

639577 Revision D, May 2016

Updating Firmware Of CommScope Devices Using The

ATC300-1000/2000 Control System





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Pre-Upgrade Notes

- CommScope strongly recommends that each component be tested before installation on the tower.
- CommScope recommends that you register online to receive notifications for updates made to the software. It is also recommended that the CommScope web site be checked every 30 days for updated software/documentation.
- ATC300-1000/2000 firmware version 2.16 or later provides the user with an improved method for updating CommScope device firmware. The **Device Statistics Screen** (Figure 1) displays the device firmware status in the **Update Req'd** field shown in one of three states:
 - A dashed line is a device that is not supported by this upgrade method.
 - **Unknown** indicates that the firmware for that device has not been installed on the controller.
 - Yes or No means that a device does or does not require upgrading from the controller.
- Please contact the CommScope Customer Support Center (see cover page) for any questions.

Home Con	figuration	Alams H	elp			1	a to attack		AND	REW.
				Device Staristic	8					
Derice	Vendor	Serial#	Турс	Product Type	AISG	HW Version	SW Version	TI	Update Req'd?	Status
AN0000DESA081014	688 AN	0000DESA081014688	RET	ATM3	2.0	01.00	2.0.16	12.5	No	OK
AN0000DESA074828	826 AN	0000DESA074828826	RET	ATMB	2.0	01.00	2.0.16	6.0	No	OK

								_		
AN0000a000c3615144a	AN	0000a000c3615144a.1	TMA	E15506P80	2.0	04	0202		No	OK
AN0000a000e3155056a	AN	0000a000e3155056a.1	TMA	E15S08P78	2.0	01	0202		No	OK
AN0000000000302616	AN	0000000000302616	RET	ATC_	1.1	02.00	90c.79	\$.0	Unknewn	OK
		Update status fo	Rec or Ai	d field ndrew	d sh dev	iows i /ices.	upgrade			
		Aut	to Upgrad Mar	ie Ma Nage Device Firm	inuial Upgr iware	ade				
				Close						

Figure 1. ATC300-1000/2000 Controller Device Statistics Screen.

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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1.0 Scan For Devices

1. To scan for AISG antenna line devices, click on the Find Devices button (Figure 2).

Hom	ie	Configuration	n	Alarms	Help						AN	DREW
					RET	Device Info	emation					
D	Туре	AISG	Status	Sector	Location	Bands	ETilt	MTilt	Az Bearing	RAS	RAB	Model
				Click d	on Find	d Dev	vices					
Device M Ec	es iove.Sec fit Select nd/Stat	ton led tus Response	Move Show	Selected Statistics	Displa	y Update/Refre Show TMA	ah s	AISC Bu	nd Devices onligure Bus	Bus P	ower Suspend Wake	

Figure 2. ATC300-1000/2000 Controller Home Screen.

2. Click on the Start Scan button.

The Device Search Progress (Figure 3) window shows when the device search locates each

device connected to the RET system.

Home C-	Afiermatian Manae Male C Device Scan Progress - Windows Inter	net Explorer			e en		NDREW
	Device Search Progress						
	Progress: AN X0000000						
Devic	Devices: 5		HW	SW	Till	Update Rec'd?	Status
AN0000a000c3(Most recent: AN0000DESA0748288	26	T CT SLOE	0202		No	OK
AN0000a000c31				0202		No	OK
AN0000000000			.00	90c.79	8.0	Unknown	OK
AN0000DESA0			.00	2.0.16	12.5	No	OK
AN0000DESA0			.00	2.0.16	6.0	Ne	OK
		Max devices in system: 32 💽					
	Start S	Cancel	Scan				
ommand/Status R	esponse						
Found a device		- Click on St	tart S	Scan.			
		Close					

Figure 3. ATC300-1000/2000 Device Search Screen.

Firmware can be downloaded from the CommScope website:

 From the CommScope Products tab on www.commscope/Resources/Software. Scroll down to the ATC300-1000/2000 Rack Mount Controller link for complete user guide, Bulletin 639544.

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2.0 Update CommScope Actuators

- 1. When the device scan is complete, the **Update Req'd** field displays the current firmware status. On the screen below, three actuators require updates (Figure 4).
- 2. Click on Update Devices.

		/ data da						. ert	N. 85		A CommScope Co
		1	Device	Scan Prog	ress						
Device	Vendor	Serial#	Туре	Product	AISG	HW Version	SW Version	Tilt	Update Ben'd?		Status
AN000000ART08020042	AN	000000ART08020042.t	RET+	SACM	1.1	01.00	1.7.1	2.0	No	OK	
AN0000DESA080303396	AN	0000DESA080303396	RET	ATM3	2.0	01.00	2.0.16	8.5	Yes	ок	
AN0000DESA083254698	AN	0000DESA083254698	RET	ATM3	2.0	01.00	2.0.19	10.0	Yes	ок	
AN0000DESA073413329	AN	0000DESA073413329	RET	ATM3	2.0	01.00	2.0.16	0.0	Yes	OK	
AN08ARTLAB012345007	AN	08ARTLAB012345007.t1	MRET	AIAM	2.0	01.00	1.0.1	2.6	No	OK	
Click o Update De	on evic	Device es ^{One or more devices re}	est	hat n	Update	d upo	lates D	-			
L											
		М	ax devic	es in system	32 💌						
					10 million	1.0					

Scan finished! 5 device(s)in database. Click on Start Scanif you wish to do another scan.

Figure 4. Device Scan Results Show Updates Required.

 Only the devices in need of updates will appear on the Device Upgrades Recommended screen. Select desired updates. Click on Install Firmware (Figure 5). Firmware updates are applied to the selected devices individually.

Home	Configurat	ion	Alarms H	elp			A state and the		
Dev	rice	Vendor	SerialNumber	Device Upgrades F Current SW Version	Commended	Product Type	Approx Upgrade Time	Unselect Al	J Unselect All
AN0000DES.	A080303396	AN	0000DESA080303396	2.0.16	RET	ATM3	4 min	E	ontion
AN0000DES.	A083254698	AN	0000DESA083254698	2.0.19	RET	ATM3	4 min	E	
AN0000DES.	A073413329	AN	0000DESA073413329	2.0.16	RET	ATM3	4 min	E	1
Cli	/ ick on	Appr Inst	oximate u	pgrade tir /are. —	ne is lis	sted. –			
				Instal R	тикаче				
Command/Sta	atus Response								

Close

Figure 5. Initiating Updates.

Note: ATC300-1000/2000 does not provide auto-updates for TMAs at this time.

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4. As each device is updated, the de-vice disappears from the screen. The Device Progress window in-dicates that the upgrade is finished (Figure 6).



Figure 6. Upgrades Have Been installed.

5. The Statistics or Device Scan screen displays a list of the updated devices (Figure 7).

			Device	Scan Progre	285					
Device	Vendor	Serial#	Туре	Product Type	AISG	HW Version	SW Version	тa	Update Reg'd?	Status
000000ART08020042	AN	000000ART08020042.t	RET+	SACM	.1	01.00	1.7.1	2.0	No	OK
0000DESA080303396	AN	0000DESA080303396	RET	ATM3 2	2.0	01.00	2.0.20	8.5	No	OK
0000DESA083254698	AN	0000DESA083254698	RET	ATM3 2	2.0	01.00	2.0.20	10.0	No	OK
0000DESA073413329	AN	0000DESA073413329	RET	ATM3 2	2.0	01.00	2.0.20	0.0	No	OK.
08ARTLAB012345007	AN	08ARTLAB012345007.t1	MRET	AIAM 2	2.0	01.00	1.0.1	2.6	No	OK
		All de	evio	es a	re	upda	ted.	_		

Figure 7. Devices Indicate Updated Firmware Versions.

6. CommScope TMAs and non-CommScope devices can be updated using the manual upgrade method. For details, see Section 9 in the ATC300-1000/2000 RET System Installation and Operation User Guide, Bulletin 639544.

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