



## **INFORMATIONAL MEMORANDUM**

**TO: Finance & Governance Committee**

**FROM: Technology and Innovation Services**

**BY: Joel Bush, Chief Technology Officer**

**CC: Mayor Ekberg**

**DATE: July 1, 2022**

**SUBJECT: City of Tukwila Public Educational and Governmental (PEG) Channel - Channel 21 Update**

### **ISSUE**

The infrastructure used to broadcast content to the City of Tukwila's PEG Channel, Channel 21, needs modernization. To ensure the reliability of broadcasting of Council Meeting to Channel 21 the End-of-Life Infrastructure must be replaced.

### **BACKGROUND**

The City of Tukwila's Franchise Agreement with Comcast stipulates that they provide a Channel for Governmental use. The current Channel 21 infrastructure (CASTUS Corporation) was initially installed in the Council Chambers in November of 2014. The system was tested until the end of the year and began streaming live Council meetings in January of 2015. The system is comprised of two servers, one for live streaming and another for hosting the Video on Demand (VOD) of previous meetings and other TV content. The initial cost for the system was \$26,660. The city currently pays a yearly support and maintenance fee of \$1,200 and a yearly VOD hosting and live streaming services fee of \$2,194.50.

### **DISCUSSION**

Staff has researched other local municipalities use of PEG channels. PEG channels are used by our neighboring Cities to broadcast City Council Meetings. A few cities are populating channel 21 with additional free programming. Currently, staff currently does not see a viable alternative to replacing Channel 21.

Fully populating Channel 21 with content will require staff time to curate content. Competing priorities prevent staff from populating Channel 21 with additional programming.

Staff has been in discussion with the Tukwila School District's Audio/Visual program to provide student created content on Channel 21. Fully populating Channel 21 with content could improve utilization but will require staff time to curate content. Competing priorities prevent staff from fully populating Channel 21 with content at this time.

**FINANCIAL IMPACT**

Estimated Costs for Upgrading CASTUS Channel 21 Infrastructure:

CASTUS QuickCast Server replacement:	\$9,995.05
VOD Server replacement with Cloud Service:	<u>\$2,999.00</u>
Total 1 <sup>st</sup> year Expenditure:	\$12,994.05
Ongoing yearly Cloud Service	\$2,999.00
Ongoing yearly maintenance	<u>\$1,200.00</u>
Total ongoing costs:	\$4,199.00

**RECOMMENDATION**

Information Only

**ATTACHMENTS**

Castus Estimates



**CASTUS Corporation**  
 165 NE Juniper Street Suite 200  
 Issaquah, WA 98027 US  
 (800) 215-3880  
 nathan@castus.tv  
 castus.tv

**ADDRESS**

Scott Kirby  
 City of Tukwila  
 6200 Southcenter Blvd  
 Tukwila, WA 98788 USA

**SHIP TO**

Scott Kirby  
 City of Tukwila  
 6200 Southcenter Blvd  
 Tukwila, WA 98788 USA

**ESTIMATE #** 1562

**DATE** 01/07/2022

**EXPIRATION DATE** 02/28/2022

**SHIP VIA**

UPS

**SALES REP**

Nathan Bosseler

DESCRIPTION	QTY	RATE	AMOUNT
CASTUS QuickCast 4th Generation- Single Channel IP/HDSDI Video Server One HDSDI / IP Inputs QuickCast channel has (1) multicast output for IP out Schedule creator and editor interface- yearly, monthly, weekly or daily Block scheduler interface for automated scheduling Web interface with confidence monitors and audio meters Multi file format support- ZERO transcoding Support for- RTMP, SRT, HLS, NDI & more Supports Live Closed Captions and Side Car files- VTT, SCC, MCC & More Connects to routing switching- Black Magic and more Playlist and multi-region playlist creator/editor Output to Facebook and Youtube live Connect to CASTUS Cloud Services (CCS) Generate online schedule guide to embed on website Video editor for assembling and trimming clips RSS crawl overlay capability File manager library Audio input and automatic background music detection Built in audio normalization for outputs 8 global overlays per channel HDMI preview channel DVD to file rip utility  Hardware: Super fast processor, dense form factor and extremely reliable 2RU server grade chassis 2RU chassis with server grade power supply 4TB storage included (single drive) *RAID 1 with 8TB upgrade available 8GB RAM (1) HDSDI Output (1) HDSDI Input 250GB SSD for CASTUS OS 24X DVD-RW  INCLUDES 3 YEAR HARDWARE WARRANTY Customer Loyalty Discount- 10%	1	9,995.00	9,995.00T
	1	-999.50	-999.50T

QuickCast upgrade for the City of Tukwila (WA). For questions please contact- nathan@castus.tv.	SUBTOTAL	8,995.50
	TAX (0.1)	899.55
	SHIPPING	100.00
	<b>TOTAL</b>	<b>\$9,995.05</b>

Accepted By

Accepted Date



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NA

**SALES REP**

Nathan Bosseler

DESCRIPTION	QTY	RATE	AMOUNT
CASTUS Cloud Services Video On Demand (NO ABR) 720p	1	2,999.00	2,999.00
CASTUS Cloud Portal for control panel and admin access Easy upload web interface to CASTUS Cloud (AWS) Auto transcode to 720p .mp4 Detailed analytics for individual videos and batch reports Ability to index and chapterize videos Access to download .mp4 HD video files for free Options for further customization			
Front End Video Guide- Easy to navigate home pages with playlists and live categories. Search function with 'smart word' search Ability to feature videos and playlists Customizable home screen and banner User account management with social engagement (like, dislike and comment) Social media sharing tools Desktop and mobile supported interfaces			
Cloud Specs- CDN with unlimited number of live viewers Unlimited number of embedable LIVE HLS streams (Live channels) 2TB storage limit with file manager (each additional TB \$100 per month) Auto transcode to downloadable .mp4 file			
Recurring monthly renewal (on credit card)- \$259 Recurring annual renewal- \$2,999			
OR	1	0.00	0.00T
Choose between one of three Video On Demand Packages 720P, 1080P or Adaptive Bit-Rate (ABR)			
CASTUS Cloud Services Video On Demand 1080P	1	3,999.00	3,999.00
CASTUS Cloud Portal for control panel and admin access Easy upload web interface to CASTUS Cloud (AWS) Auto transcode to 1080p .mp4 Detailed analytics for individual videos and batch reports Ability to index and chapterize live meetings and video files Access to download .mp4 HD video files for free Options for further customization			
Front End Video Guide- Easy to navigate home pages with playlists and live categories. Search function with 'smart word' search Ability to feature videos and playlists Customizable home screen and banner User account management with social engagement (like, dislike and comment) Social media sharing tools Desktop and mobile supported interfaces			
Cloud Specs- CDN with unlimited number of live viewers Unlimited number of embedable LIVE HLS streams (Live channels)			

DESCRIPTION	QTY	RATE	AMOUNT
2TB storage limit with file manager (each additional TB \$100 per month) Auto transcode to downloadable .mp4 file			
Recurring monthly renewal (on credit card)- \$329 Recurring annual renewal- \$3,899			
OR	1	0.00	0.00T
Choose between one of three Video On Demand Packages 720P, 1080P or Adaptive Bit-Rate (ABR)			
CASTUS Cloud Services Video On Demand 4 Profile Adaptive Bit-Rate (ABR)	1	5,099.00	5,099.00
CASTUS Cloud Portal for control panel and admin access Easy upload web interface to CASTUS Cloud (AWS) Auto transcode to Adaptive Bit Rate (ABR)- 4 profiles Detailed analytics for individual videos and batch reports Ability to index and chapterize live meetings and video files Access to download .mp4 HD video files for free Options for further customization			
Front End Video Guide- Easy to navigate home pages with playlists and live categories. Search function with 'smart word' search Ability to feature videos and playlists Customizable home screen and banner User account management with social engagement (like, dislike and comment) Social media sharing tools Desktop and mobile supported interfaces			
Cloud Specs- CDN with unlimited number of live viewers Unlimited number of embedable LIVE HLS streams (Live channels) 4TB storage limit with file manager (each additional 2TB is \$100/mo) Auto transcode to ABR with access to downloadable .mp4 files			
Recurring monthly renewal (on credit card)- \$429 Recurring annual renewal- \$5,099			

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Video On-Demand and Live streaming annual packages. Choose between one of three Video On Demand Packages: 720P, 1080P or Adaptive Bit-Rate (ABR). For questions please contact-nathan@castus.tv.	SUBTOTAL	12,097.00
	TAX (0.1)	0.00
	<b>TOTAL</b>	<b>\$12,097.00</b>

Accepted By

Accepted Date