



639572 Revision G, May 2016

ATC300-1000/2000 Control System

Equipment Installation Overview





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Statement of Purpose:

Starting with firmware version 2.27 and later, the ATC300-1000/2000 controller can be connected to the network out of the box and will establish a DHCP connection.

The ATC300-1000/2000 default hostname is its serial number.

ATC300-1000/2000 controllers running firmware version **2.26** or earlier should see Bulletin 639571 for network communications setup.

An upgrade to the latest firmware is recommended and may be performed once network communication is established. See Bulletin 639544, ATC300-1000/2000 Installation and Operation User Guide, Section 9.

Firmware can be downloaded from the CommScope website:

• From the Products tab on www.commscope.com, click on ATC300-1000/2000 Rack Mount Controller link.

Please contact the CommScope Customer Support Center, (see bottom of cover page), for any questions.

Notices and Precautions

WARRANTY NOTICE

Proper installation procedures must be followed when installing and operating RET equipment. Failure to assure installations are done properly by trained installation personnel and to follow procedures discussed in this bulletin may cause warranty for such products to be void.

CommScope requires pretesting actuators on the ground prior to installation using the CommScope portable controller and the latest version of the controller software (available online at www.commscope.com/Resources/Software). This will verify proper actuator functionality and also ensure that the latest available actuator firmware release is installed on the actuator. Failure to conduct pre-test and pre-installation procedures defined by CommScope will void warranty.

SAFETY NOTICE

The installation, maintenance, or removal of an antenna requires qualified, experienced personnel. CommScope installation instructions are written for such installation personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment. CommScope disclaims any liability or responsibility for the results of improper or unsafe installation practices.



It is recommended that transmit power be turned off when the field installation is performed. Follow all applicable safety precautions as shown on thispage.

Do not install near power lines. Power lines, telephone lines, and guy wires look the same. Assume any wire or line can electrocute you.

Do not install on a wet or windy day or when lightning or thunder is in the area. Do not use metal ladder.

Wear shoes with rubber soles and heels. Wear protective clothing including a long-sleeved shirt and rubber gloves.

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1.Equipment Installation Options

Note: Test system components on the ground before installation on tower.



Figure 1. ATC300-1000/2000 Control System Connection Options

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2.0 Controller Program Startup and Device Scan

- 1. Pre-Installation Notes:
- CommScope strongly recommends that each component be tested before installation on the tower.
- Both +24 and -48 Vdc connections for the power supply module are available. For proper opera-tion, ensure wires are connected with correct polarity.
- CommScope recommends that you register online to receive notifications for updates made to the software file. It is also recommended that the CommScope web site be checked every 30 days for updated software/documentation.
- Refer to Bulletin 639571 for instructions about using the IP Config Tool to reconfigure the local PC/laptop's IP address for access to the ATC300-1000/2000's main operating interface.
- Refer to Bulletin 639577, Updating Firmware of CommScope Devices, if an update is required.

2. Controller Access:

- Type the controller's IP address or hostname into Internet browser URL window. The factory default IP address is 192.168.255.141. See Figure 2-1.
- Click on **Go** (or press **Enter** on the keyboard).



Figure 2-1. Entering Controller's IP Address Into Internet Browser.

• The ATC300-1000/2000 Controller main interface screen is shown below.

Hon	10	Configuration	n	Alarms	Help						AN	DREW
					RE	l' Denice Info	ermation					
D	Туре	AISG	Status	Sector	Location	Bands	ETilt	MTür	Az Bearing	RAS	RAB	Model
												



Figure 2-2. ATC300-1000/2000 Controller Main Interface Screen.

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3. Device search:

Click on Find Devices (Figure 2-2).

- Click on Start Scan on the Device Scan Progress screen (Figure 2-3).
- If an antenna/actuator has been removed or added to the site, a new scan is required.
- Firmware upgrades for CommScope devices may be recommended.
- Click on **Close** to return to the main screen.

Home Configurat	ion	Alams I	Help							NDRE
			Dee	ton Come Denue						
Derice	Vender	Serial#	Des Type	ice Scan Progr Product Type	AISG	HW Versies	SW Version	TI	Update Reg'd?	Status
Derice AN000000000000000000000000000000000000	Vendor AN	Serial# 0000000000502616	Туре		AISG	HW Version 02.00	SW Version 90c.79		Update Req'd? Unknown	Status OK



Figure 2-3. Searching for Devices.

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3.0 Device Configuration

1. Select appropriate device to be configured and click on **Edit Selected** (Figure 3-1).

	Home Configuration	1	larena	Hilp						a contra	1	ANI	DREW
	Device Information												-
	ID	Type	AISG	Status	Sector	Location	Bands	ETilt	MTilt	Az Bearing	RAS	RAB	Model
	AN000000C2061201316	RET	1.1	ok.	alpha (1)	3	1900	4.0	0.0	240			08XLH- 6565A- VTM-01
	AN000000C2072501791	RET	1.0	*NOT CONFIGURED*				16.0	0.0	0	_	_	
	AN000007DE5A02285641	RET+	1.1	ok.	alpha (1)	2	1800	7.0	4.5	190			SBH- 2D6316
	AN000007DE5A0228564.p	AZAN0+	1.1	OK.	alpha (1)	2	1800			180	0	-	SEH- 2D6516
	AN000007DE5A0324568.t	RET+	1.1	ок	alpha (1)	э	SOD	7.0	2.0	100			SBH- 2D6516
	AN000007DESA0324568.p	AZANG+	1.1	OK.	alpha (1)	3	800			100	24		SEH- 2D6516
Click on Edit Selected.	AN0000DESA073917944	RET	2.0	OK	alpha	4	II UL: 1850- 1910 MHz, DI - 1620	6.0	5.0	120			140
	Devices Move Sector Edt Selected Command / Status Response	Move Se Show St		Display	pdate/Re Show TI			nd Devic		J Bue	Power	uspens Weke	

Figure 3-1. Starting the Device Configuration.

2. Make appropriate selections and text entries on screen below.

• To receive commands from the controller, a device must be configured to provide specific information about the antenna and its location on site.

• Factory installed actuators are pre-configured to include the antenna model number, antenna type, and antenna serial number.

• The remaining fields (Installation Date, Base Station ID, Mechanical Tilt, Technology, Freq. Band, Sector, Location, Bearing, Height, and Installer ID) will need to be configured.

• After entering data, click on **Set Device Data** (Figure 3-2).

Note: Click on **Close** to return to the controller's main screen when device configuration is complete.

Home	Configuration	Alarms	Нер	
		RET	Device AN0000	000C2072501791 Configuration
	"Antenna Model	DBXLH65658-VTMHI	-	
	Min Electrical Tilt	0.0		Max. Electrical Tilt: 16.0
	Anterna Type	Dual Polarized	-	
		AN000000C2072501791		
	Eren Bandt	300 101		+Sector: [heta (2) v]



Figure 3-2. Device Configuration.

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4.0 Adjusting Electrical Tilt

1. Device adjustments for a single antenna:

• Start at the controller's main inter-face screen. To change electrical downtilt on a single antenna, select the antenna actuator to be tilted, and click **Move Selected**. See Figure 4-1, Screen 1.

• Enter the new electrical tilt angle and click on **Set Tilt**. See Figure 4-1, Screen 2.

2. Device adjustments for a group of antennas:

Click on a device that is to be in-cluded in the sector move, and click **Move Sector** (Screen 1). The dialog box to **Set Electrical Tilt for Sector** *x* appears (Figure 4-2).

												ANDRE
					RET D	evice Information						
m	Турс	AISG	Status	Sector	Location	Bands	ETik	MTilt	Az Bearing	RAS	RAB	Model
AN0000000000346890	RET	1.1	ок	beta. (2)	1		8.0	6.0	0	-	-	DEXLH-9090 VTM-
AN0000DE5A080303396	RET	2.0	ок	alpha (1)	1		10.0	0.0				TMBX-6516-R
AN0000DE\$A073413329	RET	2.0		beta (2)		IV UL: 1710-1755 MHz, DL: 2110-2155 MHz	0.1	25.5	0			926LG65VTE
AN0000ASZP081419361	RET	1.1	OK.	alpha (1)	2	800	8.0	1.0	1			DBXLH-6565 VTM
AN0000ASZP081419367	RET	1.1	OK.	alpha (1)	2	1900	8.0	0.3	3			DBXLH-6565 VTM
Move Sector. Edt Selected. amand/Status Reponse			ove		ector	or Move		ind Devi onfigure	Bus	8	us Powe	s Suspend Wake
Home Configuration		Ala		Help	·				3	0.990		ANDREV



Figure 4-1. Adjusting Tilt For One Antenna.

3. Adjusting the downtilt angle on a group of antennas:

- Click on the Additional models, one at a time, to be included in the sector move (Figure 4-2). Antennas are listed in the Additional box only if they have the same sector and tilt range as the selected antenna.
- Click on Add to move the selection to Included. Double-clicking on the model will also add it to the group for the sector move.
- Enter the new electrical tilt angle. Review the electrical tilt range to verify that the new tilt angle entered is valid for the antenna model. Any downtilt angle within this range may be entered. Angles may be entered with the precision of 0.1 degree (Example: 5.0 or 5.5).





Figure 4-2. Adjusting tilt for antennas in the same sector.

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