Honeywell

**Experion**

# Fault Tolerant Ethernet Status Server and Auxiliary Display

## User's Guide

EP-DSX233
Release 210
10/04

# Notices and Trademarks



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# About This Document

This document describes how to install the FTE status display, and the FTE status server.

## Release Information

| Document Name | Document ID | Release Number | Publication Date |
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| Fault Tolerant Ethernet Status Server and Auxiliary Display User's Guide - EX22 | EP-DSX233 | 210 | 10/04 |

## References

The following list identifies all documents that may be sources of reference for material discussed in this publication.

| Document Title | Doc ID |
|---|---|
| *Fault Tolerant Ethernet Specification and Technical Data* | PS03-850 |
| *Fault Tolerant Ethernet (FTE) Overview and Implementation Guide* | FE02 |
| *Fault Tolerant Ethernet Installation and Service Guide e* | FE05 |
| *System Management Operations Guide* | EX07 |
| *System Management Configuration Guide* | EX08 |
| **TPS Users** | |
| *TPS System Implementation Guide for Windows 2000* | TP08W |
| *TPS System Planning Guide for Windows 2000* | TP10W |
| *TPS System Administration Guide for Windows 2000* | TP06W |
| **Experion PKS Users** | |
| *Experion PKS Overview* | EP-DCSX31 |
| *Experion PKS Software Installation and Upgrade Guide* | EP-DCXX11 |
| *Experion PKS TPS Station and Server Implementation Guide* | EX23 |
| *Experion PKS Operators Guide* | EP-DSXX41 |

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## Symbol Definitions

The following table lists those symbols used in this document to denote certain conditions.

| Symbol | Definition |
|---|---|
|  | **ATTENTION:** Identifies information that requires special consideration. |
|  | **TIP:** Identifies advice or hints for the user, often in terms of performing a task. |
|  | **REFERENCE -EXTERNAL:** Identifies an additional source of information outside of the bookset. |
|  | **REFERENCE - INTERNAL:** Identifies an additional source of information within the bookset. |

# Contents


**1. INTRODUCTION ..... 11**

**1.1 Overview ..... 11**
What is Honeywell Fault Tolerant Ethernet (FTE)? ..... 11
FTE Status Component ..... 12
FTE intermediate driver and Heartbeat provider software ..... 12

**1.2 User Interfaces ..... 13**
FTE Status Displays ..... 13
System Management Display ..... 15

**2. INSTALLING FTE STATUS DISPLAY ..... 17**

**2.1 Introduction ..... 17**
FTE Status Server ..... 17
Installing System Management Display ..... 17

**2.2 Installing FTE Status Server ..... 18**
Install FTE Status Component ..... 18

**3. FTE STATUS SERVER ..... 19**

**3.1 Introduction ..... 19**
About the FTE Status Server ..... 19
FTE Status Server Display ..... 19
FTE status component fields ..... 20
Device status and information details ..... 21

**3.2 Using the FTE Status Display ..... 22**
Open FTE Status Display ..... 22
Change the view in the FTE Status Server details pane ..... 23
Change FTE Component Status ..... 24

**4. FTE STATUS AUXILIARY DISPLAY ..... 25**

**4.1 Introduction ..... 25**
Overview ..... 25
FTE Status Auxiliary Display ..... 25
FTE Status Auxiliary fields ..... 26
FTE Status Auxiliary Display status icon ..... 27
Icon color states for Links ..... 28

**4.2 Using the FTE Status Auxiliary Display .....29**
Open FTE Status Auxiliary Display ..... 29
Display Heartbeat Nodes ..... 29
Change the view in the FTE Status Auxiliary Display..... 30

**4.3 Monitoring Link Status From Auxiliary Display.....31**
Introduction ..... 31
Link status states..... 31
Interface link status details ..... 32
Example of silent port..... 33

**4.4 Viewing the FTE Status Auxiliary Display of a Remote FTE Node .....35**
Purpose..... 35
Display remote node status..... 35

# Tables

Table 3-1 Device Status States....21
Table 4-1 Icon Link Color States....28
Table 4-2 Link Status States....31
Table 4-3 Interface Link Status States....32
Table 4-4 Link Status Examples....33

# Figures

Figure 1-1 FTE Dual Network Connections....11
Figure 1-2 FTE Status Server Example....13
Figure 1-3 FTE Status Auxiliary Display Example....14
Figure 1-4 FTE Status Auxiliary – Remote FTE Node Example....15
Figure 2-1 Honeywell FTE Software Components....17
Figure 3-1 FTE Status Server Normal State....19
Figure 4-1 FTE Status Auxiliary Display....25
Figure 4-2 FTE Status Auxiliary Display Areas....27
Figure 4-3 FTE Auxiliary Status Icon....27
Figure 4-4 Sending Nodes' Link Status....32
Figure 4-5 Example of Disconnected FTE Node Port....33

**Contents**
Figures

# 1. Introduction

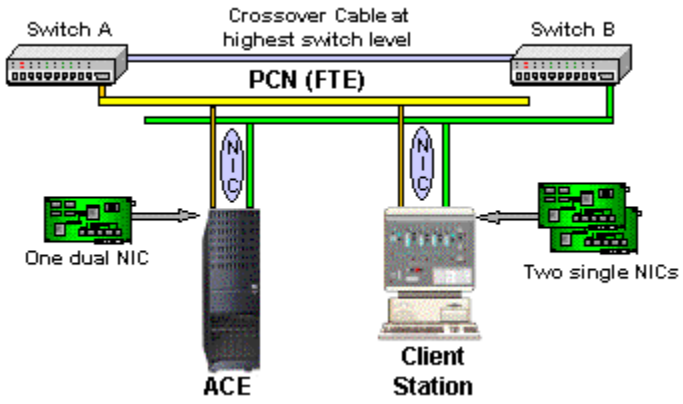
## 1.1 Overview

### What is Honeywell Fault Tolerant Ethernet (FTE)?

Honeywell Fault Tolerant Ethernet (FTE) represents a way to achieve Ethernet redundancy through the use of Honeywell's FTE driver and redundant commercially available equipment.

Fault Tolerant Ethernet enabled components allow network communication to occur over a functioning route. If that route should fail and another route exists, then communication occurs over that route. In this approach, FTE can recover from single faults and may recover from several faults. Refer to the *FTE Planning, Installation and Service Guide* and the *FTE Overview and Implementation Guide* for more information on Honeywell Fault Tolerant Ethernet.

**Figure 1-1 FTE Dual Network Connections**



### FTE Status Component

The FTE Status component is an HCI managed component that allows users to view the status of the communication links between participating nodes within a network. Participating nodes are those that are within the same multicast scope that have the following characteristics:

- **FTE Nodes:** have a dual port Ethernet connection, Honeywell FTE intermediate driver software installed and configured, and the Heartbeat provider software installed.
- **Heartbeat nodes:** have a singly connected Ethernet connection and the Heartbeat provider software installed.

### FTE intermediate driver and Heartbeat provider software

Both the FTE intermediate driver and the Heartbeat provider software transmit and receive diagnostic messages used by the FTE Status component to determine the state of the communication paths between the participating nodes. The Heartbeat provider, also known as the FTE Provider, interoperates with the Honeywell FTE driver when installed on an FTE node.

# 1.2 User Interfaces

### FTE Status Displays

The FTE Status component has the two following user interfaces, both of which are accessed from the Honeywell Node Administration or the System Management Display:

- **FTE Status Server** displays a composite communication link status of all FTE Nodes within the multicast scope. See Figure 1-2 for an example of the display.
- **FTE Status Auxiliary** displays the individual communication link states for all FTE and Heartbeat nodes within the "Viewed By" node's multicast scope. See Figure 2-1 for an example of the display.
- **FTE Status Auxiliary Remote Node** displays the status of a remote FTE node's view of the FTE connections. See Figure 1-4 for an example.

**Figure 1-2 FTE Status Server Example**

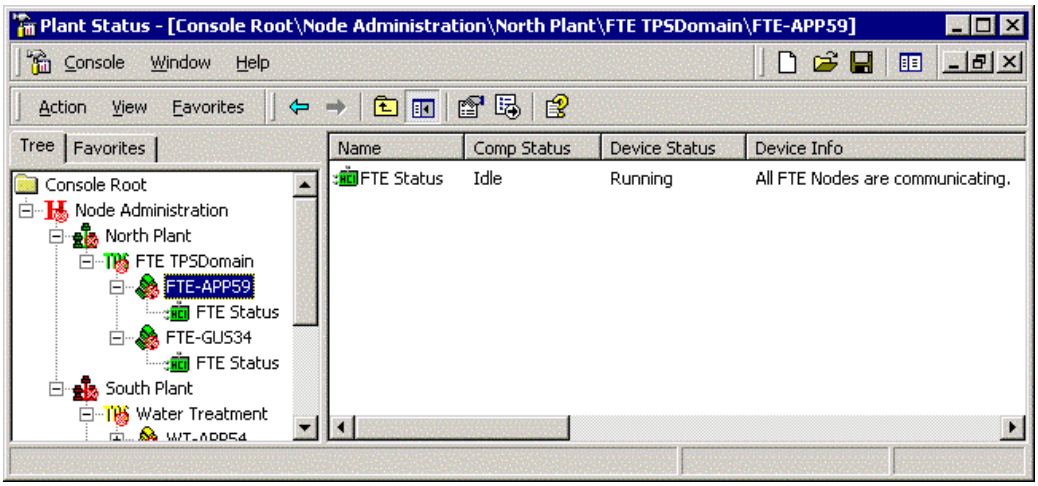


**Figure 1-3 FTE Status Auxiliary Display Example**

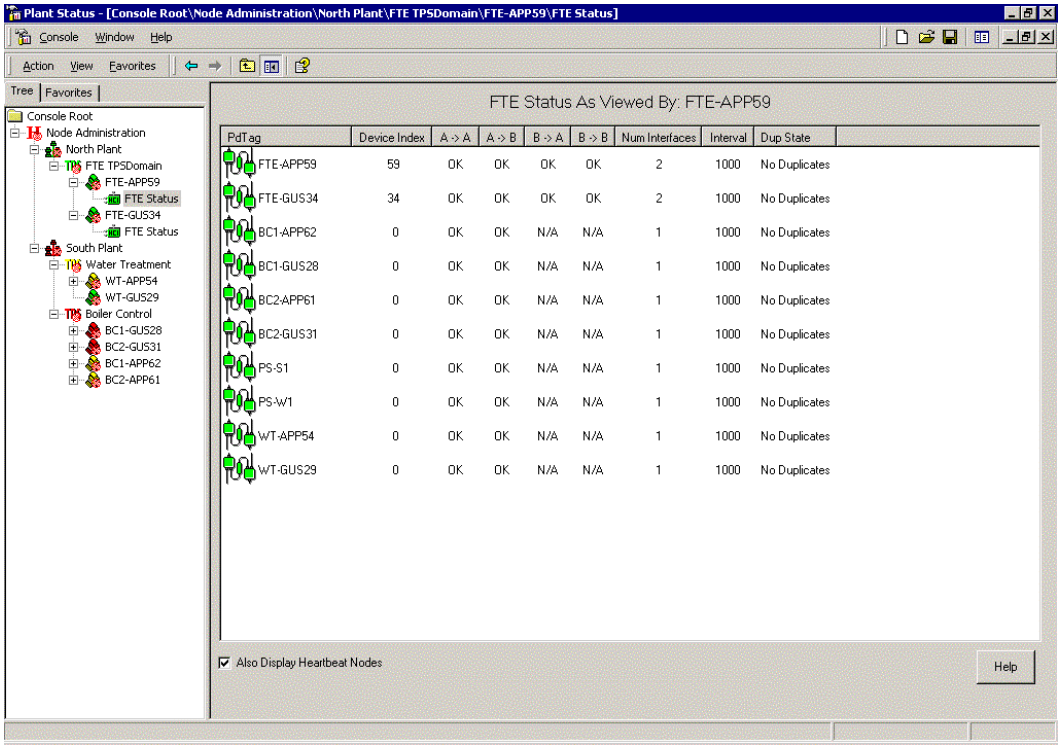
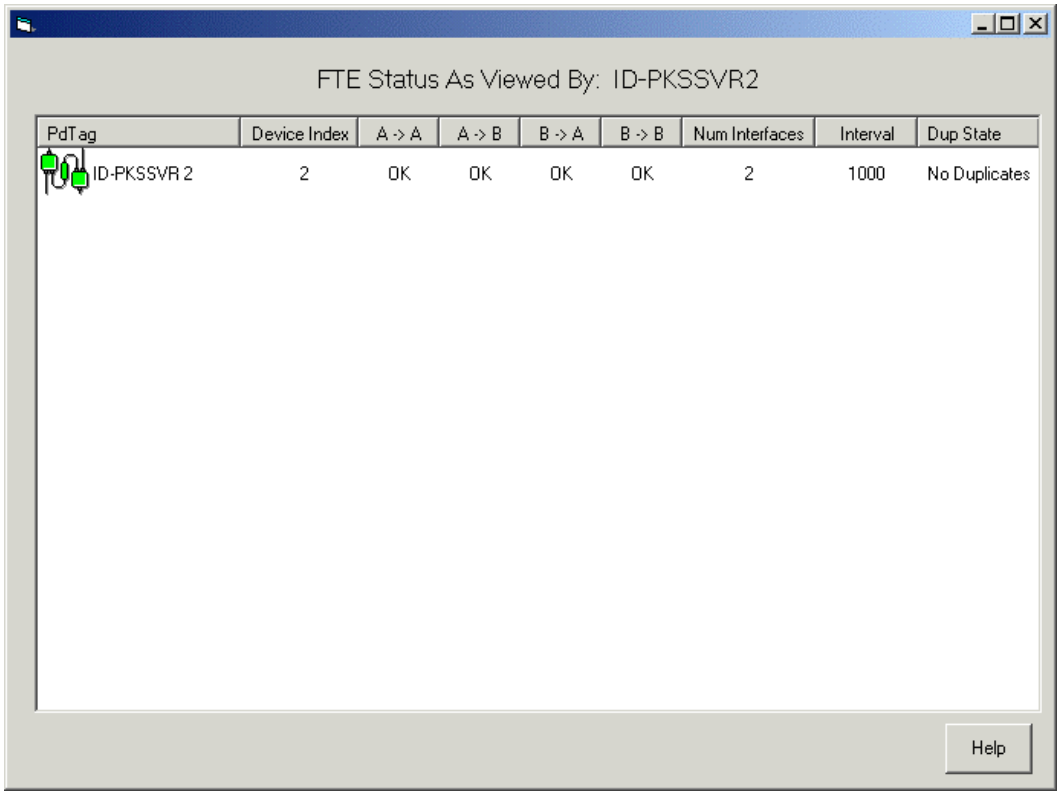


**Figure 1-4 FTE Status Auxiliary – Remote FTE Node Example**




### System Management Display

The System Management Display allows the node to display its status and the status of other nodes in the FTE community and multicast group. It is not needed if the node does not have a monitor or keyboard, such as some ACE or APP nodes, or you do not wish to view the System Management Display from the node.

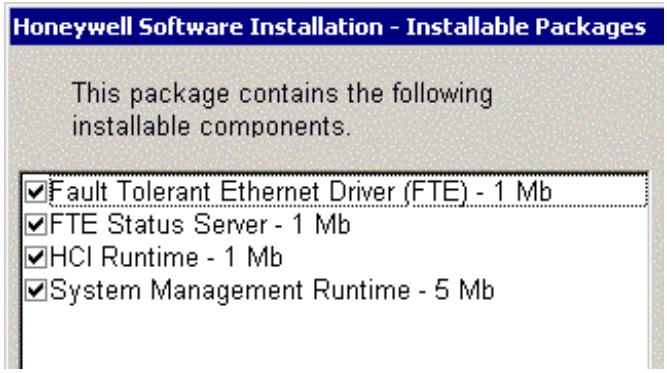
# 2. Installing FTE Status Display

## 2.1 Introduction

### FTE Status Server

The FTE Status Server is packaged and licensed with the Fault Tolerant Ethernet Driver software. Normally, you would install the FTE Status Server on an FTE node when you install your FTE software. It can, however, be installed on any node that has the Heartbeat Provider loaded (both single and dual interface nodes). The Heartbeat Provider must be installed and running in order for the FTE Status server to operate correctly. Figure 2-1 shows the software components packaged with Honeywell Fault Tolerant Ethernet.

**Figure 2-1 Honeywell FTE Software Components**




### Installing System Management Display

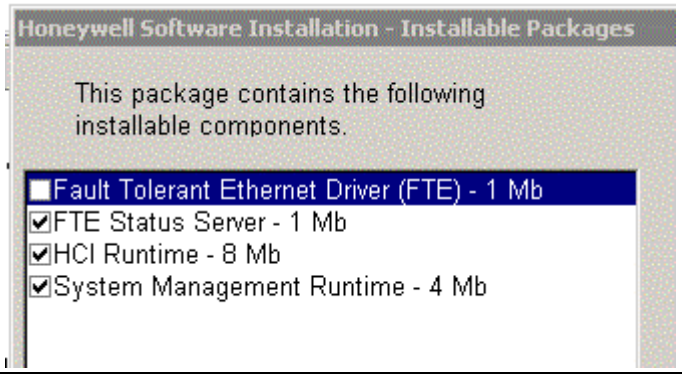
Assuming you have all necessary software requirements for System Management, you must build and configure a system management display on at least one node within the multicast scope in order to view the FTE Status Server and Auxiliary Display. Procedures for the following tasks are in the *System Management Configuration Guide.*

- Installing System Management Display
- Creating a TPS Domain or Console
- Configuring a System Management Display

## 2.2 Installing FTE Status Server

### Install FTE Status Component

Use this procedure to install the FTE Status component independently of the FTE driver. Detailed instructions for installing and configuring the FTE driver software are in the *FTE Planning, Installation and Service Guide*.

| Step | Action |
|---|---|
| **1** | Launch the Honeywell installer by inserting the CD or double-clicking **Install** from the Package folder. |
| **2** | Select the appropriate package from the Install screen and click **Next.** |
| **3** | Review the **Honeywell Software Installation Welcome** screen and click **Next.** |
| **4** | Review the **Honeywell Software Installation End User License Agreement** screen and click **Next.** |
| **5** | Review the **Honeywell Software Installation Third Party Software Compatibility Policy** screen and click **Next.** |
| **6** | Complete the **Honeywell Software Installation User Information** screen and click Next. |
| **7** | Select **Fault Tolerant Ethernet Driver (FTE)** and click **Install Package**. |
| **8** | From the **Honeywell Software Installation Installable Packages** uncheck the Fault Tolerant Ethernet Driver and leave the other selections checked as shown in this figure.<br>  |
| **9** | Click **OK**. |
| **10** | Click **Exit** from the Installation window. |

# 3. FTE Status Server

## 3.1 Introduction

### About the FTE Status Server

The FTE Status server only subscribes to events from FTE Nodes. This means that, even though the individual communication link states of Heartbeat nodes can be viewed in the FTE Auxiliary display, their status has no bearing on the composite link status (Device Status) as viewed from the FTE Status Server.

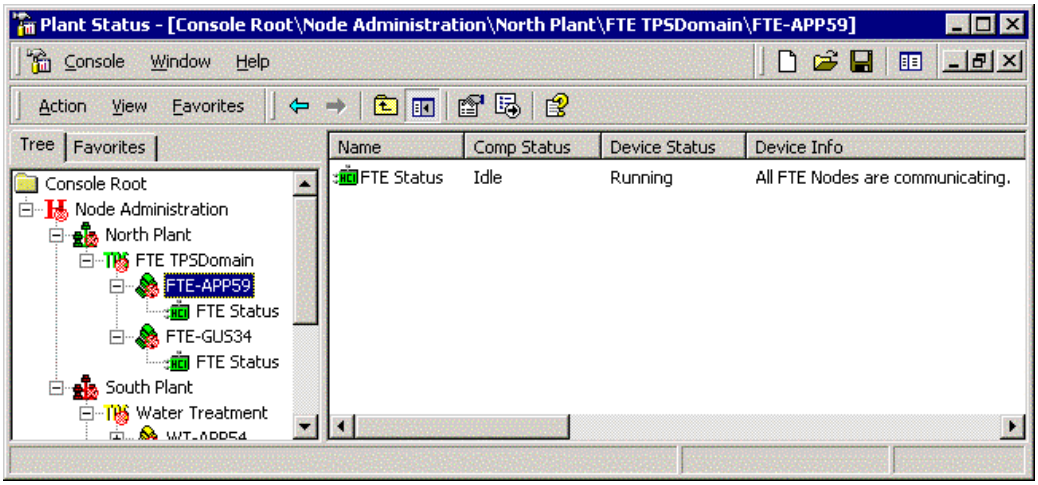
### FTE Status Server Display

Figure 3-1 shows the FTE Status Server from the System Management Status Display in a Device Status of **Running** with Device Info of **All FTE Nodes are communicating.** This is the normal state of the FTE Status Server. See Table 3-1 Device Status States for additional status states.

**TIP**

The communication status of single interface heartbeat nodes has no bearing on the composite link status as viewed from this display.

**Figure 3-1 FTE Status Server Normal State**



### FTE status component fields

| Column | Description |
|---|---|
| Name | Component name. |
| Comp Status | Current status of the component. Status states are:<br>• Stopped<br>• Idle<br>• Test |
| PID | Process identification number. |
| Comp Info | Component information. |
| ProgID | Program identification. |
| Device Status | Composite link status of all FTE Nodes being monitored. See Device Status and Information Details for description of when these states occur. Status states are:<br>• Running<br>• Failed |
| Device Info | Specific device status information. The message in Device Information varies depending on the reason for the device status state. See Device Status and Information Details for descriptions. |

### Device status and information details

This table lists the Device Information messages for the Device Status states. See also Interface Link Status Details for a list of status states for the interface links.

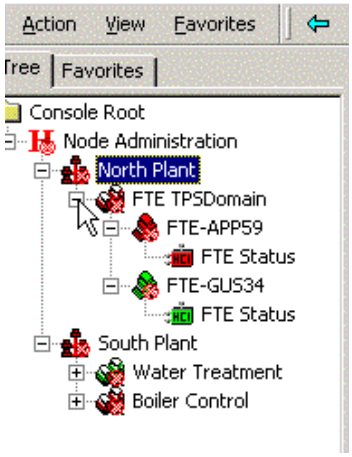
**Table 3-1 Device Status States**

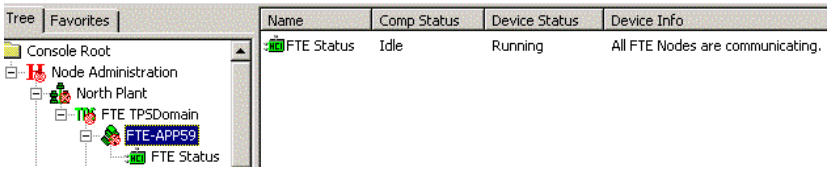
| Device Status | Device Info | Description |
|---|---|---|
| Running | All FTE Nodes Are communicating | All FTE Nodes have all four of their interface status links as either OK, or N/A. |
| Running | One or More FTE Interfaces are not being heard. | At least one of the interface status states of at least one FTE Node is SILENT. |
| Failed | The FTE Node is Failed on Interface A. | All FTE Nodes have at least their A -> A *and* B -> A status states SILENT.<br>Note: This status will only be seen from an FTE Node. |
| Failed | The FTE Node is Failed on Interface B. | All FTE Nodes have at least their A -> B *and* B -> B status states SILENT.<br>Note: This status will only be seen from an FTE Node. |
| Failed | This FTE Node has a Crosslink Failure. | All FTE Nodes have at least their A -> B *and* B -> A status states SILENT.<br>Note: This status will only be seen from an FTE Node. |
| Failed | Heartbeat Provider has stopped. FTE Status cannot be determined. | The Heartbeat Provider is no longer running, and the status of the FTE Nodes cannot be determined. There is a problem with the Heartbeat Provider on this node. |
| Failed | Error Occurred. See Event Log for Details. Need to Restart FTE Status server. | An error that cannot be classified in one of the other categories has occurred.<br>There is a problem with the FTE Status server on this node. See the event log. |
| Failed | Heartbeat Provider failed to start. | The FTE Status server is unable to connect to the Heartbeat Provider. There is a problem with the Heartbeat Provider on this node. |
| Failed | FteIMDrv Service installed but not in the Running State. | FTE driver is installed, but not running. There is a problem with the FTE driver on this node.<br>Note: If the driver is not installed, it is assumed the node is a single interface node and no error is given. |
| Failed | No FTE Nodes were found at all. | No FTE Nodes were initially registered OR all FTE Nodes have failed or been removed. |

## 3.2 Using the FTE Status Display

### Open FTE Status Display

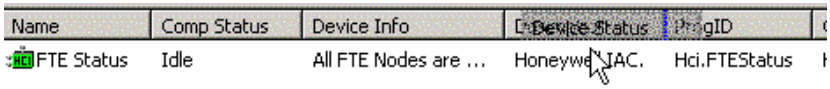
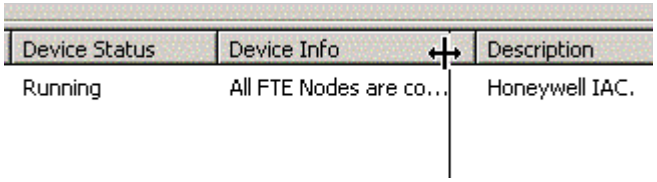
| Step | Action |
|---|---|
| 1 | From the System Management Display:<br>• Click **Start > Run**, and type mmc to open the Microsoft Management Console.<br>• Open your configured System Management Display.<br>From the Start Menu:<br>• Click **Start > Programs > Honeywell Experion PKS > System Management > FTE Status Server**. |
|  | **REFERENCE**<br>If you do not have a System Management Display configured, see EX08, *System Management Configuration Guide*. |
| 2 | Select the Tree tab, and expand the domain and node until you see the FTE Node. |



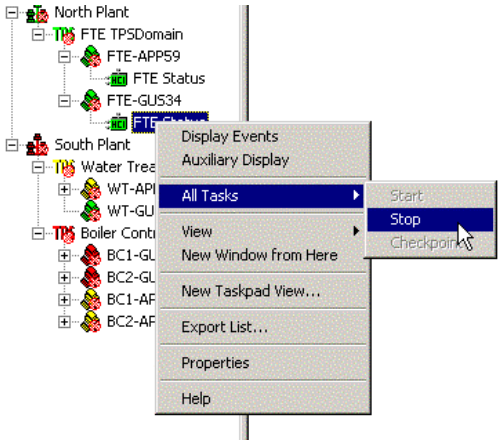
| Step | Action |
|---|---|
| 3 | Click the node in the console Tree to view the FTE Status Server details in the right pane.<br>  |

### Change the view in the FTE Status Server details pane

Use the following procedure to change the way columns are displayed in the FTE Status details pane.

| Step | Action |
|---|---|
| 1 | **Reorder Columns**<br>Select a column heading and drag it to the left or right of its original position.<br>  <br>**Note:** You cannot change the position of the leftmost column in the details pane. |
| 2 | **Resize Columns**<br>Select the right or left border of the column heading and drag it to resize the column.<br>  |

## Change FTE Component Status

| Step | Action | |
|---|---|---|
| 1 | Right-click on the FTE Status server. |  |
| 2 | Select All Tasks. | |
| 3 | Select one of the options. | |

# 4. FTE Status Auxiliary Display

## 4.1 Introduction

### Overview

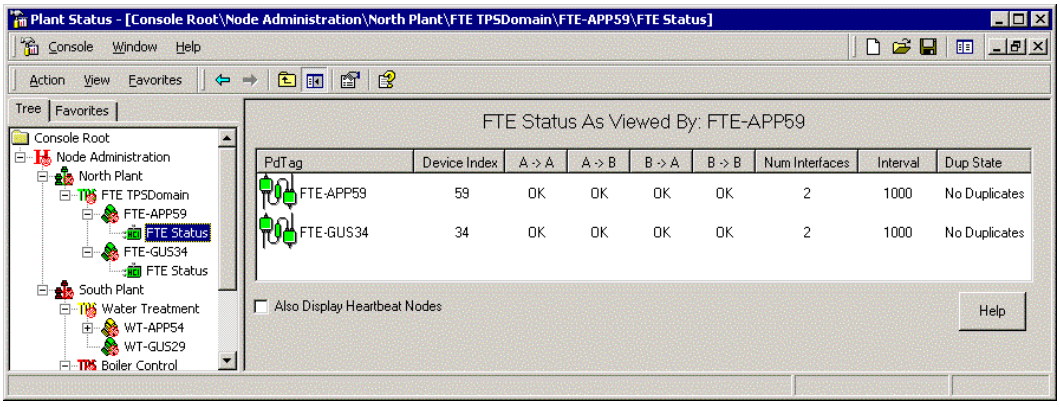
The FTE Status Auxiliary Display provides detailed information on each of the links being monitored by the Heartbeat Provider. You can view the link status of both FTE Nodes and heartbeat nodes using this display.

### FTE Status Auxiliary Display

Figure 4-1 FTE Status Auxiliary Display shows the link status states for the dual ports (A and B) on FTE-APP59 and FTE-GUS34. All FTE and heartbeat nodes within the **Viewed By** node's multicast scope will be displayed. Heartbeat nodes are not displayed unless the **Also Display Heartbeat Nodes** checkbox is selected.

In Figure 4-1, the status for all interface links is **OK**, which is the normal operating state for the FTE Node links. The link status is always in relation to the **Viewed By** or receiving node. For example, the **A -> B** link status indicates what the Viewed by Node's **B** port hears from the monitored node's (identifed in the PdTag column) **A** port. Table 4-3 describes other possible status states.

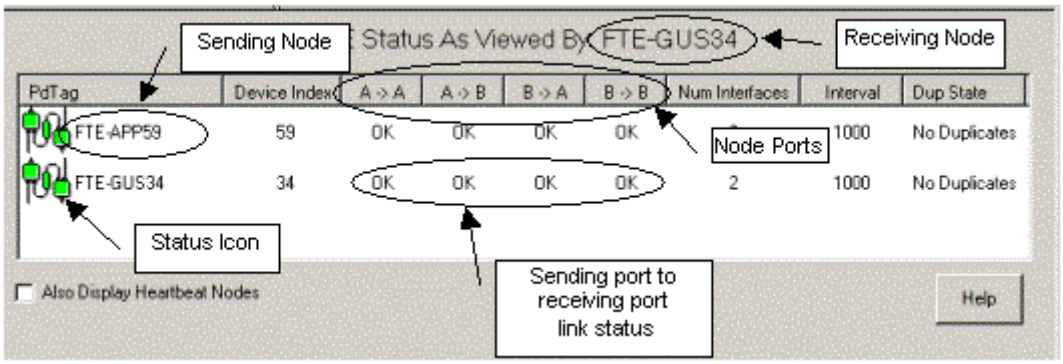
**Figure 4-1 FTE Status Auxiliary Display**



### FTE Status Auxiliary fields

| Field | Description |
|---|---|
| FTE Status As Viewed By | Displays the name of the local FTE or heartbeat node that the status is being viewed from. All of the link status information displayed for the other nodes is in relation to this node. |
| PdTag | Host name or computer name and status icon. |
| Device Index | This is the FTE Node number that is set by the user in the FTE Configuration page during FTE driver installation and configuration. Nodes with a device index of zero are not FTE Nodes. |
| A > A | Indicates whether port A of the sending node can transmit to port A of the receiving (viewed by) node. |
| A > B | Indicates whether port A of the sending node can transmit to port B of the receiving (viewed by) node. |
| B > A | Indicates whether port B of the sending node can transmit to port A of the receiving (viewed by) node. |
| B > B | Indicates whether port B of the sending node can transmit to port B of the receiving (viewed by) node. |
| Num Interfaces | The number of network interface ports available on the node. Value can be 1 or 2. |
| Interval | The diagnostic message interval. This value determines the amount of time between diagnostic messages. |
| Dup State | Duplicate detection state. Status states are:<br>No Duplicates: normal state<br>Duplicate Device Index<br>Duplicate PdTag<br>Both Duplicate PdTag and Device Index |
| Also Display Heartbeat Nodes | Check this box to display single interface nodes that have the Heartbeat Provider installed and are in the current multicast scope. |

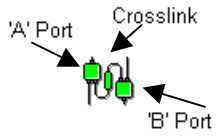
**Figure 4-2 FTE Status Auxiliary Display Areas**




## FTE Status Auxiliary Display status icon

The PdTag column displays a status icon for each displayed node. These status icons represent what the Receiving node is currently hearing from the Sending node. The icons are only relevant when viewing true FTE Nodes.

**Figure 4-3 FTE Auxiliary Status Icon**



### Icon color states for Links

The following table shows the icon colors based on the values of the link status states.

**ATTENTION**

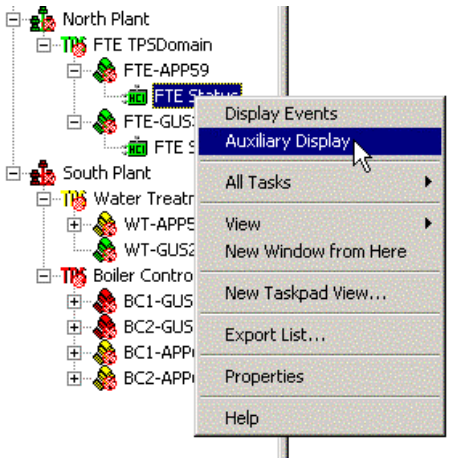
The icon's purpose is to indicate simple network problems. Do not overanalyze the color of the icons to diagnose a problem. Refer to the interface link status to determine the cause of the failure.

**Table 4-1 Icon Link Color States**

| Values | 'A' Port Color | Crosslink Color | "B' Port Color |
|---|---|---|---|
| *Look at values in* | **(A ->A) & (B -> A)** | **(A ->B) & (B -> A)** | **(A ->B) & (B -> B)** |
| *If both values are silent* | RED | RED | RED |
| *If both values are OK or N/A* | GREEN | GREEN | GREEN |
| *When one link status is Silent and the other link status is OK or N/A* | YELLOW | YELLOW | YELLOW |

## 4.2 Using the FTE Status Auxiliary Display

### Open FTE Status Auxiliary Display

| Step | Action | |
|---|---|---|
| 1 | Start the FTE Status Server if it is not already running. |   |
| 2 | Right-click on the FTE Status server. | |
| 3 | Select Auxiliary Display. | |

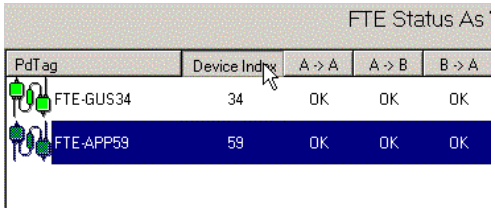
### Display Heartbeat Nodes

| Step | Action |
|---|---|
| 1 | From the FTE Auxiliary Status display, select the **Also Display Heartbeat Nodes** checkbox.   |
| 2 | Both FTE and Heartbeat nodes will be displayed.  |

| PdTag | Device Index | A -> A | A -> B | B -> A | B -> B | Num Interfaces | Interval | Dup State |
|---|---|---|---|---|---|---|---|---|
| FTE-APP59 | 59 | OK | OK | OK | OK | 2 | 1000 | No Duplicates |
| FTE-GUS34 | 34 | OK | OK | OK | OK | 2 | 1000 | No Duplicates |
| BC1-APP62 | 0 | OK | OK | N/A | N/A | 1 | 1000 | No Duplicates |
| BC1-GUS28 | 0 | OK | OK | N/A | N/A | 1 | 1000 | No Duplicates |

### Change the view in the FTE Status Auxiliary Display

Use the following procedure to change the way columns are displayed in the FTE Status Auxiliary display.

| Step | Action | |
|---|---|---|
| 1 | **Sort Columns**<br>• Click column heading to sort in ascending order.<br>• Click again to sort in descending order. |  |
| 2 | **Reorder Columns**<br>Select a column heading and drag it to the left or right of its original position.<br>**Note:** You cannot change the position of the leftmost column in the details pane. | |
| 3 | **Resize Columns**<br>Select the right or left border of the column heading and drag it to resize the column. | |

## 4.3 Monitoring Link Status From Auxiliary Display

### Introduction

The FTE Status Auxiliary Display provides the individual link status for all of the FTE and Heartbeat nodes that the Receiving node is able to see. By reviewing all the link status states for each one of these sending nodes, you should be able to identify which node port has failed. Use the information and examples in this section to clarify what the values indicate.

### Link status states

This table lists the possible states for the Link Statuses.

**Table 4-2 Link Status States**

| | |
|---|---|
| **OK:** | The receiving node can communicate with the sending node's specific port interface |
| **SILENT:** | The receiving node cannot communicate with the sending node's specific port interface due to a failure |
| **N/A:** | Not available is used for single interface nodes, and indicates that the port interface does not exist, and is not used in determining the FTE Device Status |

### Interface link status details

This following table lists the potential status states, and what they indicate, for each interface link.

**Figure 4-4 Sending Nodes' Link Status**

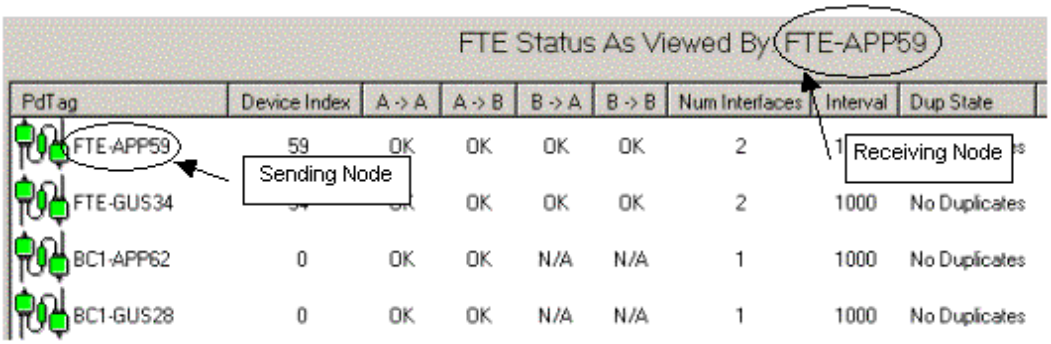



**Table 4-3 Interface Link Status States**

| Interface Link | Status States | Status Description |
|---|---|---|
| **A -> A** | OK | Receiving node's A port is receiving communication from sending node's A port. |
| | SILENT | Receiving node's A port is NOT receiving communication from sending node's A port. |
| | N/A | *This status should never occur in the A -> A column.* |
| **A -> B** | OK | Receiving node's B port is receiving communication from sending node's A port. |
| | SILENT | Receiving node's B port is NOT receiving communication from sending node's A port. |
| | N/A | Receiving node does not have a B port. |
| **B -> A** | OK | Receiving node's A port is receiving communication from sending node's B port. |
| | SILENT | Receiving node's A port is NOT receiving communication from sending node's B port. |
| | N/A | Sending node does not have a B port. |
| **B -> B** | OK | Receiving node's B port is receiving communication from sending node's B port. |
| | SILENT | Receiving node's B port is NOT receiving communication from sending node's B port. |
| | N/A | Sending/Receiving nodes do not have a B port. |

### Example of silent port

The following figure is an example of a small FTE cluster that has one Heartbeat node and three FTE nodes. Note that port B of FTE-GUS 34 is silent. Table 4-4 shows what you would see in the FTE Auxiliary Display of each "Viewed By" node in this situation.

**Figure 4-5 Example of Disconnected FTE Node Port**

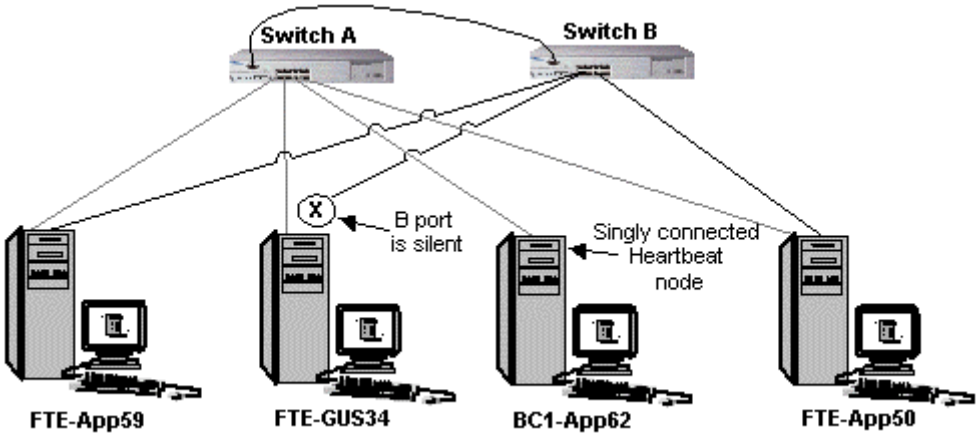



**Table 4-4 Link Status Examples**

| *As Viewed By: From FTE-App59* | | | | |
|---|---|---|---|---|
| **PdTag** | **A -> A** | **A -> B** | **B -> A** | **B -> B** |
| FTE-App59 | OK | OK | OK | OK |
| FTE-GUS34 | OK | OK | SILENT | SILENT |
| BC1-App62 | OK | OK | N/A | N/A |
| FTE-App50 | OK | OK | OK | OK |
| *As Viewed By: From FTE-GUS34* | | | | |
| **PdTag** | **A -> A** | **A -> B** | **B -> A** | **B -> B** |
| FTE-GUS34 | OK | SILENT | SILENT | SILENT |
| BC1-App62 | OK | SILENT | N/A | N/A |
| FTE-App50 | OK | SILENT | OK | SILENT |
| FTE-App59 | OK | SILENT | OK | SILENT |

**Table 4-4 Link Status Examples**

| ***As Viewed By: From BC1-App62*** | | | | |
|---|---|---|---|---|
| **PdTag** | **A -> A** | **A -> B** | **B -> A** | **B -> B** |
| BC1-App62 | OK | N/A | OK | N/A |
| FTE-App50 | OK | N/A | OK | N/A |
| FTE-App59 | OK | N/A | OK | N/A |
| FTE-GUS34 | OK | N/A | SILENT | N/A |
| ***As Viewed By: From FTE-App50*** | | | | |
| **PdTag** | **A -> A** | **A -> B** | **B -> A** | **B -> B** |
| FTE-App50 | OK | OK | OK | OK |
| FTE-App59 | OK | OK | OK | OK |
| FTE-GUS34 | OK | OK | SILENT | SILENT |
| BC1-App62 | OK | OK | N/A | N/A |

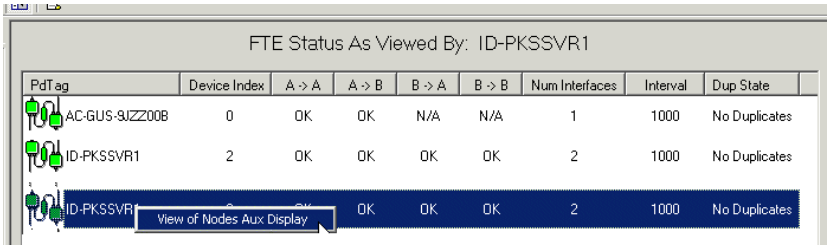
# 4.4 Viewing the FTE Status Auxiliary Display of a Remote FTE Node

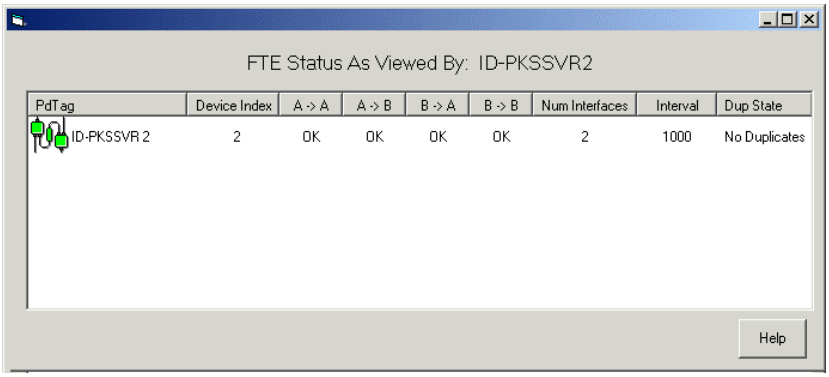
### Purpose

Use this feature to view the FTE status as seen from the remote node's view. This provides a view of the status array that is transmitted by the FTE driver for each FTE node. Since this is the view as seen from the FTE driver, it is only available on FTE nodes. For example, if you are currently at FTE node ID-PKSSVR1, but you would like to view the status as if you were at FTE node ID-PKSSVR2, you can right-click on node ID-PKSSVR2 to view the status from that node.

### Display remote node status

Use this procedure to display a remote FTE node's view of the status array.

| Step | Action |
|---|---|
| 1 | From the FTE Status Auxiliary display, right-click on the node from which you would like to view the status.  |

| Step | Action |
|---|---|
| **2** | Review the status from the remote node's view.<br>  |

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