



MiX Talk Firmware Upgrade Process Technical Guide

Overview

This document details how to serially upgrade the firmware of a MiX Talk unit via the MiX Talk Configuration Tool. This is the only way to upgrade the unit's firmware as over-the-air updates are not supported.

Preparation

The firmware upgrade requires a computer with a serial port, the MiX Talk Configuration software tool, and a MiX Talk serial harness (Part ID 440FT0315). The MiX Talk firmware is packaged as a BL2 file and should be copied to the computer before attempting the upgrade.

Upgrade Process

- 1) Use the MiX Talk serial harness to connect the computer to the DATA port on the unit.
- 2) Open the MiX Talk Configuration Tool.
- 3) Choose the correct COM port, set the baudrate to 38400 and click Connect. The unit status details will appear upon successful connection (take note of the current firmware version on the unit). If this does not appear, click disconnect and retry the connection.

MiX Talk Configu	uration Tool [Version 1.0.10]			- u	~
Connection Set	ttings Direct Configurat	on Firmware Update			
Serial Configu	ration - Unit to be configured				
Com Port: CC)M3 ~				
Baudrate: 38	400 ~				
	Connect Disconnect				
Unit Status	refresh				
Connected: yes	5				
Device: 052	22LA000001				
IMEI No.: 357	7520070080417				
Firmware: 01.0	01.38				
			11/X	TELEMAT	ICS



4) Switch to the Direct Configuration tab and save the current config on the computer.

MiX Talk Configu	ration Tool	[Version 1.0	.10]							-		>
Connection Set	tings	Direct (Configuratio	n Firm	ware Update							
Master Numbe Master Number	r +2783	930102128	Query	Set	Unit Identificatio	on 0522LA00	0001		Query All Set All F	Para Paran	meters	5
Button Numbe	rs		Query	Set All	Firmware Version	01.01.38						
Button #1	+01234	456789		Set	Miscellaneous							
Button #2	+9876543210		Set	SMS Centre Number	+27831000	002		Query		Set		
Button #3	000000000		Set	Open Line	Yes -			Query		Set		
Button #4	00000	00000		Set								
Incoming Num	bers		Query	Set All	Timers			Query	Set All			
Incoming#1	00000	00000		Set	Low Power	120	•	seconds	Set	_		
Incoming#2	00000	00000		Set	Call Length	900	•	seconds	Set			
Incoming#3	00000	00000		Set	Call Continue	15	•	seconds	Set			
Incoming#4	00000	00000		Set	Incoming Ring Auto Answer	60 10	•	seconds seconds	Set Set			
Configurator N	umbers		Query	Set All								
Configurator #1	00000	00000		Set								
Configurator #2	00000	00000		Set				Log File	9	Loa	d Confi	g
Configurator #3	00000	00000		Set			5	Save Event	Log	Sav	e Confi	g
Configurator #4	00000	00000		Set								

- 5) Switch to the Firmware Update tab and open the new firmware BL2 file.
 - MiX Talk Configuration Tool [Version 1.0.10] Firmware Update **Connection Settings Direct Configuration** Unit Status refresh Connected: yes Device: 0522LA000001 01.01.38 Firmware C\Users\MartinRa\Desktop\MiXTalk_FW_01.02.02.bl2 File: Open File Update Firmware Hide Uploader Output
- 6) Update the firmware and verify that "Firmware update complete" message is displayed. If this fails in any way go back to the Connection Settings tab, reconnect, and reattempt the firmware update until the "Firmware update complete" message is displayed, even if the unit status already shows the new version. It may help to unplug and reconnect the serial cable



from the laptop.

MiX Talk Co	nfiguration Tool	[Version 1.0.10]					-		×
Connection	Settings	Direct Config	uration F	irmware Update					
Unit Statu	refresh								
Connected:	connecting								
Device:	not connecte	d							
Firmware:	not available								
File:	C:\Users\Ma	rtinRa\Deskto	p\MiXTalk_FW_	01.02.02.bl2					
	Open File								
Upd	ate Firmwar	e							
									_
Firmwar	e size to	update: 76	KB						^
Request	ing bootle	ader mode.	done.						
Upload	progress:	0%	25%	50%	75%	100%			
		79224 byte		22 466 2492					
Firmwar	e update d	complete.	55 Sont In	22.1005 (5102					
You can	now unplu	ig the unit,	, or wait f	or it to recon	nect.				
									>
Hido	Inloador Out	out						λΑΤΙΟ	~
mue	optoauer out	put				WUN	LLCN		

7) Upon successful firmware upgrade, go to the Connection Settings tab and reconnect.

	ľ													
Connection Set	tings	Direct (Configuratio	on Firmv	vare Update									
Master Numbe	r		Query	Set	Unit Identificatio	on			[Que	ry All	Para	ameters	5
Master Number	<mark>+2783</mark>	930102128	3 <mark>67</mark>		Unit Serial Number	05221	LA00000	1	[Se	t All P	arar	neters	
Button Number	rs		Query	Set All	Firmware Version	01.02.	02							
Button #1	+01234	56789		Set	Miscellaneous									
Button #2	+9876	54321		Set	SMS Centre Number	<mark>+278</mark>	31000002	2		G	uery		Set	
Button #3	00000	00000		Set	Open Line	Yes	•			G	uery		Set	
Button #4	00000	00000		Set										
Incoming Num	bers		Query	Set All	Timers	100			Query	S	et All			
Incoming#1	00000	00000		Set	Low Power	120		•	seconds		Set			
Incoming #2	00000	00000		Set	Call Length	900		•	seconds		Set			
Incoming#3	00000	00000		Set	Call Continue	15		•	seconds		Set			
Incoming#4	00000	00000		Set	Auto Answer	80 10		•	seconds		Set			
Configurator N	umbers		Query	Set All										
Configurator #1	00000	00000		Set										
Configurator #2	00000	00000		Set					Log File			Loa	d Confi	g
Configurator #3	00000	00000		Set				S	ave Event	Log		Sav	e Confi	g
Configurator #4	00000	00000		Set						^				

8) Go to the Direct Configuration tab. If **any** of the mobile numbers are present, you can progress to the next step.



MiX Talk Configuration T	ool [Version 1.0	.10]						-		×
Connection Settings	Direct (Configuration	Firmwa	are Update						
MasterNumber		0.000	Cot	Unit Identificatio			Query	II Dora	motors	_
Master Number		uttery	Set	Onit identificatio	л		duely A	ll Pala	meters	
Master Number	0000000			Unit Serial Number	0522LA0000	01	Set Al	Paran	neters	
Button Numbers		Query	Set All	Firmware Version	01.02.02					
Button #1 000000000			Set	Miscellaneous						
Button #2	0000000		Set	SMS Centre Number	0000000000		Quer	у	Set	
Button #3	0000000		Set	Open Line	No -		Quer	у	Set	
Button #4 000	000000 <mark>0</mark>		Set							
Incoming Numbers		Ομοτγ	Set All	Timers		Quer	y Set A	au		
	nnnnnn	duery	Set	Low Power	60	▼ second	s Set			
incoming#i	0000000		561	Call Length	600	▼ second	s Set			
Incoming#2			Set	Call Continue	5	▼ second	s Set			
Incoming#3 000	0000000		Set	Incoming Ring	180	▼ second	s Set			
Incoming#4 000	0000000		Set	Auto Answer	0	▼ second	s Set			
Configurator Numbe	rs	Query	Set All		-					
Configurator #1 000	0000000		Set							
Configurator #2	0000000		Set			Log	File	Loa	d Config	3
Configurator #3	000000		Set			Save Ev	ent Log	Sav	e Config	3
Configurator #4	0000000		Set							
						W	$\mathbf{\Lambda}^{ 1}$	FLEV	NATIC	.5

a. However, if **all** the mobile numbers are blank, load the config that was saved earlier.

b. The parameters will change to that of the saved config. Set all the parameters.

MiX Talk Configuration Tool [Version 1.0.10]

MiX Talk Configura	tion Tool [Version 1.0	.10]					_		×
Connection Setti	ngs Direct (Configuration	Firmwa	re Update					
Master Number ^{Master} Number Button Numbers Button #1	+2783930102128 s +0123456789	Query 67 Query	Set All Set	Unit Identificatio Unit Serial Number Firmware Version Miscellaneous	n 0522LA00000 01.02.02	1	Query All P	arameters rameters	
Button #2	+987654321		Set	SMS Centre Number	+2783100000	2	Query	Set	
Button #3	000000000		Set	Open Line	Yes -		Query	Set	
Button #4	000000000		Set						
Incoming Numb	ers	Query	Set All	Timers	120	Query	Set All		
Incoming#1	000000000		Set	Coll Longth	120	• seconds	Set		
Incoming#2	000000000		Set	Call Cantinua	900	• seconds	Sot		
Incoming#3	000000000		Set	Incoming Ring	15 60	• seconde	Set	1	
Incoming#4	000000000		Set	Auto Answer	10	 seconds 	Set		
Configurator Nu	imbers	Query	Set All						
Configurator #1	000000000		Set						_
Configurator #2	000000000		Set			Log Fil	e l	_oad Config	
Configurator #3	000000000		Set			Save Even	t Log	Save Config	
Configurator #4	000000000		Set					CALATIO	
						m i		EMAILC	3



MiX Talk Configura	tion Tool [Version 1.	0.10]							-		×
Connection Setti	ngs Direct	Configuration	Firm	ware Update							
Master Number		Query	Set	Unit Identification	on			Query Al	Par	ameters	
Master Number	+278393010212	867		Unit Serial Number	0522LA000	00		Set All	Para	meters	
Button Number	5	Query	Set All	Firmware Version	01.02.02						
Button #1	+0123456789		Set	Miscellaneous							
Button #2	+987654321		Set	SMS Centre Number	+278310000	02		Query	•	Set	
Button #3	0000000000		Set	Open Line	Yes -			Query	,	Set	
Button #4	000000000		Set								
Incoming Numb	ore	Query	Sot All	Timers			Query	Set Al	L		
Incoming #1		ddery	Sot	Low Power	120	•	seconds	Set			
Incoming #1	0000000000		Sot	Call Length	900	Ŧ	seconds	Set			
Incoming #2	0000000000		Set	Call Continue	15	•	seconds	Set			
incoming#5	0000000000		Set	Incoming Ring	60	•	seconds	Set			
incoming #4	000000000		Set	Auto Answer	10	•	seconds	Set			
Configurator Nu	imbers	Query	Set All								
Configurator #1	000000000		Set			_					
Configurator #2	0000000000		Set				Log File	•	Lo	ad Config	3
Configurator #3	0000000000		Set			9	Save Event	Log	Sa	ve Config	3
Configurator #4	000000000		Set				•	•			

c. All the parameters will now be restored on the unit

9) The firmware upgrade is complete. Go the Connection Settings tab, disconnect and unplug the MiX Talk serial cable from the unit.

