DS-4000 Bypass Switch

DURA*stream*™ 1 Gigabit DS-4000

FASTStart Guide

What is included?

(1) Model: DS-4000 series Bypass Switch
(1) Console Cable (DB9 to RJ45)
(1) Management Cable (RJ45 to RJ45)
(2) Switching AC Adapters
(2) AC Line Cords

Summary:

Datacom Systems Inc. DURA*stream*™ DS-4000 Bypass Switch is a 1Gbps intelligent external active bypass that enables plug and play connectivity which includes an auto heartbeat and requires no additional drivers to be installed on any connected appliance.

The DS-4000 consists of four 1Gbps segments which can support four network segments and four appliances. In our example below, we show two network segments being connected with two systems (typically IPS) using a DS-4000.
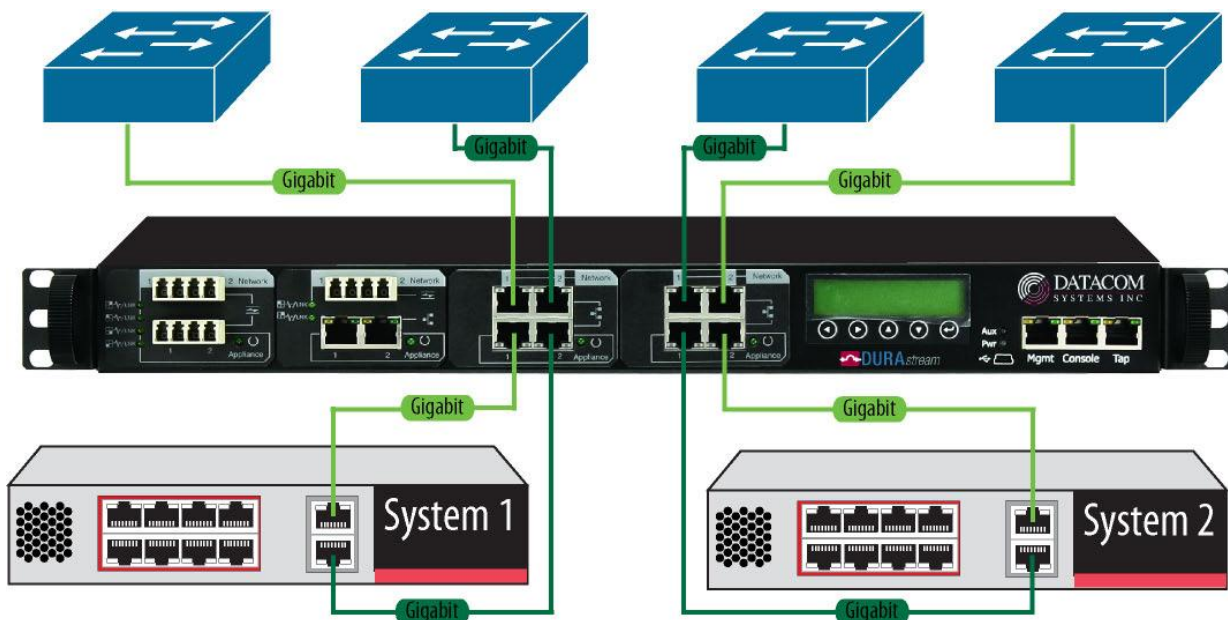
If one of the links connected to an appliance segment goes down, the DS-4000 will directly connect the network ports on the segment and bypass the appliance. This will ensure that the network segment will remain connected even if the appliance on the segment goes down.

Port Layout:

Ports are designated as Network or Appliance Ports as shown below:

N1   N2
A1   A2
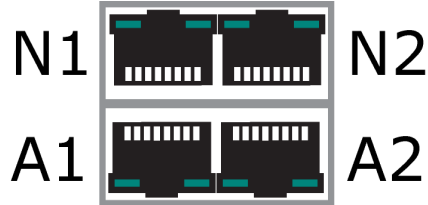
Network and Appliance Ports

Default Settings:

SSH	
Port:	22
User Settings	
Username:	admin
Password:	admin
Management Port Settings	
IP Address:	192.168.0.111
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.0.1
Serial Terminal Settings	
Bits per second:	115200
Data bits:	8
Parity:	None
Stop:	1
Flow Control:	None

CLI Installation Commands:

Changing Management Port Settings

1. Show the current management port settings
   datacom>show management-if

2. Enter configuration mode for management interface.
   datacom>configure management-if

3. To configure static IP settings:
   ***datacom(configure-management-if)>***ip static <ip address> mask <network mask> gateway <gateway IP address>

   Example:

   datacom(configure-management-if)>ip static 10.10.10.10 mask 255.255.255.0 gateway 10.10.10.1

4. To assign the IP settings dynamically:
   datacom(configure-management-if)>ip dhcp

Changing Network/Appliance Port Settings:

1. Show the current port settings:
   datacom>show links configuration

2. Enter configuration mode for a network or appliance Port:
   datacom>configure port portid S3.N2

| S3 indicates segment 3. | N2 indicates network port 2. A1 would indicate appliance |
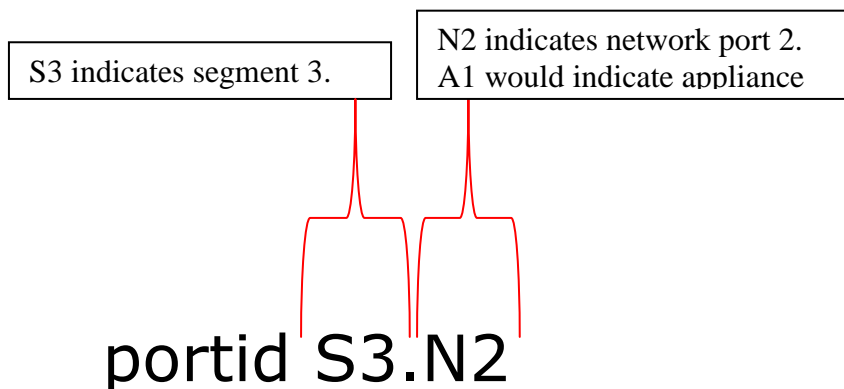
portid S3.N2

3. To change the port status between up and down:
datacom ports portid S3.N2>link <auto/down>

4. To modify the speed/duplex on the port:
datacom ports portid S3.N2>speed <auto/10M/100M/1G> <auto/full/half>

Example:

datacom ports portid S3.N2>speed 100M full

Changing Segment Settings:

1. Show the current bypass settings:
datacom>show bypass mode
datacom>show bypass status
datacom>show bypass heartbeat

2. Enter configuration mode for a segment:
datacom>configure segment 1

3. Enable/Disable link fault detection:
datacom(segment[1])>lfd <enabled/disabled>

4. Set segment boot-mode:
datacom(segment[1])> boot-mode heartbeat <normal-active-bypass/normal-active-inline/manual-active-inline/manual-active-bypass-plus/manual-active-bypass/manual-passive-bypass/auto>

Example:

datacom ports portid S3.N2>bypass boot-mode heartbeat normal-active-bypass

GUI Tutorial:
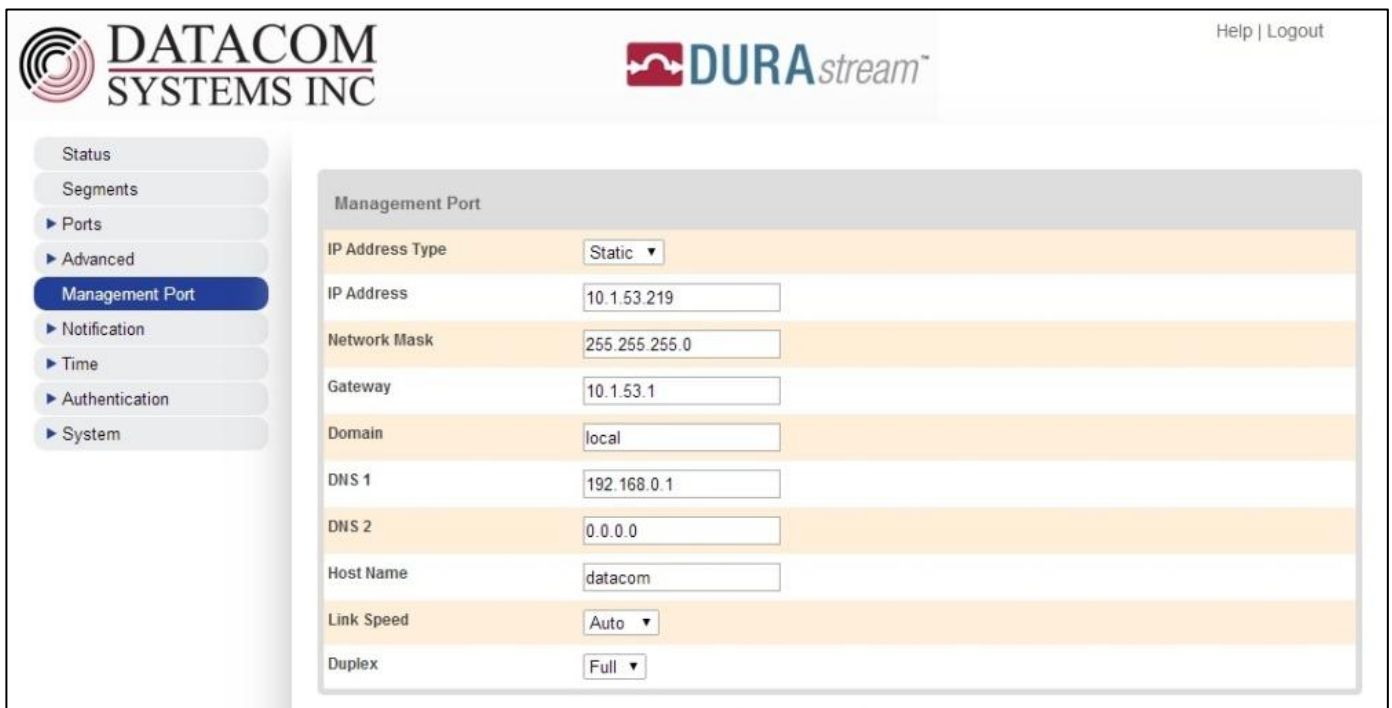
By clicking on the "Management Port" tab on the left side of the page, you can view the management port fields. Clicking on the blue "Management Port" title at the top will enter configuration mode.

Page to view Management port settings
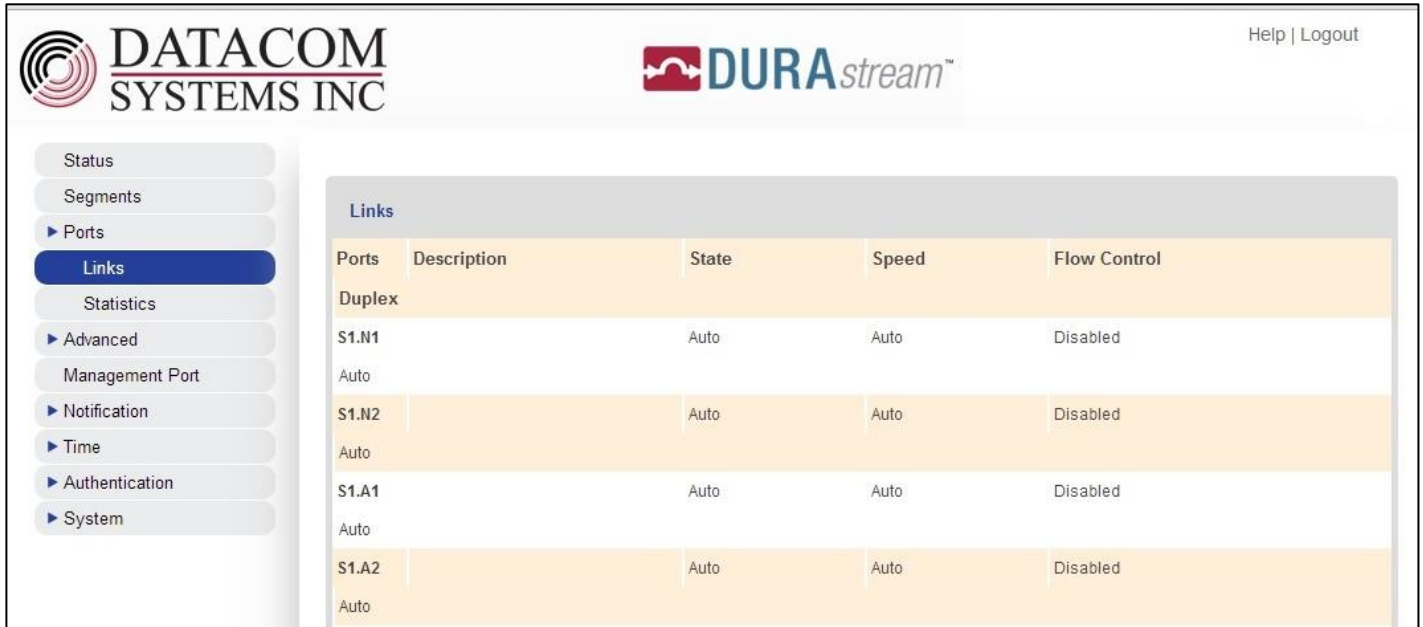
Page to edit Management port settings

Clicking on the "Ports" section on the left side of the page and then selecting the "Links" tab will bring up a page that shows the settings for all network and appliance ports on the DS-4000. To configure the link settings, click on the blue "Links" title at the top of the page.
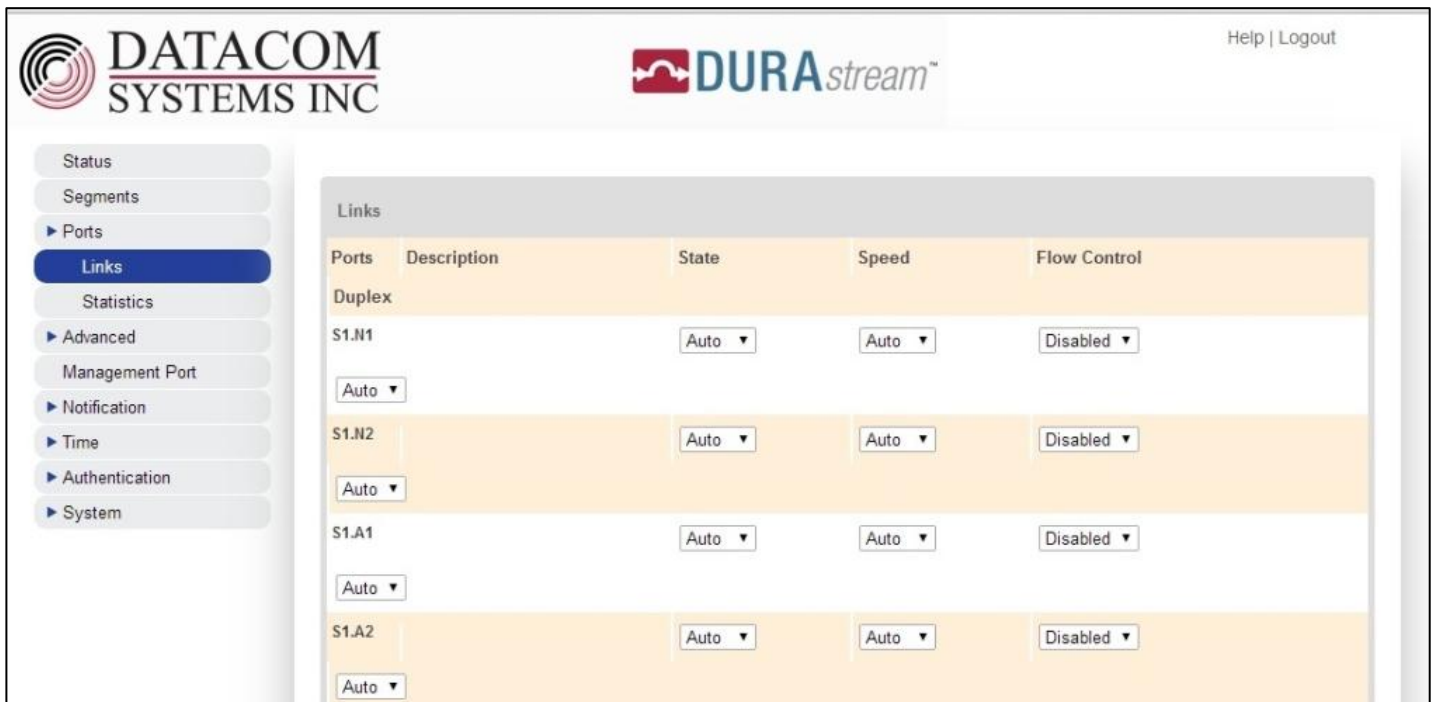
Showing statistics for all Network/Appliance ports.

Edit the attributes of Network/Appliance ports.

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Clicking on the "Segments" tab at the top left of the page will present information on all of the configurable attributes of segments. To configure a specific segment, click on one of the blue "Segment #" titles at the top of the screen.

Showing all of the configurable attributes for segments.

Configure the various attributes of a segment.

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Clicking on the "Authentication" tab on the left side of the page and then selecting "Users" show the admin user. To configure password for admin, click on one of the blue "admin" title at the top of the screen.

Showing the admin account.
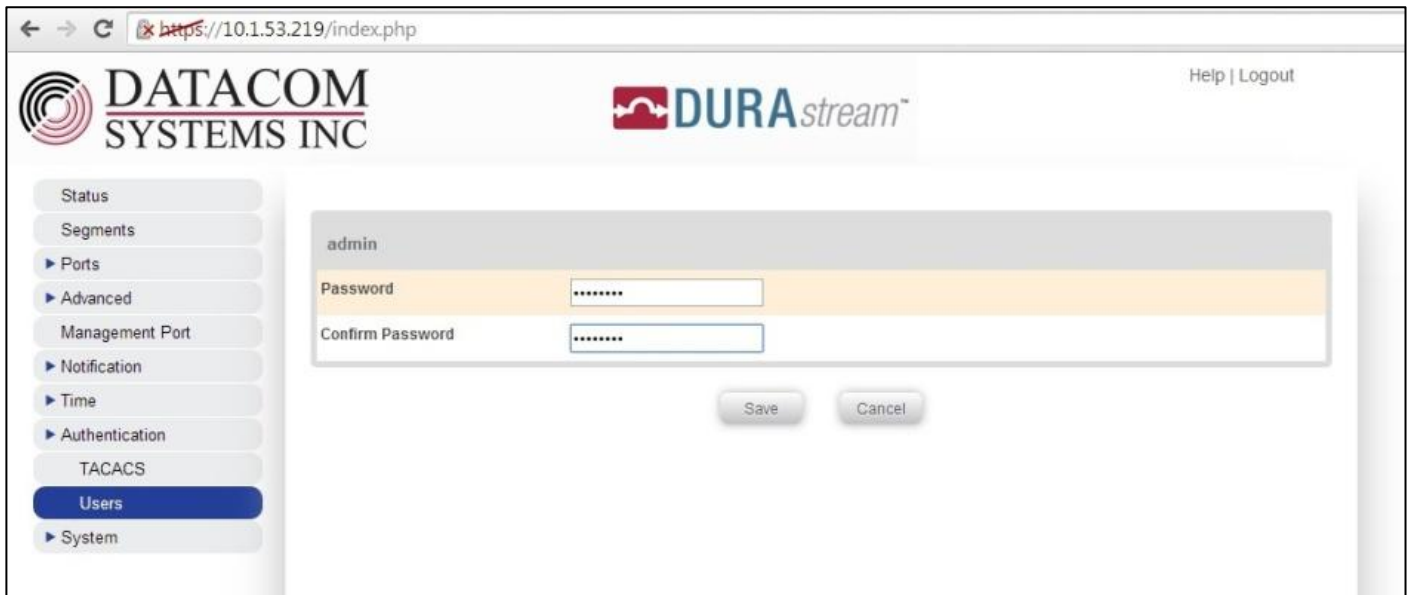
Modifying the password for the admin account.