ADC Kentrox DataSMART

Supports Management Module SM-KEN1001
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Introduction

This section introduces the SPECTRUM Device Management documentation for the DataSmart routers manufactured by Kentrox.

This introduction contains the following topics:

- **Purpose and Scope**
- **Required Reading**
- **Supported Devices** (Page 6)
- **The SPECTRUM Model** (Page 6)

### Purpose and Scope

Use this document as a guide for managing the Kentrox DataSMART devices described on Page 6 with SPECTRUM management module SM-KEN1001. This document describes the icons, menus, and views that enable you to remotely monitor, configure, and troubleshoot Kentrox devices through software models in your SPECTRUM database.

Information specific to SM-KEN1001 is what is primarily included in this document. For general information about device management using SPECTRUM and explanations of SPECTRUM functionality and navigation techniques, refer to the topics listed under **Required Reading**.

### Required Reading

To use this documentation effectively, you must be familiar with the information covered by the other SPECTRUM online documents listed below:

- **Getting Started with SPECTRUM for Operators**
- **Getting Started with SPECTRUM for Administrators**
- **How to Manage Your Network with SPECTRUM**
- **SPECTRUM Views**
- **SPECTRUM Menus**
- **SPECTRUM Icons**
- **SPECTRUM Software Release Notice**
Introduction

Supported Devices

SPECTRUM management module SM-KEN1001 currently lets you model the Kentrox FrameVision product family of DataSMART Frame Monitoring DSU/CSUs (Digital Service Unit/Channel Service Unit). The following are the DataSMART devices supported by this management module:

- **DataSMART 456** - E1/F1 Single-port DSU/CSU
- **DataSMART 458** - E1/F1 Single-port Add/Drop DSU/CSU
- **DataSMART 486** - E1/FE1 Single-port DSU/CSU
- **DataSMART 488** - E1/FE1 Single-port Add/Drop DSU/CSU
- **DataSMART 554** - T1/FT1 Single-port Plug-in DSU/CSU
- **DataSMART 558** - T1/FT1 Single-port Add/Drop Plug-in DSU/CSU
- **DataSMART 584** - T1/FT1 Single-port Plug-in DSU/CSU Multi-port
- **DataSMART 588** - T1/FT1 Frame Monitoring Plug-in DSU/CSU
- **DataSMART 656** - T1/FT1 Single-port DSU/CSU
- **DataSMART 658** - T1/FT1 Single-port Add/Drop DSU/CSU
- **DataSMART 680** - T1/FT1 Single-port Frame Monitoring DSU/CSUs
- **DataSMART 681** - 56/64k Stand-alone DSU/CSU
- **DataSMART 696** - T1/FT1 Single-port DSU/CSU
- **DataSMART 698** - T1/F1 Add/Drop DSU/CSU

The SPECTRUM Model

The model type for the Kentrox devices is DataSMART_xxx.

Modeling results in the creation of Device icons that represent the devices and Application icons that represent their supported applications.

The Device icons contain double-click zones and provide access to Icon Subviews menus that let you perform device management activities such as those listed in Tasks on Page 8.

As Figure 1 shows, the appearance of the Device icons varies slightly depending on the kind of view it appears in.
The device-specific Icon Subviews menu options available from the Device icon are listed below.

<table>
<thead>
<tr>
<th>Option</th>
<th>Accesses the...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fault Management</td>
<td>Fault Management view, which is described in the <em>How to Manage Your Network with SPECTRUM</em> documentation.</td>
</tr>
<tr>
<td>Device</td>
<td>[Device View](Page 10)</td>
</tr>
<tr>
<td>Device Topology</td>
<td>[Device Topology View](Page 14)</td>
</tr>
<tr>
<td>Application</td>
<td>[Application Views](Page 15)</td>
</tr>
<tr>
<td>Configuration</td>
<td>[Configuration Views](Page 61)</td>
</tr>
</tbody>
</table>

The rest of this document covering the Kentrox ADC management module is organized as follows:

- **Tasks** (Page 8)
- **Device View** (Page 10)
- **Device Topology View** (Page 14)
- **Application Views** (Page 15)
- **Performance Views** (Page 60)
- **Configuration Views** (Page 61)
- **Model Information View** (Page 63)
Tasks

This section contains an alphabetical list of device management tasks, with each task providing one or more links to views that let you perform the task.

Administrative Information (check)
- Model Information View (Page 63)

Alarm Thresholds (set)
- Interface Icon Subviews Menu (Page 12)

Application Information (check/change)
- Application Views (Page 15)

Configuration Information (check/change)
- Configuration Views (Page 61)
- DataSMART Application FPING Configuration View (Page 35)
- DataSMART Application Alarm Configuration View (Page 36)
- DataSMART Application Control Port Configuration View (Page 37)
- DataSMART Application Data Port Configuration Table View (Page 38)

- DataSMART Application Fractional T1 Configuration Table View (Page 39)
- DataSMART Application Frame Management Configuration Table View (Page 40)
- DataSMART Application Management Configuration View (Page 41)
- DataSMART Application Network Configuration View (Page 43)
- DataSMART Application System Configuration View (Page 44)
- DataSMART Application Terminal Interface Configuration View (Page 46)

IP Address (find/change)
- Device View (Page 10)
- Secondary Address Panel (Page 13)

FrameVision Information (check/change)
- FrameVision Standard Application (FrameVisStdApp) (Page 46)
Tasks

- *FrameVision Fping Application ( FrmVisFpingApp)* (Page 55)

Network Type (check)
- *Network Type Label* (Page 12)

Performance (check)
- *Device View* (Page 10)
- *Interface Icons* (Page 11)
- *Performance Views* (Page 60)

Topology (check)
- *Device Topology View* (Page 14)
This section describes the Device view and subviews available for models of Kentrox ADC devices in SPECTRUM.

Access: From the Icon Subviews menu for the Device icon, select Device.

This view (Figure 2) uses icons and labels to represent the device and its components, such as modules, ports, and applications. The view provides dynamic configuration and performance information for each of the device’s serial and network I/O ports, which are represented by Interface icons in the bottom panel of the view. The middle panel of the view displays a Device icon, which lets you monitor the device operation and access other device-specific views.

Figure 2: Device View
Interface Icons

Figure 3 shows a close-up of an Interface icon from the Device view. Most of the informational labels on the icon also provide double-click access to other views, as explained in the following label descriptions.

![Interface Icon Diagram]

- **a** Interface Number Label
- **b** IF Status Label
- **c** Interface Type Label
- **d** Network Type Label
- **e** Physical Address Label
- **f** IP Address Label

**Interface Number Label**
This label displays the interface (port) number.

**IF Status Label**
This label displays the current status of the interface for the primary application selected, e.g., Gen Rtr App or MIB-II App. Table 1 lists the possible label color representations. Note that the color of the label also depends on the interface’s current Administrative Status, which you set in the Interface Configuration view. This view can be accessed by double-clicking the Interface Type label.

<table>
<thead>
<tr>
<th>Color</th>
<th>Operational Status</th>
<th>Administrative Status</th>
<th>Label Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>up</td>
<td>up</td>
<td>ON</td>
</tr>
<tr>
<td>Blue</td>
<td>down</td>
<td>down</td>
<td>OFF</td>
</tr>
<tr>
<td>Yellow</td>
<td>down</td>
<td>up</td>
<td>OFF</td>
</tr>
<tr>
<td>Red</td>
<td>testing</td>
<td>testing</td>
<td>TEST</td>
</tr>
</tbody>
</table>

**Interface Type Label**
This label identifies the interface type (Ethernet, ATM, etc.). Double-click this label to access the Interface Configuration View.
**Network Type Label**
This label identifies the type of network to which the interface is connected. Double-click the label to open the Model Information view for the interface.

**Physical Address Label**
This label displays the physical (MAC) address of the interface. Double-click this label to open the IF Address Translation Table.

**IP Address Label**
This label displays the IP address for the interface. Double-click this label to open the Secondary Address Panel (Page 13), which lets you change the address and mask for the interface.

**Interface Icon Subviews Menu**
Table 2 lists the device-specific interface Icon Subviews menu options and the views to which they provide access.

<table>
<thead>
<tr>
<th>Option</th>
<th>Accesses the...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detail</td>
<td>Interface Detail view, which displays packet, error, and discard breakdown statistics for the interface.</td>
</tr>
<tr>
<td>Sub-Interfaces</td>
<td>Sub-Interfaces Topology View (see SPECTRUM Views).</td>
</tr>
<tr>
<td>IF Configuration</td>
<td>Interface Configuration View (see SPECTRUM Views).</td>
</tr>
<tr>
<td>Address Translation Table</td>
<td>Address Translation Table (AT), which identifies the physical and network address for the interface.</td>
</tr>
<tr>
<td>Secondary Address Panel</td>
<td>Secondary Address Panel (Page 13).</td>
</tr>
<tr>
<td>Thresholds</td>
<td>Interface Threshold view, which lets you set the on/off alarm thresholds for load, packet rate, error rate, and % discarded for the interface.</td>
</tr>
<tr>
<td>Model Information</td>
<td>Model Information View (Page 63).</td>
</tr>
<tr>
<td>Trap Configuration</td>
<td>Interface Trap Configuration view (see How to Manage Your Network with SPECTRUM).</td>
</tr>
</tbody>
</table>
Secondary Address Panel

**Access:** From the **Icon Subviews** menu for the Interface icon in the **Device view,** select **Secondary Address Panel.**

This panel provides a table of IP addresses and masks obtained from the Address Translation table within the device’s firmware. You can change the current address displayed in the **IP Address** field by selecting an entry from the table in this panel and clicking the **Update** button.
This section describes the Device Topology view available for models of the Kentrox ADC devices.

**Access:** From the **Icon Subviews** menu for the Device icon, select **DevTop**.

The Device Topology view (Figure 4) shows the connections between a modeled device and other network entities. The lower panel of the view uses Interface icons to represent the device’s serial, network, and I/O ports. These icons provide the same information and menu options as those in the **Device View** (Page 10). If a device is connected to a particular interface, a Device icon appears on the vertical bar above the Interface icon along with an icon representing the network group that contains the device.

Refer to the **SPECTRUM Views** documentation for details on Device Topology view.

Figure 4: **Device Topology View**

![Device Topology View](image)
Application Views

This section describes the main Application view and the associated application-specific subviews available for models of Kentrox ADC devices in SPECTRUM.

**Access:** From the **Icon Subviews** menu for the Device icon, select **Application**.

**Main Application View**

When a device model is created, SPECTRUM automatically creates models for each of the major and minor applications supported by the device. The main Application view identifies all of these application models, shows their current condition status, and provides access to application-specific subviews. **Figure 5** shows this view in the Icon mode. If you prefer the List mode, which displays applications as text labels, select **View > Mode > List**.

For more information on this view, refer to the **MIBs and the Application View** documentation.
Supported Applications

SPECTRUM’s applications can be grouped within two general categories as follows:

- Applications associated with non proprietary MIBs. See Common Applications below.
- Applications associated with device-specific MIBs. See Device-Specific MIBs (Page 17).

Common Applications

For the most part, these applications represent the non proprietary MIBs supported by your device. Listed below (beneath the title of the SPECTRUM document that describes them) are some of the common applications currently supported by SPECTRUM.

Note: The documents listed below (in bold font) are available for viewing at: www.aprisma.com/manuals/

- Routing Applications
  - Generic Routing
  - Repeater
  - AppleTalk
  - DECnet
  - OSPF
- OSPF2
- BGP4
- VRRP
- RFC 2932

- Bridging Applications
  - Ethernet Special Database
  - Spanning Tree
  - Static
  - Transparent
  - PPP Bridging
  - Source Routing
  - Translation
  - QBridge

- MIB II Applications
  - SNMP
  - IP
  - ICMP
  - TCP
  - System2
  - UDP

- Transmission Applications
  - FDDI
  - Point to Point
  - DS1
  - DS3
Application Views

- RS-232
- WAN
- Frame Relay
- Token Ring
- Ethernet
- Fast Ethernet
- rfc1317App
- rfc1285App
- rfc1315App
- 802.11App
- SONET

- Technology Applications
  - APPN
  - ATM Client
  - DHCP
  - DLSw
  - PNNI
  - rfc1316App
  - RFC 1514
  - RFC 2287
  - RFC 2790
  - RFC 2925

- DOCSIS Applications
  - DOCSISCbIDvApp
  - DOCSISQOSApp
  - DOCSISBPI2App

- Supported Applications
  - DOCSISBPIApp
  - DOCSISIFApp

- Digital Subscriber Line (DSL) Applications
  - ADSL

Device-Specific MIBs

SPECTRUM imports the following device-level proprietary MIBs into its database:

- Kentrox DataSMART MIB
- FrameVisionSTD.MIB
- FrameVisionFPING.MIB

These MIBs can be used in conjunction with SPECTRUM’s optional customization products (referred to as the Level I Tool Kits) to create application models and views that display the condition of selected MIB objects.

Note: Aprisma Management Technologies can provide training, technical assistance, and custom engineering support services for creating application models and their associated views.

The views available for the Kentrox ADC device-specific applications are described in the rest of this section as listed below:
Kentrox DataSMART Application (DataSMARTApp)

This major application provides the following application-specific views:

- **DataSMART Application Statistics Table View** (Page 19)
- **DataSMART Application User Time Counts Table View** (Page 20)
- **DataSMART Application User Current Table View** (Page 20)
- **DataSMART Application User Interval Table View** (Page 22)
- **DataSMART Application User Total Table View** (Page 22)
- **DataSMART Application User Day Table View** (Page 23)
- **DataSMART Application Carrier Current Table View** (Page 24)
DataSMART Application Statistics Table View

Access: From the Icon Subviews menu for the DataSMARTApp icon, select Statistics.

Index
The index into the Statistics Table. Valid values are: Network Interface, Terminal Interface, and Far End Network Interface.

Error Free Seconds
The total number of Error Free Seconds since the counters have been cleared.

CRC Errors
The total number of CRC errors since the counters have last been cleared.

OOF Errors
The total number of Out Of Frame errors since the counters have been cleared.

Frame Bit Errors
The total number of Frame Bit Errors since the counters have been cleared.

Bipolar Violations
The total number of Bipolar Violations since the counters have last been cleared.
Loss of Frame Events
The total number of Loss of Frame events since the counters have been cleared.

DataSMART Application User Time Counts Table View

Access: From the Icon Subviews menu for the DataSMARTApp icon, select User>Time Counts.

Index
The index to the User Time Counts Table. The valid values are Network Interface, Terminal Interface, and Far End Network Interface.

Seconds in Current Interval
The number of seconds in the current 15-minute interval.

Completed 15 Min. Intervals
The number of completed 15-minute intervals.

Completed Days
The number of completed days in the Day Table.

DataSMART Application User Current Table View

Access: From the Icon Subviews menu for the DataSMARTApp icon, select User>Current.

Index
The index for the User Current Table. The valid values are Network Interface, Terminal Interface, and Far End Network Interface.

EE
The number of Event Errors encountered by a DS1/E1 interface in the current 15-minute interval.

ES
The number of Errored Seconds encountered by a DS1/E1 interface in the current 15-minute interval.

BES
The number of Bursty Errored Seconds encountered by a DS1/E1 interface in the current 15-minute interval.

SES
The number of Severely Errored Seconds encountered by a DS1/E1 interface in the current 15-minute interval.
UAS
The number of Unavailable Seconds encountered by a DS1/E1 interface in the current 15-minute interval.

CSS
The number of Controlled Slip Seconds encountered by a DS1/E1 interface in the current 15-minute interval.

DM
The number of Degraded Minutes encountered by a DS1/E1 interface in the current 15-minute interval.

Status
The error conditions encountered by a DS1/E1 interface in the current 15-minute interval. The error conditions are signified by a single character. The possible values are:

<table>
<thead>
<tr>
<th>Table 3: Error Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>C</td>
</tr>
<tr>
<td>B</td>
</tr>
<tr>
<td>L</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>An OOF condition has occurred on the received T1/E1 signal.</td>
</tr>
<tr>
<td>E</td>
<td>An ERR condition has occurred on the received T1/E1 signal.</td>
</tr>
<tr>
<td>A</td>
<td>An AIS condition has occurred on the received T1/E1 signal.</td>
</tr>
<tr>
<td>Y</td>
<td>A Yellow alarm has occurred on the received T1/E1 signal.</td>
</tr>
<tr>
<td>@</td>
<td>There is an active alarm.</td>
</tr>
<tr>
<td>T</td>
<td>There is a loop back, code generation, or BERT active.</td>
</tr>
<tr>
<td>N</td>
<td>The unit was without power.</td>
</tr>
</tbody>
</table>
**DataSMART Application User Interval Table View**

**Access:** From the Icon Subviews menu for the DataSMARTApp icon, select **User>Interval**.

**Index**
The index for the User Interval Table.

**Interval**
The interval number.

**EE**
The number of Event Errors encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.

**ES**
The number of Errored Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.

**BES**
The number of Bursty Errored Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.

**SES**
The number of Severely Errored Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.

**UAS**
The number of Unavailable Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.

**CSS**
The number of Controlled Slip Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.

**DM**
The number of Degraded Minutes encountered by a DS1/E1 interface.

**Status**
The error conditions encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals. The error conditions are signified by a single character. See Table 3.

**DataSMART Application User Total Table View**

**Access:** From the Icon Subviews menu for the DataSMARTApp icon, select **User>Total**.

**Index**
The index for the User Total Table.

**EE**
The number of Event Errors encountered by a DS1/E1 interface in the last 24 hours.

**Data Management**

**ADC Kentrox DataSMART**
**Application Views**

**Kentrox DataSMART Application (DataSMARTApp)**

**ES**
The number of Errored Seconds encountered by a DS1/E1 interface in the last 24 hours.

**BES**
The number of Bursty Errored Seconds encountered by a DS1/E1 interface in the last 24 hours.

**SES**
The number of Severely Errored Seconds encountered by a DS1/E1 interface in the last 24 hours.

**UAS**
The number of Unavailable Seconds encountered by a DS1/E1 interface in the last 24 hours.

**CSS**
The number of Controlled Slip Seconds encountered by a DS1/E1 interface in the last 24 hours.

**DM**
The number of Degraded Minutes encountered by a DS1/E1 interface in the last 24 hours.

**Status**
The error conditions encountered by a DS1/E1 interface in the last 24 hours. The error conditions are signified by a single character. See Table 3.

**DataSMART Application User Day Table View**

**Access:** From the Icon Subviews menu for the DataSMARTApp icon, select **User>Day**.

**Index**
The index for the User Day Table.

**Day**
The User Day Table day index. The valid values are from 1 to 7 days.

**EE**
The number of Event Errors encountered by a DS1/E1 interface in one of the previous days.

**ES**
The number of Errored Seconds encountered by a DS1/E1 interface in one of the previous days.

**BES**
The number of Bursty Errored Seconds encountered by a DS1/E1 interface in one of the previous days.

**SES**
The number of Severely Errored Seconds encountered by a DS1/E1 interface in one of the previous days.
UAS
The number of Unavailable Seconds encountered by a DS1/E1 interface in one of the previous days.

CSS
The number of Controlled Slip Seconds encountered by a DS1/E1 interface in one of the previous days.

DM
The number of Degraded Minutes encountered by a DS1/E1 interface in one of the previous days.

Status
The error conditions encountered by a DS1/E1 interface in the last 24 hours. The error conditions are signified by a single character. See Table 3.

DataSMART Application Carrier Current Table View

Access: From the Icon Subviews menu for the DataSMARTApp icon, select Carrier>Current.

Elapsed Seconds
The number of seconds that have elapsed in the current interval.

Elapsed 15 Minute Intervals
The number of 15-minute intervals that have elapsed in the current 24-hours.

Event Errors
The number of Event Errors encountered by the Network Interface in the current 15-minute interval.

Errored Seconds
The number of Errored Seconds encountered by the Network Interface in the current 15-minute interval.

Bursty Error Seconds
The number of Bursty Errors encountered by the Network Interface in the current 15-minute interval.

Severely Errored Seconds
The number of Severely Errored Seconds encountered by the Network Interface in the current 15-minute interval.

Unavailable Seconds
The number of Unavailable Seconds encountered by the Network Interface in the current 15-minute interval.
**Controlled Slip Seconds**
The number of Controlled Slip Seconds encountered by the Network Interface in the current 15-minute interval.

**Loss of Frame Count**
The Loss of Frame Count for the Network Interface in the current 15-minute interval.

**DataSMART Application Carrier Interval Table View**

**Access:** From the **Icon Subviews** menu for the **DataSMARTApp** icon, select **Carrier>Interval**.

**Interval**
The number of the 15-minute interval (1-96) from the previous 24-hour period. 1 is the most recent.

**EE**
The number of Event Errors encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.

**ES**
The number of Errored Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.

**BES**
The number of Bursty Errored Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.

**SES**
The number of Severely Errored Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.

**UAS**
The number of Unavailable Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.

**CSS**
The number of Controlled Slip Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.

**LOFC**
The Loss of Frame Count for the Network Interface for one of the previous 96 15-minute intervals.
**DataSMART Application Carrier Total View**

**Access:** From the Icon Subviews menu for the DataSMARTApp icon, select Carrier>Total.

**Event Errors**
The number of Event Errors encountered by the Network Interface in the past 24 hours.

**Errored Seconds**
The number of Errored Seconds encountered by the Network Interface in the past 24 hours.

**Bursty Error Seconds**
The number of Bursty Errors encountered by the Network Interface in the past 24 hours.

**Severely Errored Seconds**
The number of Severely Errored Seconds encountered by the Network Interface in the past 24 hours.

**Unavailable Seconds**
The number of Unavailable Seconds encountered by the Network Interface in the past 24 hours.

**Controlled Slip Seconds**
The number of Controlled Slip Seconds encountered by the Network Interface in the past 24 hours.

**Loss of Frame Count**
The Loss of Frame Count for the Network Interface in the past 24 hours.

**DataSMART Application User Interface Page Display View**

**Access:** From the Icon Subviews menu for the DataSMART Application icon, select Page Display.

**Page Break Type**
This determines if the user interface uses page breaks or ‘more’ prompts when displaying information which is longer than the defined page length (e.g., output from UNLR or SCV). A page length of 0 will disable both page breaks and ‘more’ prompts. Options are more and breaks.

**Page Length**
The length of a page of information. When the set number of lines has been displayed, a ‘more’ prompt or linefeed will be inserted. A page length of 0 causes output to scroll continuously without page breaks or more prompts.
DataSMART Application Alarm History Table View

Access: From the Icon Subviews menu for the DataSMARTApp icon, select Alarm History.

Index
The Alarm History Table Index. Index 1 is the most recent alarm.

Alarm Message
The alarm message in USER format.

DataSMART Application Security History Report Table View


Index
The Security History Report table index. Events are in chronological order.

Data and Time
A display string showing the date and time that the security related event occurred.

Event Type
The type of security event that occurred.

Comments
Additional information specific to the type of event.

DataSMART Application FRIB Time Counts Table View

Access: From the Icon Subviews menu for the DataSMARTApp icon, select FRIB>Time Counts.

Direction Index
The direction index to the FRIB Time Counts Table. The valid options are Transmit and Receive.

Seconds in Current 2-Hour Interval
The number of seconds in the current 2-hour interval.

2-Hour Intervals Completed
The number of completed 2-hour intervals in the Interval Table.

Days Completed
The number of completed days in the Day Table.
DataSMART Application FRIB Previous 15 Min Table View

**Access:** From the **Icon Subviews** menu for the DataSMARTApp icon, select **FRIB>Previous 15 Min.**

**Direction**
The direction index to the FRIB Previous 15 Minute Table. Options are Transmit and Receive.

**VC Index**
The VC Index. The table has 64 entries for individual VS, a value of 1 through 64, and 1 entry for all other VCs, a value of 65.

**VC**
The VC for this entry in this table.

**Frames**
The number of Frame Relay packets transmitted or received during the previous 15-minute interval.

**Octets**
The number of octets transmitted or received during the previous 15-minute interval.

**Kb/Sec**
The Kilobit/second rate for data transmitted or received during the previous 15-minute interval.

**Max FPING**
The maximum FPING roundtrip time (in milliseconds) of all FPINGs on this VC during the previous 15-minute interval.

**FPING Avg**
The average FPING round trip time (in milliseconds) of all FPINGs on this VC during the previous 15-minute interval.

**FPINGS Lost**
The number of FPINGs responses that were not returned on this VC during the previous 15-minute interval.

**FPINGS Sent**
The number of FPINGs transmitted on this VC during the previous 15-minute interval.

**Status**
The status summary of this VC during the previous 15-minute interval:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>U</td>
<td>UC link is up.</td>
</tr>
<tr>
<td>D</td>
<td>UC link is down.</td>
</tr>
<tr>
<td>B</td>
<td>At least one frame had the BECN bit set.</td>
</tr>
</tbody>
</table>
Table 4: Status Summary Values (Continued)

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>At least one frame had the FECN bit set.</td>
</tr>
<tr>
<td>E</td>
<td>At least one frame had the DE bit set.</td>
</tr>
<tr>
<td>P</td>
<td>The total pipe threshold for utilization was exceeded.</td>
</tr>
<tr>
<td>V</td>
<td>The roundtrip threshold for this VC was exceeded.</td>
</tr>
</tbody>
</table>

DataSMART Application FRIB Current 15 Min Table View

Access: From the Icon Subviews menu for the DataSMARTApp icon, select FRIB>Current 15 Min.

Direction
The direction index to the FRIB Current 15 Minute Table. Options are Transmit and Receive.

VC Index
The VC Index. The table has 64 entries for individual VS, a value of 1 through 64, and 1 entry for all other VCs, a value of 65.

VC
The VC for this entry in this table.

Frames
The number of Frame Relay packets transmitted or received during the current 15-minute interval.

Octets
The number of octets transmitted or received during the current 15-minute interval.

Kb/Sec
The Kilobit/second rate for data transmitted or received during the current 15-minute interval.

Max FPING
The maximum FPING roundtrip time (in milliseconds) of all FLINGs on this VC during the current 15-minute interval.

FPING Avg
The average FPING round trip time (in milliseconds) of all FPINGs on this VC during the current 15-minute interval.

FPINGS Lost
The number of FPINGs responses that were not returned on this VC during the current 15-minute interval.

FPINGS Sent
The number of FPINGs transmitted on this VC during the current 15-minute interval.
Remote IP
The IP address of the unit at the remote end of the VC.

Remote VC Status
The status summary of this VC during the current 15-minute interval. See Table 4 for the values.

DataSMART Application FRIB Current 2 Hour Table View

Access: From the Icon Subviews menu for the DataSMARTApp icon, select FRIB>Current 2 Hour.

Direction
The direction index to the FRIB Current 2 Hour Table. Options are Transmit and Receive.

VC Index
The VC Index. The table has 64 entries for individual VS, a value of 1 through 64, and 1 entry for all other VCs, a value of 65.

VC
The VC for this entry in this table.

Frames
The number of Frame Relay packets transmitted or received during the current 2-hour interval.

Octets
The number of octets transmitted or received during the current 2-hour interval.

Kb/Sec
The Kilobit/second rate for data transmitted or received during the current 2-hour interval.

Max FPING
The maximum FPING roundtrip time (in milliseconds) of all FLINGs on this VC during the current 2-hour interval.

FPING Avg
The average FPING round trip time (in milliseconds) of all FPINGs on this VC during the current 2-hour interval.

FPINGs Lost
The number of FPINGs responses that were not returned on this VC during the current 2-hour interval.

FPINGs Sent
The number of FPINGs transmitted on this VC during the current 2-hour interval.

Status
The status summary of this VC during the current 2-hour interval. See Table 4 for the status options.
**DataSMART Application FRIB 2 Hour Table View**

**Access:** From the **Icon Subviews** menu for the DataSMARTApp icon, select **FRIB>2 Hour**.

**Direction**
The direction index to the FRIB Current 2 Hour Table. Options are **Transmit** and **Receive**.

**VC Index**
The VC Index. The table has 64 entries for individual VS, a value of 1 through 64, and 1 entry for all other VCs, a value of 65.

**Interval**
The interval number. It will be the number of completed 2-hour intervals since the unit has been powered up. After 24 hours, this value remains constant at 12 intervals. 1 is the most recent interval.

**VC**
The VC for this entry in this table.

**Frames**
The number of Frame Relay packets transmitted or received during one of the previous 12 2-hour intervals.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octets</td>
<td>The number of octets transmitted or received during one of the previous 12 2-hour intervals.</td>
</tr>
<tr>
<td>Kb/Sec</td>
<td>The Kilobit/second rate for data transmitted or received during one of the previous 12 2-hour intervals.</td>
</tr>
<tr>
<td>Max FPING</td>
<td>The maximum FPING roundtrip time (in milliseconds) of all FPINGs on this VC during one of the previous 12 2-hour intervals.</td>
</tr>
<tr>
<td>FPING Avg</td>
<td>The average FPING round trip time (in milliseconds) of all FPINGs on this VC during one of the 12 2-hour intervals.</td>
</tr>
<tr>
<td>FPINGS Lost</td>
<td>The number of FPINGs responses that were not returned on this VC during one of the previous 12 2-hour intervals.</td>
</tr>
<tr>
<td>FPINGS Sent</td>
<td>The number of FPINGs transmitted on this VC during one of the previous 12 2-hour intervals.</td>
</tr>
<tr>
<td>Status</td>
<td>The status summary of this VC during the current 2-hour interval. See Table 4 for the status options.</td>
</tr>
</tbody>
</table>
DataSMART Application FRIB Total Table View

**Access:** From the Icon Subviews menu for the DataSMARTApp icon, select FRIB>Total.

**Direction**
The direction index to the FRIB Total Table. Options are Transmit and Receive.

**VC Index**
The VC Index. The table has 64 entries for individual VS, a value of 1 through 64, and 1 entry for all other VCs, a value of 65.

**VC**
The VC for this entry in this table.

**Frames**
The number of Frame Relay packets transmitted or received during the past 24 hours.

**Octets**
The number of octets transmitted or received during the past 24 hours.

**Kb/Sec**
The Kilobit/second rate for data transmitted or received during the past 24 hours.

**Max FPING**
The maximum FPING round-trip time (in milliseconds) of all FLINGs on this VC during the past 24 hours.

**FPING Avg**
The average FPING round trip time (in milliseconds) of all FPINGs on this VC during the past 24 hours.

**FPINGS Lost**
The number of FPINGs responses that were not returned on this VC during the past 24 hours.

**FPINGS Sent**
The number of FPINGs transmitted on this VC during the past 24 hours.

**Status**
The status summary of this VC during the past 24 hours. See Table 4 for the status options.
DataSMART Application FRIB Day Table View

Access: From the Icon Subviews menu for the DataSMARTApp icon, select FRIB>Day.

Direction
The direction index to the FRIB Day Table. Options are Transmit and Receive.

VC Index
The VC Index. The table has 64 entries for individual VS, a value of 1 through 64, and 1 entry for all other VCs, a value of 65.

Day
The FRIB Day table index. The valid values are 1 to 7 days. 1 is the most recent interval.

VC
The VC for this entry in this table.

Frames
The number of Frame Relay packets transmitted or received during one of the previous days.

Octets
The number of octets transmitted or received during one of the previous days.

Kb/Sec
The Kilobit/second rate for data transmitted or received during one of the previous days.

Max FPING
The maximum FPING round-trip time (in milliseconds) of all FLINGs on this VC during one of the previous days.

FPING Avg
The average FPING round trip time (in milliseconds) of all FPINGs on this VC during one of the previous days.

FPINGS Lost
The number of FPINGs responses that were not returned on this VC during one of the previous days.

FPINGS Sent
The number of FPINGs transmitted on this VC during one of the previous days.

Status
The status summary of this VC during one of the previous days. See Table 4 for the status options.
DataSMART Application FRIB Utilization Report Table View

**Access:** From the Icon Subviews menu for the DataSMARTApp icon, select FRIB>Utilization.

**Direction**
The direction index to the FRIB Utilization Report Table. Receive is currently not supported and will return a value of 0 for the counter values.

**VC Index**
The VC Index. The table has 64 entries for individual VS, a value of 1 through 64, and 1 entry for all other VCs, a value of 65.

**CIR Threshold Exceeded**
The number of times the CIR threshold was exceeded.

**Octets Exceeding CIR**
The number of octets that exceeded the CIR threshold.

**EIR Threshold Exceeded**
The number of times the EIR threshold was exceeded.

**Octets Exceeding EIR**
The number of octets the exceeded the EIR threshold.

DataSMART Application Local Maintenance View

**Access:** From the Icon Subviews menu for the DataSMARTApp icon, select Maintenance>Local.

**Active Loopback**
The type of loopback that is currently active. The following types are available: None, Line, Payload, Local, TiTest, Data Port 1, Data Port 2, Data Terminal on Port 1, Data Terminal on Port 2, CSU, DSU, and Data Port/Data Terminal.

**Self Test State**
This field will start a self test operation when set to Start. At the completion of the test, it will return to its normal state of Idle.

**Self Test Results**
The results of the last self test operation.
DataSMART Application Remote Maintenance View

**Access:** From the **Icon Subviews** menu for the DataSMARTApp icon, select **Maintenance>Remote**.

**Current Loopback**
The type of remote loopback that is currently set. The possible values are None, Reset, Line, Payload, Data Port 1, and Data Port 2.

**Test Code**
The type of remote test code that is currently being sent. The possible values are None, QRS, 3-in-24, Ones, Zeroes, 511 from Data Port 1, 511 from Data Port 2, 2047 from Data Port 1, 2047 from Data Port 2, 2 to the 23, and 2 to the 15.

**BERT State**
The current BERT state. The possible values are Idle, OtherStart, Searching, and Found.

**BERT Code**
This allows you to control the activation of BERT tests. The possible values are None, QRS, 3-in-24, Ones, Zeroes, 511 from Data Port 1, 511 from Data Port 2, 2047 from Data Port 1, 2047 from Data Port 2, 2 to the 23, and 2 to the 15.

**BERT Bit Errors**
The number of bit errors detected since the start of the BERT.

**BERT Resyncs**
The number of times BERT has lost and reacquired the pattern.

**BERT Test Seconds**
The number of seconds the requested test code has been detected since the start of the BERT.

**BERT Errored Seconds**
The number of errored seconds detected since the start of the BERT.

DataSMART Application FPING Configuration View

**Access:** From the **Icon Subviews** menu for the DataSMARTApp icon, select **Configuration>FPING**.

**FPING Action**
The control actions for the FPING test. Possible values are Start and Stop.

**FPING State**
The current state of the FPING tester. A value of Idle means no FPINGS are being generated. OtherStart indicates that FPINGS are being generated, and the test was started via one of the
other management interfaces. FPINGRunning indicates the test was started via SNMP.

**Transmit Frequency**
The frequency (in seconds) that FPING packets will be transmitted. The default is 5.

**Total Packets Transmitted**
The total number of FPING packets transmitted during this test.

**Packet Length**
The length (in octets) of the payload portion of the FPING packets.

**Packets Lost**
The number of FPING packets lost during this test.

**VC**
The VC that FPINGs will be sent on.

**Remote VC**
The VC used at the remote end of the circuit.

**Remote IP**
The IP address of the unit responding to FPINGs.

**Last Roundtrip Time**
The roundtrip time (in milliseconds) of the last FPING sent.

**Minimum Roundtrip Time**
The minimum roundtrip time (in milliseconds) of all FPINGs sent during this test.

**Average Roundtrip Time**
The average roundtrip time (in milliseconds) of all FPINGs sent during this test.

**Maximum Roundtrip Time**
The maximum roundtrip time (in milliseconds) of all FPINGs sent during this test.

**Insert Bit Errors**
Inserts a single bit-error into the test pattern being transmitted at the NI. Possible values are `insertBitError` and `noInsertBitError`.

**DataSMART Application Alarm Configuration View**

**Access:** From the Icon Subviews menu for the DataSMARTApp icon, select **Configuration>Alarm**.

This view provides the following alarm information.

**Message**
This controls the displaying/sending of alarm messages. Alarm messages will be sent if this is set to **Enable**. A setting of **Disable** will prevent messages from being sent.
Deactivation Time
This controls the number of seconds an alarm condition must remain clear before the unit declares it as cleared. The range is from 0 to 15 seconds.

Errored Seconds Threshold
This determines the threshold of Errored Seconds that triggers an Excessive Error Rate (ERR) alarm. Setting this field to zero disables errored seconds causing an EER alarm.

Unavailable Seconds Threshold
This determines the threshold of unavailable seconds that triggers an Excessive Error Rate (EER) alarm. Setting this to zero disables unavailable seconds causing an EER alarm.

Excessive Error Rate Generation Time
This determines the window used to calculate whether an EER alarm should be generated from errored seconds or unavailable seconds. Setting this to 15 Minute Sliding Window establishes a 15 minute sliding window. The other option is a 60 Minute Sliding Window.

Bit Error Rate Alarm
This controls the sending of a Bit Error Rate (BER) alarm. The possible values are Enable or Disable.

Yellow Alarms
This determines if incoming Yellow Alarms will cause an alarm message to be sent. To allow an alarm to be sent when a Yellow Alarm is received on the Network Interface, set to Enable. To prevent the message from being sent, set to Disable.

Remote Frame Alarm
This controls the sending of a Remote Frame Alarm (RFA). The possible values are Enable and Disable.

Alarm Indication Alarms
This controls the sending of Alarm Indication Signal (AIS) alarms. The possible values are Enable and Disable.

DataSMART Application Control Port Configuration View
Access: From the Icon Subviews menu for the DataSMARTApp icon, select Configuration>Control Port.

Character Echo
This controls character echo on the control port. Possible values are Enable and Disable.

Baud Rate
The baud rate of the control port. The possible values are 2400, 9600, 19200 and 38400.
Data Bits
The number of data bits for the control port. The possible values are 7 bits or 8 bits.

Control Port Type
The control port type of the control port. Possible values are DTE and DCE.

Parity
The parity of the control port. The possible values are None, Even, and Odd.

Stop Bits
The number of stop bits for the control port. The possible values are 1 stop bit and 2 stop bits.

DCE Input Status
The input status of the DCE signals RTS and DTR. The possible values are Both and Both Off.

DTE Input Status
The input status of the DTE signals RTS and DTR. The possible values are Both On and Both Off.

DataSMART Application Data Port Configuration Table View

Access: From the Icon Subviews menu for the DataSMARTApp icon, select Configuration>Data Port.

Index
The index to the Data Port Configuration Table. The possible values are 1 through 2.

Clock Source
The clock source for the data port. The possible values are Disable and Enable.

Tx Clock Date Inversion
The inversion status of the transmit clock signal for the data port. The possible values are Disable and Enable.

Rx Clock Data Inversion
The inversion status of the received clock signal for the data port. The possible values are Enable and Disable.

Loss of Signal Input
The combination of RTS and DTR that will cause a data port Loss of Signal alarm. The possible values are RTS (LOS is declared when RTS is lost), DTR (LOS is declared when DTR is lost), None, and Both.
DataSMART Application
Fractional T1 Configuration Table View

**Access:** From the *Icon Subviews* menu for the *DataSMARTApp* icon, select *Configuration>Fractional T1*.

This table consists of configuration information about DS1/E1 fractional services.

**Active Fractional Table State**
The Fractional Table State, either *idle* or *active*.

**Channel 16 Availability**
This field determines if channel 16 is available for user payload data. This is only possible if the unit is configured for Common Channel Signalling. The possible values are *Unavailable* or *Available*.

**Table Index**
The index into the Fractional Table. The possible values are *Stored Configuration A*, * Stored Configuration B*, and *Currently Executing fractional table*.

**Channel Index**
The index of the fractional channel. DS1 has 24 channels and E1 has 32.

---

**Channel Map**
The destination and data rate of the channel. The possible values are:

### Table 5: Channel Destination/Data Rate

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Idle</td>
<td>The channel is idle.</td>
</tr>
<tr>
<td>TiData</td>
<td>The channel carries date and is mapped to a TI channel.</td>
</tr>
<tr>
<td>TiVoice</td>
<td>The channel carries voice and is mapped to a TI channel.</td>
</tr>
<tr>
<td>56Dp1</td>
<td>The channel is set for 56k and is mapped to data port 1.</td>
</tr>
<tr>
<td>64Dp1</td>
<td>The channel is set for 64k and is mapped to data port 1.</td>
</tr>
<tr>
<td>56Dp2</td>
<td>The channel is set for 56k and is mapped to data port 2.</td>
</tr>
<tr>
<td>64Dp2</td>
<td>The channel is set for 64k and is mapped to data port 2.</td>
</tr>
<tr>
<td>DLNK</td>
<td>The channel is idle and set for data link communications.</td>
</tr>
<tr>
<td>DPDL</td>
<td>The channel is active and also set for data link communications.</td>
</tr>
<tr>
<td>Uanv</td>
<td>The channel is unavailable.</td>
</tr>
</tbody>
</table>
DataSMART Application Frame Management Configuration Table View

**Access:** From the Icon Subviews menu for the DataSMARTApp icon, select Configuration>Frame Management.

**Frame Type**
The frame type for packets being transmitted and received for IP connectivity. The possible values are Frame Relay NLPID, Frame Relay EtherType, ATM DXI NLPID, ATM DXI LLC/SNAP, and ATM DXI VC-based multiplexing.

**Frame Relay Address Length**
The length in octets of the Frame Relay address. The possible values are Two Octets or Four Octets.

**Upper Bandwidth Threshold**
The percent of bandwidth utilization threshold. If the threshold is exceeded, an event will be recorded in the performance data and a trap (if configured) will be sent. Valid values are 5 to 95, in increments of 5.

**Frame Relay FCS Length**
The length in bits of the Frame Relay FCS. The possible values are 16 Bits or 32 Bits.

**FPING Operation**
Allows you to enable/disable FPING operation. Valid values are Enable and Disable.

**FPING Generation**
The number of distinct VC to be received on the NI before FPINGs are automatically sent out.

**FPING Threshold**
The maximum roundtrip time of a FPING packet in milliseconds. If the threshold is exceeded, an event will be recorded in the performance data and a trap (if configured) will be sent. Valid values are 20 to 2000, in increments of 10.

**Reset VC**
Allows you to reset the specified VC to an initial state where FPING connectivity is checked for. Valid values are 0-1023 for a 2 octet address field and 0-8388607 for a 4 octet address field.

**Add VC**
Allows you to add a VC to the list of monitored VCs.

**Delete VC**
Allows you to delete a VC from the list of monitored VCs.
DataSMART Application Management Configuration View

**Access:** From the **Icon Subviews** menu for the DataSMARTApp icon, select **Configuration>Management.**

**Management Access Ports**
The management access ports for Telnet and SNMP. The valid values are **Ethernet**, **PPP/SLIP**, **SLIP**, **Data Link**, **Ethernet_SLIP**, **Ethernet_SLIP_Data Link**, **PPP/SLIP_Data Link**, **SLIP_Data Link**, and **InBand Frame Relay**.

**T1 Data Link Path**
The T1 DataLink value. This configuration is used if the NETIF has a DataLink component.

**Default IP Router**
The unit’s default IP router.

**IPort**
The interface which In-band IP traffic is used to communicate with the unit. The possible values are **NI Port** and **DP Port**.

**SingleIP**
The status of having a Single-IP address used for the entire shelf. This setting is only valid for Shelf Controllers. The possible values are **mcEnable** and **mcDisable**.

**IVC**
The VC over which In-band IP traffic is used to communicate with the unit.

**Ethernet Port IP Address**
The unit’s Ethernet port address.

**Control Port IP Address**
The control port IP address.

**Ethernet Port SubnetMask**
The IP subnet mask for the Ethernet port.

**Data Link IP Address**
The unit’s Data Link IP address.

**InBand Port IP Address**
The In-band Port IP address.

**CtrlPort/Datalnk SbnetMsk**
The IP subnet mask for the unit’s Control Port and Data Link.

**In-band I/F Subnet Mask**
The IP subnet mask for the unit’s In-Band Interface.
DataSMART Application
Advanced Management Configuration View

Access: From the Icon Subviews menu for the DataSMARTApp icon, select Configuration>Advanced Management.

SNMP Agent
The operational status of the SNMP agent. The possible values are Enabled and Disabled.

IP Source Address Screening Security
The status of the IP source address screening security. The possible values are Enabled and Disabled.

Trap Table
This table lists the types of traps and allows each to be enabled/disabled.

Trap Type
The type of trap. There is one row for each type of trap. There are four types of traps: Start, Link, Authentication, and Enterprise.

Trap Status
Indicates whether the particular trap is Enabled or Disabled.

Source Address Screening Table
The entries in this table are the IP addresses which are allowed to access this unit.

Index
The index to the table.

IP Address
An IP address which will be permitted to access this unit. This field is combined with the subnet mask to allow a single entry to permit access by an entire subnet.

Subnet Mask
An IP subnet mask that indicates which portion of the IP address must be matched to permit access. This allows a single entry to provide access by an entire IP subnet.

SNMP Trap Destinations Table
This table lists up to 10 addresses to send SNMP traps to when alarm conditions occur.

Index
The index to the SNMP Trap Destinations Table.

IP Address
The IP address portion of a Trap Destination Entry, used when sending SNMP traps.
VC
The VC portion of a Trap Destination Entry, used when sending SNMP traps.

Port
The Port portion of a Trap Destination Entry, used when sending SNMP traps.

DataSMART Application Network Configuration View

Access: From the Icon Subviews menu for the DataSMARTApp icon, select Configuration> Network Interface.

Line Framing
The type of framing being used on the Network Interface. The possible values are SF, ESF, and Ericsson.

Line Coding
The type of line coding being used on the Network Interface. The possible values are AMI and B8ZS.

T1.403 Messages
This field enables/disables the sending of T1.403 PRM messages. The possible values are Enabled and Disabled.

Yellow Alarms
This enables/disables sending Yellow Alarm out on the Network Interface upon receipt of an alarm. The possible values are Enabled and Disabled.

54016 Addressing Mode
If 54016 addressing is enabled, this field determines what type of addressing the unit responds to. The possible values are CSU, DSU, and CSU_and_DSU.

54016 Addressing
This determines whether the interface responds to 54016 addressing modes. The possible values are Enabled and Disabled.

Line Build Out
The Line Build Out Setting. The possible values are 0.0 dB, 7.5 dB, and 15.0 dB.

Idle Code
The idle code to be transmitted in the idle NI and TI channels. This code is also sent in all TI channels when the TI is experiencing an OOF.

Time Slot 16 MF Alignment
The E1 network interface Time Slot 16 MultiFrame alignment signal setting. The possible values are Enabled and Disabled.

CRC
The E1 network interface CRC generation/checking setting. The possible values are Enabled and Disabled.
**Time Slot 0 NOT-FAS Word**
The E1 network interface Time Slot 0 NOT-FAS Word setting. The possible values are Use and Do Not Use.

**SA Bit Usage**
The E1 network interface Sa bit (additional bits) usage. If Sa bits are being used for data link communications, both the near and far end units must agree on which Sa bit to use.

**Framed Keep Alive**
The status of sending Framed Keep-Alive into the NI during alarms. The possible values are Enabled and Disabled.

**Remote Frame Alarm**
The status of sending E1 remote Frame Alarm into the NI during alarms. The possible values are Enabled and Disabled.

**T1 Remote Frame Alarm**
The status of sending the RFA received on the network interface out the terminal interface. This function is not possible on a DSU only, it must be an add/drop. This function only works if at least one channel is assigned to the TI. The possible values are Enabled and Disabled.

**DDS Operation Type**
This allows you to configure the DDS interface. It can be set to either 56k or 54k.

**Time Slot 16**
This allows you to configure the value of the Time Slot 16 E1 unit.

---

**DataSMART Application System Configuration View**

**Access:** From the Icon Subviews menu for the DataSMARTApp icon, select Configuration > System.

**Year**
The number of the current year.

**Month**
The calendar number of the current month. 1 is January.

**Day**
The number of the current day.

**Hour**
The number of the current hour. 0 is 12:00 am.

**Minute**
The number of the current minute.

**Slot Address**
The Kentrox-specific slot address.

**Shelf Address**
The Kentrox-specific shelf address.
**Group Address**  
The Kentrox-specific group address.

**Year Extension**  
The number of the current year. Four digits are used.

**Month Extension**  
The number of the current month. 1 is January.

**Day Extension**  
The number of the current day.

**Hour Extension**  
The number of the current hour. 0 is 24:00.

**Minute Extension**  
The number of the current minute.

**Second Extension**  
The number of the current second.

**Front Panel Buttons**  
The status of the front panel buttons. The possible values are Enabled and Disabled.

**DataSMART Compatibility**  
The status of the DataSMART compatibility function. This should be set to Enabled when the far end unit is an earlier model DataSMART. Possible values are Enabled and Disabled.

**Clock Source**  
The source of the timing clock. The various options are Terminal, Loop, Data Port 1, Data Port 2, and Through.

**Auto Logout**  
The time (in minutes) to wait for a keypress before logging the current user out. If this field is set to 0, the autologout is disabled.

**Zero Per Data**  
This field will set to zero all performance counters if it is set to AllStart.

**Auto-Configuration**  
This allows you to set the Auto-Configuration feature to either Enabled or Disabled.

**Site Name**  
The name of the ADCKentrox.

**TFTP**  
Displays whether TFTP download is running or not.
DataSMART Application Terminal Interface Configuration View

**Access:** From the **Icon Subviews** menu for the DataSMARTApp icon, select **Configuration** > **Terminal Interface**.

**Line Framing**
The type of framing being used on the Network Interface. The possible values are SF, ESF, and Ericsson.

**Line Coding**
The type of line coding being used on the Network Interface. The possible values are AMI and B8ZS.

**Idle Code**
The code that is sent out to the idle DS0 channels of the terminal interface.

**Line Equalization**
The line equalization for the terminal interface. The possible values are 0–133 feet, 133–166 feet, 266–399 feet, 399–533 feet, and 533–655 feet.

**Time Slot 16 MF Alignment**
The E1 terminal interface Time Slot 16 MultiFrame alignment signal setting. Possible values are Enabled and Disabled.

**CRC**
The CRC generation/checking setting, which can be Enabled or Disabled.

**Time Slot 0 NOT-FAS Word**
The Time Slot 0 NOT-FAS Word setting, which can be Enabled or Disabled.

**Alarm Indication Signal**
This field controls the sending of Alarm Indication Signal (AIS) alarms. Possible values are Enabled and Disabled.

**Remote Frame Alarm**
The status of sending E1 remote Frame Alarm into the T1 during alarms. The possible values are Enabled or Disabled.

FrameVision Standard Application (FrameVisStdApp)

**Access:** From the **Icon Subviews** menu for the DataSMART_698 device icon, select **Application**. From the application view, select the FrameVisStdApp.

This application provides the following application-specific views:

- *FrameVision Application Configuration Table View* (Page 47)
FrameVision Application Table View

**Access:** From the Icon Subviews menu for the FrmVisStdApp icon, select **Configuration**.

**IF Index**
The if index value of the corresponding if Entry.

**LastChange**
The value of sysUpTime when a variable in the Configuration Table changed.

**Frame Type**
The frame type for packets being transmitted and received for IP connectivity. The possible values are listed in **Table 6**.

**Table 6: Frame Types**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>frametypeNlpidFr</td>
<td>FRelay NLPID encapsulation</td>
</tr>
<tr>
<td>framTypeEtherFr</td>
<td>FRelay Ethertype encapsulation</td>
</tr>
<tr>
<td>frameTypeNlpidAtmDxi</td>
<td>ATM Nlpid Dxi</td>
</tr>
<tr>
<td>frameTypeL1cSnapAtmDxi</td>
<td>ATM Licsnap Dxi</td>
</tr>
<tr>
<td>frameTypeVcBasedAtmDxi</td>
<td>VC Based ATM Dxi</td>
</tr>
<tr>
<td>frameTypeUnknown</td>
<td>Unknown encapsulation</td>
</tr>
</tbody>
</table>

**AddrOctets**
The length in octets of the Frame Relay Address. The possible values are **twoOctets**, and **fourOctets**.

**FcsBitLen**
The length in bits of the Frame Relay FCS. The possible values are **frib16BitsFcs** (FCS field is 16 bits long) and **frib32bitsFcs** (FCS field is 32 bits long).
TimeIntrvl
The time measurement interval in seconds, used in CIR/EIR measurements.

MAX VCs
The maximum number of VCs this unit will monitor.

Num VCs
The number of VCs this unit is currently configured to monitor.

VcAddDLCI
Allows you to add a VC to the list of monitored VCs.

VcDElDLCI
Allows you to delete a VC from the list of monitored VCs.

FrameVision Application VC Configuration Table View
Access: From the Icon Subviews menu for the FrmVisStdApp icon, select Configuration.

LstIFIndex
The ifIndex value of the corresponding ifEntry.

List DLCI
The Data Link Connection Identifier.

List CIR
The threshold value indicating the maximum of date, in bits per second, that the network agrees to transfer under normal conditions.

List EIR
The threshold value indicating the maximum amount of data, in bits per second, that the network will attempt to deliver.

CreateTime
The value of sysUpTime at the creation of the DLCI at this unit.

FrameVision Port Monitoring View
Access: From the Icon Subviews menu for the FrmVisStdApp icon, select Port Monitoring.

IF Index
The IF Index of the corresponding ifEntry.

Avail Time
The amount of time that the interface has been operationally available (no alarm, test state or receive code) since last being cleared.

Tx Frames
The number of High-Level Data Link Control (HDLC) frames transmitted out of the interface.
Rx Frames
The number of HDLC frames received on the interface.

Tx Octets
The number of non-flag octets transmitted out of the interface.

Rx Octets
The number of non-flag octets received on the interface.

IPMgmtTxF
The number of transmitted HDLC frames that are IP management packets.

IPMgmtRxFr
The number of received HDLC frames that are IP management packets.

IPMgmtTxOc
The number of transmitted HDLC octets that are IP management packets.

IPMgmtRxOc
The number of received HDLC octets that are IP management packets.

RxInvalHdr
The number of Frame Relay frames whose header does not contain either 2, 3, or 4 octets.

RxHdlecErrs
The number of HDLC errors. This includes CRC errors, aborts, and non-octet aligned frames (frames that have a bit length not divisible by 8).

FrameVision Application Standard MIB Variables View
Access: From the Icon Subviews menu for the FrmVisStdApp icon, select MIB Variables.

Mib Version
The version number of this FrameVision Standard MIB.

Mib Last Change
The value of sysUpTime when a configuration variable in this MIB was changed.

FrameVision Standard Frib VC Statistics View
Access: From the Icon Subviews menu for the FrmVisStdApp icon, select VC Statistics.

IF Index
The IFIndex value of the corresponding ifEntry.

DLCI
The Data Link Common Identifier.
**Application Views**

**FrameVision Standard Application (FrameVisStdApp)**

**Tx Frames**
The number of frames transmitted on the Virtual Circuit (VC).

**RxFrames**
The number of frames received on the VC.

**TxOctets**
The number of non-flag octets transmitted on the VC.

**RxOctets**
The number of non-flag octets received on the VC.

**TxDEs**
The number of frames transmitted on the VC with the DE bit set.

**RxDEs**
The number of frames received on the VC with the DE bit set.

**TxFECNs**
The number of frames transmitted on the VC with the Forward Explicit Congestion Notification (FECN) bit set.

**RxFECNs**
The number of frames received on the VC with the FECN bit set.

---

**FrameVision Frib Vc Utility View**

**Access:** From the **Icon Subviews** menu for the **FrmVisStdApp** icon, select **VC Utility**.

**IF Index**
The ifindex value of the corresponding ifEntry.

**DLCI**
The Data Link Connection Identifier.

**CirXceedTx**
Each count represents a measurement interval of fribCfgTimeInterval seconds. This count increments each time the amount of transmitted data during the interval exceeds the Committed Information Rate (CIR). Since CIR is in bits per second, this requires the transmitted data to be converted to bits per second to determine if the count needs to be incremented.
**CrOctXcdTx**
The number of data octets transmitted during a 'Exceed' interval that exceeds CIR. This number shall be a cumulative total from all the intervals given in the 'CIR Exceed count.'

**EirXceedTx**
Each count represents a measurement interval of frlCfgTimeInterval seconds. This count increments each time the amount of transmitted data during the interval exceeds EIR. EIR is in bits per second, this requires the transmitted data to be converted to bits per second to determine if the count needs to be incremented.

**ErOctXcdTx**
The number of frames transmitted during a 'CIR Exceed' interval that exceed CIR. This number shall be a cumulative total from all the intervals given in the 'CIR Exceed count.'

**CrFrmXcdTx**
The number of frames transmitted during a 'Exceed' interval that exceed EIR. This number shall be a cumulative total from all the intervals given in the 'CIR Exceed count.'

**ErFrmXcdTx**
The number of frames transmitted during a 'Exceed' interval that exceed EIR. This number shall be a cumulative total from all the intervals given in the 'CIR Exceed count.'

**CrSecXcdTx**
The number of seconds in which CIR was exceeded in the Tx direction.

**ErSecXcdTx**
The number of seconds in which EIR was exceeded in the Tx direction.

**CrOctXcdRx**
The number of octets received during a 'CIR Exceed' interval that exceed CIR. This number shall be a cumulative total from all the intervals given in the 'CIR Exceed count.'

**ErOctXcdRx**
The number of octets received during an 'EIR Exceed' interval that exceed EIR. This number shall be a cumulative total from all the intervals given in the 'EIR Exceed count.'

**CrFrmXcdRx**
The number of Frames received during a 'CIR Exceed' interval that exceed CIR. This number shall be a cumulative total from all the intervals given in the 'CIR Exceed count.'

**ErFrmXcdRx**
The number of frames received during an 'EIR Exceed' interval that exceed EIR. This number
shall be a cumulative total from all the intervals given in the ‘EIR Exceed’ count.

**CrSecXcdRx**
The number of seconds in which CIR was exceeded in the Rx direction.

**ErSecXcdRx**
The number of seconds in which EIR was exceeded in the Rx direction.

### FrameVision Standard Frib Frame Relay Link Management View

**Access:** From the Icon Subviews menu for the FrmVisStdApp icon, select Frame Relay Link Mgmt > Config Table.

**IF Index**
The IF index value of the corresponding ifEntry.

**LastChange**
The value of sysUpTime when a variable in the Frame Relay Link Management Configuration Table changed.

**Protocol**
Describes which Link Management scheme is used. The possible values are listed in Table 7.

### Table 7: Link Management Values

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>frlmNone</td>
<td>None configured</td>
</tr>
<tr>
<td>frlmLmi</td>
<td>LMI</td>
</tr>
<tr>
<td>frlmAnsiT1617D</td>
<td>ANSI t1.617 Annex D</td>
</tr>
<tr>
<td>frlmItuQ933A</td>
<td>CCITT Q933 Annex A</td>
</tr>
<tr>
<td>frlmAutoDetect</td>
<td>In process of Detecting Protocol</td>
</tr>
</tbody>
</table>

**Spoofing**
Allows you to control whether the device will spoof Link Management messages. When the device stops receiving Management Enquiries/Statuses, the device will send them itself. Can be set to either spoofingEnabled or spoofingDisabled.

### Frame Relay Link Management Status View

**Access:** From the Icon Subviews menu for the FrmVisStdApp icon, select Frame Relay Link Mgmt > Status.

**IF Index**
The IF Index value of the corresponding ifEntry.
Status Serv
The status of Link Management from the service. Possible values are listed in Table 8.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>frlmStatusDetecting</td>
<td>Service State is being detected</td>
</tr>
<tr>
<td>frlmStatusUp</td>
<td>Service side is UP.</td>
</tr>
<tr>
<td>frlmStatusDown</td>
<td>Service side is DOWN.</td>
</tr>
<tr>
<td>frlmStatusUnknown</td>
<td>Service side state is unknown.</td>
</tr>
</tbody>
</table>

Table 8: Link Management Status Values

Spoof State
Indicates whether the device is spoofing or not. Possible values are spoofingInactive, spoofingAsCustomer, spoofingAsService.

LmAvailSrv
The number of seconds Link management says the interface to the Service has been active.

LmAvailCus
Number of seconds where Link Management says the interface to the customer has been active.

SpfEvtServ
Number of times the device spoofed as Service.

SpfEvtCust
Number of times the device spoofed as Customer.

SpfSecServ
Number of seconds the device spoofed as Service.

SegAvailSc
Number of seconds NI and DP is physically up, and the unit is not spoofing in either direction.

Status Cust
The status of Link Management from the customer. Possible values are listed in Table 9.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>frlmStatusDetecting</td>
<td>Customer side is being detected.</td>
</tr>
<tr>
<td>frlmStatusUp</td>
<td>Customer side is up.</td>
</tr>
<tr>
<td>frlmStatusDown</td>
<td>Customer side is down.</td>
</tr>
</tbody>
</table>

Table 9: Customer Status
Frame Relay Link Management VC Status View

**Access:** From the **Icon Subviews** menu for the FrmVisStdApp icon, select **Frame Relay Link Mgmt > VC Status.**

**VC Status Duration**
The total amount of time that the counters in the Frame Relay Link Management VC Status Table have been collecting data since last being cleared.

**VC Status Clear**
Reset the counts of this table when set to clearDataStart.

**IF Index**
The IFIndex value of the corresponding ifEntry.

**DLCI**
The Data Link Connection Identifier.

**Status**
The current status. Possible values are frlmVcStatusNew, frlmVcStatusDelete, frlmVcStatusActive, frlmVcStatusInactive, and frlmVcStatusOther.

**InactvEvnt**
The number of times the circuit was declared inactive based on the switch’s status message.

**ActiveSecs**
The number of seconds the circuit was declared active based on the switch’s status message.

**InactvSecs**
The number of seconds the circuit was declared inactive based on the switch’s status message.

**LocalUpScs**
The number of seconds NI and DP are physically up, the unit is not spoofing to the service, and the DLCI is declared as active.

**SpfCustScs**
The number of seconds the device has been spoofing to the service, and the DLCI is declared as inactive.
FrameVision Fping Application (FrmVisFpingApp)

Access: From the Icon Subviews menu for the DataSMART_698 device icon, select Application. From the application view, select the FrmVisFpingApp.

This application has the following application-specific subviews:

- Auto Fping Configuration Table View
- Auto Fping Performance Table View (Page 56)
- FrameVision Fping MIB Variables View (Page 57)
- Manual Fping Performance and Configuration View (Page 58)

Auto Fping Configuration Table View

Access: From the Icon Subviews menu for the FrmVisFpingApp icon, select Configuration.

IF Index
The ifindex value of the corresponding ifEntry.

LastChange
The value of sysUpTime when a variable in the Auto FPING Configuration Table changed.

Cfg Gen
The number of distinct PVCs to be detected on the NI before FPINGs are automatically sent out.

Cfg Reset
When set to fpingResetStart, causes the unit to place the selected VC back into the initial state of checking to see if any FRIB is responding by sending out 3 FPINGs.

Cfg Intervl
The frequency at which Auto FPINGS will be sent.

Cfg Length
The length of the Auto FPING request sent.

Opens the Auto Fping Performance Table.

Auto Fping Performance Table

Auto Duration
Total amount of time that counters in the report have been collecting data since being cleared.

Auto Clear Data
Resets the count of the Auto FPING Table when set to clearDataStart.
Auto Fping Performance Table View

IF Index
The ifIndex value of the corresponding ifEntry.

DLCI
The Data Link Connection Identifier.

Delay Min
The minimum round-trip delay in milliseconds for this VC as measured by Auto FPINGs.

Delay Max
The maximum round-trip delay in milliseconds for this VC as measured by Auto FPINGs.

Delay Avg
The average round-trip delay in milliseconds for this VC as measured by Auto FPINGs.

Lost
The number of Auto FPINGs transmitted on this VC that did not get a response within 3 seconds.

Total
The number of Auto FPINGs transmitted on this VC.

ThrshExcd
The number of times the delay for this VC exceeded the threshold configured by fpingAutoCfgThresh.

Rmt DLCI
The VC used at the remote end of the circuit.

Rmt IPaddr
The IP address of the unit responding to the FPINGs.

TtlPktsLclTx
The packet count at the transmit interface of the unit originating the Auto FPING.

TtlPktsLclRx
The packet count at the receive interface of the unit originating the Auto FPING.

TtlPktsRmtTx
The packet count at the transmit interface of the unit responding to the Auto FPING.

TtlPktsRmtRx
The packet count at the receive interface of the unit responding to the Auto FPING.

Status
The current status of each VC’s Auto FPING. The possible values are listed in Table 10.
Table 10: Current Auto FPING Status

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>fpingDisabled</td>
<td>Auto FPING operation disabled.</td>
</tr>
<tr>
<td>lastFpingSucceeded</td>
<td>FPINGs being sent and received</td>
</tr>
<tr>
<td>lastFpingFailed</td>
<td>3 Consecutive FPINGs were not responded to.</td>
</tr>
<tr>
<td>notMonitoringFping</td>
<td>Never received response from first 3 FPINGs.</td>
</tr>
<tr>
<td>waitingToStartFping</td>
<td>Enabled but waiting to start.</td>
</tr>
</tbody>
</table>

**FailedEvnt**
The number of times fpingAutoStatus went to the lastFpingFailed state.

**DelayTot**
The total round-trip delay in milliseconds for this VC as measured by Auto FPINGs.

**TtlOcRmtTx**
The octet count at the transmit interface of the unit responding to the Auto FPING.

**TtlOcRmtRx**
The octet count at the receive interface of the unit responding to the Auto FPING.

**Last Min**
The minimum delay for last group of FPINGs sent.

**Last Max**
The maximum delay for last group of FPINGs sent.

**Last Ave**
The average delay for last group of FPINGs sent.

**FrameVision Fping MIB Variables View**

*Access:* From the *Icon Subviews* menu for the FrmVisFpingApp icon, select *Mib Version.*

**Mib Version**
The version number of this FrameVision Standard MIB.

**Mib Last Change**
The value of sysUpTime when a configuration variable in this MIB was changed.
**Manual Fping Performance and Configuration View**

**Access:** From the *Icon Subviews* menu for the FrmVisFpingApp icon, select *Manual Fping*.

**IF Index**
The ifIndex value of the corresponding ifEntry.

**DLCI**
The DLCI of the VC to run Manual FPING test on.

**Manual Action**
Allows you to start and stop the operation of Manual FPINGs. Possible values are `fpingManualActionStart` and `fpingManualActionStop`.

**Manual State**
The current state of Manual FPING operation. Possible values are `fpingManualStateIdle` and `fpingManualStateOtherStart`.

**Frequency**
The frequency (in seconds) that Manual FPING packets will be transmitted.

**Length**
The length (in octets) of the payload portion of the FPING packets.

**Manual Cur**
The round-trip time (in milliseconds) of the last Manual FPING sent.

**Manual Min**
The minimum round-trip time (in milliseconds) of all Manual FPINGs sent during this test.

**Manual Max**
The maximum round-trip time (in milliseconds) of all Manual FPINGs sent during this test.

**Manual Ave**
The average round-trip time (in milliseconds) of all Manual FPINGs sent during this test.

**ManualLost**
The number of Manual FPING packets lost during this test.

**Manual Tot**
The total number of Manual FPING packets transmitted during this test.

**RemoteDLCI**
The VC used at the remote end of the circuit.

**Remote IPAddress**
The IP address of the unit responding to the FPINGs.
Delay Tot
The total roundtrip time (in milliseconds) of all Manual FPINGs sent during this test.

Manual Dir
Allows you to determine the direction to send FPINGs. Possible values are fpingDirTx (to send toward service) and fpingDirRx (to send toward customer).
Performance Views

This section introduces the Performance view. For details concerning this view, refer to the SPECTRUM Views documentation.

Performance views display performance statistics in terms of a set of transmission attributes, e.g., cell rates, frame rates, % error, etc. A typical view is shown in Figure 6. The instantaneous condition of each transmission attribute is recorded in a graph. The statistical information for each attribute is presented in the adjacent table.

Generally, you determine performance at the device level through Performance views accessed from the Device and Application icons. You determine performance at the port/interface level through Performance views accessed from Interface icons.

Figure 6: Performance View
Configuration Views

This section describes the various Configuration views available for models of the Kentrox ADC devices in SPECTRUM.

Configuration views let you view and modify current settings for the modeled device and its interfaces, ports, and applications. The following Configuration views are available for models of Kentrox devices:

- DataSMART Application FPING Configuration View (Page 35)
- DataSMART Application Alarm Configuration View (Page 36)
- DataSMART Application Control Port Configuration View (Page 37)
- DataSMART Application Data Port Configuration Table View (Page 38)
- DataSMART Application Fractional T1 Configuration Table View (Page 39)
- DataSMART Application Frame Management Configuration Table View (Page 40)
- DataSMART Application Management Configuration View (Page 41)
- DataSMART Application Advanced Management Configuration View (Page 42)
- DataSMART Application Network Configuration View (Page 43)
- DataSMART Application System Configuration View (Page 44)
- DataSMART Application Terminal Interface Configuration View (Page 46)
- Device Configuration View

Device Configuration View

Access: From the Icon Subviews menu for the Device icon, select Configuration.

A typical Device Configuration view is shown in Figure 7. Generally, this view includes a few fields that display device information as well as an Interface Configuration Table that lists interface parameters, some of which can be changed (see SPECTRUM Views). Some Device Configuration views include one or more buttons that provide access to device-specific configuration information. These are described below.
Figure 7: **Device Configuration View**

Refer to the *SPECTRUM Views* documentation.

**Redundancy and Model Reconfiguration Options**

Refer to the *SPECTRUM Views* documentation.

**IF Address Translation**

Refer to the *SPECTRUM Views* documentation.
Model Information View

This section provides a brief overview of the Model Information view.

This view displays administrative information about the device and its applications and lets you set thresholds and alarm severity for the device.

Figure 8 shows a sample Model Information view. The layout of this view is the same for all model types in SPECTRUM but some information will vary depending on the model it defines. Refer to the SPECTRUM Views documentation for a complete description of this view.

Figure 8: Model Information View
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