Adaptrum

QUICK START GUIDE V1.5

FCC / OFCOM Database Mode

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ACRS 2.0 Base Initial Setup

Database Mode: Base(FCC/OFCOM) mode(1)

- 1. Select device from dropdown menu and open GUI
- 2. Fill out all information in form shown below For OFCOM: Add Authorization Key provided by Nominet

	AdaptrumTVBD::Base Registration - Device Information	× Registration	
	DEV_ID: A2UACRS20F DEV_SN: A2F03267	Kind In Last Name: Sun First In Last Name: N/I Add 1: 25E. Timble Road Add 1: 25E. Timble Road Add 1: 25E. Timble Road	Information
Location	LAT: 41.40809 UNG: 75.64332 Height AGL: 10 meters	Kin State: CA City: Isin jore State: CA 20 Code: 291311 Country: USA V 20 Code: 591311 Country: USA V 10 Paint: Inite-deptorum.com Ogr: Email: Inite-dep	
Network	Resc IP Sotrogs IP address: 169 - 254 - 0 - 0 Submit made: 0 - 0 - 0 - 0 Default gateway: 0 - 0 - 0 - 0	OFCOM ONLY: Authentication Token	

- 3. Save All Settings to Target and Reboot (wait 60 seconds)
- 4. Open GUI and select device from dropdown menu
- 5. Wait for Channel list to come up
- 6. Select any channel from database channel dropdown list

a Link System Information Diagnostics Database	Installation						
Device Information	Contact		Registrant				
DEV ID: A2UACES10	First Name: In	Last Name: sun	First Name:	lin	Last Name:	sun	
	Addr1: 25 E. Trimble Road		Addr1:	25 E. Trimble Road			
	Addr2		Addr2	-			
DEV_MODE: F							
LAT: 51.1789	City: Isan jose	State: CA	Uty:	Isan Jose	State:		
LNG: -1.8262	Zip Code: 95131	Country: USA	Zip Code:	95131	Country:	USA	
Height AGL: 10 meters	Email: in@adaptrum.com	Org: Adaptrum	Email:	lin@adaptrum.com	Org:	Adaptrum	
	Work Phone: 408-850-0545	Mobile Phone: 408-850-0	545 Work Phone	408-850-0545	Mobile Phone:	408-850-0545	
92d386bd		Configure Authentication Tol	(en		Regist	er Device	
Device Information DEV_ID: A2UACRS10 DEV_SN: A2F0J523	Other Informatio	m 36 dBi - Set	168.1.20)	wedb.org.uk:8081/	Selec	ct a Cha	nne
DEV_MODE: F LAT: 51.1789	BASE MAC: FF.FF.FF.FF [21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33] If Hold Channel When Database Timeout CLIENT MAC: C4 ED 84, 7FC 860 [21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33]						
LNG: -1.8262				,			
LNG: [-1.8262 Height AGL: 10 meters	Get Char	nnel List A	gain ——	→ □	Reset Cha	nnel Request]
LNG: 11822 Height AGL: 10 revice & Channel	Get Char	nnel List A	Gain	/Stop	Reset Cha	nnel Request Status Update Status]
LNG: 11852 Hegit AGL: 10 metes Fried C PPI C PPI Frame size change (5,5) to (8,3).	Get Char	nnel List A	Gain CH 30 (546 MHz) 17 :05 :05 06/28/	/Stop	Reset Cha	nnel Request Status Update Status	^
LNG: 1822 Heght AGL: 10 meters fixed C PPI C PPI Fixed C PPI C PPI Prame size change (5,5) to (8,3) Adaptive frame size base 500 clien	Get Char	nnel List A	CH 30 [546 MHz]	/Stop	Reset Cha	nnel Request Status Update Status]



- 7. Select the Diagnostics Tab
- 8. Measure Available DB Channel Quality and pick a channel with the smallest number/greenest bar

Adaptrum TVBD Control Panel :: Base(OFCOM)::(192.168.1.20)::mode(1)					- 🗆 X
Log Link	System Information	Diagnostics Database	Installation		
Channel_Id	/ Noise	Interference	Channel Quality		A
21	89.4	84.1		13.3	
22	101.6	83.9		25.5	
23	96.5	88.2		20.4	
24	97.4	92.9		21.4	Lower number is better
25	100.6	95.3		24.6	
26	94.6	96.7		18.5	
27	91.0	83.3		14.9	
28	92.4	85.0		16.3	
29	91.9	86.1		15.8	
30	100.8	90.9		24.7	
31	101.9	91.3		25.9	
32	96.1	86.2		20.1	
33	91.5	84.6		15.4	
34	86.9	79.3		10.8	-
35	90.7	84.3		14.6	
36	107.5	100.4		31.5	
37	112.4	106.7		36.4	
38	110.4	105.4		34.4	
39	95.4	85.8		19.3	Measure Channel Quality
40	94.4	86.9		18.3	
41	90.6	83.4		14.5	
42	87.3	81.3		11.3	
43	91.9	89.8		15.8	
44	102.0	88.8		26.0	
45	84.4	90.4		8.3	<u> </u>
46	90.8	86.8		14.7	
47	105.0	101 7	_	29.6	· · · · · · · · · · · · · · · · · · ·
		Reset C	hannel Request	40	Measure Available DB Channel Quality Measure All Channel Quality

- 9. Select the Database Tab and click Reset Channel Request
- 10. Select chosen channel from dropdown list

Device & Channel	Persistent Channel	Auto Channel CH 30 (546 MHz)	Start Service Stop Service	Status Update Status
✓ Frame size change (5,5) to (8,3). Adaptive frame size base 500 client	rt 500		5/28/2017 5/28/2017	^
✓Trame size change (8,1) to (5,5).			5/28/2017	v
Persistent Channel			Start S	Service

- 11. Click Start Service to begin broadcasting
- 12. Select Persistent Channel if device should maintain service even after power cycle **For OFCOM:** Do not use Persistent Channel and keep GUI open so that GUI can notify database of any changes.
- 13. Save and Reboot to commit all changes
- 14. Proceed to configure Adaptrum Clients



Antenna Orientation

Panel to Multi-Yagi Client Installations

1. Client Yagi antennas should all be pointed directly at the Base Panel antenna



- 2. All Client antennas must be within a 120-degree arc
- 3. The Base antenna direction should point towards the center of the Clients' sector



