



## **AIR Configuration Guide**

## Publication Information

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### AIR Series Regenerators Configuration Guide

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# Chapter 1

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## All Inclusive Regenerators

## 1.1 Introduction

The AIR series regenerators utilize two sets of Aktino CO/CRU units in a series allowing the effective range of single span Aktino system to be extended. In addition, the components of the regenerator system can be configured in order to allow both spans of equipment to be managed from the central office.

The AIR series regenerators support both symmetric and asymmetric bandwidths and can be line powered enabling the mid-span components to be deployed in any field cabinet or remote location without requiring a local power source.

## 1.2 Purpose

The purpose of this document is only for the setup of the AIR series regenerators. For successful setup, this manual must followed from beginning to end for your specific product line.

**Note:** This manual is only for initial setup configurations. Please see the respective manual for each product line for installation or use of that product at [www.positronaccess.com](http://www.positronaccess.com).

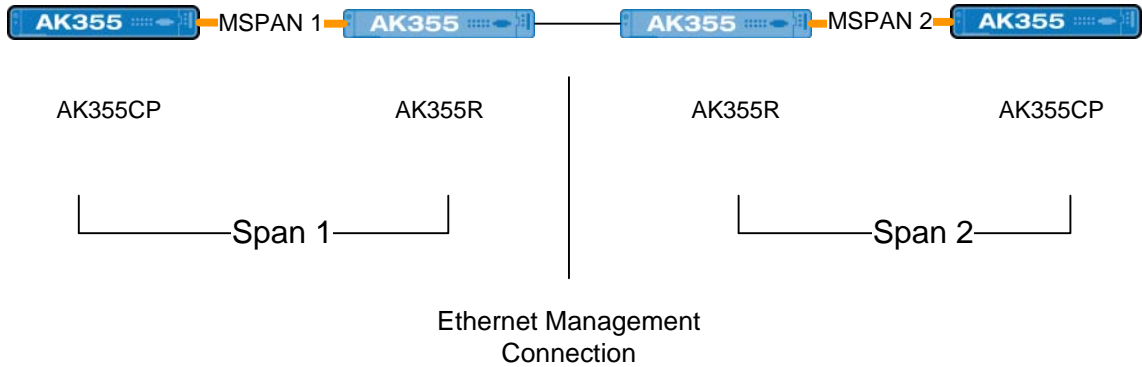
# Chapter 2

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## AK355 Regenerator System

## 2.1 The AK355 Regenerator System

The AK355 Regenerator System consists of two AK355CP units and two AK355R units. The units must be deployed as follows:

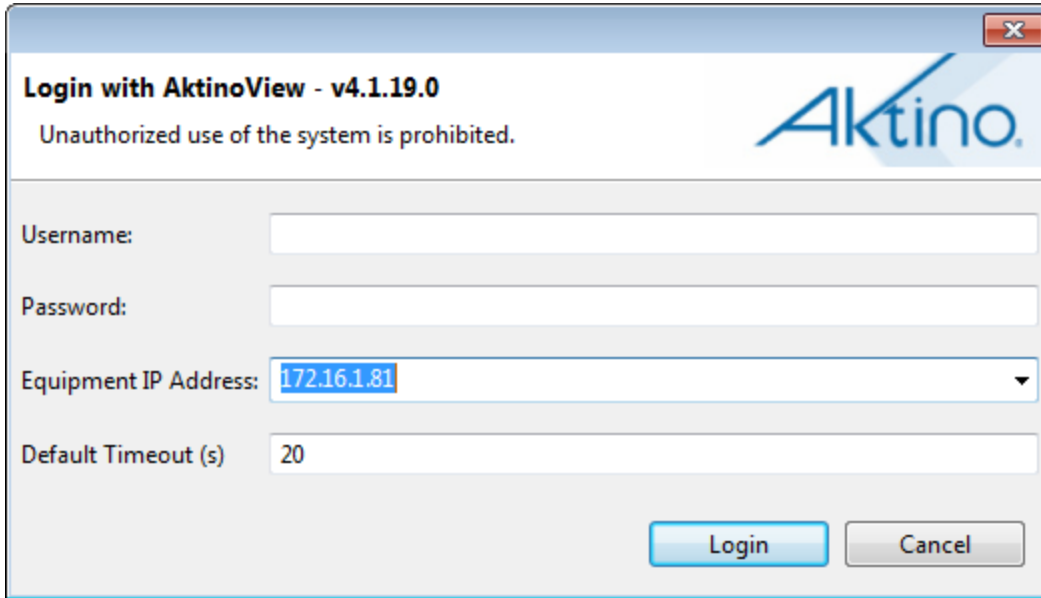


In the above example, note that the first group of CP and R units create Span 1 while the second group of CP and R units create Span 2. The two mid-span R units have their Ethernet Management Ports connected in order to allow management devices in the Central Office to be able to manage the equipment of both spans.

In order to change the default IP Addresses and set up the system you must be signed into AktinoView, which is discussed in the next section.

## 2.2 Signing into AktinoView

In order to configure the system you must be logged into AktinoView.



The screenshot shows a login dialog box titled "Login with AktinoView - v4.1.19.0". The dialog box has a blue header with the Aktino logo and a warning message: "Unauthorized use of the system is prohibited." Below the header, there are four input fields: "Username:" (empty), "Password:" (empty), "Equipment IP Address:" (containing "172.16.1.81"), and "Default Timeout (s):" (containing "20"). At the bottom right, there are two buttons: "Login" (highlighted in blue) and "Cancel" (greyed out).

Enter a Username and Password appropriate for the AK355CP. The default Username is "superuser" and the default password is "superuser". Enter the system's IP address in the Equipment IP Address field, and Click **Login**. The default IP address for the AK355CP is 192.168.10.1 and the default IP address for the AK355R is 192.168.10.2.

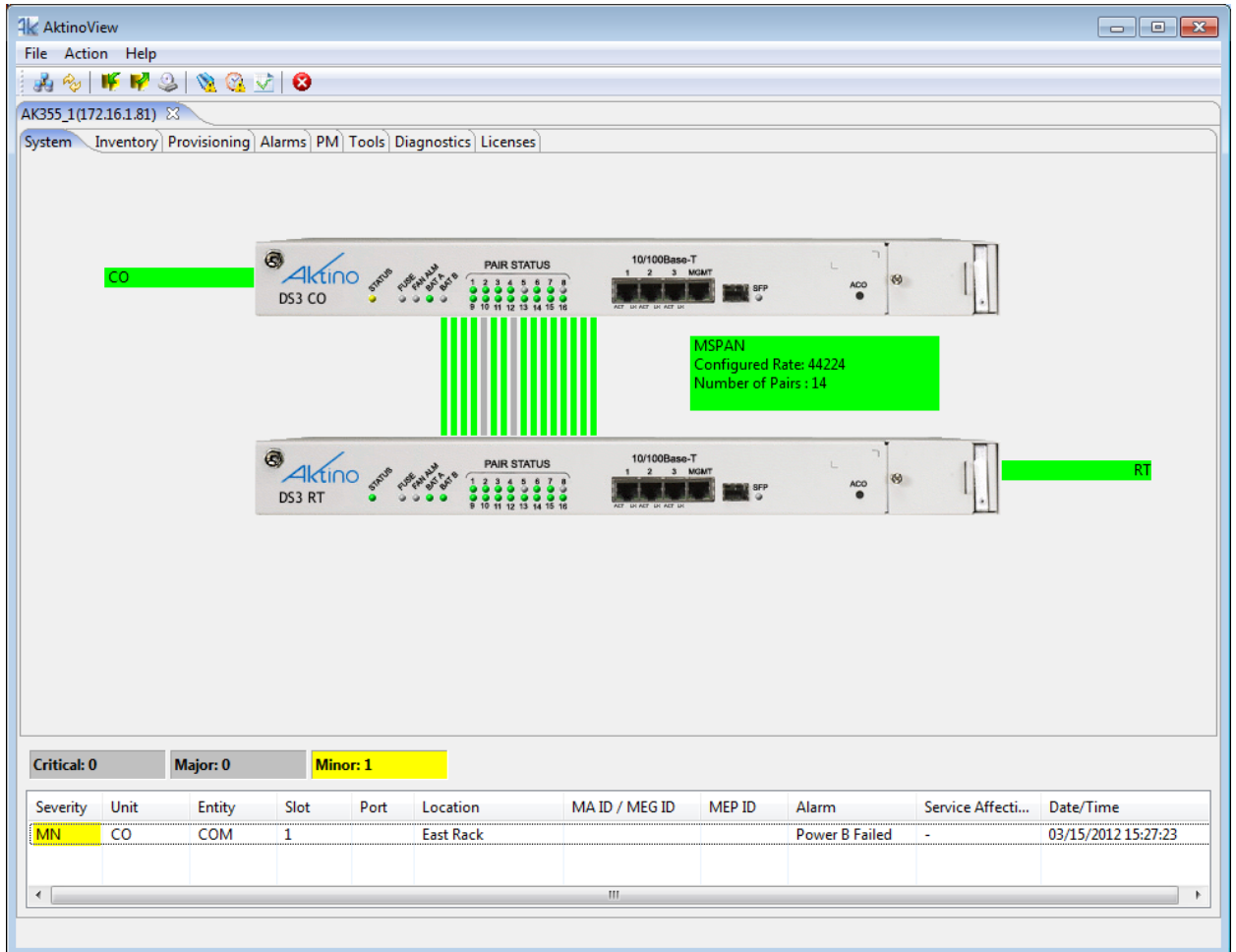
Once you are signed in, the system will open to the AK355 System screen as shown in section 3.3.



## 2.3 System

The System tab provides a front panel representation of the AK355 system.

Once you are here, select the Provisioning tab and then the Equipment tab. This will provide you with the following screen shown in section 3.3.1.



### 2.3.1 Provisioning > Equipment

Selecting the Provisioning tab displays all the provisioning sub-sections supported by the AK355 System.

Selecting the Equipment tab under Provisioning allows equipment provisioning of the system.

You are now ready to configure the units for either Span 1 or Span 2.

Slot	Unit	System ID	Contact	Location	Time	IP Address	Subnet Mask	Gateway Ad...	RT Proxy IP	Allow CPE Mgmt ...	Regenerator Type	Other Span IP Add...	Span 2 Mgmt. IP A...
1	CO	AK355_1	Ken	East Rack	07/01/2012 16:34:56	172.16.1.81	255.255.0.0	172.16.254.254			None		
1	RT	RT for AK355 L...			07/01/2012 16:34:56	192.168.10.2	255.255.255.0			YES	None		

Critical: 0	Major: 0	Minor: 1
-------------	----------	----------

Severity	Unit	Entity	Slot	Port	Location	MA ID / MEG ID	MEP ID	Alarm	Service Affecti...	Date/Time
MN	CO	COM	1		East Rack			Power B Failed	-	03/15/2012 15:27:23

## 2.4 Configuring the Systems


### Configuring Span 1

- Double-click on the CO intended for Span 1. This opens the CO Equipment Dialog Box (See Figure 4).
- Set the **Regenerator Type** to Span 1.
- Set the **Other Span IP Address** to the IP Address you will use. Note that it must be on the same subnet as the Span 1 AK355CP.
- Select **OK** to Confirm the change to the **Regenerator Type**.
- Close the connection to the system.

### Configuring Span 2

- Go to the **File > Connect to...** menu to create a connection to the CO intended for Span 2.
- Double-click on the CO intended for Span 2. This opens the CO Equipment Dialog Box (See Figure 5).
- Set the **Regenerator Type** to Span 2.
- Set the **Other Span IP Address** to the IP Address you used as the Span 1 AK355CP's IP Address.
- Set the **Span 2 Mgmt. IP Address** to the IP Address that you will use. Note that this must be address as used in the Span 1 **Other Span IP Address** parameter.
- Select **OK** to Confirm the change to the **Regenerator Type**.
- Close the connection to the system and exit AktinoView.

Note: A Span 1 tab and a Span 2 tab will show above the System tab when the Span connections are complete (See Figure 6).

**Equipment** 

Slot: 1

Unit: CO

System ID: AK355\_1

Contact: Ken

Location: East Rack

IP Address: 172.16.1.81

Subnet Mask: 255.255.0.0

Gateway Address: 172.16.254.254

RT Proxy IP:

Allow CPE Mgmt Access:

Regenerator Type: Span 1

Other Span IP Address: 172.16.1.91

Span 2 Mgmt. IP Address:

Time: 06/22/2012 14 : 35 : 31 PC Time

OK Apply Cancel

Figure 1: Span 1 CO Unit Equipment Dialog

The screenshot shows a configuration dialog box titled "Equipment" with the Aktino logo in the top right corner. The dialog contains the following fields and values:

Field	Value
Slot	1
Unit	CO
System ID	AK355_2
Contact	Ken
Location	East Rack
IP Address	192.168.10.1
Subnet Mask	255.255.255.0
Gateway Address	
RT Proxy IP	
Allow CPE Mgmt Access	
Regenerator Type	Span 2
Other Span IP Address	172.16.10.81
Span 2 Mgmt. IP Address	172.16.1.91
Time	07/12/2012 07:50:17 PC Time

At the bottom of the dialog are three buttons: "OK", "Apply", and "Cancel".

Figure 2: Span 2 CO Unit Equipment Dialog

## Managing the Systems

In order to manage the equipment from the Central Office, the Ethernet management ports on the mid-span AK355R units need to be connected to one and other, and both MSPANs need to be up.

Once these conditions have been met both spans can be managed by using AktinoView to connect to the Span1 AK355CP IP Address and then by selecting either the Span 1 or Span 2 tab, you can manage the selected span as needed.

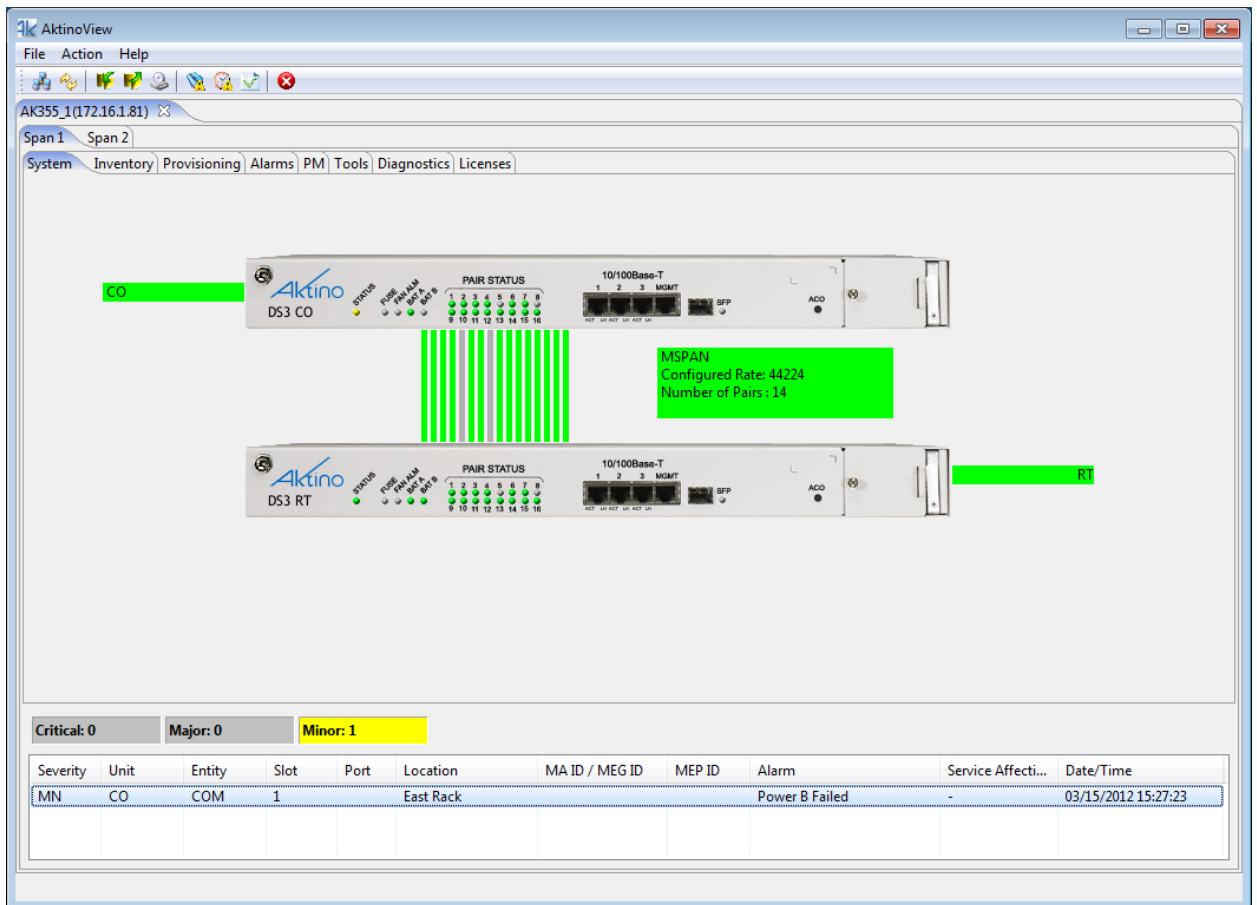


Figure 3: Completed AIR configuration displaying the Span 1 and Span 2 tabs

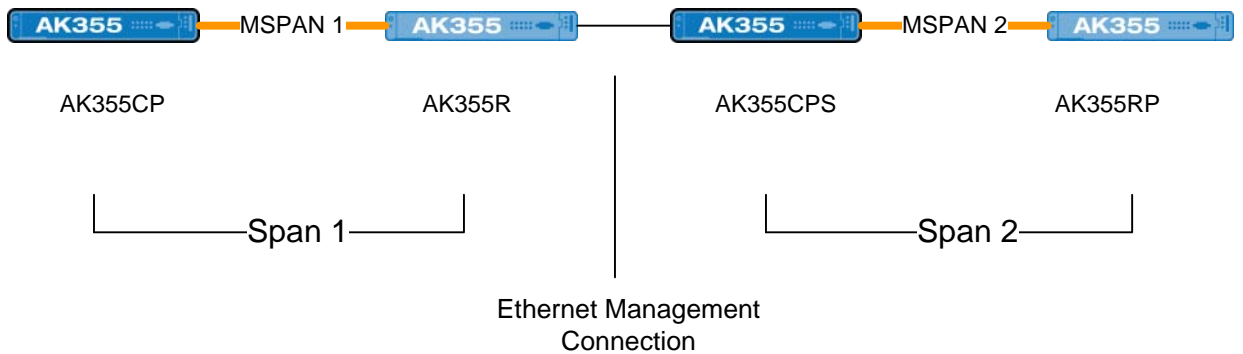
# Chapter 3

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## AK355 Regenerator System with Reverse Line Powering

### 3.1 The AK355 Regenerator System with Reverse Line Powering

The AK355 Regenerator System with Reverse Line Powering consists of one AK355CP unit, one AK355R unit, one AK355CPS unit, and one AK355RP unit. The units must be deployed as follows:



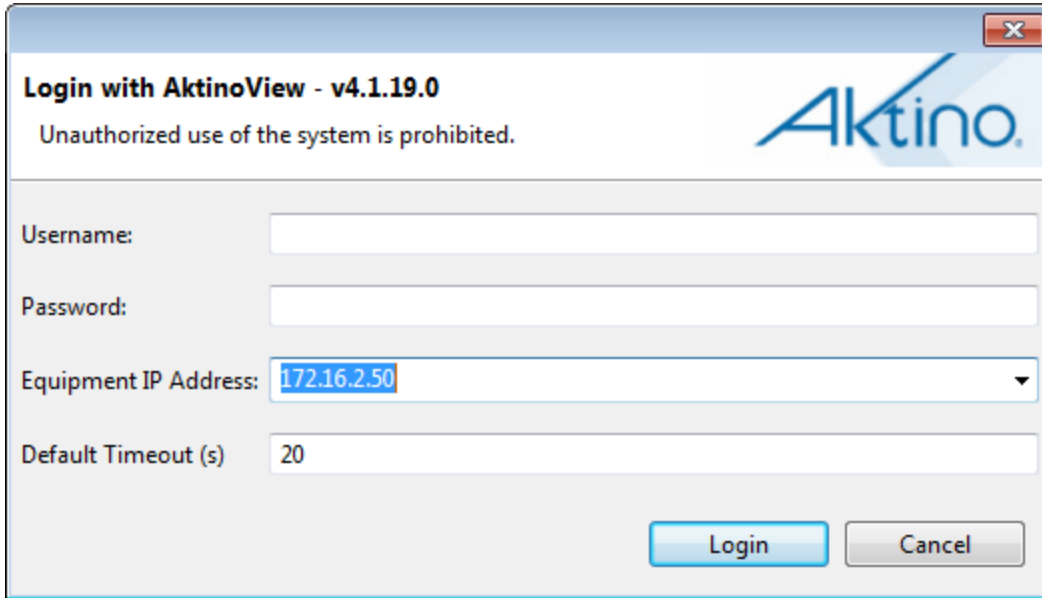
In the above example, note that the first group of AK355CP and AK355R units create Span 1 while the second group of AK355CPS and AK355RP units create Span 2. The two mid-span units have their Ethernet Management Ports connected in order to allow management devices in the Central Office to be able to manage the equipment of both spans.

In order to change the default IP Addresses and set up the system you must be signed into AktinoView, which is discussed in the next section.



## 3.2 Signing into AktinoView

In order to configure the system you must be logged into AktinoView.



The screenshot shows a login dialog box titled "Login with AktinoView - v4.1.19.0". The dialog box has a blue header with the Aktino logo on the right. Below the header, it says "Unauthorized use of the system is prohibited." The main area contains four input fields: "Username:" (empty), "Password:" (empty), "Equipment IP Address:" (containing "172.16.2.50"), and "Default Timeout (s)" (containing "20"). At the bottom right, there are two buttons: "Login" (highlighted in blue) and "Cancel".

Enter a Username and Password appropriate for the AK355CP/AK355CPS. The default Username is "superuser" and the default password is "superuser". Enter the system's IP address in the Equipment IP Address field, and Click **Login**. The default IP address for the AK355CP/AK355CPS units are 192.168.10.1 and the default IP address for the AK355R/AK355RP units are 192.168.10.2.

Once you are signed in, the system will open to the AK355 System screen as shown in section 5.3.

### 3.3 System

The System tab provides a front panel representation of the AK355 system.

Once you are here, select the Provisioning tab and then the Equipment tab. This will provide you with the following screen shown in section 5.3.1.

The screenshot displays the AktinoView software interface. The main display area shows a front panel representation of two Ethernet devices: an Ethernet CO (top) and an Ethernet RT (bottom). They are connected via a MSPAN, with a green box indicating "MSPAN Configured Rate: 25000" and "Number of Pairs: 16". The interface includes a menu bar (File, Action, Help), a toolbar, and a main display area with various status indicators and a table at the bottom.

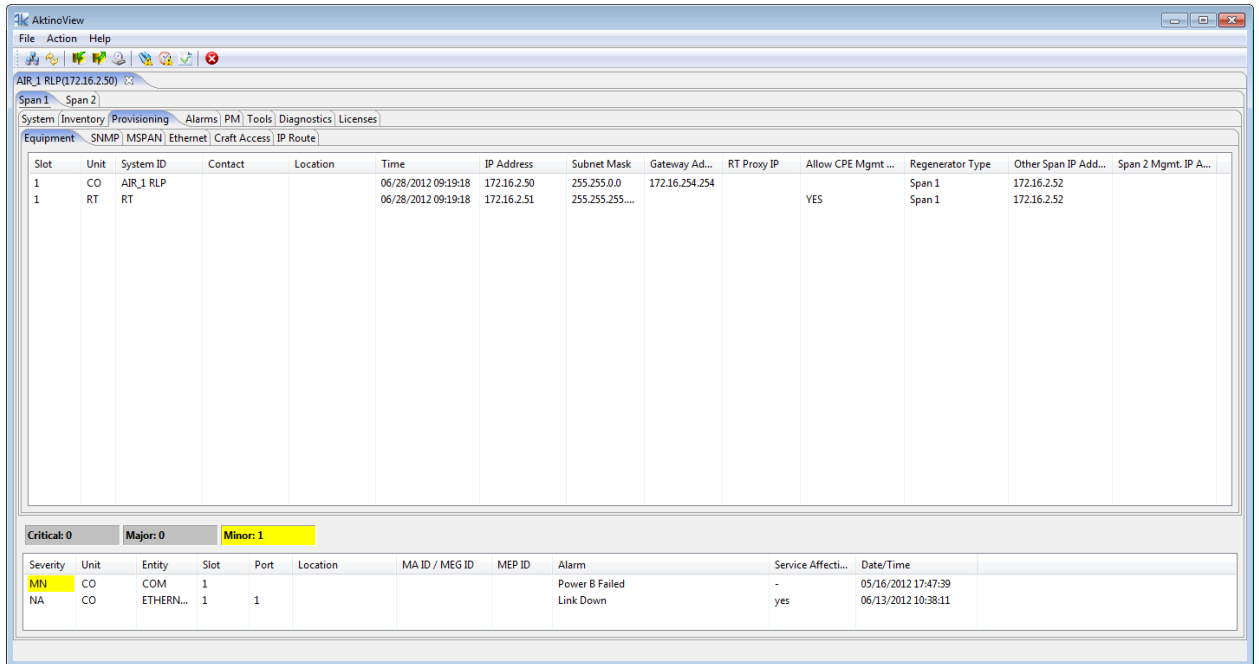
Severity	Unit	Entity	Slot	Port	Location	MA ID / MEG ID	MEP ID	Alarm	Service Affect...	Date/Time
MN	CO	COM	1					Power B Failed	-	05/16/2012 17:47:39
NA	CO	ETHERN...	1	1				Link Down	yes	06/13/2012 10:38:11

### 3.3.1 Provisioning > Equipment

Selecting the Provisioning tab displays all the provisioning sub-sections supported by the AK355 System.

Selecting the Equipment tab under Provisioning allows equipment provisioning of the system.

You are now ready to configure the AK355C units for either Span 1 or Span 2.



## 3.4 Configuring the Systems


### Configuring Span 1

- Double-click on the CO unit intended for Span 1. This opens the CO Equipment Dialog Box (See Figure 10)
- Set the **IP Address** to the one you intend to use for the Span 1 CO unit.
- Set the **Subnet Mask** to the one you intend to use for the Span 1 CO unit.
- Set the **Regenerator Type** to Span 1
- Set the **Other Span IP Address** to the IP Address you will use. Note that it must be on the same subnet as the Span 1 CO from the Span 1 CO's point of view and this parameter must match what is configured for the Span 2 CO's **Span 2 Mgmt. IP Address** parameter listed below.
- Select **OK** to confirm the changes and close the CO unit's Equipment Dialog Box.
- Double-click on the RT unit. This opens the RT Equipment Dialog Box (See Figure 11).
- Set the **IP Address** to the one you intend to use for the Span 1 RT unit.
- Set the **Subnet Mask** to the one you intend to use for the Span 1 RT unit. Note that the Subnet Mask used for the Span 1 RT unit and Span 2 CO unit should use a more restrictive subnet mask as compared to what is used on the Span 1 CO unit.
- Select **OK** to confirm the changes and close the RT unit's Equipment Dialog Box.
- Close the connection to the system.

## Configuring Span 2

- Go to the **File > Connect to...** menu to create a connection to the CO intended for Span 2.
- Double-click on the CO intended for Span 2. This opens the CO Equipment Dialog Box (See Figure 12).
- Set the **Regenerator Type** to Span 2.
- Set the **Span 1 RT IP Address** to the same IP Address you used for the Span 1 RT unit's IP Address.
- Set the **Span 2 Mgmt. IP Address** to the IP Address that you will use. Note that from the Span 1 CO's point of view, this IP Address must be on the same subnet as the Span 1 CO, and it must match the **Other Span IP Address** configured on the Span 1 Equipment dialog box.
- Set the **Span 2 Mgmt. Subnet Mask** to the one you will use for the Span 2 CO unit. This must match the subnet mask configured on the Span 1 RU unit.
- Select **OK** to confirm the changes and close the CO unit's Equipment Dialog Box.
- Close the connection to the system and exit AktinoView.

**Note:** A Span 1 tab and a Span 2 tab will show above the System tab when the Span connections are complete (see Figure 13).

**Equipment** 

Slot: 1

Unit: CO

System ID: AIR\_1 RLP

Contact:

Location:

IP Address: 172.16.2.50

Subnet Mask: 255.255.0.0

Gateway Address: 172.16.254.254

RT Proxy IP:

Allow CPE Mgmt Access:

Regenerator Type: Span 1

Other Span IP Address: 172.16.2.52

Span 2 Mgmt. IP Address:

Time: 07/10/2012 09:50:40 PC Time

OK Apply Cancel


Figure 4: Span 1 CO Unit Equipment Dialog

The image shows a configuration dialog box titled "Equipment" with the Aktino logo in the top right corner. The dialog contains the following fields and values:

Field	Value
Slot	1
Unit	RT
System ID	RT
Contact	
Location	
IP Address	172.16.2.51
Subnet Mask	255.255.255.248
Gateway Address	
RT Proxy IP	
Allow CPE Mgmt Access	YES
Regenerator Type	Span 1
Other Span IP Address	172.16.2.52
Span 2 Mgmt. IP Address	
Time	07/10/2012 : : : PC Time

At the bottom of the dialog are three buttons: "OK", "Apply", and "Cancel".

Figure 5: Span 1 RT Unit Equipment Dialog

**Equipment** 

Slot: 1

Unit: CO

System ID: AIR\_2 RLP

Contact:

Location:

IP Address: 192.168.10.1

Subnet Mask: 255.255.255.0

Gateway Address:

RT Proxy IP:

Allow CPE Mgmt Access:

Regenerator Type: Span 2

Span 1 RT IP Address: 172.16.2.51

Span 2 Mgmt. IP Address: 172.16.2.52

Span 2 Mgmt. Subnet Mask: 255.255.255.248

Time: 07/10/2012 10 : 20 : 10 PC Time

OK Apply Cancel

Figure 6: Span 2 CO Unit Equipment Dialog



## Managing the Systems

In order to manage the equipment from the Central Office, the Ethernet management ports on the mid-span units need to be connected to one and other, and both MSPANs need to be up.

Once these conditions have been met both spans can be managed by using AktinoView to connect to the Span1 AK355C IP Address and then by selecting either the Span 1 or Span 2 tab, you can manage the selected span as needed.

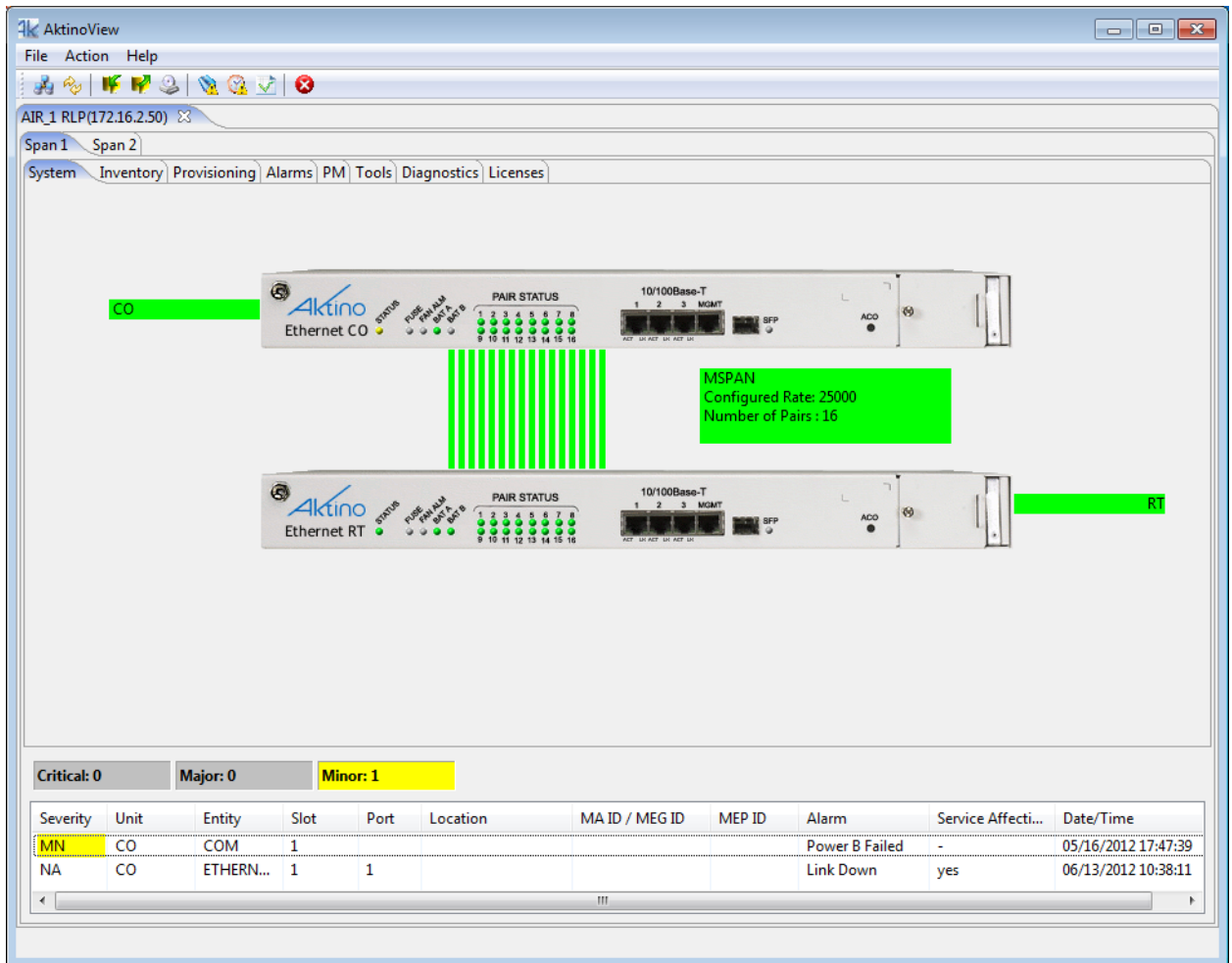


Figure 7: Completed AIR Configuration displaying the Span 1 and Span 2 tabs

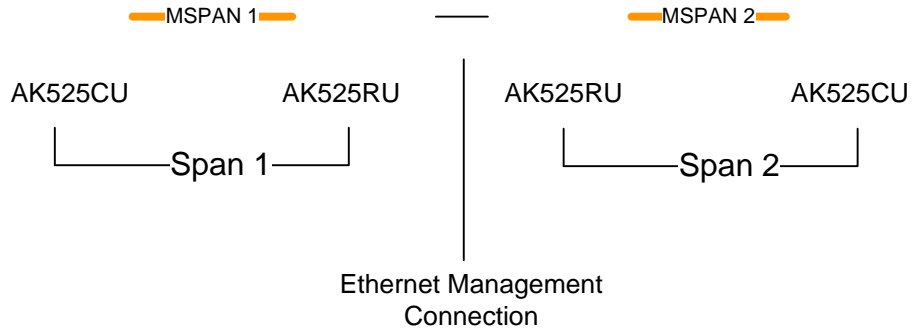
# Chapter 4

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## AK525 Regenerator System

## 4.1 The AK525 Regenerator System

The AK525 Regenerator System consists of two AK525CU units and two AK525RU units. The units must be deployed as follows:

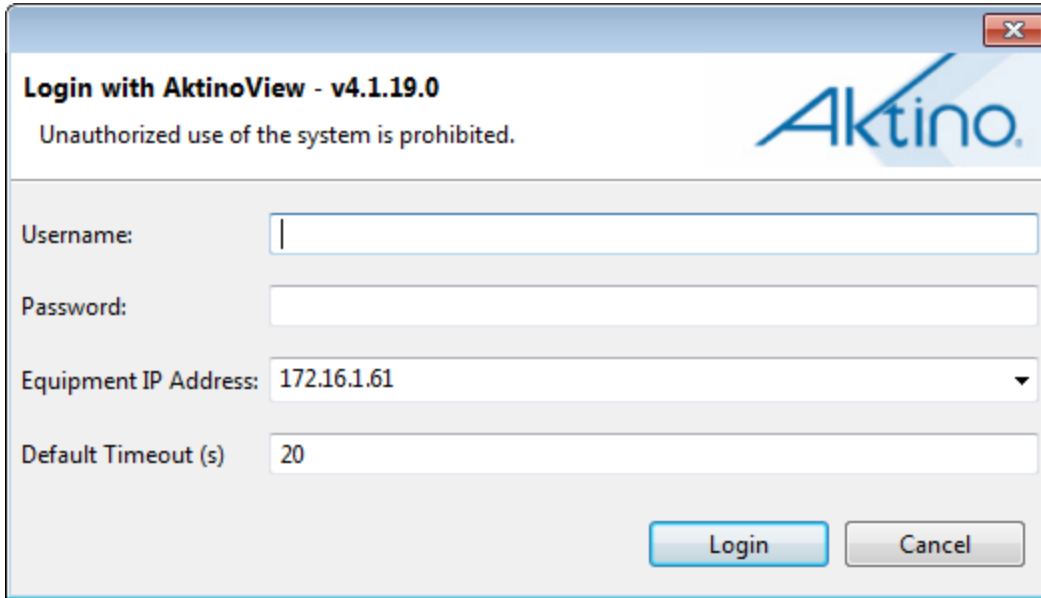


In the above example, note that the first group of CU and RU units create Span 1 while the second group of RU and CU units create Span 2. The two mid-span RU units have their Ethernet Management Ports connected in order to allow management devices in the Central Office to be able to manage the equipment of both spans.

In order to change the default IP Addresses and set up the system you must be signed into AktinoView, which is discussed in the next section.

## 4.2 Signing into AktinoView

In order to configure the system you must be logged into AktinoView.



The screenshot shows a login dialog box titled "Login with AktinoView - v4.1.19.0". The dialog box has a blue header with the Aktino logo on the right. Below the header, it says "Unauthorized use of the system is prohibited." The main area contains four input fields: "Username:" (empty), "Password:" (empty), "Equipment IP Address:" (a dropdown menu showing "172.16.1.61"), and "Default Timeout (s):" (a text box containing "20"). At the bottom right, there are two buttons: "Login" (highlighted in blue) and "Cancel" (greyed out).

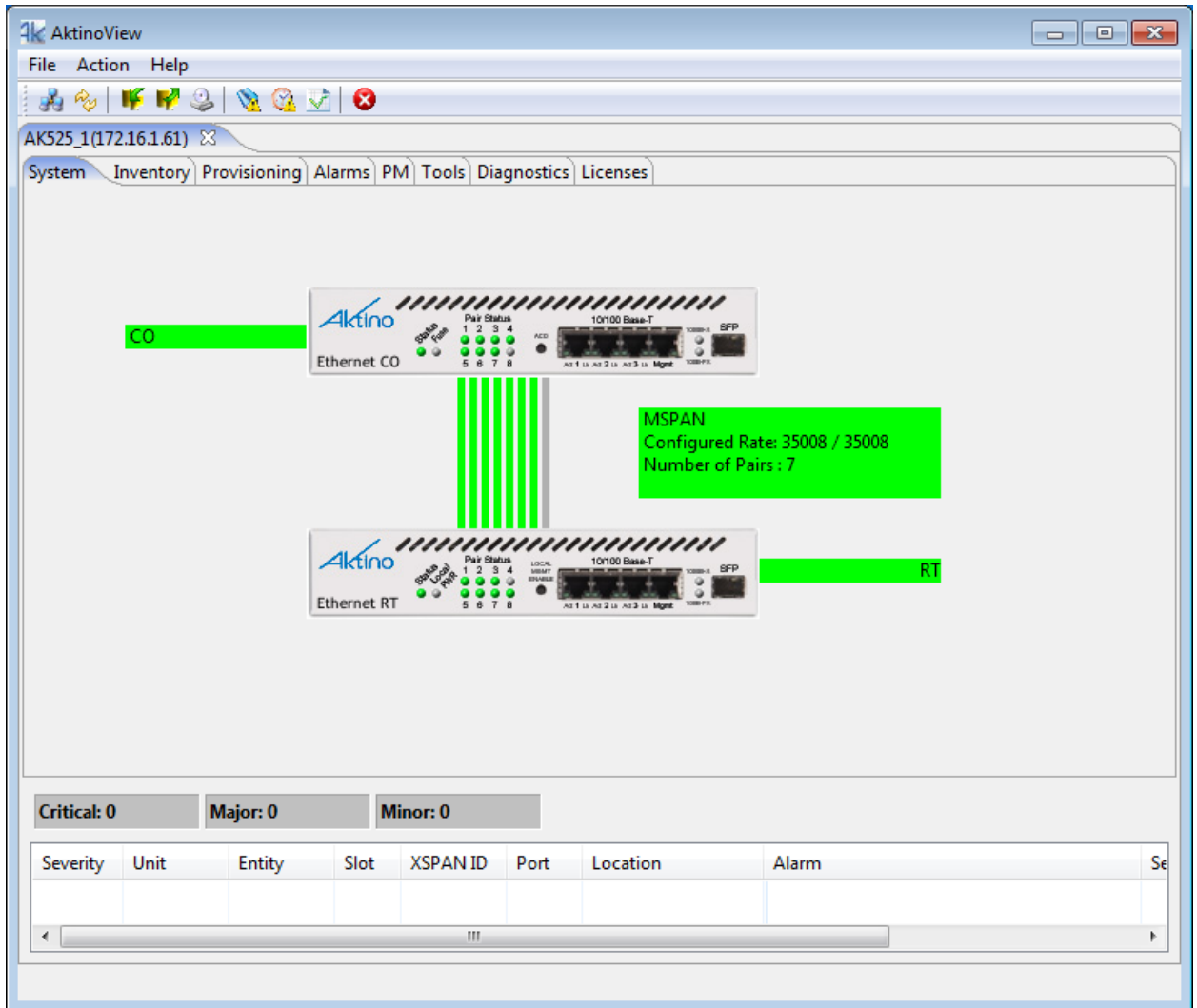
Enter a Username and Password appropriate for the AK525 CU. The default Username is "superuser" and the default password is "superuser". Enter the system's IP address in the Equipment IP Address field, and Click **Login**. The default IP address for the CU is 192.168.10.1 and the default IP address for the RU is 192.168.10.2.

Once you are signed in, the system will open to the AK525 System screen as shown in section 2.3.

### 4.3 System

The System tab provides a front panel representation of the AK525 system.

Once you are here, select the Provisioning tab and then the Equipment tab. This will provide you with the following screen shown in section 2.3.1.

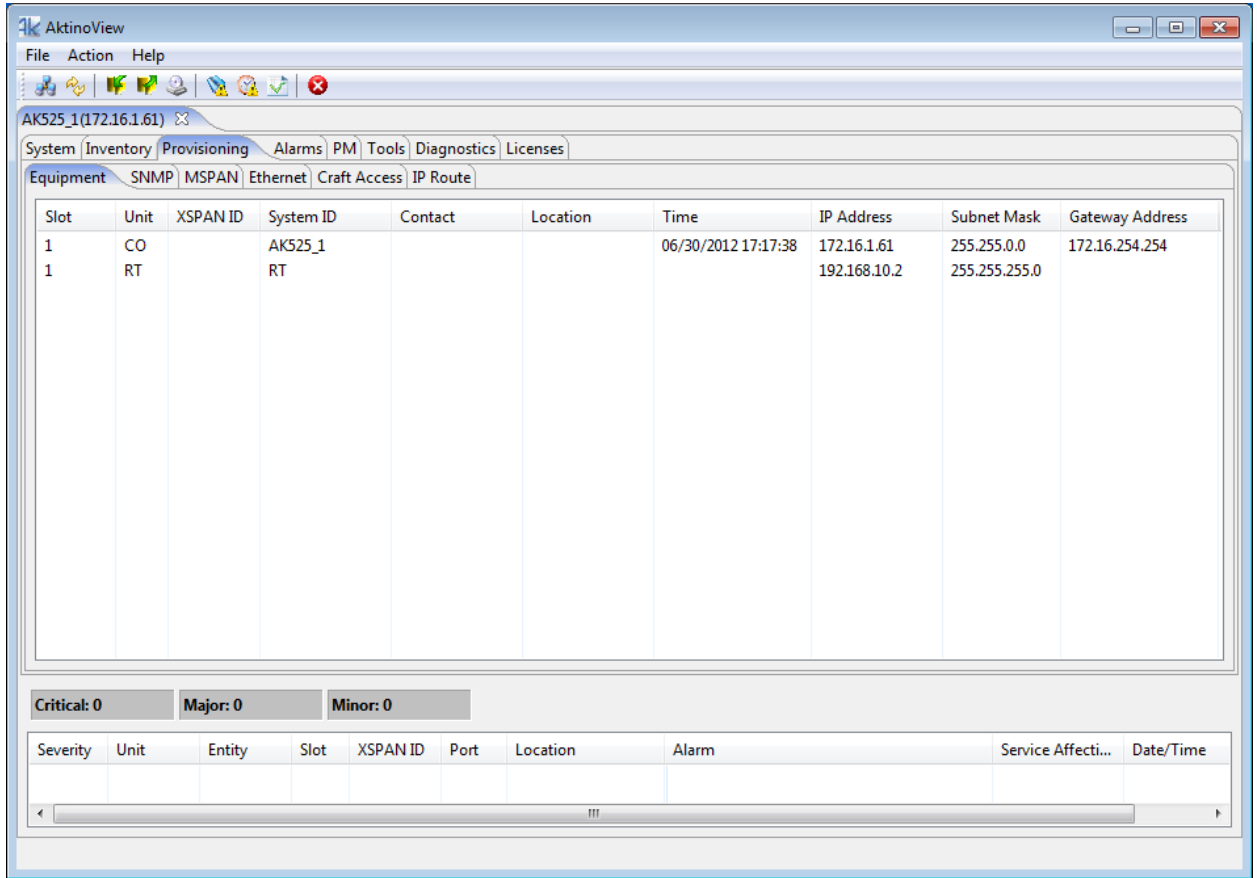


### 4.3.1 Provisioning > Equipment

Selecting the Provisioning tab displays all the provisioning sub-sections supported by the AK525 System.

Selecting the Equipment tab under Provisioning allows equipment provisioning of the system.

You are now ready to configure the units for either Span 1 or Span 2.



## 4.4 Configuring the Systems


### Configuring Span 1

- Double-click on the CO intended for Span 1. This opens the CO Equipment Dialog Box (See Figure 1).
- Set the **Regenerator Type** to Span 1.
- Set the **Other Span IP Address** to the IP Address you will use. Note that it must be on the same subnet as the Span 1 AK525CU.
- Select **OK** to Confirm the change to the **Regenerator Type**.
- Close the connection to the system.

### Configuring Span 2

- Go to the **File > Connect to...** menu to create a connection to the CO intended for Span 2.
- Double-click on the CO intended for Span 2. This opens the CO Equipment Dialog Box (See Figure 2).
- Set the **Regenerator Type** to Span 2.
- Set the **Other Span IP Address** to the IP Address you used as the Span 1 AK525CU's IP Address.
- Set the **Span 2 Mgmt. IP Address** to the IP Address that you will use. Note that this must be on the same address as used in the Span 1 **Other Span IP Address** parameter.
- Select **OK** to Confirm the change to the **Regenerator Type**.
- Close the connection to the system and exit AktinoView.

**Note:** A Span 1 tab and a Span 2 tab will show above the System tab when the Span connections are complete (See Figure 3).

**Equipment** 

Slot: 1

Unit: CO

XSPAN ID: 0

System ID: AK525\_1

Contact:

Location:

IP Address: 172.16.1.61

Subnet Mask: 255.255.0.0

Gateway Address: 172.16.254.254

RT Proxy IP:

Regenerator Type: Span 1

Other Span IP Address: 172.16.1.199

Span 2 Mgmt. IP Address:

Time: 06/30/2012 13:22:23 PC Time

OK Apply Cancel

Figure 8: Span 1 CO Unit Equipment Dialog



**Equipment** Aktino

Slot: 1

Unit: CO

XSPAN ID: 0

System ID: AK525\_2

Contact:

Location:

IP Address: 192.168.10.1

Subnet Mask: 255.255.0.0

Gateway Address:

RT Proxy IP:

Regenerator Type: Span 2

Other Span IP Address: 172.16.1.61

Span 2 Mgmt. IP Address: 172.16.1.199

Time: 06/30/2012 13:23:12 PC Time

OK Apply Cancel

Figure 9: Span 2 CO Unit Equipment Dialog

## Managing the Systems

In order to manage the equipment from the Central Office, the Ethernet management ports on the mid-span RUs need to be connected to one and other, and both MSPANs need to be up.

Once these conditions have been met both spans can be managed by using AktinoView to connect to the Span1 CU IP Address and then by selecting either the Span 1 or Span 2 tab, you can manage the selected span as needed.

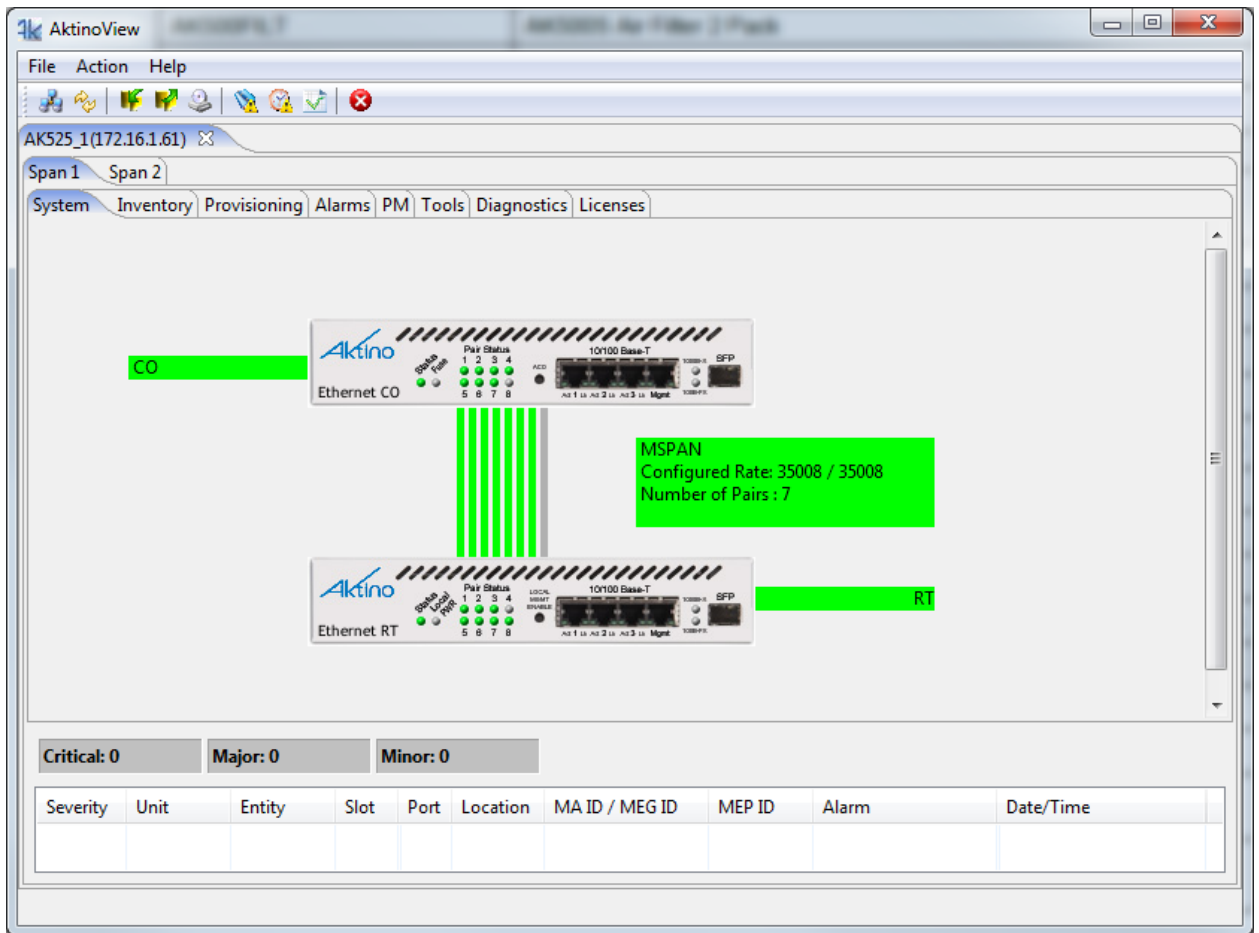


Figure 10: Completed AIR configuration displaying the Span 1 and Span 2 tabs

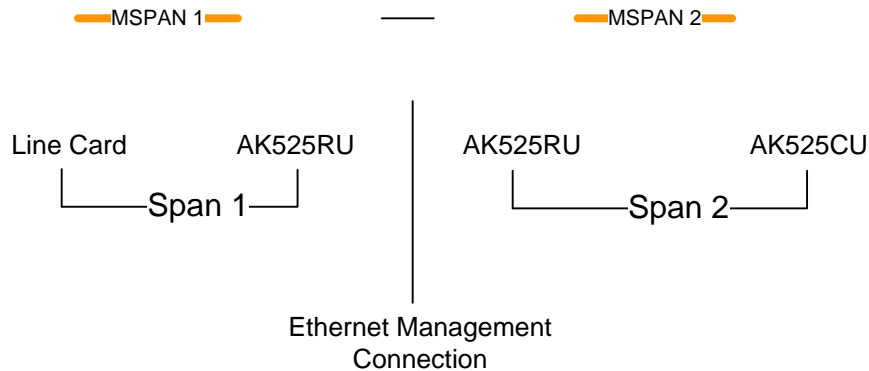
# Chapter 5

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## AK5000 Regenerator System

## 5.1 The AK5000 Regenerator System

The AK5000 Regenerator System consists of one AK5000 unit, one AK500 Series Line Card, and one AK525CU unit and two AK525RU units . The units must be deployed as follows:

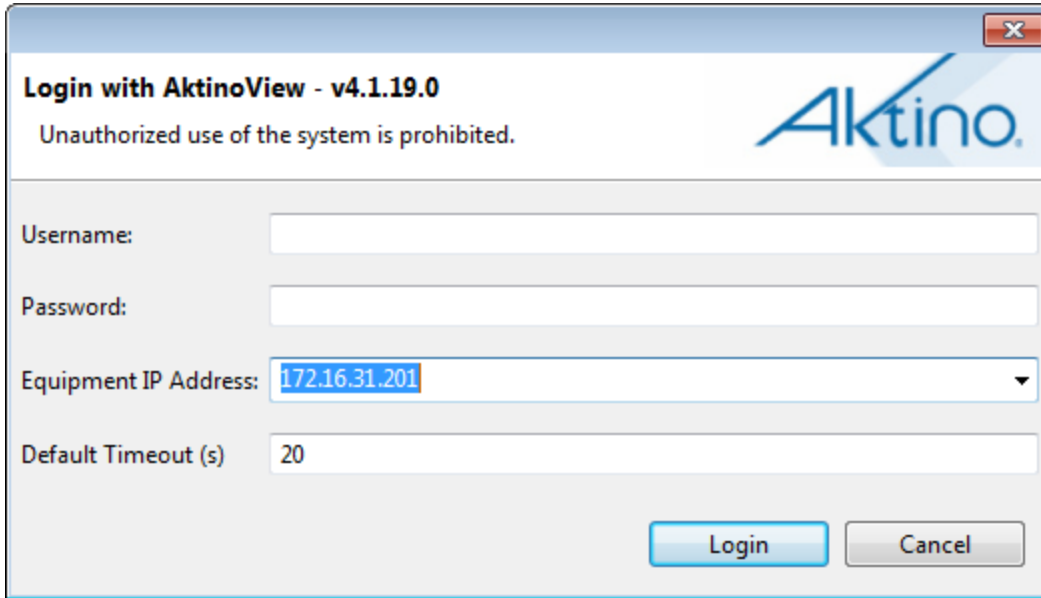


In the above example, note that the first group of Line Card and AK525RU units create Span 1 while the second group of AK525RU and AK525CU units create Span 2. The two mid-span RU units have their Ethernet Management Ports connected in order to allow management devices in the Central Office to be able to manage the equipment of both spans.

In order to change the default IP Addresses and set up the system you must be signed into AktinoView, which is discussed in the next section.

## 5.2 Signing into AktinoView

In order to configure the system you must be logged into AktinoView.



The screenshot shows a login dialog box titled "Login with AktinoView - v4.1.19.0". The dialog box has a blue header with the Aktino logo on the right. Below the header, it says "Unauthorized use of the system is prohibited." There are four input fields: "Username:" (empty), "Password:" (empty), "Equipment IP Address:" (containing "172.16.31.201" and a dropdown arrow), and "Default Timeout (s)" (containing "20"). At the bottom right, there are two buttons: "Login" (highlighted in blue) and "Cancel" (greyed out).

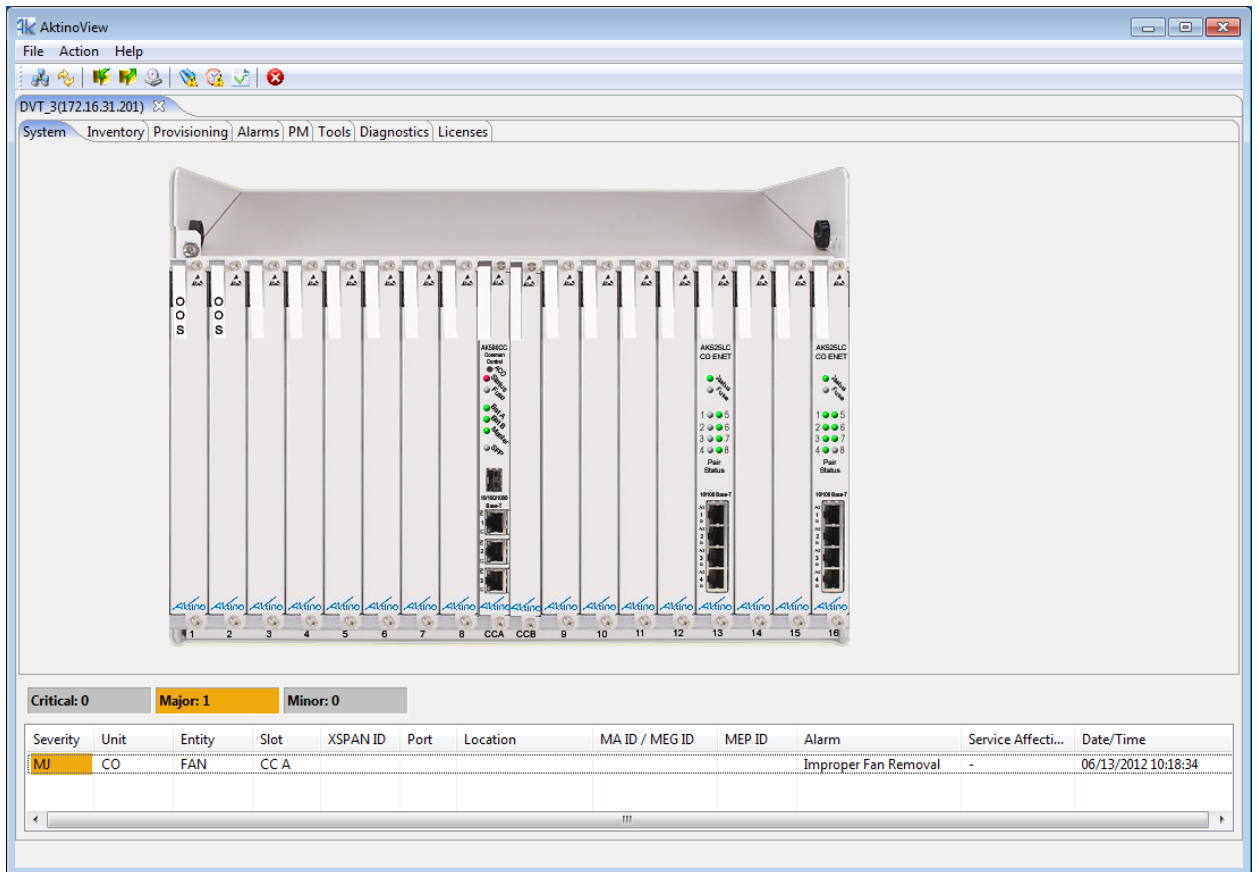
Enter a Username and Password appropriate for the AK5000. The default Username is "superuser" and the default password is "superuser". Enter the system's IP address in the Equipment IP Address field, and Click **Login**. The default IP address for the CU is 192.168.10.1 and the default IP address for the RU is 192.168.10.2.

Once you are signed in, the system will open to the AK5000 System screen as shown in section 4.3.

### 5.3 System

The System tab provides a front panel representation of the AK5000 system.

Once you are here, select the Provisioning tab and then the Equipment tab. This will provide you with the following screen shown in section 4.3.1.

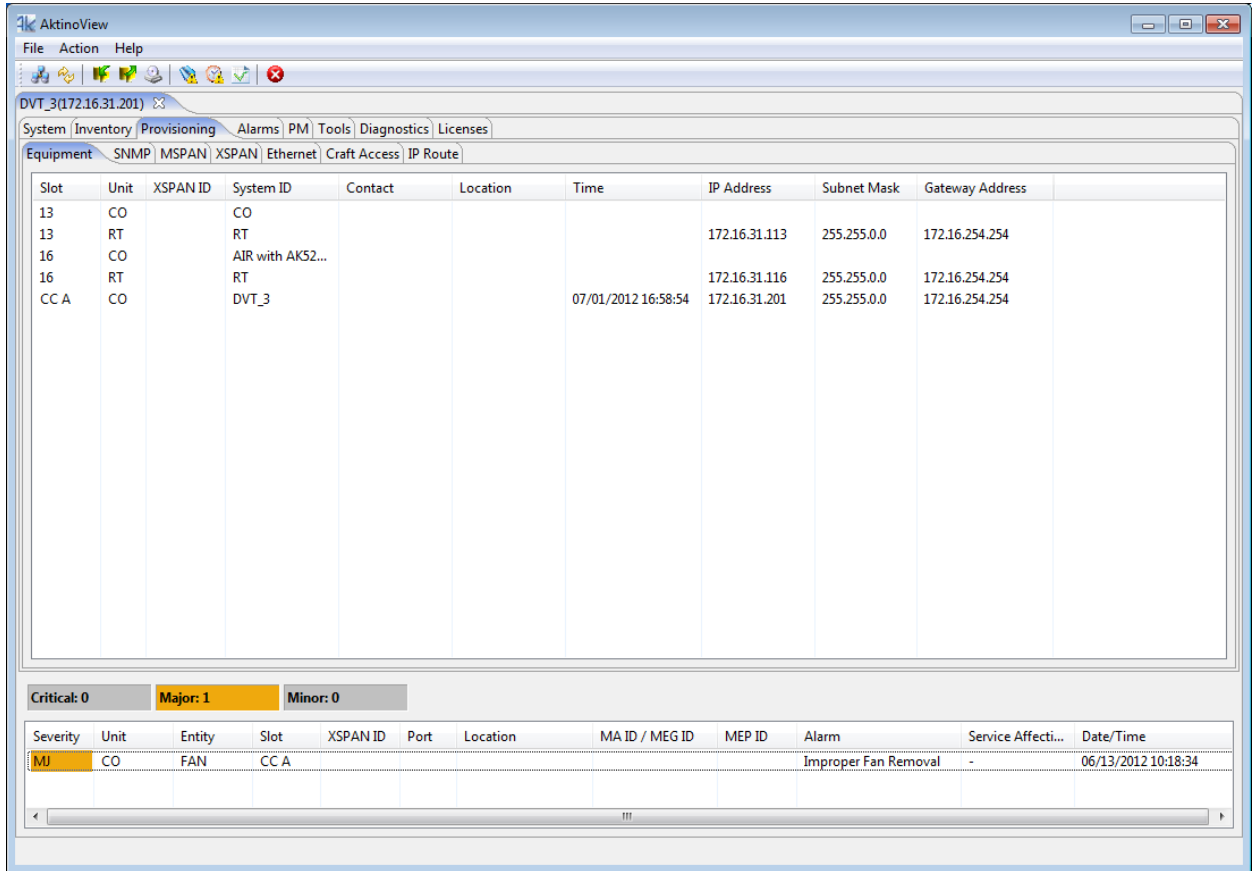


### 5.3.1 Provisioning > Equipment

Selecting the Provisioning tab displays all the provisioning sub-sections supported by the AK5000 System.

Selecting the Equipment tab under Provisioning allows equipment provisioning of the system.

You are now ready to configure the AK5000 Line Card to be the Span 1 unit.



## 5.4 Configuring the Systems

### Configuring Span 1

- Double-click on the Line Card CO unit intended for Span 1. This opens the CO Equipment Dialog Box (See Figure 7).
- Set the **Regenerator Type** to Span 1.
- Set the **Other Span IP Address** to the IP Address you will use. Note that it must be on the same subnet as the CCA card.
- Select **OK** to Confirm the change to the **Regenerator Type**.
- Close the connection to the system.

### Configuring Span 2

- Go to the **File > Connect to...** menu to create a connection to the CO intended for Span 2.
- Double-click on the CO intended for Span 2. This opens the CO Equipment Dialog Box (See Figure 8).
- Set the **Regenerator Type** to Span 2.
- Set the **Other Span IP Address** to the IP Address of the CCA card in the AK5000.
- Set the **Span 2 Mgmt. IP Address** to the IP Address that you will use. Note that this must be the same address as used in the Span 1 **Other Span IP Address** parameter configured in the Line Card of the AK5000 system.
- Select **OK** to Confirm the change to the **Regenerator Type**.
- Close the connection to the system and exit AktinoView.

**Note:** A Span 1 tab and a Span 2 tab will show above the System tab when the Span connections are complete (see Figure 9).



The image shows a configuration dialog box titled "Equipment" with the Aktino logo in the top right corner. The dialog contains the following fields and values:

Field	Value
Slot	16
Unit	CO
XSPAN ID	0
System ID	AIR with AK525CUP
Contact	
Location	
IP Address	
Subnet Mask	
Gateway Address	
RT Proxy IP	
Regenerator Type	Span 1
Other Span IP Address	172.16.31.99
Span 2 Mgmt. IP Address	
Time	07/01/2012

At the bottom of the dialog are three buttons: "OK", "Apply", and "Cancel".

Figure 11: Span 1 Line Card Equipment Dialog

**Equipment** Aktino

Slot: 1

Unit: CO

XSPAN ID: 0

System ID: AK525\_2

Contact:

Location:

IP Address: 192.168.10.1

Subnet Mask: 255.255.255.0

Gateway Address:

RT Proxy IP:

Regenerator Type: Span 2

Other Span IP Address: 172.16.31.201

Span 2 Mgmt. IP Address: 172.16.31.99

Time: 07/10/2012 09:21:18 PC Time

OK Apply Cancel

Figure 12: Span 2 CO Unit Equipment Dialog

## Managing the Systems

In order to manage the equipment from the Central Office, the Ethernet management ports on the mid-span CRUs need to be connected to one and other, and both MSPANs need to be up.

Once these conditions have been met both spans can be managed by using AktinoView. To manage the Span 1 equipment, log in to the AK5000 and manage the Line Card and its CRU as needed. To manage the Span 2 equipment, log in to the IP address configured in the Other Span IP Address parameter configured in the Span 1 Line Card (172.16.31.99 in this example) and select the Span 2 tab.

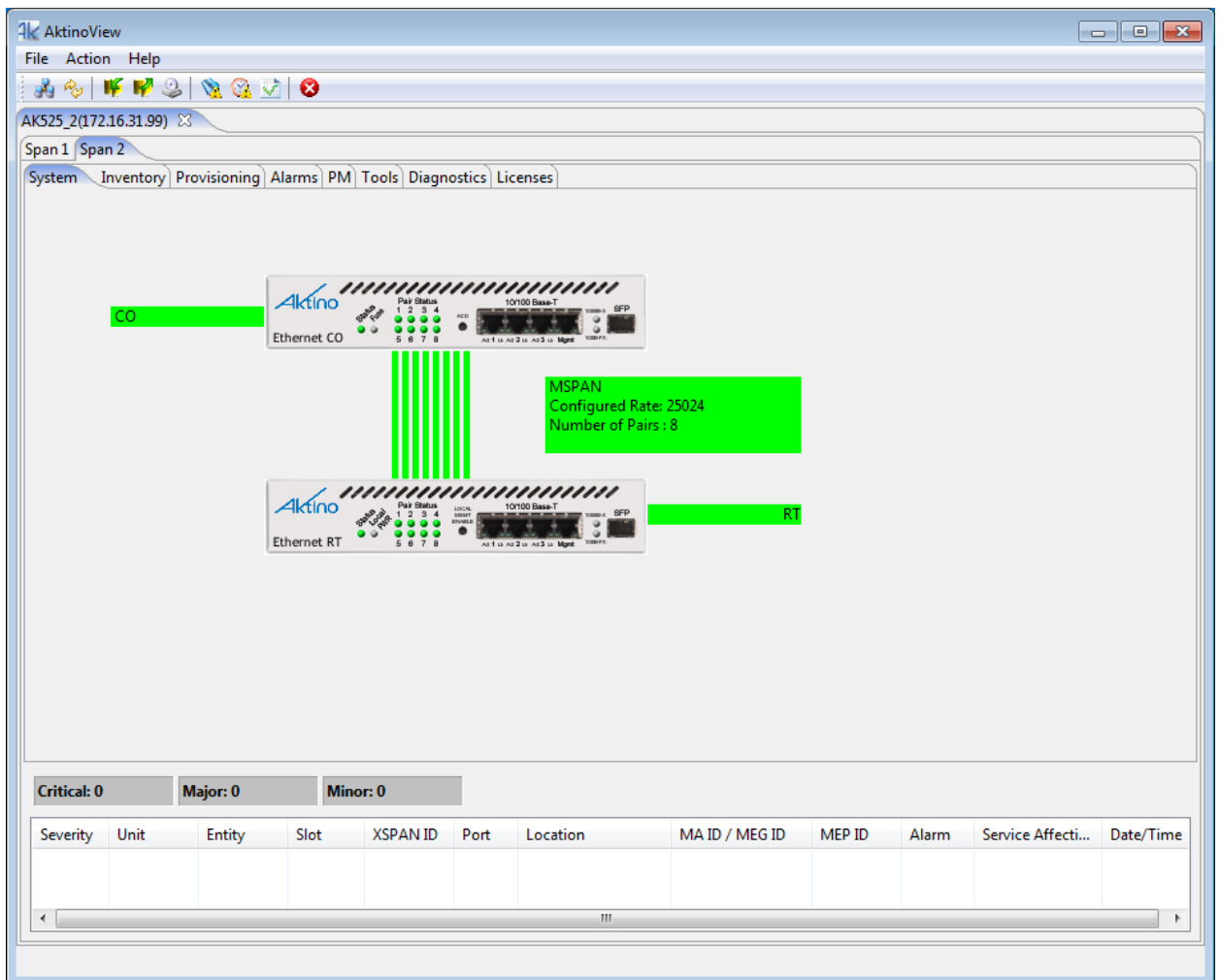


Figure 13: Completed AIR configuration displaying the Span 1 and Span 2 tabs