

AMPP Support for NDI



What is NDI?

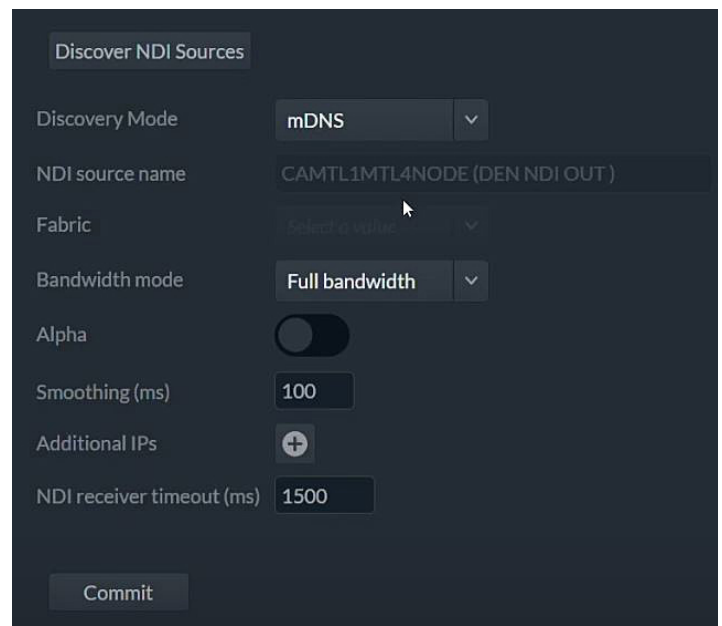
NDI is a network protocol that enables audio, video and metadata signals to be sent over standard IP networks in real time. NDI is bidirectional, low latency, and can transmit high-quality compressed video up to 4K and beyond. Free to use, NDI provides more than just a transport. It allows for control of devices like PTZ cameras, capturing video feeds directly from the network to use in editing, and defines a standard for encoding and decoding. Native support of NDI video-over-IP technology within AMPP provides several unique benefits for other NDI users.

Assisted Discovery

AMPP's NDI Discovery Service allows operators to automatically find and list all NDI sources running on the available network. This includes "external" sources, which may not be currently loaded on any AMPP fabric. Any NDI source on the network can then be quickly added to an AMPP router panel or dashboard and routed, mixed or processed like any other source. Key frames from the NDI sources as visible within AMPP services and the sources can be given local name labels.

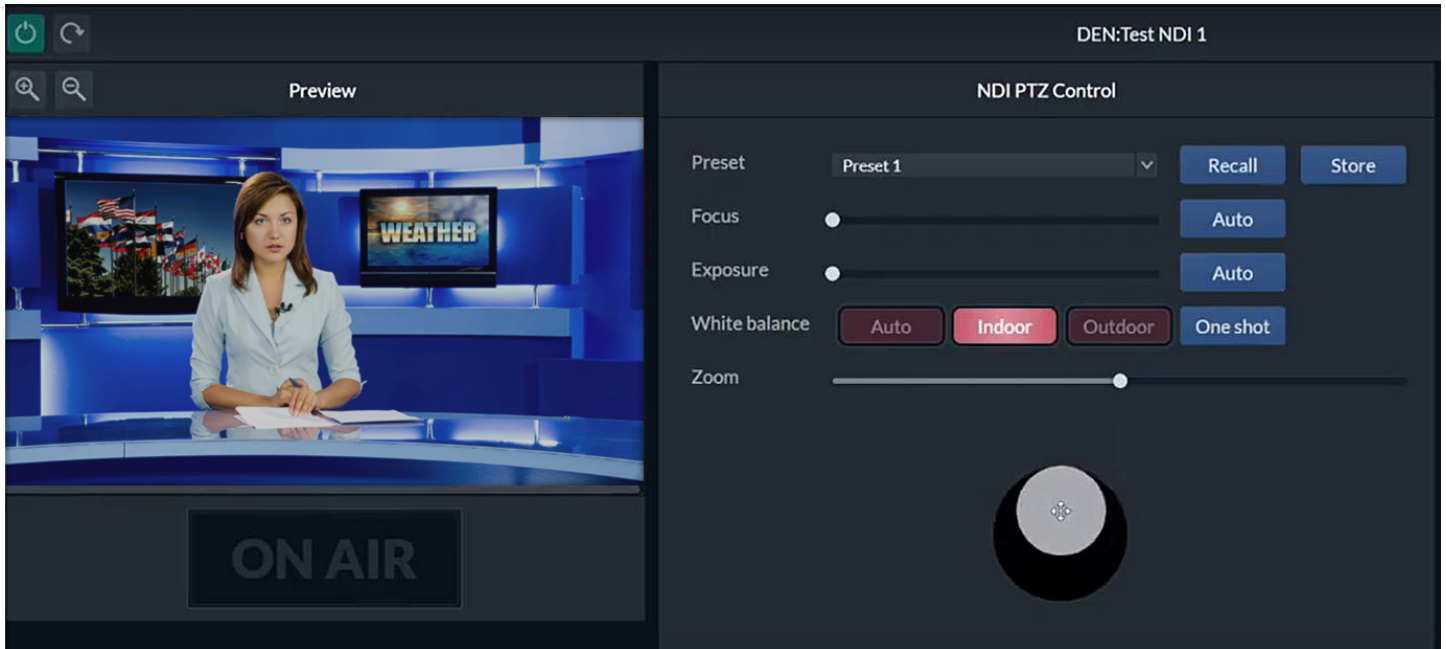
Alpha Channel Support

Many advanced graphics providers are now providing key and fill within a single NDI output stream. These streams are easily added into productions using the AMPP platform.

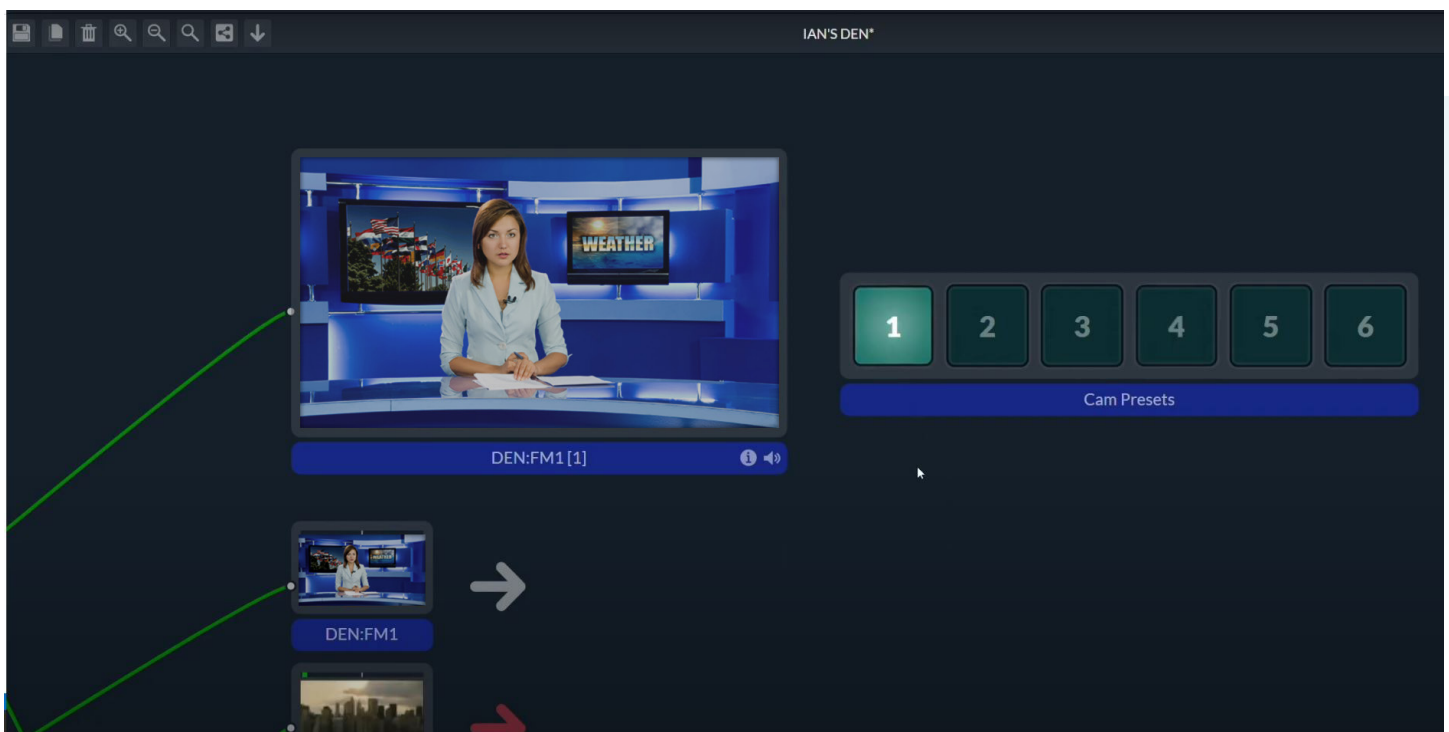


PTZ Camera Controls

Now you can remotely control your PTZ cameras even if they're halfway around the world. When an NDI signal originating from a PTZ camera is assigned, a control section automatically appears on the main page of the NDI input workload in the AMPP interface. The control section provides adjustment for camera focus, exposure, white balance and zoom as well as a joystick for pan and tilt. The preview key frames or an AMPP flow monitor show the results of the control changes.



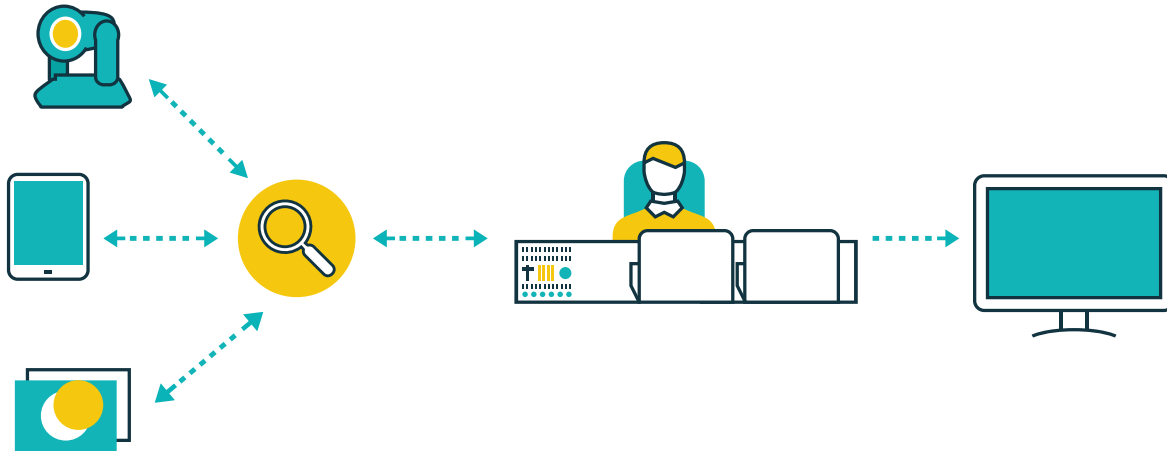
This control section also allows store and recall of camera presets. Adding buttons for camera presets to a flow monitor makes it simple to quickly change the remote camera settings and watch the changes on the monitor as they occur. Preset buttons could also be placed into a Dashboard, Live Producer, or assigned to an external Maverik panel of Stream Deck – anywhere you can issue an AMPP control message.



Contribution from web conferencing and phones or tablets

Contribution from personal remote sources can be problematic due to the variety of formats and devices. AMPP now offers the option to support MS Teams and other conferencing technologies using NDI|HX.

By loading the NDI|HX app onto a mobile device such as a phone or tablet, the cameras from these devices are used as webcams to provide contribution sources into the production.



Note: AMPP supports NDI version 5.0 and NDI|HX 2 and 3 natively on the input side, and using the NDI Bridge on the output side.

This product may be protected by one or more patents. For further information, please visit: www.grassvalley.com/patents

TB-PUB-3-1034A-EN

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