

# Application Note

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## CCS-TRAX Router follow option for RCP-CCS-1U

### Description

CCS-TRAX provides the integration of router source selection and upstream processing product control. It simplifies workflow in master control and quality control stations, speeding up the access to the controls of devices upstream from the router and dramatically minimizes the possibility of mistakes. CCS-TRAX can save both time and money for the customer.

Any broadcaster with live feeds will route incoming feeds to a quality control station where audio and video levels are adjusted and audio/video timing errors are corrected before going to air. CCS-TRAX will ensure that the controls for the device upstream of the router source are immediately displayed on the control panel (RCP-CCS-1U).

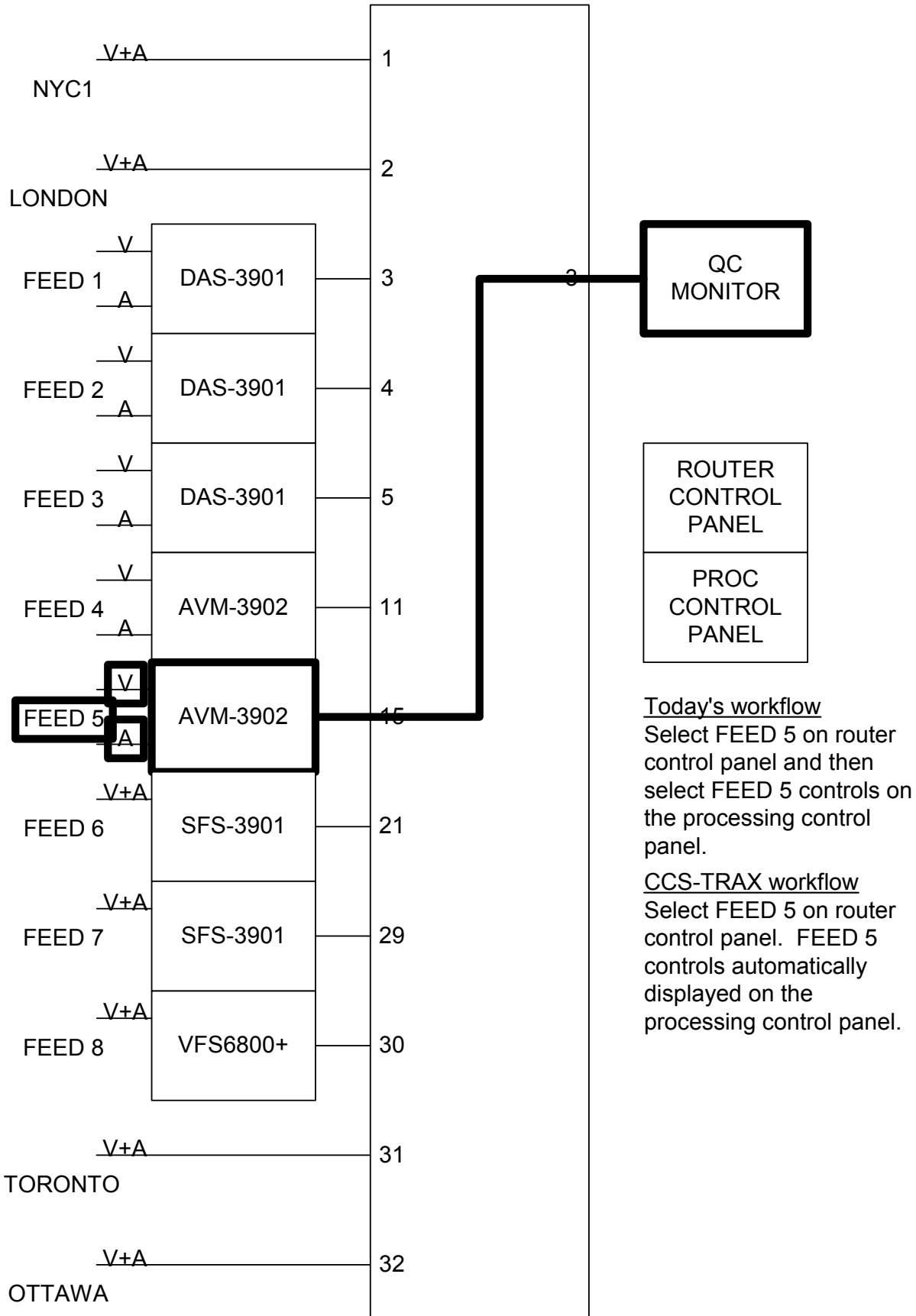
### Main Features

- Associate specific product with each router source
- Automatically display product controls on the control panel by selecting a source with the router control panel
- Customize the controls on the panel with new “Favorites” navigation mode

### Typical workflow today

Refer to the drawing on the following page.

The operator routes an incoming signal to his QC destination by selecting the source name (in this case, FEED 5) on the router control panel. The signal is displayed on a video monitor, waveform monitor and an audiometer at the QC station. The operator then manually selects the controls for the processing product in the FEED 5 path so that he can correct any audio levels, video levels or audio/video delays.



Because the operator must select the feed on both the router control panel and then, subsequently, on the processing control panel, it is possible for him to make mistakes. The operator can accidentally select the proc controls for a feed other than the one he is actually intending to adjust. In the worst case, he will be adjusting a signal that is already going to air.

### **Improved workflow with CCS-TRAX**

The operator routes the incoming signal to his QC destination by selecting the source name (in this case FEED 5) on the router control panel. The signal is displayed on a video monitor, waveform monitor and an audiometer. As soon as the operator has selected the signal with the router control panel, the proc controls associated with the upstream processing device are immediately displayed on the remote control panel. There is no possibility for any mistake as the correct proc controls always appear. The operator is now able to work more efficiently as a result of only needing to make a single selection on a router control panel.

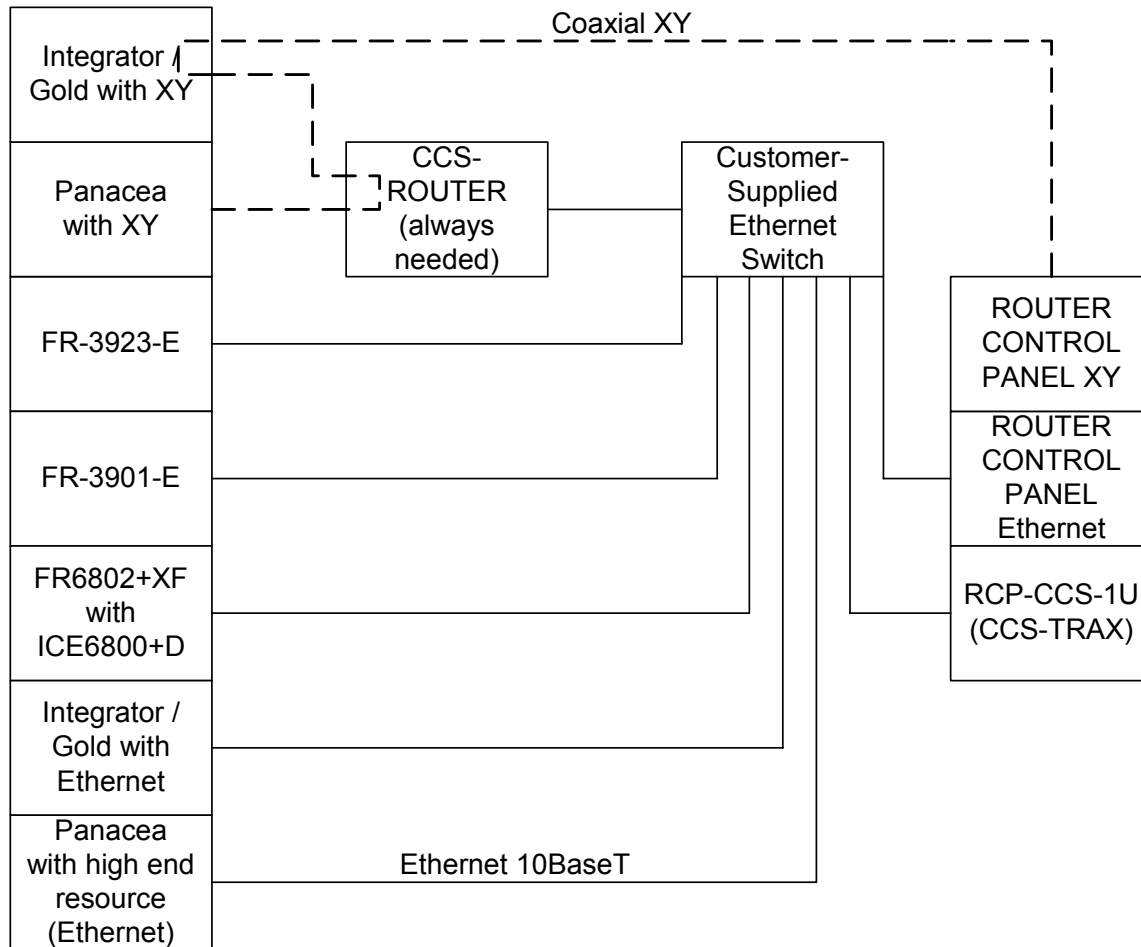
### **System configurations**

CCS-TRAX provides improved workflow and minimizes potential mistakes in quality control applications. CCS-TRAX is invoked by creating a mapping table in CoPilot (or Pilot/Build Mode or Navigator/Build Mode). This table associates specific Leitch processing devices to a source on the router. The table also assigns a specific destination that, when selected, will cause the processing remote control panel to automatically load the control parameters for the associated upstream device. Once this table has been generated, it is uploaded into the remote control panel (RCP-CCS-1U) as part of the control panel configuration.

Because CCS-TRAX is to be sold as a value-added option to the RCP-CCS-1U, it must be activated on the remote control panel by entering a specific password (which will be provided by Leitch). The password is derived from the remote control panel's serial number. (The serial number is accessible through the setup menu of the control panel.) If the customer orders the panel from Leitch and, at the same time, orders CCS-TRAX, the panel will be delivered with CCS-TRAX already activated. If the customer already owns the control panel, he must provide Leitch with the remote control panel's serial number at time of order (see attachment for information form to be filled out).

If the customer intends to use CCS-TRAX in conjunction with a Leitch router (NEO NSM, Panacea, Integrator or Integrator Gold), the customer will require a router protocol gateway, CCS-ROUTER. This protocol gateway will translate between either router X-Y protocol or router X-Y over Ethernet protocol into a protocol the control panel (RCP-CCS-1U) can interpret. (See network diagram on following page.)

If the customer intends to use CCS-TRAX in conjunction with a 3<sup>rd</sup> party router, the customer will require the appropriate 3<sup>rd</sup> party SPT and a router protocol gateway, CCS-ROUTER. The 3<sup>rd</sup> party SPT will translate between the 3<sup>rd</sup> party router's protocol and Leitch X-Y protocol. The CCS-ROUTER protocol gateway will translate the X-Y protocol into a protocol the control panel (RCP-CCS-1U) can interpret.



### Favorites navigation mode on RCP-CCS-1U

Processing products typically have many parameters, some of which are only needed to be set during initial setup. Until now, the RCP-CCS-1U typically displayed every parameter associated with a specific module. It could be quite time-consuming to have to scroll through all of the parameters to get to the one that was desired. To improve the overall user interface, a new navigation mode has been created for the RCP-CCS-1U: Favorites.

Favorites navigation mode comes free-of-charge with the most current upgrade to the remote control panel. (It is currently posted to the Leitch web site and can be accessed by going to the "downloads" section)

The parameters that are to be displayed in Favorites navigation mode are established by means of a configuration table in Copilot (or Pilot/Build mode or Navigator/Build mode). For each device, the user can now view a table with all possible parameters. The user then selects those parameters that are to be viewed in the Favorites navigation mode. (Note that it is not possible to change the sequence of the parameters.) Once this table has been generated, it is uploaded into the remote control panel (RCP-CCS-1U) as part of the control panel configuration.

When used on a control panel that is enabled with CCS-TRAX, Favorites navigation substantially improves workflow. When the controls for a processing product are automatically displayed on the control panel, rather than seeing an extremely long list, the operator will only see the controls that he needs to have to quickly do his job.

### **Upgrading existing systems**

Existing Leitch customers who own 6800+ or NEO processing products and the remote control panel, RCP-CCS-1U, may wish to upgrade their systems to gain the benefit of CCS-TRAX (or Favorites navigation mode). The following products will need to be upgraded:

- 1) configuration application, CoPilot
- 2) remote control panel, RCP-CCS-1U
- 3) Pilot (if the customer has purchased this application)
- 4) Navigator (if the customer has purchased this application)

New control panel firmware, version 2.06, has been posted to the Leitch web site. To access this code, customers should follow this path:

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

- Downloads / NEO (on the left hand margin of the page)
- Request files for box
- select "RCP-CCS-1U"
- select "ccs-cp-2-06.zip".

Direct URL to the appropriate download page is:

<http://www.leitch.com/custserv/webdl.nsf/FD/ccs-cp-2-06.zip?OpenDocument>

The file is zipped and is 2.70MB in size. Access to this code is password protected. If they have not ever downloaded code from the Leitch web site, they will be provided one upon request. Once downloaded, the file should be unzipped. There will be a single file, vxWorks.lzs. Using CoPilot (or Pilot – Build mode) or Navigator (Build mode) this file should be downloaded into the \boot folder of the RCP-CCS-1U. Once the panel has been rebooted, it will now be able to support CCS-TRAX, if purchased by the customer.

An updated version of the configuration utility, CoPilot v2.9.2, has been posted to the Leitch web site. To access this updated application, customers should follow this path

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

- Downloads / NEO (on the left hand margin of the page)
- Request files for box
- select "CCS-COPILOT"
- select "CoPilot2.9.2.zip"

Direct URL to the appropriate download page is:

<http://www.leitch.com/custserv/webdl.nsf/FD/CoPilot2.9.2.zip?OpenDocument>

The file is zipped and is 25.5MB in size. Access to this code is password protected. If they have not ever downloaded code from the Leitch web site, they will be provided one upon request. Once downloaded, the file should be unzipped and installed.