Full-Duplex Video Channels



### Concurrent Conferences



### Lower Cost, Higher Capacity



**ARTESYN™**  
EMBEDDED TECHNOLOGIES