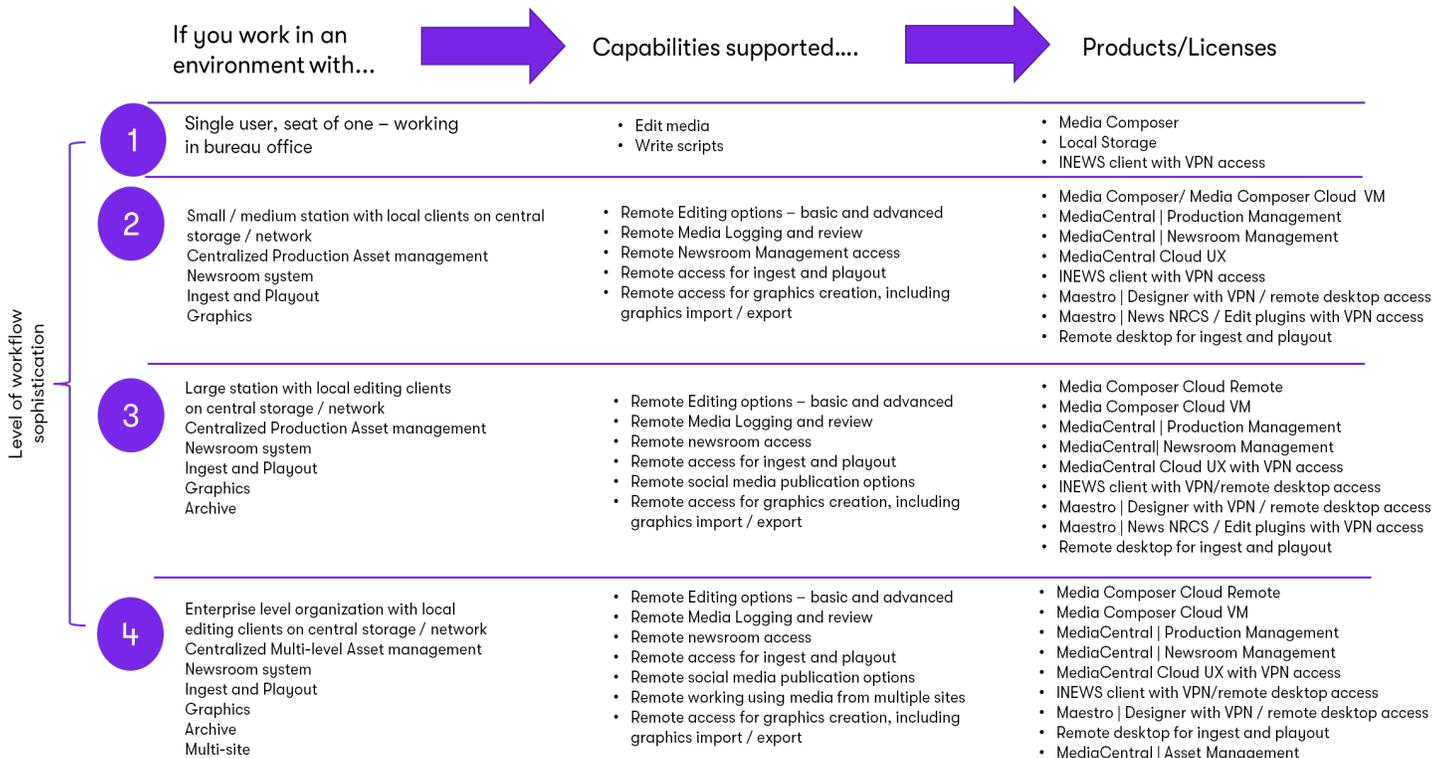Recently, some Avid customers have expressed an interest in keeping their production teams operational in spite of COVID-19, highlighting the need for "work from home" solutions.

Avid offers customers a wide range of powerful remote workflow and collaboration tools. Remote workflow approaches will vary by the type of work being done. This document is designed to create awareness of these capabilities and related best practices, tips and tricks.

Broadcast and News

Level of workflow sophistication	If you work in an environment with...	Capabilities supported....	Products/Licenses
1	Single user, seat of one – working in bureau office	• Edit media • Write scripts	• Media Composer • Local Storage • INEWS client with VPN access
2	Small / medium station with local clients on central storage / network Centralized Production Asset management Newsroom system Ingest and Playout Graphics	• Remote Editing options – basic and advanced • Remote Media Logging and review • Remote Newsroom Management access • Remote access for ingest and playout • Remote access for graphics creation, including graphics import / export	• Media Composer/ Media Composer Cloud VM • MediaCentral	Production Management • MediaCentral	Newsroom Management • MediaCentral Cloud UX • INEWS client with VPN access • Maestro	Designer with VPN / remote desktop access • Maestro	News NRCS / Edit plugins with VPN access • Remote desktop for ingest and playout
3	Large station with local editing clients on central storage / network Centralized Production Asset management Newsroom system Ingest and Playout Graphics Archive	• Remote Editing options – basic and advanced • Remote Media Logging and review • Remote newsroom access • Remote access for ingest and playout • Remote social media publication options • Remote access for graphics creation, including graphics import / export	• Media Composer Cloud Remote • Media Composer Cloud VM • MediaCentral	Production Management • MediaCentral	Newsroom Management • MediaCentral Cloud UX with VPN access • INEWS client with VPN/remote desktop access • Maestro	Designer with VPN / remote desktop access • Maestro	News NRCS / Edit plugins with VPN access • Remote desktop for ingest and playout
4	Enterprise level organization with local editing clients on central storage / network Centralized Multi-level Asset management Newsroom system Ingest and Playout Graphics Archive Multi-site	• Remote Editing options – basic and advanced • Remote Media Logging and review • Remote newsroom access • Remote access for ingest and playout • Remote social media publication options • Remote working using media from multiple sites • Remote access for graphics creation, including graphics import / export	• Media Composer Cloud Remote • Media Composer Cloud VM • MediaCentral	Production Management • MediaCentral	Newsroom Management • MediaCentral Cloud UX with VPN access • INEWS client with VPN/remote desktop access • Maestro	Designer with VPN / remote desktop access • Remote desktop for ingest and playout • MediaCentral	Asset Management

Solution: MediaCentral Cloud UX

Fully deployable Production Management solution

Allows all levels of experience to create Media Composer compatible edits, in a customized but simplified interface.

Fully scalable

Flexible deployment options: Servers, VM, Cloud

Flexible Licensing: permanent or subscription

Also capable of extending out to provide remote solutions for modern newsrooms

Considerations:

Larger deployment footprint

Requires customer have modern professional production needs

More Information:

http://avid.force.com/pkb/articles/en_US/user_guide/MediaCentral-CloudUX-Documentation

Solution: MediaCentral Asset Management

Provides industry leading solution for the most demanding and complex media environments

Fully integrates with MediaCentral | Cloud UX interface

Provides bespoke workflow deployments that can encompass on and off prem resources

Highly flexible

Considerations:

Requires thought through deployment

Supports needs of the most demanding and complex customers

More Information:

http://avid.force.com/pkb/articles/en_US/readme/Avid-MediaCentral-Asset-Management-Documentation

Most MediaCentral tools can also be used over remote desktop of solutions like TeamViewer

Solution: Deliver over VPN

Web clients

MediaCentral UX

MediaCentral | Cloud UX

MAM desktop

Avid NEXIS Admin Client

Thick Clients, require install and licensing

Access, Interplay Administrator

iNEWS client

MAM Cataloger

Web Client Bandwidth Requirements MediaCentral UX over VPN

Proxy Setting (16:9, 30 fps)			Bandwidth Needs		
Width	Quality	Value	Peak	Valley	Typical
	Best	80	15.400Mbps	5.080Mbps	9.480Mbps
	Good	40	11.295Mbps	4.179Mbps	6.529Mbps
560 px	Better	60	14.868Mbps	5.023Mbps	8.547Mbps
	Best	80	21.009Mbps	6.694Mbps	12.284Mbps
	Good	40	14.324Mbps	5.029Mbps	8.098Mbps
640 px	Better	60	18.991Mbps	6.131Mbps	10.735Mbps
	Best	80	27.011Mbps	8.315Mbps	15.616Mbps
	Good	40	17.757Mbps	5.993Mbps	9.878Mbps
720 px	Better	60	23.664Mbps	7.338Mbps	13.215Mbps
	Best	80	33.814Mbps	10.152Mbps	19.392Mbps
	Good	40	30.480Mbps	9.566Mbps	16.472Mbps
960 px	Better	60	40.980Mbps	12.046Mbps	22.405Mbps
	Best	80	59.028Mbps	16.959Mbps	33.385Mbps

Bandwidth Requirements

The following table presents single-user bandwidth requirements for MediaCentral Platform playback. The table is provided for guidance, and is not an indication of performance guarantees.

Proxy Setting (16:9, 30 fps)			Bandwidth Needs		
Width	Quality	Value	Peak	Valley	Typical
	Good	40	5.400Mbps	2.520Mbps	3.440Mbps
348 px	Better	60	6.600Mbps	2.840Mbps	4.380Mbps
	Best	80	9.000Mbps	3.480Mbps	5.690Mbps
	Good	40	6.400Mbps	2.840Mbps	4.690Mbps
400 px	Better	60	8.200Mbps	3.320Mbps	5.000Mbps
	Best	80	11.650Mbps	4.200Mbps	6.780Mbps
	Good	40	8.400Mbps	3.320Mbps	4.985Mbps
480 px	Better	60	11.400Mbps	3.880Mbps	6.300Mbps

With Cloud UX as a web client, connected via VPN remotely to home base, the following capabilities are possible:

Ingest Media Files using the MediaCentral | Cloud UX Ingest App

Access and browse proxy of any content on Production Management, Newsroom Management, Graphics and Asset Management modules

Send to Playback, Send / Restore to and from Archive

Publish to social Media Platform

For social Media Workflow, MediaCentral | Cloud UX Publisher App offers a SaaS based portal accessible without VPN that allows users to:

See and manage any content already uploaded to the Publisher SaaS service

Browse Content from Production Management and trigger upload to the Publisher SaaS platform

Solution: Maestro | DESIGNER REMOTE WORKFLOWS

Maestro | Designer can run remotely with a suitable laptop / desktop and license; remote desktop is also possible using a fast connection

Maestro | Designer licensing options support software license (no dongle), dongle and local license or floating license (via VPN)

Customers could be issued with temporary software licenses to permit artists to work on scene and Maestro | News Page content without transferring dongles out of production facilities

Considerations:

With VPN access users can:

Access SharedData (scene files) can be remotely for both loading / saving scenes

Access MediaCentral | Asset Management via VPN to use media stored remotely and to transfer scenes to central storage

Without VPN access users can:

Work with local SharedData and use Scene Import / Export to transfer completed scenes to the production SharedData for playout, preserving all scene properties

Solution: Maestro | NEWS REMOTE WORKFLOWS

Maestro | News Controller could work in a VPN enabled environment that would permit connection to template database, NRCS systems, production graphics assets and Maestro | Engine hardware

Assumes stable and fast internet connection

Communication between gallery staff during live production would be challenging

Viewing PGM output to maintain broadcast integrity would be challenging

Maestro | Live could work in a VPN environment with connection to production graphics assets and Maestro | Engine hardware with similar challenges to Maestro | News

Maestro | News integration with web clients would permit VPN users to access plugins for:

MediaCentral UX

MediaCentral | Cloud UX

Maestro | News plugins for NRCS, Edit workflows based on thick clients would require installation and licensing on systems with VPN access