NOTIFIER®
by Honeywell

Addendum to the DVC/DAA Manual (52411)
for
H Manual Revisions
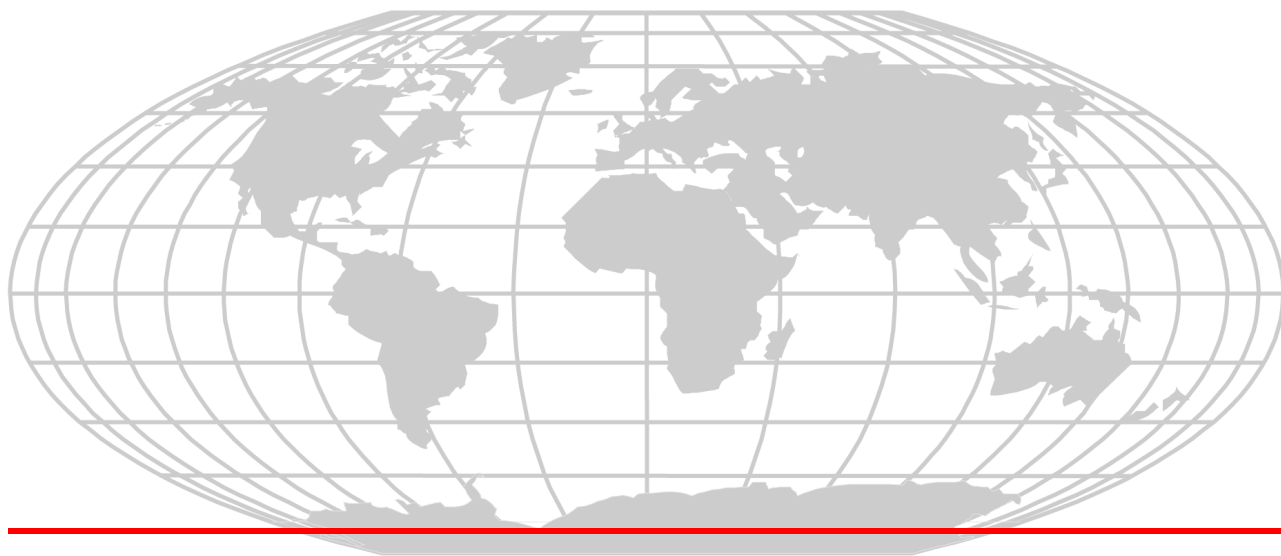
Software Downloads

In order to supply the latest features and functionality in fire alarm and life safety technology to our customers, we make frequent upgrades to the embedded software in our products. To ensure that you are installing and programming the latest features, we strongly recommend that you download the most current version of software for each product prior to commissioning any system. Contact Technical Support with any questions about software and the appropriate version for a specific application.

Documentation Feedback

Your feedback helps us keep our documentation up-to-date and accurate. If you have any comments or suggestions about our online Help or printed manuals, you can email us.

Please include the following information:

- Product name and version number (if applicable)
- Printed manual or online Help
- Topic Title (for online Help)
- Page number (for printed manual)
- Brief description of content you think should be improved or corrected
- Your suggestion for how to correct/improve documentation

Send email messages to:

FireSystems.TechPubs@honeywell.com

Please note this email address is for documentation feedback only. If you have any technical issues, please contact Technical Services.

This supplement includes information regarding DVC software version 3.2 and higher. It describes how to program the priority for the FFT-NFN input. It also modifies the examples to show one-button activation for annunciators, and, on pages 7– 8, gives a modified annunciator point explanation. Software version 14.1 and higher for the NFS2-3030 and NCA-2 is compatible with this release of DVC software.

Page 57 - The following cautions have been added in the "Inputs" section of the "Audio Message Programming".

ARROW KEYS - Use to reassign the priority of an individual input.

⚠ **CAUTION:**

1 Do not program FFT-NFN with a priority greater than the following inputs:
   • Local RM-1
   • Remote RM-1
   • Local Mic
   • Remote Mic
   • Local Tel
   • Network Tel

2 The DVC endpoints of an FFT-NFN link must be programmed with the same FFT-NFN priority.

Page 74 - Replace Section 4.3.2 "Point-to-point FFT Communication over Noti-Fire-Net (FFT-NFN)" with the following.

4.3.2 Point-to-point FFT Communication over Noti-Fire-Net (FFT-NFN)

DVC software version 3.2 supports FFT communications between two DVC digital audio loops on the same Noti-Fire-Net network. All DVCs and DAAs must be PC<u>B</u> version hardware or higher (not PC<u>A</u> versions) and running DVC software Version 3.2 and NCM software Version 3.40 or higher, as well as NFS2-3030/NCA-2 software version 14.1 and higher.

■Example 1

Refer to Figures 4.3 and 4.4 for this example.

A call initiated at an FFT (**C**) on a DVC node can be answered at another DVC (**A**). This will require turning on two communication links:

1. the link between the FFT (**C**) and its DVC (**B**), and
2. the link between DVC (**A**) and DVC (**B**) (the FFT-NFN link on Noti-Fire-Net).
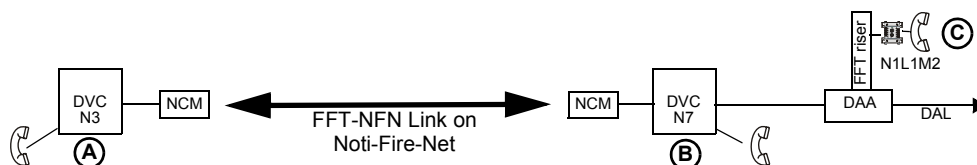

Figure 4.3 FFT-NFN Communication Links Example 1

One DVC-KD or ACS annunciator point is required to establish and terminate this communication. The point must be programmed with the ACS function/mode "FFT-NFN". Figure 4.4 shows the point programming.

DVC-KD or ACS programming:
ACS function/mode = **FFT-NFN**
Mapping: as indicated in
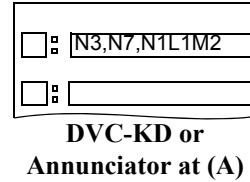point label

Point mapping - connects (A) to (B) to (C)

N3,N7,N1L1M2

**DVC-KD or
Annunciator at (A)**

Figure 4.4 Point Programming for Figure 4.3 Example

This setup would operate as follows:

1. A firefighter jacks in at (**C**). Point 1 rings and both LEDs flash at (**A**).

2. The operator at (**A**) presses the point button, programmed as shown in Figure 4.4, turning on the point. The point active LEDs will light steady on, and the yellow LEDs will go off. Communication is established between (**C**) and the local telephone at (**A**).
    - The *N3,N7* portion of the point programming controls the Noti-Fire-Net communication - (**A**) to (**B**) in this example.
    - The *N1L1M2* portion of the point programming controls the telephone communication between the field telephone and the DVC at node 3. (In this example, N1 would be the panel controlling the telephone module.)

    NOTE: The FFT-NFN link will accommodate communication between two DVCs at a time. If the FFT-NFN link is in use by two other DVCs when the Point 2 button is pressed, the attempt to link (**A**) and (**B**) will be denied. A system trouble will display on an NCA-2 or NWS.

3. When the FFT-NFN connection is no longer needed, the operator at (**A**) disconnects the call by pressing the point button to disconnect. The FFT-NFN link will be automatically disconnected, because no other points are active at the DVC-KD or annunciator on the (**A**) to (**B**) link. The link will close once all the active FFT-NFN points mapped to the DVC-KD or annunciator have been turned off.

■ Example 2

Refer to Figures 4.5 and 4.6 for this example.

Calls initiated at more than one FFT on a DVC node can be answered at another DVC. This communication requires turning on the following communication links:

1. the links between the FFTs and their local DVC ((**B**) to (**C**), (**D**), and (**E**), and
2. the link between DVC (**A**) and DVC (**B**) (the FFT-NFN link on Noti-Fire-Net).
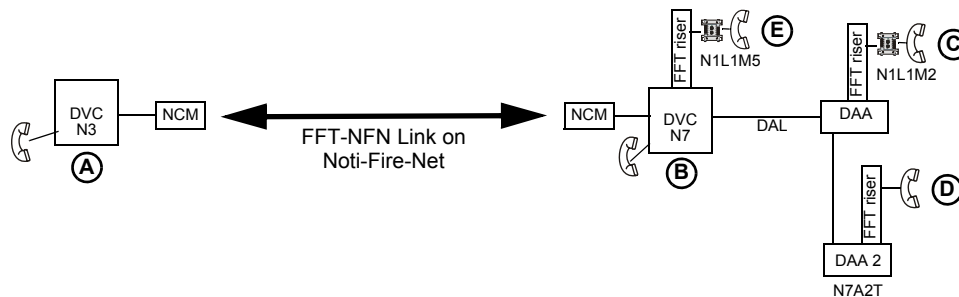

Figure 4.5 FFT-NFN Communication Links Example 2

DVC-KD or ACS annunciator points are required to establish and terminate this communication. These points must be programmed with the ACS function/mode "FFT-NFN". Figure 4.6 shows the point programming.

DVC-KD or ACS programming:
ACS function/mode = **FFT-NFN**
Mapping: as indicated in
point label

Point 1 mapping - connects (**A**) to (**B**) to (**C**)   Point 1 ▢ ▯ N3,N7,N1L1M2

Point 2 mapping - connects (**A**) to (**B**) to (**D**)   Point 2 ▢ ▯ N3,N7,N7A2T

Point 3 mapping - connects (**A**) to (**B**) to (**E**)   Point 3 ▢ ▯ N3,N7,N1L1M5

▢ ▯
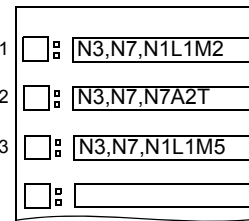
DVC-KD or
Annunciator at Node 3

Figure 4.6 Point Programming for Figure 4.5 Example

This setup would operate as follows.

1. A firefighter jacks in at (**C**). Point 1 rings and both LEDs flash at (**A**).

2. The operator presses Point 1, turning on the point. The point active LEDs will light steady on, and the yellow LEDs will turn off. Communication is established between (**C**) and the local telephone at (**A**).
    If pressing Point 1 activates (**C**) but does not open the FFT-NFN link, the (**A**) and (**C**) point LEDs will continue to flash because the FFT-NFN link is not available. A system trouble (`NFN PAGING CHANNEL LIMIT EXCEEDED`) will display on an NCA-2.

3. Firefighters jack in at (**D**) and (**E**). Points 2 and 3 ring at (**A**), the point active LEDs light steady and the yellow LEDs flash. The operator at (**A**) presses the Point 2 and 3 buttons (either the Point 2 and 3 DVC-KD buttons or the Point 2 and 3 ACS annunciator buttons), programmed as shown in Figure 4.6, turning on the points. The yellow LEDs will turn off. Communication is established between the field telephones at (**C**), (**D**) and (**E**) and the local telephone at (**A**). (**A**) through (**E**) are now in communication.

    > 📄 **NOTE:**   (**D**) is on a riser with no telephone control modules installed, so mapping is to the DAA in the format NxAxT, where A = DAA address on the DAL (digital audio loop).

4. (**C**) jacks out. The operator presses Point 1 to terminate the connection with (**C**). Points (**D**) and (**E**) are still active, and continue to communicate over the FFT-NFN link.

5. (**D**) and (**E**) jack out. The operator presses Points 2 and 3 to terminate these connections. The FFT-NFN link automatically terminates, because no FFT-NFN programmed points remain active on it.

■ Example 3

Refer to Figures 4.7 and 4.8 for this example.

A call initiated at an FFT on a DVC node can be connected to an FFT on another DVC's digital audio riser. This communication requires turning on three communication links:

1. the link between the FFT (**F**) and its DVC (**A**).

2. the link between DVC (**A**) and DVC (**B**) (the FFT-NFN link on Noti-Fire-Net)

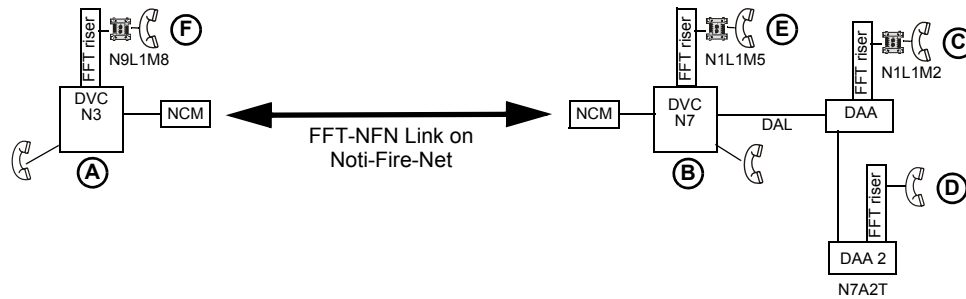3. the link between the FFT (**C**) and its DVC (**B**).

Figure 4.7 FFT-NFN Communication Links Example 3

DVC-KD or annunciator points are required to establish and terminate this communication. These points must be programmed with the ACS function/mode "FFT-NFN". Figure shows the point programming.

DVC-KD or ACS programming:
ACS function/mode = **FFT-NFN**
Mapping: as indicated in point label

Point 1 Mapping - Connects (**A**) to (**B**) to (**C**)   Point 1   N3,N7,N1L1M2

Point 2 Mapping - Connects (**A**) to (**B**) to (**D**)   Point 2   N3,N7,N7A2T

Point 3 Mapping - Connects (**A**) to (**B**) to (**E**)   Point 3   N3,N7,N1L1M5

Point 4 Mapping - Connects (**A**) to (**B**) to (**F**)   Point 4   N3,N7,N9L1M8

**DVC-KD or
Annunciator at Node 3**

Figure 4.8 Point Programming for Figure 4.7

This setup would operate as follows.

1. A firefighter jacks in at (**C**). Point 1 rings at (**A**), and both LEDs flash. The operator presses Point 1, turning on the point. The point active LED will light steady on, and the yellow LED will turn off. Communication is established between the field telephone at (**C**) and the local telephone at (**A**).

2. A firefighter jacks in at (**F**). Point 4 rings at (**A**), the point active LED lights steady, and the yellow LED flashes. The operator presses Point 4, turning on the point. The yellow LED will turn off.
Communication is established between the field telephones at (**F**) and (**C**).

3. (**C**) and (**F**) jack out. The operator presses Points 1 and 4 to terminate these connections. The FFT-NFN link automatically terminates, because no FFT-NFN programmed points remain active on it.

■ Example 4

Refer to Figures 4.9 and 4.10 for this example.

A DVC can communicate directly with another DVC via the FFT-NFN connection. The local phone at one DVC node can be connected to another: the link between DVC (**A**) and DVC (**B**) (the FFT-NFN link on Noti-Fire-Net.)
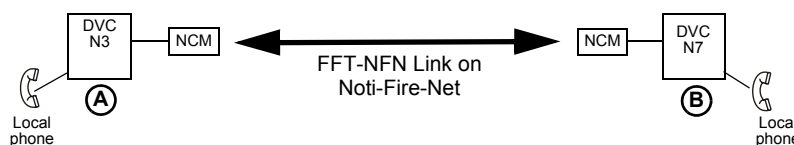

Figure 4.9 FFT-NFN Communication Links Example 4

DVC-KD or annunciator points are required to establish and terminate this communication. These points must be programmed with the ACS function/mode "FFT-NFN". Figure 4.10 shows the point programming. There must be a programmed point at each DVC for this link to function.

DVC-KD or ACS programming:
ACS function/mode = **FFT-NFN**
Mapping: as indicated in point label

| N3,N7 | Point 1 | Point 1 Mapping - Connects (**A**) to (**B**)) | Point 1 | N3,N7 |

DVC-KD or Annunciator at Node 3   **DVC-KD or Annunciator at Node 7**
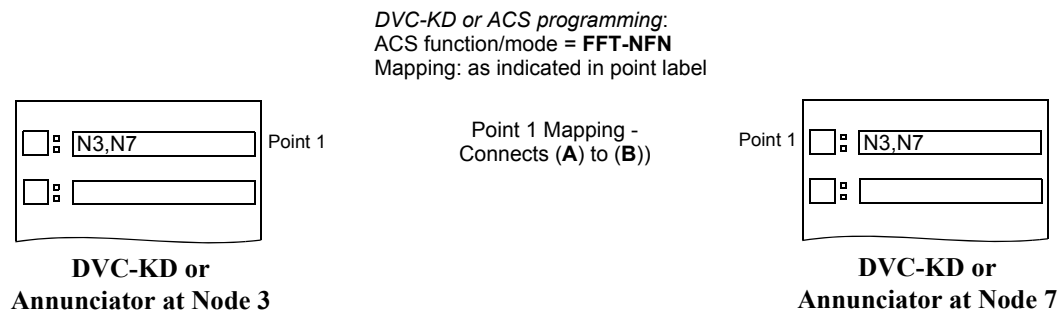
Figure 4.10 Point Programming for Figure 4.9 Example

This setup would operate as follows.

1. The DVC operator at node 3 (**A**) picks up the local DVC telephone and presses Point 1, turning on the point and making the FFT-NFN connection. The local DVC telephone at node 7 (**B**) rings, and both LEDs flash.

2. The DVC operator at node 7 (**B**) answers by picking up the phone and pressing Point 1 to speak. (**A**) and (**B**) are now in communication over the FFT-NFN link. The point active LEDs at both points light steady, and the yellow LEDs turn off.

3. To end the connection, one of the operators presses the Point 1 button to disconnect the FFT-NFN link.

■ Priority

FFT-NFN communication has a programmable priority (default message priority of 1042, refer to Table 3.1 on page 58). FFT-NFN will:

- be preempted by any message with a higher priority.
- preempt a lower priority message.
- not preempt an active message with the same priority (that is, another FFT-NFN connection).

Local riser functionality, as described in "FFT Communication Local to DVC Node", remains the same while there is an FFT-NFN connection.

FFT-NFN explanation for annunciator points:

ACS Point Mode	Function: The point…	Explanation
FFT-NFN	....will, when pressed: • Notify a DVC in the map format Nxxx,Nxxx,NxxxLyyMzzz or Nxxx,Nxxx,NxxxAyyT to open the FFT-NFN link and turn on the mapped FFT point or riser. A second press will notify the DVC to turn off that FFT point or riser and determine whether the FFT-NFN link should be closed or remain open. • Notify a DVC in the map format Nxxx,Nxxx to close or open the FFT-NFN link between two DVCs.	The Point Active LED is lit if a corresponding mapped point is active. The Status (trouble) LED is on when a point or zone is disabled or in trouble.

Table 5.4 ACS Point Mapping: Explanation of Point Modes

<u>FFT-NFN explanation for annunciator mode sources:</u>

FFT-NFN mode sources:

- format Nxxx,Nxxx,NxxxLyyMzzz: Telephone control module (NxxxLyyMzzz) preceded by the node numbers of the two DVCs (Nxxx,Nxxx) that will communicate over the FFT-NFN link.

- format Nxxx, Nxxx:: numbers of the two DVCs that will communicate over the FFT-NFN link..

- format NxxxAyyT: Use this address (N = the DVC node number and A = the DAA address on the digital audio loop) when no telephone control modules are installed on a DAA's FFT riser.

Refer to the FFT-NFN section of the DVC manual for programming and application examples.