How gpredict actual communicates with hamlib:

	GPREDICT Einstellungen :: Schnittstellen									
×	Funkgeräte Rotoren									
Allgemein	Konfigurationsname	Host	Port	Gerätetyp	PTT-Statu	VFO Up	VFO Down	O Down	LOU	
	gqrx	localhost	7356	Nur RX	Kein	Main	Sub	0 MHz	0 MHz	
	hamlib_dummy	localhost	4532	Duplex	PTT	Main	Sub	0 MHz	0 MHz	
Module	ic9700	localhost	4532	Duplex	PTT	Main	Sub	0 MHz	0 MHz	
Module	IC9700_iss	localhost	4532	Duplex	PTT	VFO A	VFO B	0 MHz	0 MHz	
	ICOM_IC-R1500	localhost	4532	Nur RX	Kein	Main	Sub	0 MHz	0 MHz	
Schnittstellen										

Actual facts from gpredict. gpredict decide between VFO Up and VFO Down. VFO Up is always TX VFO and VFO Down the RX VFO. Gpredict always use F,f to get and set VFO Down (RX). Gpredict always used I,i to get and set VFO Up (TX). In Gpredict you can choose between Main and Sub as VFO, or between VFO A and VFO B.

So this selections are possible:

Funkge	rätekonfigura	ation bearb	eiten					
Name	IC9700_iss							
Host	localhost							
Port	4532	- +						
Funkgerätetyp	Duplex TRX	•						
PTT-Status	PTT auslese	•						
VFO Up/Down	B↑/A↓	•						
LO Down	A↑/B↓	+	MHz					
LO Up	SUB † / MA	+	MHz					
Benachrichtigung	MAIN † / SI	LOS						
	Clear	Cancel	Ok					

when choosing Main ^ / Sub v gpredict will init with: S 1 Main I is uplink (means tx vfo) F is downlink (means rx vfo)

when choosing Sub ^ / Main v gpredict will init with: S 1 Sub I is uplink (means tx vfo) F is downlink (means rx vfo) when choosing A ^ / B v gpredict will init with: S 1 VFOA I is uplink (means tx vfo) F is downlink (means rx vfo)

when choosing B ^ / A v gpredict will init with: S 1 VFOB I is uplink (means tx vfo) F is downlink (means rx vfo)

after init it will have a loop to set F and I in a defined intervall.

And it is reading with command f the downlink, maybe the user have dail the frequency knob, so it will pick up the new downlinkfrequenc, calculate the correct uplink and will set this.

So gpredict speaks with all satellites transceivers via hamlib.

(and another hint, because the user can change RX/Downlink frequence via dial knob, so it usual that the transceiver has always the focus on the RX/Downlink VFO, only to read or write the tx vfo, the transceiver should shortly change the focus, but should immediatly switch back. Perfect, would be when there would be ci-v commands to set tx/uplink frequency in a hidden way, were you do not to have change the focus, but i think most transceivers are not on this level. Poor firmware of the transceivers.)