ADC Kentrox DataSMART

Supports Management Module SM-KEN1001

DSU/CSU
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<td>DataSMART Application Network Configuration View .................................. 40</td>
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</tr>
<tr>
<td>INDEX</td>
</tr>
</tbody>
</table>

SPECTRUM Enterprise Manager  Page 4  ADCKentrox DataSMART
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
Supported Devices

SPECTRUM management module SM-KEN1001 currently lets you model the ADC 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 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 656** - T1/FT1 Single-port DSU/CSU
- **DataSMART 658** - T1/FT1 Single-port Add/Drop DSU/CSU
- **DataSMART 680** -
- **DataSMART 681** - 56/64k Stand-alone DSU/CSU
- **DataSMART 696** - T1/FT1 Single-port DSU/CSU

The SPECTRUM Model

The model type for the ADC 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.

**Figure 1: Device Icons**

Small Device icon appears in Topology and Application views

Large Device icon appears in Device Topology, Location, and Device Interface views.
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>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 47)</td>
</tr>
<tr>
<td>Fault Isolation</td>
<td>Fault Isolation Configuration Options View</td>
</tr>
<tr>
<td></td>
<td>which is described in the <strong>SPECTRUM Views</strong> documentation.</td>
</tr>
<tr>
<td>Model Information</td>
<td>Model Information View (Page 50)</td>
</tr>
<tr>
<td>Primary Application</td>
<td>Menu options that let you select either Routing or MIB-II as the primary application.</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 45)
- **Configuration Views** (Page 47)
- **Model Information View** (Page 50)
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 50)

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

Configuration Information (check/change)
  • Configuration Views (Page 47)
  • DataSMART Application FPING Configuration View (Page 34)
  • DataSMART Application Alarm Configuration View (Page 35)
  • DataSMART Application Control Port Configuration View (Page 36)
  • DataSMART Application Data Port Configuration Table View (Page 36)
  • DataSMART Application Fractional T1 Configuration Table View (Page 37)
  • DataSMART Application Frame Management Configuration Table View (Page 38)
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  • DataSMART Application Network Configuration View (Page 40)
  • DataSMART Application System Configuration View (Page 42)
  • DataSMART Application Terminal Interface Configuration View (Page 43)

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

Network Type (check)
  • Network Type Label (Page 12)

Performance (check)
  • Device View (Page 10)
  • Interface Icons (Page 11)
Tasks

• Performance Views (Page 45)

Port Status (check/change)
• Interface Status View (Page 13)

Topology (check)
• Device Topology View (Page 14)
Device View

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.
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.

**Figure 3: Interface Icon**

- **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 Status View** (Page 13). This view can be accessed by double-clicking the 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** (Page 48).

- **Network Type Label**
- **Physical Address Label**
- **IP Address Label**
- **Gauge Label**
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 IF Address Translation Table.

Gauge Label
This label displays whichever performance statistic has been selected in the Gauge Control Panel for this device's interfaces. (Refer to the SPECTRUM Views documentation for information about the Gauge Control Panel.) Double-click this label to open the Port Performance View (Page 46).

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>IF Status</td>
<td>Interface Status View (Page 13).</td>
</tr>
<tr>
<td>IF Configuration</td>
<td>Interface Configuration View (Page 48).</td>
</tr>
<tr>
<td>IF Address Translation Table</td>
<td>Interface Address Translation Table, 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 50).</td>
</tr>
</tbody>
</table>
Interface Status View

Access: From the Icon Subviews menu for the Interface icon in the Device view, select IF Status.

This view provides information on the operational status of the interface and allows you to enable or disable the port.

Operational Status
The current state of the interface (Up, Down, Unknown, Dormant, Not Present, Lower Layer Down, or Testing).

Administrative Status
This button allows you to select the desired administrative state of the interface (On, Off, or Testing).

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.
Device Topology View

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 *Device Topology*.

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.
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:

- **Common Applications**, below
- **Device-Specific Applications** (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 document that describes them) are some of the common applications currently supported by SPECTRUM.

The documents listed are available for viewing at:

```
Note: www.aprisma.com/manuals/
```

- **Routing Applications**
  - Generic Routing
  - Repeater
  - AppleTalk
  - DECCnet
  - Open Shortest Path First

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

- **Miscellaneous Applications**
  - FDDI
  - Point to Point
  - DS 1
  - RS-232
  - WAN
  - Frame Relay
  - Token Ring
  - DLSW
  - APPN
  - Ethernet
  - Fast Ethernet
  - ATM Client
  - DHCP
Device-Specific Applications

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

- Kentrox DataSMART 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.

The views available for the Kentrox ADC device-specific application is described in the rest of this section as listed below:

- Kentrox DataSMART Application (DataSMARTApp) (Page 17)

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

Kentrox DataSMART Application (DataSMARTApp)

This major application provides the following application-specific views:

- DataSMART Application Statistics Table View (Page 18)
- DataSMART Application User Time Counts Table View (Page 19)
- DataSMART Application User Current Table View (Page 19)
- DataSMART Application User Interval Table View (Page 21)
- DataSMART Application User Total Table View (Page 22)
- DataSMART Application User Day Table View (Page 22)
- DataSMART Application Carrier Current Table View (Page 23)
- DataSMART Application Carrier Interval Table View (Page 24)
- DataSMART Application Carrier Total View (Page 25)
- DataSMART Application User Interface Page Display View (Page 25)
- DataSMART Application Alarm History Table View (Page 26)
DataSMART Application Security History Report Table View (Page 26)
DataSMART Application FRIB Time Counts Table View (Page 26)
DataSMART Application FRIB Previous 15 Min Table View (Page 26)
DataSMART Application FRIB Current 15 Min Table View (Page 28)
DataSMART Application FRIB Current 2 Hour Table View (Page 29)
DataSMART Application FRIB 2 Hour Table View (Page 29)
DataSMART Application FRIB Total Table View (Page 30)
DataSMART Application FRIB Day Table View (Page 31)
DataSMART Application FRIB Utilization Report Table View (Page 32)
DataSMART Application Local Maintenance View (Page 33)
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DataSMART Application Advanced Management Configuration View (Page 39)
DataSMART Application Network Configuration View (Page 40)
DataSMART Application System Configuration View (Page 42)
DataSMART Application Terminal Interface Configuration View (Page 43)

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>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>A CRC error has been detected on the received T1/E1 signal.</td>
</tr>
<tr>
<td>B</td>
<td>A bipolar (line) violation has occurred on the received T1/E1 signal.</td>
</tr>
<tr>
<td>L</td>
<td>A LOS condition has occurred on the received T1/E1 signal.</td>
</tr>
<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>
</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.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>

### Table 3: Error Conditions

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE</td>
<td>The number of Event Errors encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.</td>
</tr>
<tr>
<td>ES</td>
<td>The number of Errored Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.</td>
</tr>
<tr>
<td>BES</td>
<td>The number of Bursty Errored Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.</td>
</tr>
<tr>
<td>SES</td>
<td>The number of Severely Errored Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.</td>
</tr>
<tr>
<td>UAS</td>
<td>The number of Unavailable Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.</td>
</tr>
<tr>
<td>CSS</td>
<td>The number of Controlled Slip Seconds encountered by a DS1/E1 interface in one of the previous 96 15-minute intervals.</td>
</tr>
</tbody>
</table>
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.

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.
**Application Views**

### 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.

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

### Errrored Seconds
The number of Errrored 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

**Access:** From the Icon Subviews menu for the DataSMARTApp icon, select Security History Report.

**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 4: Status Summary Values

<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>
<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.

Octets
The number of octets transmitted or received during one of the previous 12 2-hour intervals.

Kb/Sec
The Kilobit/second rate for data transmitted or received during one of the previous 12 2-hour intervals.

Max FPING
The maximum FPING roundtrip time (in milliseconds) of all FLINGs on this VC during one of the previous 12 2-hour intervals.

FPING Avg
The average FPING round trip time (in milliseconds) of all FPINGs on this VC during one of the 12 2-hour intervals.

FPINGS Lost
The number of FPINGs responses that were not returned on this VC during one of the previous 12 2-hour intervals.

FPINGS Sent
The number of FPINGs transmitted on this VC during one of the previous 12 2-hour intervals.

Status
The status summary of this VC during the current 2-hour interval. See Table 4 for the status options.
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.
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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 that 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 object 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, 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.
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.

**BERTErrored 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.

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

**Alarm Indication Alarms**
The 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, Both Off, DTE Input Status
The input status of the DTE signals RTS and DTR. The possible values are Both, 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.

<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 T1 channel.</td>
</tr>
<tr>
<td>TiVoice</td>
<td>The channel carries voice and is mapped to a T1 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>64Dpl</td>
<td>The channel is set for 64k and is mapped to data port 1.</td>
</tr>
</tbody>
</table>
DataSMART Application Frame Management Configuration Table View

**Table 5: Channel Destination/Data Rate**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>

**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 Address
The unit’s Ethernet port address.

Control Port IP Address
The control port IP address.

IP Subnet Mask
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.
**IP 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 object 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 object 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 object 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.

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 object is set to 0, the autologout is disabled.

Zero Per Data
This object 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> System.

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 object 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.
Performance Views

This section provides brief descriptions of the Performance views available for the Kentrox ADC devices in SPECTRUM.

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.

For more information on Performance views, refer to the SPECTRUM Views documentation.

The following paragraphs list the performance attributes displayed for each Performance view supported by this management module.

Figure 6: Performance View
Device Performance View

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

Current and historical frame transmission information is provided via the following attributes.

- Frame Rate
- % Delivered
- % Forwarded
- % Transmit
- % Error
- % Discarded

Port Performance View

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

Current and historical packet transmission information is provided via the following attributes.

- Load
- Packet Rate
- % Error
- % Discarded
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 34)
- DataSMART Application Alarm Configuration View (Page 35)
- DataSMART Application Control Port Configuration View (Page 36)
- DataSMART Application Data Port Configuration Table View (Page 36)
- DataSMART Application Fractional T1 Configuration Table View (Page 37)
- DataSMART Application Frame Management Configuration Table View (Page 38)
- DataSMART Application Management Configuration View (Page 39)
- DataSMART Application Advanced Management Configuration View (Page 39)
- DataSMART Application Network Configuration View (Page 40)
- DataSMART Application System Configuration View (Page 42)
- DataSMART Application Terminal Interface Configuration View (Page 43)
- Device Configuration View (Page 47)
- Interface Configuration View (Page 48)

Device Configuration View

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

This view (Figure 7) provides status and configuration information about the device as a whole as well as on a port-by-port basis. Fields and column headings within the Device Configuration view and its subviews are explained in detail in the SPECTRUM Views documentation.
**Interface Configuration View**

**Access:** From the **Icon Subviews** menu for an Interface icon in the Device view, select **IF Configuration**.

This view provides the following information for the selected interface:

**Operation Status**
The current operational state of the interface (Up, Down, Unknown, Dormant, Not Present, or Lower Layer Down).

**Admin. Status**
The desired operational state of the interface (up, down, or testing).

**Last Change**
The System UpTime value when the interface entered its current operational state.

**IP Address/Network Mask**
This window provides a list of the user-defined names and IP addresses for the interface.

**Physical Address**
The Ethernet (MAC) address of the interface.

**Bandwidth**
The estimated bandwidth of the interface, measured in bits per second. For interfaces that
do not vary in bandwidth, or no accurate estimate can be made, a nominal bandwidth is provided.

**Packet Size**
The largest packet that can be transmitted or received by the port, displayed in octets.

**Queue Length**
The length of the outbound packet queue, in packets.
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.
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