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#### **About Program SDC**

«Software Defined Connectors» ( «SDC»). Краткий обзор возможностей программы: - "**ProFile Manager**". Работа с настроечными профилями программ 5MContest и ExpertSDR2.

- "**COM Spider**". Создание любых соединений СОМ портов. Перенос СОМ порта на удаленный компьютер. Формирование телеграфа на удаленном компьютере с использованием протокола ASC-команд (удобен для трансиверов, которые не обрабатывают СW по порту CAT). В протокол добавлены команды ускорения, замедления и немедленной остановки передачи. Передача CW манипуляции на удаленный компьютер с выдерживанием интервалов переключений. Подключение нескольких логов к одному трансиверу.

- "**RIG Sync**". Синхронизация приемников и трансиверов любых типов. Используется своя система опроса, позволяющая реализовать быструю синхронизацию. Возможна синхронизация с клиентами OmniRig и SDR программами, поддерживающими протокол ExpertSync по TCP соединениям, или TCI интерфейс.

- "**Telnet Server**". Позволяет организовать свой telnet server для сбора спотов из множества источников и передачи их через один порт. Может автоматически запускать скиммеры из раздела SKM Server. Telnet Server "понимает", кто к нему подключается и может запускать соответствующие профили для программы 5MContest и других логов. Суммирует и передает споты на панораму программы ExpertSDR2. Интеграция с 5MContest, N1MM, LogHX и др.

- "SKM Server". Организация и подключение скиммеров телеграфных, RTTY и PSK сигналов к трансиверам и приемникам, работающим под управлением программы ExpertSDR2.

- "DIGI Server". Цифровой модуль для подключения к внешним логам и автономной работы. Имеет встроенные модуляторы/демодуляторы для RTTY45,75, BPSK31-125. Для его работы используется только TCI. Для подключения логов каждый модуль имет встроенный Telnet Server.

- "MACROS Server". Панели кнопок для передачи макросов в CW, DIGI, SSB через TCI.

- "**Remote Audio & COM port:**". Создание удаленных подключений для передачи аудио потоков данных и СОМ-портов.

- "**Mixer"**. Создание всевозможных соединений и разделений аудио потоков.

- "Audio Scope". Окна для анализа спекра и временной развертки аудио сигналов.

- "РА". Управление усилителями мощности.

- "SWR Meter:" Графики КСВ для анализа. Используется протокол TCI.

- "OTRSP:" Управление звуком трансивера через протокол

#### OTRSP.

- "TCI Client:" Для подключения трансивера к SDC, работающего через интерфейс TCI. Он имеет встроенную функцию «FocusHelper» для работы с N1MM, 5MContest и другими журналами. Имеет раздел "RIG-Emulator" для подключения устройств и программ через интерфеййййс CAT-COM port.

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#### Создание «укороченных» профилей

#### ExpertSDR2

- , . ., ExpertSDR2, , «vac\_digi»:
  - Х Options About Add vac\_digi one: Speed: < Minitest 10M 12M 6M Line Out On Line Out Off -139 9dBm 120 -100 -80

«SDC»

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# Создание профиля из двух ранее сохраненных профилей

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# Обновление профиля (As File2)





## Работа с профилями программы 5MContest

«For Program:»

5MContest

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5MContest

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## **COM-Spider**

ExpertSDR2.

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### Создание соединений СОМ-портов

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ExpertSDR2.

12 / 173

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# Соединение СОМ-порт – Сеть – СОМ-порт

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«SDC»

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OM-2	2500		✓ OM-2500						
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View Log						jegi	

» SunSDR2 (PRO).

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## Порт «as Server»

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«OVF!». , , , ,

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#### Filter

«COMSpider».

« ». , . : FA|FB , , «FA», «FB» , , «FA» «FB» , , «FA» «FB» HEX, , &FDFE – , FDFE.

# **RIG Sync**

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SDC			(	)	VFO,	
, ,	· ExpertSDR2.	,	× ·	OmniRig,	,	,
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# Синхронизация по протоколам САТ с использованием СОМ портов.

TS-590 SDR

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Receiver 1 🔹	Port Ø	COM14 👻 🔮		
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			OmniRig ExpertSI	) DR2 Server
	ync Channel	1).		
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#### Синхронизация по протоколам САТ с портами, открытыми в СОМ Spider



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#### Режим «подслушивания»

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_	OM S	pider:						
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✓ Port A				✓ Port B				
Port Property				Port Property				
Device	Logger			Device	TS-590			
*	Real COM			*	Real COM		▼ 	
Port	СОМ5			Port	COM13			
As Server				As Server				-
			View Log				View Log	
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<b>√</b> TS-590				✔ Logge	er			
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TS-590	)			Logge	er		Ø	
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RigSync

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👫 SDC (Software	e Defined Conn	ectors v 6.5	) [C:/Users/Yui	ri/LwSo	oft/comspi	der.ini]		—		$\times$
ProFile Manager	COM Spider	RigSync	Telnet Serve	r A	udio Client	Audio,	COM Server	Setup	Save	About
Start	Profile: 2TS-59	0-to 2RX_ES	DR2.psnc 👻	×						
✓ Sync Channel 1								OmniRig	J	
	VFOA	VFOB	✓ Mode	Split	RIT	XIT	TX mode	Om	niRig Control	
✓ Rig Control 1			✓ Rig Control	12						
Device Name	TS-590		Device Name		SDRUno					
RIG Protocol	TS-590	•	RIG Protocol		TS-480_v2	2	-			
Port 🔇	COM Spider(T	S-590) 🔹	Port	Ø	COM10		-			
Poll Time 10	‡ Timeou	t 200 🌻	Poll Time	10	*	Timeout	100 🌻			
Poll cmd	Vie	w Log	✓ Poll cmd			View L	.og			
Sync Channel 2								ExpertSI	DR2 Server	
+ -	VFOA	✓ VFOB	✓ Mode	Split	RIT	TIX	TX mode	Port:		
								40000		*
									jelSen	9) aandiidt

«Port»

,

# «COM Spider».

1 SDC (Software [	COM4	) [C. /l. loors //	wCoft/comonid	or inil	
TRALISOC (Software L	COM5	) [C:/Osers/Tun/D	wson/comspide	er.inij	
ProFile Manager	COM6	Telnet Server	Audio Client	Audio/COM Server	Se
Start Pr	COM7	DR2.psnc - 🗶			
	COM8				
✓ Sync Channel 1	COM9				Or
+ -	COM10	✓ Mode Sp	lit RIT	XIT TX mode	
	COM11				
✓ Rig Control 1	COM12	✓ Rig Control 2			
Device Name	COM13	Device Name	SDRUno		
	COM14	RIG Protocol	TS-480 v2		
	COM Spider(Logger)		15 100_72		
Port 🖸	COM Spider(TS-590)	Port C	5 COM10	- 😨	
Poll Time 10	Timeout 200 <sup>1</sup> / <sub>2</sub>	Poll Time 10	D 🗘 Ti	meout 100 🌲	
Poll cmd	View Log	✓ Poll cmd		View Log	
					rid-lugh

••• «	»	, (SDRuno).	«RigSync»
		•	
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#### Режим с опросом порта основного трансивера

«RigSync» «as Server»:

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👫 SDC (Softwar	re Defined Conne	ectors v 6.5	) [C:/Users/Yuri/	LwSoft/comspi	der.ini]	—		$\times$	
ProFile Manager	COM Spider	RigSync	Telnet Server	Audio Client	Audio/COM Server	Setup	Save	About	
Start Profile: 590-SDRuno RigSync.pspd - 🔀 📝									
✓ Port A				✓ Port B					
Port Property				Port Property					
Device L	Logger			Device	TS-590				
۹ 🙀	Real COM 👻			<b>*</b>	Real COM				
Port	COM5		- 🎡	Port	СОМ13 👻 😳				
Filter				Filter					
As Server			View Log	✓ As Server		Tim	eout 10	•	
			View Log	1			View	loa	
Send Data to				Send Data to					

:

#### «RigSync»

🕅 SDC (Software Defined Connectors v 6.5) [C:/Users/Yuri/LwSoft/comspider.ini] –								
ProFile Manager	COM Spider	RigSync	Telnet Server	Audio Client	Audio/COM Server	Setup	Save About	
Start Profile: 2TS-590-to 2RX_ESDR2.psnc 🔹 🔀								
✓ Sync Channel 1	✓ Sync Channel 1 OmniRig							
+ -	VFOA	VFOB	✓ Mode Sp	lit RIT	XIT TX mode	Omnil	Rig Control	
✓ Rig Control 1	✓ Rig Control 1							
Device Name	TS-590		Device Name	SDRUno				
RIG Protocol	TS-590	•	RIG Protocol	TS-480_v2	•			
Port 🔇	COM Spider(T	S-590) 🔹	Port	<b>5</b> COM10	•			
Poll Time 10	‡ Timeou	t 200 🗘	Poll Time 1	0 ‡ 0	Fimeout 100 🗘			
Poll cmd	Vie	w Log	✓ Poll cmd		View Log			
$\smile$							@)jilarcashii)	

Poll Time) (

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# Синхронизация трансивера с ExpertSDR2 и логом N1MM

COM Spider	-	N1MM,	-	FT-1000.
1MM	,			

N1MM

SDC (Soft	ware Defined C	onnectors v	10.33) [C:/User:	s/Yuri/LwSoft/co	omspie	der.ini]		- [	
ProFile Mgr	COM Spider	RigSync	Telnet Server	SKM Server	PA	TCI	Setup	Sav	'e 🔀 🔌
Start	+ -	Profile	: Com3-Com14	.pspd 💌					
✓ Port A					<b>v</b>	Port B			
Port Property					Po	ort Prope	erty		
Device	N1MM				D	evice	FT-1000		
*	Real COM				· (	2	Real COM		•
Port	COM5			-	P	ort	COM1		▼ 🕸
Filter					F	ilter			
As Serve	r					As Se	erver	Time	out 40 🜲
				View Lo	g				View Log
Send Data to					Se	end Data	a to		
✔ FT-1	000					✓ N	IIMM		
Send DTR/RT	'S to				Se	end DTR/	/RTS to		
<b>√</b> FT-1	000					<u> </u>	11MM		
									jetSereensho

RigSync			:
ESDR -	TCI-		
FT-1000 -		COM Spider.	

SDC (Software Defined Connector	s v 10.33) [C:/Users/	/Yuri/LwSoft/co	omspid	er.ini]		-	
ProFile Mgr COM Spider RigSynd	Telnet Server	SKM Server	PA	TCI	Setup		Save 🔀 🚺
Start Profile: 1sound.psnc	- * * [						
✔ Sync Channel 1					OmniRig		
+ ■ VFOA VFOB V	Mode Split	RIT XIT	TX	mode		OmniRig Control	
✓ Rig Control 1	✓ Rig Control 2				Rig1 Ctrl	Rig2 Ctrl	
Device Name ESDR	Device Name	FT-1000					
Type Port TCI-Client 💌	Type Port	COM-Port		•			
	RIG Protocol	FT-1000 MP		•			
TCI Client 5 TCI Client 1 -	Port 🔇	COM Spider(F	T-1000)	) 🔻			
Receiver 1	Poll Time 200	Timec	out 100	\$			
Ctrl	✓ Poll cmd	Lo	og 🗌 (	Ctrl			
Sync Channel 2					ExpertSDR2 Server		
+ - VFOA VFOB V	Mode Split	RIT XIT	TX	mode	Port:		
					50040		\$
					RX1 Ctrl	RX2 Ctrl	

SDC

COM Spider RIG Sync.

COM Spider RIG Sync

SDC (Soft	SDC (Software Defined Connectors v 10.33) [C:/Users/Yuri/LwSoft/comspider.ini]										
ProFile Mgr	COM Spider	RigSync	Telne	elnet Server SKM Server PA			PA	TCI	Setup		
Style Fusio	on		-			Set Fo	ont				R
	S	et no-kill wind	dow 🗸	]							
Move	e to SysTray on S	tart or Minimi	ized 🗸	]							
	Use	ProFile Mana	ager 🗸						_		
		Use COM Sp	ider 🗸	<b>v</b>	Auto	Start CO	M Spide	r			
		Use Rig S	iync 🗸	<b>√</b>	Auto	Start Rig	Sync				
	l	Jse Telnet Se	rver 🗸	<b>v</b>	Auto	Start Telr	net Serv	/er			
		Use SKM Se	rver 🗸		Auto	Start SKM	1 Server	r			
	Use Aud	io Channel Cl	ient		Auto	Connect	Audio (	Channels	5		
	U	se Remote Se	rver		Auto	Start Ren	note Se	rver			
		Use Audio M	ixer		Auto	Start Mix	er				
		Use PA Con	itrol 🗸	<b>V</b>	Auto	Start PA	Control				
		Use									
										je	tSaraanshiit

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#### Использование клиента OmniRig

OmniRig, «COM Spider» «OmniRig»:

«RigSync»

👫 SDC (Softwar	e Defined Conn	ectors v 6.5)	[C:/Users/Yuri/L	wSoft/comspid	er.ini]	—		
ProFile Manager	COM Spider	RigSync	Telnet Server	Audio Client	Audio/COM Server	Setup	Save Abo	out
Start	Profile: 2TS-59	0-to 2RX_ESI	DR2.psnc 👻 🎽	: 🛃 🗌		<u> </u>		9
✓ Sync Channel 1					✓ OmniRig			
+ - v	FOA 🗸 VFOB	✓ Mode	Split RIT		K mode O	mniRig Co	ntrol	
✓ Rig Control 1								
Device Name	SDRuno							
RIG Protocol	TS-480_v2		-					
Port 5	COM10	•	<u></u>					
Poll Time 10	‡ Tim	eout 200	*					
✓ Poll cmd		View Log						ridelan).

«OmniRig».

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#### Синхронизация устройств ExpertSDR2 с другими трансиверами/приемниками

,

OmniRig

«OmniRig»:

🖬 SDC (Software Defined Connectors v 6.5) [C:/Users/Yuri/LwSoft/comspider.ini]	- 🗆 X
ProFile Manager COM Spider RigSync Telnet Server Audio Client Audio	COM Server Setup Save About
Start Profile: 2TS-590-to 2RX_ESDR2.psnc 🔹 🔀	
Sync Channel 1	✓ OmniRig
🛨 💻 🗸 VFOA 🗸 VFOB 🖌 Mode 🗌 Split 🗌 RIT 🗌 XIT 🗌 TX mode	OmriRig Control
Sync Channel 2	✓ ExpertSDR2 Server
+ - VFOA VFOB V Mode Split RIT XIT TX mode	Port:
	Starti Connect! Disconnect! Stop!
, , , , , ,	,).

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, Colibri

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TS	-59	0	

🖬 SDC (Software	Defined Connectors	v 6.5) [C:/Users/Yuri/	/LwSoft/comspic	ler.ini]			
ProFile Manager	COM Spider Rigs	ync Telnet Server	Audio Client	Audio/	COM Server	Setup	Save About
Start F	Profile: 2TS-590-to 2	X_ESDR2.psnc 🔹	🗙 🛃 🛛				
Sync Channel 1					OmniRig		
+ - VFC	DA 🗸 VFOB 🖌 M	ode Split RI	T XIT T	X mode		OmniRig C	ontrol
✓ Rig Control 1							
Device Name	TS-590						
RIG Protocol	TS-590	-					
Port 🔇	COM Spider(TS-590)	-					
Poll Time 10	Timeout 200	÷					
✓ Poll cmd	View Log						
Sync Channel 2					✓ ExpertSD	R2 Server	
+ - VFC	DA 🗸 VFOB 🗸 M	ode Split RI	т 🗌 ХІТ 🗌 Т	X mode	Port:		
					40000		*
					Start! Connect! Disconnect! Stop!		
							jelSereensfiel
			Colibri	Т	S-590		SO2R:

🕅 SDC (Software Defined Connectors v 6.5) [C:/Users/Yuri/LwSoft/comspider.ini]	- 🗆 X
ProFile Manager COM Spider RigSync Telnet Server Audio Client Audio/	COM Server Setup Save About
Start Profile: 2TS-590-to 2RX_ESDR2.psnc 🔹 🔀	
Sync Channel 1	OmniRig
+ - VFOA VFOB V Mode Split RIT XIT TX mode	OmniRig Control
✓ Rig Control 1	
Device Name TS-590-1	
RIG Protocol TS-590	
Port COM Spider(TS-590) -	
Poll Time 10 🗘 Timeout 200 🗘	
✓ Poll cmd View Log	
✓ Sync Channel 2	✓ ExpertSDR2 Server
+ - VFOA VFOB V Mode Split RIT XIT XIT X mode	Port:
	40000
✓ Rig Control 1	Start!
Dic Drotocol TS 500	Disconnect!
	Stop
Port COM Spider(15-590-2) V	
Poll Time 100 C Timeout 200 C	
✓ Poll cmd View Log	

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# Сложные варианты синхронизации устройств

5MCor SDR	: ntest	SO2V.		VFOB.	TS-590 SDR VFOA, VFOB. TS-590	 SDR	TS-5	90	C CO	Q, M
Spider	«a	as Server»:								
٩	SDC (Softw	are Defined Conn	ectors v 6	.5) [C:/Users/\	/uri/LwSoft/comspie	der.ini]				$\times$
	ProFile Manager	COM Spider	RigSync	Telnet Ser	ver Audio Client	Audi	io/COM Server	Setup	Save	About
	Start	+ -	Profile:	590-SDRuno	RigSync.pspd 🔹	×	1			
	✓ Port A			✓ Port B			✓ Port C			
	Port Property			Port Property			Port Property			
	Device	Logger		Device	TS-590		Device	SDRuno		
	€	Real COM	-	<b>*</b>	Real COM	•	<b>*</b>	Real COM		•
	Port	COM5	- 🕸	Port	COM13 -		Port	COM10	•	<b>@</b>
	Filter			Filter			Filter !FR !FT !	FA; !FB; !IF;		
	As Server			✓ As Server	Timeout 1	0 🗘	✓ As Server	Ti	meout 10	*
		Vi	ew Log		Vie	w Log			View	Log
	Send Data to			Send Data to			Send Data to			
	✓ TS-590	0		✔ Logge	r		✓ Logge	r		
	✓ SDRun	0		SDRur	10		TS-59	0		
										7
	Send DTR/RTS	to		Sand DTR/RTS	to		Sand DTR/RTS	to	jelSarce	nshiik

: !FR|!FT|!FA;|!FB;|!IF;

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FB000XXXX;,

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VFOB :

.

ProFile Manager	COM Spider	RigSync	Telnet Server	Audi	o Client	Audio/C	OM Se	rver	Setup	Save	About
Start	Profile: 2TS-59	90-to 2RX_ES	DR2.psnc 👻	×							
✓ Sync Channel 1								Om	niRig		
+ -	VFOA V	VFOB 🗸 N	1ode 📃 Split	RIT	XIT	TX m	ode		OmniR	tig Control	
✓ Rig Control 1			✓ Rig Control	2							
Device Name	TS-590		Device Name	SD	RUno						
RIG Protocol	TS-590	•	RIG Protocol	TS	-480_v2		•				
Port 🖸	COM Spider(	S-590) 🔹	Port	۵ Co	OM Spider(S	DRuno)	•				
Poll Time 10	Timeou	ut 200 🗘	Poll Time	10 ‡	Timeou	ut 100	* *				
✓ Poll cmd	Vie	w Log	✓ Poll cmd		Vie	w Log					
Sync Channel 2	Sync Channel 2								ertSDR2 S	Server	
+ -	+ → VFOA VFOB V Mode Split RIT XIT TX mo										
								40000	)		0

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# Добавление своих ini файлов для устройств

«RigSync»

INI	OmniRig		"Rigs"	
\User\user	_name\LwSoft\Rigs\".	,		"C:
	"User: ":			

SDC (Software Defined Connectors v 12.18b18x64	[C:/Users/Yuri/LwSoft/comspider.ini]	– 🗆 X
ProFile Mgr COM Spider RigSync Telnet Server SKM S	rver PA TCI Setup	Save 📩 🚺
Start Profile: 1sound.psnc 🔻 😫 🜌		
Sync Channel 1		Setup
	VFOA ♥ VFOB ♥ Mode ♥ Split ♥ RIT □ XIT ♥ TX mode	VFO Latency 400
✓   Rig Control 1     Device Name	Rig Control 2     Device Name	OmniRig
Type Port COM-Port	Type Port COM-Port	OmniRig Control
RIG Protocol User: TS-590	RIG Protocol User: TS-590	
Port O PowerSDR SmartSDR	Port OCM13	
Poll Time 100 Ten Tec Lagle Ten Tec Jupiter	Poll Time 100 C Timeout 200 C	
Offset Ten Tec Omini VI_plus Ten Tec Onion	Offset 0	
Ten Tec Onon Ten Tec Paragon II		
TH-F6A		
Sync Channel 2 TS-2000		
+ = TS-480 TS-500	VFOA 🗹 VFOB 🗹 Mode 🗌 Split 🗌 RIT 🗌 XIT 🗌 TX mode	ExpertSDR2 Server
TS-690 TS-870		Port:
TS-930 75-1		S0040
User: TS-590		

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# **RIG-Emulator**

	SDC 12.20	RigSync		- "RIG-Emulator".
3,	NaP3,	JTDX,	, , LogHX.	

SDC (Software Defin	ed Connectors v 12.21b	32x64) [C:/Users/Yuri	/LwSoft/comspider.ir	ni]				-
ProFile Mgr RigSync Te	elnet Server SKM Server	Audio Client RMT	Server Mixer Audio	Scope PA SWR	TCI Setup			
Start Pro	ofile: K3+NaP3+JTDX+Lo	gHX.psnc 🔻 🔀						
Sync Channel 1					VFOA 🗹 VFOB 🗹 MA	ode 🗹 Split 🗹 RIT	💌 XIT 💽 TX mode	VFO
Rig Control 1		🗹 Rig Control 2 —		Rig Control 3 —		Rig Control 4		40
Device Name K	3	Device Name	NaP3	Device Name	лах	Device Name	LogHX	
Type Port C	COM-Port	Type Port	RIG-Emulator 🔻	Type Port	RIG-Emulator 🔻	Type Port	RIG-Emulator 🔻	
RIG Protocol T	S-480							
Port 🚺 C	сомз 🔻 🇱	RIG Protocol	TS-480	RIG Protocol	TS-480	RIG Protocol	TS-480	
Poll Time 100	Timeout 200	Port 🧭	СОМ5 🔻 🇱	Port 🧭	Сом7 🔻 🗱	Port 🚺	СОМ9 🔻 🇱	
Offset 0	•	Offset	0	Offset	0	Offset	0	
Poll Cmd	Log Ctrl	Send Status		Send Status		Send Status		
Sync Channel 2					VEOA VEOB M		XIT TX mode	7
							All Milliode	
				OmniR	ig		COM	•
				(	SDC -	RIGSvnc)		
-	,	COMS	Spider:	(				
-								
RIGSync								
			3					
-		,					· ,	
3		Icom			-			
	SDC-RIGSV	NaP3				,	_	
			,					
-		,	,	VFO,	"	" (		
3		/	),					

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## Примеры синхронизации

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#### Трансивер+ColibriNano

1. SDC Colibri:

SDC (Se	oftware D	efined Connect	ors v 15.1904	x64) * [(	C:/Users	/ut4lw/Lw	/Soft/cor	mspider.i	ni]	
ProFile Mgr	RigSync	Telnet Server	SKM Server	DIGI	Macro	RMT Serv	ver TCI	Setup		
<b>F</b>										Profile:
TCI Client	1									
Conne	ect 🍕					Stop				
Name	ТСІ	Client 1					🗌 Log			
Host	Loc	alhost				Port	40001	•		
Callba	ck TCP-Co	nnect mode. F	ort:			-‰	40000	•		
🗹 Callba	ck UDP-Co	nnect mode. 🛛 🖡	Port:			ē	44044	•		
	l control E	Coder VFOA/B								
	imulator —									
	Helper —									
С	ey Helper									
2. RIG S	Sync	RIG	Control C	Colibri		,		, TS-	590:	

.



SDC (Software Defined Connectors v 15.1904x64) * [C:/Users/ut	t4lw/LwSoft/comspider.ini]	-
ProFile Mgr RigSync Telnet Server SKM Server DIGI Macro R	IMT Server TCI Setup	Sa
Start Profile: 🚺 K3+NaP3+JTDX+LogHX.psnc 🔻	😽 📝 Enter Name	
Sync Channel 1 VFOA VFOB Node Split Rit Xit CI Client Colibri TCI Client Colibri TCI-Client Colibri TCI-Client TCI Client COLIDRI TCI Client COLIDRI TCI Client COLIDRI COLI	✓ VFOA       ✓ VFOB       ✓ Mode       ✓ Split       ✓ RIT       ✓ XIT       ✓ TX mode         ✓ Rig Control 2       ✓ Trasceiver       ✓	Setup — VFO La 400
Sync Channel 2     Ctrl	VFOA 🗸 VFOB 🖌 Mode 🖌 Split 📉 RIT 📃 XIT 📃 TX mode	

4. COM , N1MM	, CO RIG-	M5-COM6. Sync,	RIG Sync TS	COM5, -480.		- COM6.
SDC (Software Def	ined Connectors v 15	.1904x64) * [C:/Users/	/ut4lw/LwSoft/comsp	pider.ini]		
ProFile Mgr RigSync	Telnet Server SKM Se	erver DIGI Macro	RMT Server TCI S	Setup		
Start F	Profile: 🚺 K3+NaF	2+JTDX+LogHX.psnc	🔻 🐹 🛃 Ent	er Name		
Sync Channel 1	] Ctrl			VFOA 🗹 VFOB	🖌 Mode 🗹 Split 🔽	RIT 🗹 XIT 🗹 TX mode
VFOA	Rig Control 1—		Rig Control 2 —		Rig Control 3 —	
VFOB	Device Name		Device Name	Trasceiver	Device Name	
Mode	Type Tore		RIG Protocol	TS-590	Typerone	
Split	TCI Client	TCI Client 1	Port 🚺	СОМЗ 🔻 🔯	RIG Protocol	TS-480
Rit	Receiver	Receiver 1	Poll Time 100	Timeout 200	Port 🚺	СОМ5
Xit	Offset	0 .	Offset	0 *	Offset	0 .
ТХ		Ctrl	Y Poll Cmd	Log Ctrl	Send Status	

🗐 SDC (Software Defi	ned Connectors v 15.	.1904x64) * [C:/Users/	ut4lw/LwSoft/co	mspider.ini]							-
ProFile Mgr RigSync 1	elnet Server SKM Se	erver DIGI Macro	RMT Server TO	I Setup							
Start P	rofile: 🚺 K3+NaP	23+JTDX+LogHX.psnc	- 🗙 📝	Enter Name							
Sync Channel 1	Сы							VFOA 🗹 VFOB	🖌 Mode 🗹 Split 🗸	RIT 🗹 XIT 🗹 TX 1	mode VF
	Rig Control 1		Rig Control 2		Rig Control 3		Rig Control 4		Rig Control 5		
	Device Name	Colibri	Device Name	Trasceiver	Device Name	N1MM	Device Name	LogHX	Device Name	HDSDR	
VFOB	Type Port	TCI-Client 🔻	Type Port	COM-Port 🔻	Type Port	RIG-Emulator	Type Port	RIG-Emulator	Type Port	COM-Port	
Mode			RIG Protocol	TS-590					RIG Protocol	TS-480	
Split	TCI Client 🥳	TCI Client 1	Port	🍏 сомз 🔻 🗱	RIG Protocol	TS-480	RIG Protocol	TS-480	Port 🚺	сомэ 🔻 🚺	
Rit	Receiver	Receiver 1	Poll Time	100 📜 Timeout 200 📜	Port 🚺	Сом5 🔻 🔅	Port 🚺	Сом7 🔻 🔅	Poll Time 100	Timeout 200	
Xit	Offset		Offset		Offset		Offset		Offset		
тх		Сы	🖌 Poll Cmd	Log Ctrl	Send Status	Log Ctrl	Send Status	Log Ctrl	Y Poll Cmd	Log Ctri	

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TCI

#### Expert Electronics

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ExpertSDR2

. :

TCI ProFile Mgr RigSync PA COM Spider Telnet Server SKM Server + TCI Client 1 ک Connect Stop.... Name TCI Client 1 \$ 127.0.0.1 Host Port 40001 Logical control ECoder VFOA/B Log \$ ✓ Callback TCI-Connect mode. Port: **.** 40000 CAT Port Emulator Focus Helper TCI «TCI». TCI +/-. / TCI. ( ), ( SDC), «Connect» •

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# Pexxim CallBack

SDC

SDC (Sof	tware Defined Co	nnectors v	15.1519	<64) [C:/l	Jsers/\	/uri/Lw	/Soft/coms	pider.ini]
ProFile Mgr	Telnet Server	SKM Serve	er D	IGI M	acro	PA	OTRSP	TCI
+ -			Prof	file: Ø	1trx	.ptci		• 🗙
TCI Client 1								
Connec	t 🙀		Stop					
Name	TCI Client 1			Log				
Host	Localhost		Port	40001	\$			
Callback	TCP-Connect mode	. Port:	<b>*</b>	40000	\$			
Callback	UDP-Connect mode	e. Port:	ø	44044	\$			

#### SDC

ExpertSDR2 - Callback TCP-Connect mode. ExpertSDR3 - Callback UDP-Connect mode.

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#### **Callback TCP-Connect mode**

Callback TCP-Connect mode:



	Options								-		Х
	Device Sound card [	Display CAT Pane	Features	ExpertSync 6	CW Skimmer	Shortcuts IQ F	Recorder	ται ς	<b>pot settings</b>		
	Spot settings Lifetime: 5 min Default color:	Enable Server: Se	rver.com:port	Callsign:	UT4LW	Color Servers list	-	Ado	1		
		1 localhost	40000							connecting	creenstöit
SDC. TCI		ExpertSD ,	R2						"Callba	ack"	
	, CallBack.	SDC S	C-TCI-Ca SDC, SDC	allback:		CallBa	ack			TC	I.
SDC.	TO	:			SDC				Cal	lBack	
	TCI.	, SDC		, SDC	;	CallBa	ck.				TCI.
	Croated wit	h the Dersona	LEdition	of Holr	NDoci	Eull foot	urod K	indlo	oRooka	aoporat	or

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#### **Callback UDP-Connect mode**

ExpertSDR3

"Callback UDP-Connect mode"

	SDC (Softv	vare Defined Co	nnectors v	15.1519	9x64) [C	:/Users/	Yuri/Lv	vSoft/
	ProFile Mgr	Telnet Server	SKM Serv	er [	DIGI	Macro	PA	ТСІ
	+ -			Pro	file: 🕻	<b>3</b> 1tr	.ptci	
	TCI Client 1							
	Connect			Stop				
	Name	TCI Client 1		)	Lo	9		
	Host	Localhost		Port	4000	1		
	Callback TC	P-Connect mode	e. Port:	<b>\$</b>	4000	<b>)</b>		
	Callback U	OP-Connect mode	e. Port:	2	4404	4 🌲		
	✓ Logical con	trol ECoder VFO/	4/В				-	
I		_						
		T UDP,	CI			SDC-	TCI CI	ient
xpertSDR3						:		
ExpertSDR3 S	SunSDR2DX EED	06121000450						
U RX2	PA	в.м хуті	R 0 dB	Vo	olume	-•		
			F Break	ln				
			E Dica					
-150.0 dBm	-100	-80	-60	-40	-	20	0	
SO S	I S3 S5	S7 S9	+20	+	40	+60		
RIT XIT	Step: 10 Hz	AGC: FAS	т					
Ŷ	Broadcast	data						
	Fachle							
	Enable							
4404	4,45045							

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## Эмулятор САТ порта

#### CAT Port Emulator -

, , CAT , .

CAT Port Emulator , "CAT Port Emulator". "+",

Connect		Stop	
lame	TCI Client 1		
lost	127.0.0.1	Port 40001	\$
Logical con	trol ECoder VFOA/B	Log	
Callback TC	I-Connect mode. Port:	40000	\$
CAT Port E	mulator		
+ -			
			_

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- , : CAT, PTT, Foot Switch. , COM .
- : CAT - COM , TS-480. PTT (DTR/RTS). PTT - PTT , . Foot - .
- CAT, PTT SSB, VAC ( ). Foot - .
- COM , PTT CW, :

TCI Client 1 —	ø			W	ork		]
Name	TCI Client 1			IQ	🗌 Lος	]	
Host	Localhost			Por	t 4000	1 +	
Callback T	CP-Connect mo	ode. Port:		<u></u>	4000	0	
✓ Callback UI	DP-Connect m	ode. Port		7	4404	4	]
Logical con	trol ECoder VF	OA/B					
RIG-Emu	ilator ———						
Type: CAT	🔻 Rx: Rx 1 🔻	• 🖌	<b>7 ()</b>	CON	15 🔻 🖄	🗆 Lo	g
Type: CAT	▼ Rx: Rx 2 ▼	Set CC	M Por	t of the second		]	$\times$
Focus He	lper						T
		Baud Rate	4800	<b>_</b>	Data Bits	8	
CW Key I	Helper ———	Parity	None	•	Stop Bit	1	
		Set DTR	Low	•	Set RTS	Low	▼
		PTT	RTS	•	Key	DTR	▼
		FR Control	Enable	•			

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## ТС команда.

C	command , TCI TC:command; , TCI . ,	TCI
" ### F1 F2 F3 F4 F5 F6 F7 F8	<pre>####################################</pre>	
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## **VAC** эмулятор

ulator.		,				Т	CI,			
SDC (Se	oftware Define	d Connectoi	rs v 15.	2106x64	4) * [C:/Users,	/ut4lw	/LwSo	ft/cor	n —	
ProFile Mgr	Telnet Server	SKM Server	DIGI	Macro	Audio Scope	PA	SWR	TCI	Setup	
<b>•</b>			Profile:	<b>6</b>	trx.ptci				Enter Na	ame
TCI Client 1	t 🖉							ork (	V-1.7)	
Name	TCI Client 1						IQ		Log	
Host	Localhost						Por	t 4(	0001	×   7
✓ Callback	TCP-Connect m	node. Port					<u></u>		0000	
Callback	UDP-Connect n	node. Port					<b>_</b>	44	4044	×
Logical o	control ECoder \ mulator	/FOA/B								
Type: C4	AT V Rx: Rx 1	V			🌌 🙆 COI	45		•		<b>a</b>
VAC-										
Start	Stop									
Driver:	Windows WDM	I-KS 🔻								
Rate:	24000 🔻						Buffe	er Size:	1024	
RX 1:	Line Out (Virtu	al Cable 1)						•	0,00	•
TX 1:	Mic 2 (Virtual (	Cable 2)						•	0,00	•
RX 2:	None							•	0,00	•
TX 2:	None							•	0,00	•

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## **Focus Helper**

+ TCI Client 1 Connect 🗳 CallBack Status... Name TCI Client 1 127.0.0.1 40001 \$ Port Host Logical control ECoder VFOA/B Log \$ ٤ ✓ Callback TCI-Connect mode. Port: 40000 CAT Port Emulator Focus Helper Stop Start ✓ Also SDC Windows ✓ Synchronize work with TCP Server Program Type: Window Name Ŧ Window Title for VFOA: Radio 1 Stop Window Title for VFOB: Radio 2 Stop \$ Delay (ms) 500 "Focus Helper" TCI TCI. "Focus Helper"/ QSO Synchronize work with TCP Server -Telnet Server). ( . Also SDC Windows --SDC. ,

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#### N1MM

Focus Helper		
Start	Stop	
✓ Synchronize work	with TCP Server	
Program Type:	N1MM	-
Broadcast N1MM Port:	12061 🗘 🍠	Stop
Delay (ms)	200	Log
		() jeSansanskilk

N1MM.

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N1MM,

Configurer							×
Handware Exaction Kowe Distant	ladas Other	Wieless	Mada Cashal	A	Cases Departies	Broadcast Data	Audia
Select the type of data you wis	sh to broadcast	and the th	he IP Address(e	s) and port(	s) for the receiver	(s) of the data.	Audio
Use 127.0.0.1 for the local made 255 in the low order octet will	chine. Use 1206 broadcast to yo	50 as the p ur current	oort unless the r subnet.	eceiving app	plication requires a	different port.	
Type of data	IP Addr:Port IP	Addr:Port					
Application Info	127.0.0.1:120	61					]
🗹 Radio	127.0.0.1:120	61					]
Contacts 🗹 All Computers	127.0.0.1:120	60					]
Spots	127.0.0.1:120	62					1
Batar	127.0.0 1:120	41 127 0 0	1:12040				1
Rotor							1
✓ Score	127.0.0.1:120	50					J
External Callsign Lookup	127.0.0.1:120	60					]
	Wines ID Address		4				
must match each programs setti from each program into N1MM.	ngs. Allows dire	ss and por ct logging	Enab	le IP ible 127.0	Address U	IDP Port 3	
Sets the IP Address and port tha	t an external pro	ogram can oses. (JTD	Enab	le IP ible 127.0	Address T	CP Port	
	ок	Cancel			Help		
						jets	
			N1MM		"Log".	N1	MM

Focus Helper			
Start	Work		
Synchronize work	with TCP Server		
Program Type:	N1MM	·	
Broadcast N1MM Port:	12061 🗘 🗗	Ok!	
Delay (ms)	200	✔ Log	
		S N1MMLog:	$\times$
		Stop log	ear
		<pre>&lt; <?xml version="1.0" encoding="utf-8"? <RadioInfo></pre>	
		FocusRadioNr>	1977 Treenstiin

Delay (ms) -

N1MM.

"Ok":

			s Helper
		Work	Start
	Server	with TCP S	Synchronize work
-		N1MM	ogram Type:
Ok	1	12061	oadcast N1MM Port:
Log	-	200	elay (ms)
	Ţ	200	elay (ms)

,

N1MM

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Window Name

	Focus Helper				_		
	Start	Stop					
	Synchronize work with	th TCP Server					
	Program Type:	Window Name		•			
	Window Title for VFOA:	Radio 1		Stop			
	Window Title for VFOB:	Radio 2		Stop			
	Delay (ms)	200	<b>*</b>				
			l	O) jeletara	erstöt		
	"Focus Helpe	r"			: Wind	ow Name.	
Wi	indow Title for VFOA, VFOB - ).	,	QSO , "Radio 1".	VFC	DA, VFC	9В (	
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C	W Key Helper						
CV 1.	V Key Helper		: PTT.				
2.		BreakIn 2-					

SDC (Software Def	fined Connec	tors v 15.(	)4x64) [C	:/Users/	Yuri/LwSoft/c	oms	oider.	ini]
ProFile Mgr RigSync 1	Telnet Server	SKM Serve	er DIGI	Macro	Audio Client	PA	TCI	Setup
<b></b>							/	
TCI Client 1		CallBa	ack Status					
Name TCI Clier	nt 1							
Host 127.0.0.	1	Port	40001	*				
✓ Logical control ECod	ler VFOA/B		🗌 Log					
Callback TCI-Connec	ct mode. Po	ort: 🜋	40000	* *				
RIG-Emulator —								
Encus Helper								
CW Key Helper — Start	Stop							
Delay Key->PTT	10 :							
Delay PTT->RX	300 :							
CW Key Port	COM16		▼					
RX1 Additional Key Po	ort COM4		▼					
RX2 Additional Key Po	ort COM6		▼ 🗱					
RX1 PTT Port	COM12		▼ 🔅					
RX2 PTT Port	COM14		▼ 🗱					
Key Helper	Expe	ertSDR2.	СОМ	, :			SD	WD-CW



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SDC



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## **SKM Server**

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#### ExpertSDR2.

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## Главное окно



#### Only Test -

TEST, WSEM.

#### Only Test Abbr -

, «MM» -MM: CQ MM..., TEST MM...

#### Add Sign Test -

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Only Test > Only Test Abbr:	Add Sign Test : LZ	
Skimmer 1 (CW)	Skimmer 2 (CW)	
Skimmer 1 (C		
Save ★ <b>v</b> inter Name		
	SKM Server.	

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## Глобальные установки.

SKM Server

SDC (Software Defined)	ed Connectors v 15	.2307x64) * [C:,	/Users/ut4lw/L	wSoft/co	mspider	.ini]		— [	
Sync Telnet Server	SKM Server DI	GI Macro	Audio Scope	PA	SWR	TCI	Setup	Sa	ive 🔀 🔌
Start SKM Server	+ -	Profile:	4k-CW-DIGI	.pskm	Ŧ		I Enter	Name	
Ø	Only Test > Only T	est Abbr:		Add S	ign Test:				
Skimmer 1 (RTTY45)		_	Skimmer	2 (RTTY4	45)		-		
Start Wait TCI	RTTY SDC	Skimmer Glob	al Setup		-	)	×	-1	۲
<u> </u>	Master.	lta / Verify B	and Plan Fu	nctions	Misc			E14040	)
	Master.D	TA File Location:						E	
	C:/Prog	am Files/LwSoft/	SDCx64/MASTE	R.DTA	Set File	e (330085	5)	Ē14039	)
	Internet	Download Page:					_		
	http://su	percheckpartial.c	om/MASTER.SC	P	Dov	wnload		Ē14038	}
	Add File:	C:/Users/ut4lw/	LwSoft/add_dta	.TXT 📝	Set F	File <b>(</b> 19)			
	Black list	: C:/Users/ut4lw/I	LwSoft/BlackList	.TXT 📝	Set F	File (13)		E14037	1
	Spec	ial Calls Format	RegExp	/ }) (LZ	0[A-Z]{1,	2}) 2	•		
	Spec	ial BlackList Form	at WildCard	· I*				E14036	)
	Filter	Calls Format	RegExp	r ,/]{2,}	) (U[A-I]	[\w,/]{2,]	})		
	Check Ca	llsign:			Che	eck Call		E14035	)
	Verify Ca	II:							
	Strong si	gnal and Call in [	ATC		1			E14034	
	Level/We	ak signal and Cal	l in DTA	15 🌲	1				
	Call not f	ound in DTA			2		•	E14033	}
	Without	CQ (0-never)			0	:			
	Minimum	signal/noise leve	el for spotting (d	lB)	-10	:	•	E14032	)
	Interval:								
	Resendin	g spot after (secs	;)		300		<b>\$</b>	E14031	
	Resendin	g spot after paus	e <mark>(secs</mark> )		100	-	•		
	Delete ca	ll after last decod	le (secs)		600		<b>*</b>	14030	)

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## Master.dta/Verify

SDC Skimmer Global S	Setup				×
Master.dta / Verify Band	l Plan	Fun	ctions	Misc	
Master.DTA File Location:					
C:/Program Files/LwSoft/SD	Cx64/M/	ASTER	.DTA	Set File	e (330085)
Internet Download Page:					
http://supercheckpartial.com	/MASTE	R.SCP		Do	wnload
Add File: C:/Users/ut4lw/Lw	Soft/add	l_dta.T	XT 🔽	Set	File (19)
Black list: :/Users/ut4lw/LwS	Soft/Blac	kList.T	XT 🛛	Set	File (13)
Special Calls Format	RegEx	р 🔻	}) (LZ	20[A-Z]{1	,2}) 2
Special BlackList Format	WildCa	ard 💌	] [I*		
Filter Calls Format	RegEx	р 🔻	,/]{2,	}) (U[A-I]	[\w,/]{2,})
Check Callsign:				Che	eck Call
Verify Call:					
Strong signal and Call in DTA	4			1	\$
Level/Weak signal and Call in	DTA		15	1	-
Call not found in DTA				2	-
Without CQ (0-never)				0	-
Minimum signal/noise level fo	or spotti	ng (dB	)	-10	*
Interval:					
Resending spot after (secs)				300	\$
Resending spot after pause (	secs)			100	\$
Delete call after last decode (	secs)			600	-

### Master.DTA File Location:

Internet Download Page:

<u>Add File</u>: ,

Master.dta.

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<u>Black List</u> : ,		
Special Calls Format: , Master.dta. ,		
, , Master.DTA,	R31A/P R37Z/P.	
R3[1-7]?/P, 1-7] - 1 7.		
: R3[1-7][A-Z]/P		
, ;		
✓ Special Calls Format(Error) Y9[1,2,3,4,6,7,9?	2	•
Special Black List Format: , CQ WW : U[R,S,T,Y,X,W,Z][0-9]*.	,	
<u>Filter Calls Format</u> :	,	
$R[w,/]{2,}](U[A-I][w,/]{2,})$		

Check Callsign:

"Check Call".

Master.dta, Add File Special Calls Format.

Wester.dta / Verify       Band Plan       Functions         Master.DTA File Location:       C:/Program Files/LwSoft/SDC/c64/MASTER.DTA       Get File (304118)         Internet Download Page:       http:///uperchedgaertal.com/MASTER.SCP       Download         Add File:       Cil/Gers/Yur/LwSoft/jaddatt.tst       Gallsign info: UT4LW         Black list:       Cil/Gers/Yur/LwSoft/jaddatt.tst       Set Pile       Found         V Special Black Ist Format (Ok)       R3[0:9][A-2]       In Add DTA File:       Not Found         V Special Black Ist Format (Ok)       R3[0:9][A-2]       In Add DTA File:       Not Found         V Special Black Ist Format (Ok)       R3[0:9][A-2]       In Add DTA File:       Not Found         Verify Call:       Storig signal and Call in DTA       1       Piler Calls:       Not Found         Cal not found in DTA       1       0       0       0       0         Storig signal and Call in DTA       1       0       0       0       0         Storig signal and Call in DTA       1       0       0       0       0         Storig signal and Call in DTA       1       0       0       0       0       0         Storig signal and Call in DTA       1       1       0       0       0       0	😂 SDC Skimmer Globa	l Setup				×			x	64
Master.DTA File Location:         C:/Program Files/LusGoft/SDCX64/MASTER.DTA         Stremet Download Page:         http:///cuper.dhedgastfall.com/MASTER.SCP         Download         Add File:       (c)/Joers/Vuri/LuSOft/ddd.dta.bt         Special Calls Format (OK)       R3[0=9][A-2]       In DTA File:       Found         Special Calls Format (OK)       R3[0=9][A-2]       In Mad DTA File:       Not Found         Special BlackList Format (OK)       R10=9][A-2]       In BlackList File:       Found       Remove Calling from BlackList File:         Special BlackList Format (OK)       R10=9][A-2]       In BlackList File:       Found       Remove Calling from BlackList File:         Verify Call:       In Special BlackList Format: (OK)       R10=0[[Encode]       In Special BlackList Format:       Not Found         Verify Call:       In Special BlackList Format:       Not Found       Not Passed         String signal and Call in DTA       1       ©       ©         Verify Call.       In Special Format: Not Found       Not Passed         String signal and Call in DTA       1       ©       ©         Seending spot after (secs)       000       ©       ©         Yerify Call.       Master.DTA       1       .         Yothout CO (0-newer) =	Master.dta / Verify Ba	and Plan	Functions	Misc						
Special Calls format (Ok)       RS(D-9]A-2]       FF (S) Callsign info: UT4LW         Black list:       Cillsers/furi/LWSoft/bladd.st. bt       FF (S) Callsign info: UT4LW         Black list:       Cillsers/furi/LWSoft/bladd.st. bt       In DTA File:       Found         ✓ Special Calls Format (Ok)       R3(D-9]A-2]       In DTA File:       Found       Add Callsign into: UT4LW         Black list:       Cillsers/furi/LWSoft/bladd.st. bt       In DTA File:       Found       Remove Callsign from Bill         ✓ Special Calls Format (Ok)       (RT), S, W, Z, XI       In Special Format:       Not Found       Remove Callsign from Bill         ✓ Filter Calls       Format (Ok)       (RT), S, W, Z, XI       In Special BlackList Format:       Not Found         Cell coldsign:       If Hiter Calls:       Not Found       Remove Callsign from Bill       Not Found         Verify Call:       If Hiter Calls:       Not Found       Not Found       Not Passed         Verify Call:       If Hiter Calls:       Not Found       Not Found       Not Found         Verify Call.       If Call in DTA       If Hiter Calls:       Not Passed       Not Passed         Verify Call.       If Call in DTA -       If Not Found       Not Passed       Not Passed         Verify Call.       If Call in DTA -       If Not Fo	Master.DTA File Location:									
Internet Download Page:         http://superchedpartial.com/MASTER.SCP         Add File:       Callaign info: UT4LW         Black list:       Criticers/furi/LwSoft/blackdist.txt       In TAT File:       Found         Vispecial BlackList Format (Ok)       IF(5,W,Z)       In Nad DTA File:       Not Found       Add Callaign into: Add DT         Vispecial BlackList Format (Ok)       UT,5,W,Z)       In Special Format:       Not Found       Remove Callsign from Bile         Vierfy Call:       Storng signal and Call in DTA       1       Special BlackList Format:       Not Found         Level/Weak signal and Call in DTA       1       0       Exemption       Not Passed         Verify Call.       Storng signal and Call in DTA       2       0       Exemption       Not Passed         Verify Call.       Storng signal and Call in DTA       1       0       Exemption       Exemption         Verify Call.       300       0       Exemption       Exemption       Exemption       Exemption         Verify Call.       3       300       0       Exemption       Exemption       Exemption         Verify Call.       1       7       3       Second format:       Not Passed       Exemption         Verify Call.       Storney       0	C:/Program Files/LwSoft/	SDCx64/M/	ASTER.DTA	s	et File <b>(</b> 304	118)				
http://uupercheckpartial.com/MASTER.SCP       Download         Add File:       C/Users/Yur/LwSoft/bladd.et.bt       If If Callsign info: UT4LW         Is Special Calls Format (Ok)       PS(0-9][A-2]       12       In OTA File:       Found       Add Callsign into Add DT         If Special Bladdust Format (Ok)       IDTS,W,Z,Z]       In Bladdust File:       Found       Remove Callsign from Bl         If Iter Calls Format (Ok)       ITF,W,Z,Z]       In Bladdust File:       Found       Remove Callsign from Bl         Ocek Callsign:       ITF4.W       In Special Format:       Not Found       Remove Callsign from Bl         Oreck Callsign:       ITF4.W       In Special Format:       Not Found       Remove Callsign from Bl         Verify Call       In Special Format:       Not Found       Remove Callsign from Bl         Without CQ (0-never)       0       In Special Format:       Not Found         Second grap and Call in DTA       1       Improve Callsign from Bl       Improve Callsign from Bl         Without CQ (0-never)       0       Improve Callsign from Bl       Improve Callsign from Bl       Improve Callsign from Bl         Verify Call       1       1       1       Improve Callsign from Bl       Improve Callsign from Bl         Master.DTA       3       3       Improve Callsign fr	Internet Download Page:					_				
Add File:       Cillisign into: UT4W         Bick fiet:       Cillisign into: UT4W         I Special Calls Format (Ok)       R10-91[A-2]         I Special BlackList Format (Ok)       UT,S,W,Z,X         I ni BlackList File:       Found         Add Calsign into: Add DT       File:         I File:       Found         I File:       Callsign:         UT, S,W,Z,X       In BlackList File:         I no BlackList Format:       Not Found         Check Callsign:       UT-9.W         Verify Call:       In Special Format:         Storog signal and Call in DTA       1         Level/Weak signal and Call in DTA       2         Call not found in DTA       2         Resending spot after (secs)       000         Storog Signal and Call in DTA -       1,         YeakSignal and Call in DTA -       3,         Yuthout CQ (0-never)       000         Storog Signal and Call in DTA -       3,         Yuthout CQ (0-never)       1,         Yuthout CQ (0-never)       0,         Yuthout CQ (0-never)       1,         Yuthout CQ (0-never)       1,         Yuthout CQ (0-never)       CQ, TEST, WSEM.         Callinot in DTA -       12	http://supercheckpartial.	com/MASTE	R.SCP		Download	t i				
Black list:       (c)Jusers/Yun/LwSoft/blacklist.tut       Int DTA File:       Found         I Special Calls Format (Ok)       R[10-9][A-2]       In Add DTA File:       Not Found       Add Calsign into Add DT         I Special BlackList Format (Ok)       UT, S, W, Z, X       In BlackList File:       Found       Remove Calsign from BL         I Filer Calls Format (Ok)       UT, S, W, Z, X       In Special Branat:       Not Found       Remove Calsign from BL         I Filer Calls Format (Ok)       UT, S, W, Z, X       In Special Branat:       Not Found       Remove Calsign from BL         I Filer Calls Format (Ok)       II, T, S, W, Z, X       In Special Branat:       Not Found       Remove Calsign from BL         Call not found in DTA       1       1       In Special Branat:       Not Found       Remove Calsign from BL         Without CQ (0-never)       0       1       1       1       In Special Branat:       Not Passed         Sending spot after pause (secs)       100       0       0       1       1       1         Verify Call.                Verify Call.                Vithout CQ (0-never) -	Add File: C:/Users/Yuri/L	wSoft/add	_dta.txt		Set Fi					
✓ Special Calls Format (Qk)       330-93[A-2]       In DTA File:       Found       Add Callsign into Add DT         ✓ Special BlackList Format (Qk)       UT, S, W, Z, X)       In BlackList File:       Found       Remove Callsign from Bit         ✓ Filter Calls Format (Qk)       UT, S, W, Z, X)       In Special BlackList File:       Found       Remove Callsign from Bit         ✓ Filter Calls Format (Qk)       UT, M,	Black list: C:/Users/Yuri/L	.wSoft/blac	klist.txt		Set R	Callsign in	to: UT4LW			
✓ Special BlackList Format (OK)       UT(S,W,Z,X)       In Add DTA File:       Not Found       Remove Calsign from Bil         ✓ Filter Calls Format (OK)       UT(S,W,Z,X)       In BlackList File:       Found       Remove Calsign from Bil         ✓ Construction       In Special Branch       Not Found       Remove Calsign from Bil       Not Found         Check Calsign:       UT(W)       UT(W)       In Special Branch       Not Found         Check Calsign:       UT(W)       In Special Branch       Not Found         Verify Call:       Strong signal and Call in DTA       1       Image: Calsign from Bil         Verify Call.       Image: Calsign from Bil       Not Found       Not Found         Without CQ (0-never)       0       Image: Calsign from Bil       Not Found         Strong signal and Call in DTA       2       Image: Calsign from Bil       Not Found         Without CQ (0-never)       0       Image: Calsign from Bil       Not Found         Strong signal and Call in DTA –       1       Image: Calsign from Bil       Not Found         Without CQ (0-never)       0       Image: Calsign from Bil       Image: Calsign from Bil       Image: Calsign from Bil         Vithout CQ (0-never)       1       .       .       .       .         Vithout CQ (0-neve	✓ Special Calls Format (0	Ok) R	3[0-9][A-Z]	2	In	DTA File:		Found		
Image: Strong signal and Call in DTA       1       0       0       0         Verify Call:       1       0       0       0       0       0         Call not found in DTA       1       0	✓ Special BlackList Forma	at (Ok)	IT.S.W.Z.X1	$\sim$	In	Add DTA File	:	Not Found	Add Callsign int	Add DT
Check Callaign:       If we	✓ Filter Calls Format (Ok	0 0	R[\w,/]{2.})](	J[A-I][\w.7	In 1(2,}) In	BlackList File:	at:	Found Not Found	Remove Callsigr	from Bla
Filter Calls:       Not Passed         Verify Call:       1       0         Level/Weak signal and Call in DTA       1       0         Call not found in DTA       2       0         Call not found in DTA       2       0         Sending interval:       0       0         Resending spot after (secs)       300       0         Strong signal and Call in DTA       -       -         Arrong signal and Call in DTA       -       -         Trong signal and Call in DTA       -       -         Trong signal and Call in DTA       -       -         r.TDTA.       1,       -       -         Yeak signal and Call in DTA       -       -       -         r.TDTA.       1,       -       -       -         Yeak signal and Call in DTA       -       -       -       -         r.TDTA.       1,       -       -       -       -       -         Yubout CO (0-newer) =       .       .       CQ, TEST, WSEM.       -       -       12       -       12.         .       .       .       .       .       -       10.       -       12.       12.       -       12.	Check Callsion:	I	T4LW		Ched In	Special Black	List Format:	Not Found		
Strong signal and Call in DTA   Level/Weak signal and Call in DTA   Level/Weak signal and Call in DTA   2   Without CQ (0-never)   0   Sending interval:   Resending spot after (secs)   300   Resending spot after pause (secs)   100   Werify Call.   Strong signal and Call in DTA –   er.DTA.   1,   Yeak signal and Call in DTA –   er.DTA.   1,   Yeak signal and Call in DTA –   er.DTA.   1,   Yeak signal and Call in DTA –   er.DTA.   2,   1,   Yeak signal and Call in DTA –	Verify Call				Fil	ter Calls:		Not Passed		
Level/Weak signal and Call in DTA   15 © 2   Call not found in DTA   2   Without CQ (0-never)   0   Sending interval:   Resending spot after (secs)   300   Resending spot after (secs)   100   Verify Call.   Strong signal and Call in DTA –   er. DTA.   1,   Verify Call.   Strong signal and Call in DTA –   er. DTA.   1,   Verify Call.   Strong signal and Call in DTA –   er. DTA.   1,   Verify Call.   Strong signal and Call in DTA –   er. DTA.   1,   Verify Call.   Strong signal and Call in DTA –   er. DTA.   1,   Verify Call.   Strong signal and Call in DTA –   er. DTA.   1,   Verify Call.   Strong signal and Call in DTA –       Yeak signal and Call in DTA –  <	Strong signal and Call in D	ТА		1		<b>\$</b>				
Call not found in DTA   Q (Onever)   Sending interval:   Resending spot after (secs)   Resending spot after (secs)   Yerify Call.   Strong signal and Call in DTA -   er. DTA.   1,   Yeak signal and Call in DTA -   er. DTA.   1,   Yeak signal and Call in DTA -   er. DTA.   1,   Yeak signal and Call in DTA -   er. DTA.   1,   Yeak signal and Call in DTA -   er. DTA.   1,   Yeak signal and Call in DTA -   er. DTA.   1,   Yeak signal and Call in DTA -   er. DTA.   1,   Yeak signal and Call in DTA -   er. DTA.   1,   Yeak signal and Call in DTA -   er. DTA.   1,   Yeak signal and Call in DTA -   er. DTA.   1,   Yeak signal and Call in DTA -   er. DTA.   1,   Yeak signal and Call in DTA -   er. DTA.   1,   1,   er. DTA.   1, <th>Level/Weak signal and Cal</th> <th>ll in DTA</th> <th></th> <th>15 🗘 2</th> <th></th> <th>•</th> <th></th> <th></th> <th></th> <th></th>	Level/Weak signal and Cal	ll in DTA		15 🗘 2		•				
Without CQ (0-never)       0         Sending interval:       300         Resending spot after (secs)       300         Resending spot after pause (secs)       100         Verify Call.       :         Strong signal and Call in DTA - and the pause (secs)       :         ex. DTA.       1,             Wak signal and Call in DTA - and the pause (secs)   <	Call not found in DTA									
Sending interval:         Resending spot after (secs)         300         Resending spot after pause (secs)         100         Verify Call.         Strong signal and Call in DTA – er.DTA.         I.         Verify Call.         Strong signal and Call in DTA – er.DTA.         I.         Verify Call.         Strong signal and Call in DTA – er.DTA.         I.         Verify Call.         Strong signal and Call in DTA – er.DTA.         I.         Verify Call.         Strong signal and Call in DTA – er.DTA.         I.         Verify Call.         Strong signal and Call in DTA – er.DTA.         I.         Vibrout CQ (0-newer) – .         CQ, TEST, WSEM.         Call not in DTA – .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         . <t< th=""><th>Without CO (0-pever)</th><th></th><th></th><th>6</th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Without CO (0-pever)			6						
senang interval:         Resending spot after (secs)         weify Call.				U						
Resending spot after pause (secs)       100         Verify Call.       :         Strong signal and Call in DTA – ex.DTA.       .         Yeak signal and Call in DTA – ex.DTA.       .         Naster.DTA.       .         .       . <th>senaing interval: Resending spot after (sec</th> <th>(2)</th> <th></th> <th>2</th> <th>00</th> <th></th> <th></th> <th></th> <th></th> <th></th>	senaing interval: Resending spot after (sec	(2)		2	00					
Verify Call.       :         Strong signal and Call in DTA –       ,         er.DTA.       1,          ,         Verify Call.       :         Weak signal and Call in DTA –       ,          ,         Verify Call.       :                 Yeak signal and Call in DTA –       ,             Yeak signal and Call in DTA –	Recending apot after service			- -	00					
Verify Call.       :         Strong signal and Call in DTA –       ,         er.DTA.       1,          ,         yerby Call.       ,          ,	Reserving spot after paus	ic (acca)								
, CQ, TEST, WSEM. <u>Minimum signal/noise level for spotting (dB)</u> - . , 12 , 12. -10. <u>Resending spot after (secs)</u> - N										
Minimum signal/noise level for spotting (dB)       12       12.         .       ,       -10.         Resending spot after (secs)       -       N         According spot after neuse:       N	Verify Call. <i>Strong signal and Call</i> er.DTA. Veak signal and Call br.DTA. Call not in DTA , Vithout CQ (0-newer	<u>ll in DT≁</u> 1, <u>in DTA</u> 2 −	<u> </u> – – , Ma	ster.DTA	3, A		, Master	.DTA.	:	
-10. <u>Resending spot after (secs)</u> - N .	Verify Call. Etrong signal and Caller. DTA. Veak signal and Caller. Pr.DTA. Call not in DTA – , <u>Vithout CQ (0-newer</u> ,	<u>ll in DT</u> ₄ 1. <u>in DTA</u> 2-	<u> </u> – – , Ma	ster.DT/	а, А СQ	, TEST, W	, Master /SEM.	.DTA.	:	
Resending spot after (secs) - N .	Verify Call. Strong signal and Caller. DTA. Veak signal and Caller. Veak signal and Caller. Call not in DTA – , Vithout CQ (0-newer , <u>Vithout CQ (0-newer</u> )	<u>ll in DT4</u> 1. <u>in DTA</u> 2 – <u>e level f</u> a	<u>I</u> – , Ma o <u>r spotting</u>	ster.DTA <u>• (<b>dB)</b></u> -	A CQ	, TEST, W	, Master /SEM.	.DTA.	:	
Pesending spot after pause:	Verify Call. <i>trong signal and Call</i> er.DTA. <i>Veak signal and Call</i> tr.DTA. <i>Call not in DTA</i> – , <i>Yithout CQ (0-newer</i> , <i>Minimum signal/noise</i> ,	<u>ll in DT4</u> 1, <u>in DTA</u> 2)– <u>e level f</u> a	<u>I</u> – , , Ma o <u>r spotting</u> -10	ster.DT4 <u>* (<b>dB</b>)</u> -	а, <sup>3,</sup> СQ	, TEST, W	, Master ZSEM.	.DTA. 12 ,	: 12.	
	Verify Call. <i>trong signal and Call</i> er.DTA. <i>Veak signal and Call</i> r.DTA. <i>Call not in DTA</i> – , <i>Yithout CQ (0-newer</i> , <i>Minimum signal/noise</i> , <i>Resending spot after (</i>	<u>(l in DT</u> ₄ 1, <u>in DTA</u> 2) – <u>e level fa</u> ( <u>secs)</u> -	<u>I</u> – , , Ma o <u>r spotting</u> -10	ster.DTA <u>• (<b>dB</b>)</u> -	A <sup>3,</sup> CQ	, TEST, W	, Master ZSEM.	.DTA. 12 ,	: 12.	

Файлы "add\_dta.txt" и "blacklist.txt"

"Master.DTA",

"add\_dta.txt". "Set File".

"add\_dta.txt"



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#### **Band Plan**

Band Plan –

CW/RTTY

Band Plan

. ALL - , CV

, CW, RTTY, PSK.

:

6	ら SDC Skimmer Global Setup 🛛 🗙						
Mas	ster.dta / Verify	Band Plan	Function	ons	Misc		
Prof	Profile: 🚺 Test-CW-RTTY-PSK.pplan 🔹 X						
	Enter N	ame					
	From Freq	To Fr	ea		Mode		
1	1830	1850		RTTY	,	-	
2	1830	1850		PSK		-	
3	1810	1840		CW		-	
4	3570	3620		RTTY	r	-	
5	3570	3610		PSK		•	
6	3500	3570		CW		-	
7	3573	3577		BSF		•	
8	3580	3583		BSF		•	
9	7035	7120		RTTY	(	•	
10	7035	7060		PSK		•	
11	7000	7050		CW		•	
12	7047	7050		BSF		•	
13	7074	7077		BSF		•	
14	14065	14155		RTTY	(	•	
15	14065	14100		PSK		•	
16	14000	14070		CW		*	•
		BSF		Defau	lt		Apply

(Band Stop Filter). , 7-

, 3573 - 3577, [BSF].

, :

- BSF

				5D G /G //	D.C. 10		
				SDC (Softwa	re Defined Con	nectors v 15.11xt	4) [C:/Users/Yuri/
			jder	RigSync	Telnet Server	SKM Server	DIGI Macro
				Start SKM S	erver +	Profile:	3k-Test_N
					Only	Test Stations / T	est Abbreviation:
			Skir	mmer 1 RTTY	15		S
6	SDC Skimme	r Global Setup		-	× <sup>irt</sup>	RTTY4.	٠
Mas	ster.dta / Verify	v Band Plan	Functions M	isc		<u>=14</u> 082	
						14081	
Prof	file: 🕥 Te	est-CW-RTTY-PSK.	pplan				
	🛃 En	ter Name				14080	
	From Fre	q To Fr	eq Ma	ode			
13	7074	7077	BSF	-		14079	
14	14065	14155	RTTY	+		E 14079	
15	14065	14100	PSK	-		<u>-14</u> 078	
16	14000	14070	CW	-		14077	
17	14074	14077	BOF				
18	14080	14083	BSP	-		<u>14</u> 076	
19	21060	21155	RTTY				
20	21065	21100	PSK	-		= <u>14</u> 075	
21	21000	21070	CW	-		14074	
22	21074	21077	BSF	-		-	
23	28060	28200	RTTY	-		<u>14</u> 073	
24	28065	28095	PSK	-			
25	28000	28070	CW	-		<u>14</u> 072	
26	39900	40100	ALL	-			
27	700000	700400	CW	-		<u>=14</u> 0/1	
28	21074	21077	BSF	-	·	TCLC	ient 1/Receiver 1
	• *	BSF	Default	A	oply		ent processer 1

26 39900 27 700000	4010	100	ALL	•	
28 21074	210 BS	r F	BSF Default	A	pply
,	BSF,	Band	Plan "		",

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## Functions

	SDC Skimmer Global Setup	×
	Master.dta / Verify Band Plan Functions	Misc
	599 Function:	
	Send RST 599 to Panorama:	PileUp Width,kHz: 16 🌲
	✓ Only When Split is On	
	Spotting Only Pile-Up	
	✓ Marker New RST	0 🗢 599
	✓ Marker Old RST	8711 🗘 🔽
	✓ Auto CW Macros Speed (TCI Only)	Default: 36 🌲
	Add technical information into Spot	
	<ul> <li>Add teen incar information into spot</li> <li>Check the primacy of the Skimmer Spot (II)</li> </ul>	
	Color Callsions in BandMap	
	CW Decoder Setup:	
	Decode Russian letters:	
	✓ Remove Noise Letters (E,I)	
	Active Decoder Filter Width	50
Send RST 599 to P PileUp Width, Marker New R Marker Old RT	<u>anorama.</u> kHz - , ST - `S -	599
- ASCII - ASCII - AS	: , SCII ,	
	599	
<u>Auto CW Macros S</u>	peed (TCI only) :	CW
<u>Default</u> -		,

Add technical information into Spot -

TCI.

. F -

#### <u>Check the primacy of the Skimmer Spot</u> -

"!!".

#### Start Skimmers Only in CW Mode:

# <u>Color Callsing in BandMap</u>:

.

N1MM.

SDC BandMap : Band map 1 14008 14009 LY2RJ 14010 I1YRL "CW".

BandMap. : 5MContest, LogHX,

CW Decoder Setup. <u>Decode Russian letters</u>: -<u>Remove noise Letters (E,I)</u> -Active decoder Filter Width -

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#### Misc

TCP Broadcast Data -



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### Окно Скиммера

«Waterfall».

Skimmer 1 (CW) **Ö** Start Work... • CW <u>-7014</u> ..... <u>=7013</u> <u>7012</u> R8FF/8 - 's e e e e e <u>-70</u>11 <del>-</del>7010 = =7009 <u>=7008</u> . . . <u>-</u> -<u>70</u>06 = <u>=70</u>05 A: R8FF/8 )BK > DBK > E > QSLUR599 > EU73 E > 73X > CQ R8FF/8 > RV6A E IC5NN >TU R8FF/8 >E >CQ R8FF TCI Client 1/Receiver 1 192kHz/Auto 1/42 Start -Telnet Server

 Status –
 .

 1 .

 42 –
 .

 192kHz/Auto IQ
 - 192

 TCI/Receiver 1 IQ
 .

# **:**

:

SDC (Software Defi	ined Connectors v	12.10x64) [C:/U	sers/Yuri/LwSof	ft/coms —	
ProFile Mgr RigSync	Telnet Server	SKM Server	PA TCI	Setup	Save 🔀 🔌
Start SKM Server	🕂 🗕 Profil	e: 4k-2Skm_TCI	.pskm 💌	*	
Only 1	Test Stations / Test /	Abbreviation:			5
Skimmer 1 (CW)					
Start Work		CW	<b>▼</b> 20 <b>▼</b>		<u></u>
			S Waterfall Fore Color Back Color Contrast Waterfall Spec Vertical Size Horizontal Size	7014 77013 77013 77013 77011 77011 77011	- R8FF/8
	BC >E >TU R8HF/8 > J E E >E >E >TU R	>E <u>A</u> B			
192kHz/Auto		4/65		TCI C	Client 1/Receiver 1

Fore Color, Back color -Contrast -Waterfall Speed -Vertical size -Horizontal size -

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· · · · · ·

## Выбор вида модуляции

SDC Skimmer

#### CW,RTTY,PSK



Ski	immer 1 (	CW)		
	Start	Work	( cw 🗉 )	
	<b>`</b>	and the second second		-/014
				<u> </u>
				<del>70</del> 13
				- -
				-7012 R8FF/8



"Start Skimmer Only Mode of Transceiver"

12.2403x64	12.2403x64) [C:/Users/Yuri/LwSoft/comspider.ini] — 🗆 🗙						
SKM Ser	Setup Skimmer 1		×	P			
Profile: 3k	In External Window		Stays On Top				
s / Test Ab	Control type	TCI Only	-				
	TCI Client	Ø	TCI Client 1 🔻				
-	Receiver		Receiver 1 🔹				
036 DJ4	Start Skimmer Only Mode of T	Transceiver					
DL5J	Signal/Noise stations detect (dB):	3 🗘					
35	Offset for spot frequency (Hz):	0 \$	CW				
PASE	Spotter Name:	LW1-#					
<u>J</u> 34	TCP Server						
33	Enabled Lo=		-				
OK2	Port: 0 🗘 Fr=						
<del>332 D</del> J10	External Text Decoder Window:						
	✓ Enable Click Function						
231 SD6F	✓ Separate windows for VFOA	and VFOB					
	Decode only VFOA						
230	✓ IQ - Band Plan control						
120	Sample Rate	✓ Auto	96000 🔻				
129	Spectrum via UDP	Speed:					
028	Host/Port	127.0.0.1	13064 🗘				
	Name:	ExpertSDR					
CI Client 1/	Pile-Up Mode	kHz Up:	20				
l							



"ActiSpot":

:

Acti Spot
Callsign for search: UT4LW
Callsign for search: UT4LW
CCCC
CW
S99
RTTY45
BPSK31
BPSK63
BPSK125

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Установки скиммера.



_	_	_
C	n	$\cap$
S	L	U

Control type	Audio + TCI	•
Driver	Windows WDM-KS 💌	
Device In	Virtual Cable 1	•
Audio+TCI, IO .		

Start Skimmer Only Mode of Transceiver:

<u>Start Skimmer Only M</u>	lode of Transceiver:	, "CW"	, Skimmer CW	7
Signal/Noise stations	detect: /	,	. Delay: -	•
Offset for spor frequen	<u>ıcy</u> .			:
	Signal/Noise stations detect (dB): Offset for spot frequency (Hz):	3		
<u>Spotter Name</u> –	,			
<u>Creeping Lines</u> –		·	<u>.                                    </u>	
<u>TCP Server</u> –		,		
External Text Decoder	r Window			

,

.

Enable Click Function:

<1353Z> : Clicked on "IZ2QDC" at 14013.32

,

, :> To ALL de SKIMMER

,



:

<u>Separate windows for VFOA and VFOB:</u> VFO:

Skimmer 1 Start Status: Work... 6 38 Waterfall Setup . 14016 <u>=</u> <u>=14</u>015 <u>=14</u>014 14013 =14012 =14011 <u>=14</u>010 <u>-</u> 14009 A: IZ2QDC IZ2QDC > A B: %1~(IZ2QDN/IZ2QDC) ^ {IZ2QDC} ^ >> SI\*\* > E T >> A H E >> TI C T IL VFOA/VFOB VFO.

VFOA.

,

IQ - Band Plan control: IQ : IQ : IQ : Sample Rate: Auto - , "TCI Only". "Auto", .

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65 / 173

#### **Spectrum via UDP**

SDC-Skimmer N1MM, UDP

**Decode only VFOA:** 

ら Setup Skimmer 1		×
In External Window		Stays On Top
Control type	TCI Only	
TCI Client	Ø	TCI Client 1 💌
Receiver		Receiver 1 🔹
Start Skimmer Only Mode	of Transceiver	
Signal/Noise stations detec	t	3,00 🌲
Spotter Name:	LW1-#	
Offset for CW	spot frequency (Hz):	0 \$
TCP Server		
Enabled	Lo=	-
Port: 0	Fr=	
External Text Decoder Wine	dow:	
<ul> <li>Enable Click Function</li> </ul>		
Separate windows for \	/FOA and VFOB	
Decode only VFOA		
✓ IQ - Band Plan control		
Sample Rate	✓ Auto	96000 💌
Spectrum via UDP	Speed:	
Host/Port	127.0.0.1	13064 🗘
Name:	ExpertSDR	
Pile-Up Mode	kHz Up:	20

Spectrum via UDP . UDP .

Host -							
Port -	UDP						
Speed -		UDP			-		
Name -				1		UDP	
Pile-Up Mode -						,	
VFOA - 1 kHz	,		" <u>kHz Up</u> "				

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•

:

## Окно декодера

VFO (A:, B:)

Skimmer 1 31 31 Start Status: Work ... Waterfall Setup \* 3 <u>=70</u>24 <del>-<u>70</u>23</del> faint and a <u>=7022</u> <u>=7021</u> <u>=</u>7020 





VFO

,

(S51DX).

,



#### <u>Underline Call</u> -<u>Mode Control</u> -"Start Skimmer Only of Mode Transceiver",



':

<u>Speed CW</u> -<u>Age of Spot</u> -<u>Current Level</u> -<u>CQ Call Level</u> -

,

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#### Клик функции

1. "S51DX" at 14013.32

2.

: To ALL de SKIMMER <1353Z> : Clicked on

A: S51DX S51DX >> TAC >> E E E E?\* >> E >> TAC TEST S51DX EE >> \* E EE N D TEST DE IS\*\*1 D X \_\* QRT E >> EE73/E >> T3N >> E 5NN X7 TTVE {NX7TTVE} >>

Ctrl+V



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## Окно IQ/Band Plan

IQ



Options									
Device S	() Sound card		Display			Dane			
Device: Sun	SDR2		, visping	- -					
SDR Addre SDR Po Sample Ra	ess: 19 ort: 500 ate: 781	02.10 01 .25	58.16 .200	•	Mic	VA			
Search Disable a Use wide Use VHF Use exter	udio out RX filter LNA nal refe	put r 🔽 reno	SDR Info Auto ena	ble	Driv Inp Ch Buff	er: M ut: Li annel er size			
				o)	tScreen	shot			

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2. Sample Rate

ら Setup Skimmer 1				$\times$			
☐ In External Window	Stays On To			ор			
Control type	TCI Only			H			
TCI Client	С С		TCI Client 1				
Receiver			Receiver 1				
<ul> <li>Start Skimmer Only Mode of Transceiver</li> <li>Signal/Noise stations detect (dB):</li> <li>Offset for spot frequency (Hz):</li> <li>0</li> </ul>							
Spotter Name:	LW1-#						
TCP Server							
Enabled Lo=			-				
Port: 7701 + Fr=			🗆 Lo	g			
<ul> <li>External Text Decoder Window:</li> <li>✓ Enable Click Function</li> <li>✓ Separate windows for VFOA and VFOB</li> <li>✓ Hide window VFOB in RX2 mode</li> <li>✓ Decode only VFOA</li> </ul>							
✓ IQ - Band Plan control				—			
Sample Rate	✓ Auto		96000				
☐ Spectrum via UDP Host/Port	Speed: 127.0.0.1		13064	•			
Name:	ExpertSDR						

3.

IQ



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IQ

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SDC Skimmer Global Setup ×							
Master.dta / Verify	Band Plan	Functions	Misc				
599 Function: ✓ Send RST 599 to F		PileUp W	idth,kHz: 16 🜲				
Only When Split is	On						
Spotting Only Pile	-Up						
✓ Marker New RST		0	\$ 599				
✔ Marker Old RST			8711	\$ <b>v</b>			

"599".

VFOA, - VFOB.



"Spotting only Pile-Up" Pile-Up

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### Окно информации о позывном.

, Telnet Server - BandMap, :

Master.DTA



In DTA File: Not Found - ,

"Add Callsign into Add DTA File" "Add Callsign into BlackList File" - / BlackList, ;

RFBRAFAEL T	😂 Callsign inf	o: LY1CX	×	(>>EE 
>>EE >>AG N >>E >>E >>	In DTA File: In Add DTA File: In Blacklist File:	Not Found Not Found Add C	Callsign into Add DTA File	RIS HWBK
		BlackL	ist,	
,			,	
	le", "Black	List"	"blocklist tyt"	
	le", "Black	List"	"blocklist tyt"	

## Управление скиммером через Telnet

\_\_\_\_\_SDC TCP Server: SDC (Software Defined Connectors v 15.1901x64) \* [C:/Users/ut4lw/LwSoft/comspider.ini] Save 📩 📩 ProFile Mgr COM Spider RigSync Telnet Server SKM Server DIGI Macro RMT Server TCI Setup 🛃 🛛 Enter Name + =Profile: 🚺 1-Audio.pskm Start SKM Server 🔲 🕻 😒 Setup Skimmer 1 Skimmer 1 (CW) Start Work... Ŧ Control type • Ψ Driver Ŧ Device In IQ Swap Ŧ Telnet Server Source VFO: • 0 • Signal/Noise stations detect (dB), Delay: Offset for spot frequency (Hz): 0,30 📫 0,03 📫 AGC Level/Coefficient (0.3/0.03) Spotter Name: SKM1-# ┍ Creeping Lines Off TCP Server V Enabled Lo=7025935 🗌 Log Fr=7040.735 Port: External Text Decoder Window: Enable Click Function Separate windows for VFOA and VFOB Hide window VFOB in RX2 mode Decode only VFOA Sample Rate ¥ • Spectrum via UDP A: Speed:

96kHz	Pile-Up Mode	kHz Up:	20	•
, TCP Server	, <u>VE3</u> IQ ExpertSDF	<u>NEA,</u> VF R2, SmartSDR, Afedri.	OA.	
R5AU	SmartSDR (Flex-670	<u>0).</u>		
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Источник VFO				
SDC 1. Telnet Server -	VFOA	VFO : ,		

Host/Port

Name:

127.0.0.1

ExpertSDR

13064

2. RigSync Channel -

s Setup Skimmer 1				×
In External Window			Stays On Top	
Control type	Audio + Telnet Serve			
Driver	Windows WDM-KS	•		
Device In	Mic 5 (Virtual Cable 5)			
			📃 IQ Swap	
ource VFO:	Telnet Server	•		
Signal/Noise stations detect (dB), Delay:	Telnet Server RigSync Channel		0.	
Offset for spot frequency (Hz):		0 .		
AGC Level/Coefficient (0.3/0.03)		0,30 +	0,03 +	
Spotter Name:	SKM1-#			
Creeping Lines	Off	<b>T</b>		
TCP Server				
Enabled Lo=702593	35			1
Port: 7701 Fr=7040.7	35			🗌 Log
External Text Decoder Window:				
Enable Click Function				

RigSync Channel VFOB.

VFOA,

Setup Skimmer 1		×
In External Window	Stays On Top	
Control type	Audio + Telnet Server	
Driver	Windows WDM-KS	
Device In	Mic 5 (Virtual Cable 5)	
	10 Swap	
Source VFO:	RigSync Channel Channel 1	
Signal/Noise stations detect (dB), Delay	: CW 3.0.	
Offset for spot frequency (Hz):	0 .	
AGC Level/Coefficient (0.3/0.03)	0,30 + 0,03 +	

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# Управление скиммером через RIG Sync

SDC - RIG Sync.

VFOA/VFOB

RIG

Sync:

ら Setup Skimmer 1				×					
In External Window			Stays On Top						
Control type 🔶	Audio + RigSync	udio + RigSync							
Driver	Windows WDM-KS	/indows WDM-KS 👻							
Device In	Mic 1 (Virtual Cable 1)		·	•					
Sync Channel	Sync Channel 1	-	VFOA						
Split Frequency (Hz)	0	\$	IQ Swap						
Signal/Noise stations detec	t			3,00 \$					
Spotter Name:	SKM1-#								
Offset for RTTY	45 spot frequence	:y (Hz):		-85 🌲					
TCP Server									
Enabled	Lo=0			-					
Port: 7701 🌲	Fr=0								
External Text Decoder Win	dow:								
<ul> <li>Enable Click Function</li> </ul>									
Separate windows for	VFOA and VFOB								
Decode only VFOA									
IQ - Band Plan control									
Sample Rate			96000	-					
Spectrum via UDP	Speed:								
Host/Port	127.0.0.1		13064	\$					
Name:	ExpertSDR								
Pile-Up Mode	kHz Up:		20	\$					
RIG Sync	, VFO,   ,	3							
CAT.			,						

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# Ручное управление скиммером

SDC

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VFOA/VFOB

IQ

RIG Sync:

SDC (Soft	ware Defined Conn	ectors v 12.	2505x64	4) [C:/U	sers/Yu	ıri/LwSot	ft/comspi	ider —		$\times$
ProFile Mgr	Telnet Server	SKM Server	RMT S	Gerver	PA	TCI	Setup		Save	
Start SKM	Server + -	Profile: 1-Au	udio.pskn	n			v	*		
	Only Test S	tations / Tes	t Abbrev	iation:					S	
Skimmer 1 (C)	N)									
Start S	Start	CW	-			LO: 1	4027000	\$		٠
								<u>-14</u> 02	9	
	Setup	Skimmer 1								×
	In Exte	rnal Window						Stays On	Тор	
	Control typ	е		Audio	+ RigS	ync + Ma	nual LO	-		-
	Driver			Windo	ws WDI	M-KS	-			
	Device In			Mic 5	(Virtual	Cable 5)				•
	Sync Chanr	nel		Sync C	Channel	1	-			
								IQ Swap		
	Signal/Nois	e stations de	tect (dB):				3 🌲			
	Offset for s	pot frequency	y (Hz):			[	0 🗘	]	CW	
	Spotter Na	me:		SKM1-	#					
	TCP Se	rver								
	Enable	d	Lo=0						0	
-	Port:	7701	Fr=0							Log
A:	External Te	ext Decoder W	/indow:							
	✓ Enable	Click Functio	n							
	Separa	te windows fo	or VFOA	and VFC	OB					
96kHz	Decode	e only VFOA								
	IQ - Ba	ind Plan conti	rol					[		
	Sample Rat	te						96000		•
	Spectru	ım via UDP		Speed:					0	
	Host/Port			127.0.	0.1			13064		•
	Name:			Expert	SDR					
	Pile-Up	Mode		kHz Up	):			20		-
	10					"  0"				
	13	Enter,	,			_0 .	"LO	".		
			,		RIC	G Sync				
		·							IC	)
	CAT.							,		-

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SDC (Software Defined	Connectors v 15.1601x6	64) * [C:/Users/Yuri/LwSo	ft/comspider.ini]	- 0 ×
ProFile Mgr RigSync Teln	et Server SKM Server	DIGI Macro PA TCI	Setup	Save 📩 🔌
Start SKM Server	Profile:	1-Audio,pskm Test Abbreviation:	Enter Nar	ne 🔛 🏜
Skimmer 1 (CW)	<b>CW</b>	▼ 14036 16FDJ	LO: 14034690 I6FD <sk>*TEST &gt; TEST F**EP Q &gt; F6EPQ SAEN10 RT7C 5NN ?63 &gt; RT7C 50 EO &gt; OZ7K**80 LY8O &gt; * A2EY &gt; NMGA3EY &gt;</sk>	IGFDJ TEST > TESTIC         D > O2 > CFM GATU         NN 463 > CQ         F6IHR 5NN 1789 >
••••••••••••••••••••••••••••••••••••	STEER IB*TTTBTTPETTJE	AT IAE I* > DGBID PT	<ul> <li>F &gt; CQ DM6V DM6V TEST</li> <li>Z TEST &gt; CQ OL 3Z OL 3Z</li> <li>TNN 1046 &gt; TU YT 1T TES</li> <li>CTNEN ETEST &gt; K &gt; <ve< li=""> <li>EST &gt; CQ HG4IHG4ITES</li> <li>**EHEEENET A**IA EEL</li> <li>**EHEEENET A**IA EEL</li> <li>&gt;EA TTT &gt; EA6 &gt; GT &gt;</li> </ve<></li></ul>	<ul> <li>CQ DM6V DG6V TI</li> <li>TEST &gt; RT7C 5NN 2</li> <li>ST &gt; EM8DX 5NN 104</li> <li>*QTESI HP55 6G5*</li> <li>T &gt; CQ HG4IHG4ITES</li> <li>IEE &gt; **TETT TTT &gt; A7MT 5NN 820 &gt; 5N</li> </ul>
96kHz		77/219(201		Nic 5 (Virtual Cable 5)

:

😑 Setup Skimmer 1		:
In External Window		Stays On Top
Control type	Audio + Telnet Server	,
Driver	Windows WDM-KS	
Device In	Mic 5 (Virtual Cable 5)	
		IQ Swap
Signal/Noise stations detect (dB):	3	CW
Offset for spot frequency (Hz):	0	
AGC Level/Coefficient (0.3/0.03)	0,30	0,03
Spotter Name:	SKM1-#	
Creeping Lines	All Stations	
TCP Server		<u> </u>
Enabled Lo=	=14034690	1
Port: 7701 Fr=	0	
External Text Decoder Window: Enable Click Function Separate windows for VFOA Hide window VFOB in RX2 mo Decode only VFOA IQ - Band Plan control	and VFOB de	
Sample Rate		96000
Spectrum via UDP	Speed:	
Host/Port	127.0.0.1	13064
Name:	ExpertSDR	

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Off -Verifued Call Only -All Station -

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### 599 в бегущей строке

\_\_\_\_<u>599,</u> :

"599"



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## **DIGI Server**

VOX	BreakIn	▼ PRO	c 🕶 🕒	90	Ŷ	c.		_	Drivot			Tun	o.	_		Mic 1	-	_
SB	USB	CW	NFM	DIGL	DIGU	WFM	DRM	160N	1 80M	60M	40M	30M	20M	17M	15M	12M	10M	6M GEI
					S				705	TX 2		S6	S1	S3 S5	S7 S	-00 i9 +2	20 +40	+60 ·
<ul> <li>Step:</li> </ul>	5 Hz	-				R	.EQ NB1	NB2 NF	NF+		S Mo	dem-1 [	BPSK63]	Receive	er 1 VF	O A		Х 5К U
				A: 1	4 070 705	0 Hz					AFC	1614 :	RES	NET	]		BPSk	(63 🔻
											*I3ARG	* *I3ARG U3FM RL	6* *I3AR( J3F	G* PSE I	KN			
4 <sup>74</sup> 097L	-runnan	LMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	wyeney M	mn-M	y Carlos Markow	ww	m Nr Mg	www.	www.ww	47v~1	1300	1400	1500	160	) <b>0</b> :	17'00	1800	1900 1    <sup>אַרְ</sup> יַיַּי
	14.068		14.069		14.070	14	1.071	14.0	72	14.(	~~~~	~~~^		$\sim$	h	-~		~
						11									5,			
						•												
						E.												
		1					Coni .		18.75									
		14.0′	1	п	S TTV '			DIGIS	Server.									
				R	111,1	Drok.		TCI	1									•
	Cr	eated	with	the I	Person	al Edi	tion o	f Helpl	VDoc:	Free	НТМ	L Helr	o docu	ment	ation	aene	erator	

# Настройка модема

Start + -		Profile:	One.pdig	gi	
Modem 1 Stop Wait Start					
AFC 1601 NET 1	RES Align	BPSK31 V	]		
1400 1500 1	SDC SDC				$\times$
	<ul> <li>In External Wind</li> <li>Show AFC Panel</li> </ul>	low	□ Stays On T ☑ Show TX F	Fop Panel	
	TCI Client	C TCI Clier	nt 1		•
	Receiver:	Receiver 1	Channel:	VFO A	
	Default Offset	1601 :			
	TX Delay	0 :	TX Level, dB	1,10	
-	PSK AFC Method	FIR Method			•
	Spectr scale	Linear			•
	Sync Width Wate	erfall with RX fil	ter band		
	Use TCP Server				
	Port:	40100	*	🗌 Log	
				OSC	

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In External Window -<br/>Stays On Top -Show AFC Panel -AFC -Show TX Panel -TX -SDC,TCI Client -TCI Client -TCI,<br/>Receiver Channel -VFO,VFO,

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(b) Options				– 🗆 X
Device: SunSDR2 SDR Address: 192.168.16 .200	CAT Panel Features Exp	PertSync CW Skimmer Shortcut	s IQ Recorder TCI Spo	t settings
SDR Port: 50001	SSB Low: 30 Hz High: 3000 Hz AM/DSB High: 6000 Hz NFM Deviation: 12500 Hz High: 8500 Hz	DIGL Low: 1449 Hz High: 1769 Hz Offset: 1600 Hz Sync with RX Voice recorder Volume for TX: 0 dB PA control PA control Market Bable PA in Tone mode	DIGU Low: 1430 Hz ↓ High: 1750 Hz ↓ Offset: 1600 Hz ↓ Sync with RX TX Filter Taps SSB: 1537 ↓ AM/NFM: 1537 ↓ DIGL/DIGU: 1537 ↓	Tone Enable Frequency 1: 1000 Hz  Tone 2 Frequency 2: 1200 Hz
	PTT switching delay Rx to Tx 0 ms Tx to Rx 0 ms PTT switching delays are dis	Monitoring in PC	manipulation in SSB! Global Defa	ult Apply OK

<u>TX Delay</u> - <u>TX Level, dB</u> - <u>Spectr scale</u> -		PTT. dB.	
PSK AFC Method -	AFC.		
FIR Method -			

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FIR Method -FIR + FFT Method -FFT Method -

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# Sync Width Waterfall with RX filter band -

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									—	
MEM QQ	Volume:	<b>▲</b> ))	S Mo	dem-1 [Bl	PSK31] Re	eceiver 1 VFC	D A	×	2 <b>a</b>	Optio
DIGI RX TX	RF: DIGU WFM DRI HF A3 V LOCK HF A3 SAVE SAVE SET R.EQ N	M 1601	RA3VAM rYw4RX0	1563 : I de OZ1Q X YO4RXX	RES III	NET gey CUAGN * D#cC DK70D	BPSK: ** sk ARC PSE KN	31 ▼ ▲	c 1 ▼ 1 6M 0 -40 +20 7K 2.9K	+40 3.0K
		A: 14 071 S4 L: 1 430 H H: 1 750 H O: 146 Hz		1500		1600	1700			
N./N/M	way way and	Mart Wywy	NAM W	Wary	1 Marin	hr.	mmulphin	AM, A		ŴŴ
.070	14.071		4.072		14.073		14.074		14.	075

Use TCP Server -

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TCP Server

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SDC

# Настройка формирователя сигнала RTTY

RTTY.

	Modem 1 - Stop Wa	ait Start D1 📜 🚺 NET 🛛 RES	) Align	RTTY45	
	TX 5555	SDC ✓ In External Wind	low	Stays On	Х
	1400	Show AFC Panel		Show TX I	Panel
		TCI Client	C TCI Client	1	▼
		Receiver:	Receiver 1	Channel:	VFO A
		Default Offset	1601 :		
		TX Delay	0	TX Level, dB	1,10
		RTTY TX Type	Amplitude 🔻	Ramp	5 🛟
		🗹 TX Filter 🛛 Wi	dth/Taps:	300 📫	90
		Spectr scale	Linear		•
		Sync Width Wate	erfall with RX filte	er band	
		Use TCP Server			
		Port:	40100	*	
Sha	rp Phase -	-	RTTY		

PA       MEM       Volume:       (1)       Mon:         PROC       C       QO       (2)       Prive:       (3)       Mon:         RF:       Drive:       Drive:       (4)       (4)       (4)         NFM       DIGL       DIGU       WFM       DRM       160M       80M       40M         RX HF       A3       SAVE       (1)	MON     ✓     ✓     ✓       Tune:     Mic 1     ✓       30M     20M     17M     15M     12M     10M       #ower:     0.0W     40     60       SW k:     1.2     2     3       1.8K     2K     2.5K     2.7K     2.9K	Options         About           6M         2M         GE           80         100         5           K         3.0K         3.3K         3.5K
A: 14 037 150.0 Hz S2	<ul> <li>SDC</li> <li>✓ In External Window □ Stays</li> <li>✓ Show AFC Panel ☑ Show</li> <li>TCL Client 1</li> </ul>	On Top TX Panel
	Receiver:     Receiver 1     Channel:       Default Offset     1601     TX Level       RTTY TX Type     Sharp Phase     Image: Sharp Phase	: VFO A ▼ , dB 1,10 ÷
4 14.085 14.086 14.087 14.088	Spectr scale Linear Sync Width Waterfall with RX filter band □ Use TCP Server Port: 40100 ↓ ♣	▼ 3

#### Soft Phase -

PA		MEM	Volur	me:			<b>(</b> )	Mon:			N	10N 🔻		XA	Op	tions	About
oc 🗸	Ġ	9	<b>₩</b>														
		RF:		_		Drive:				Tune:				Mic 1 🔻			
NFM		iL D	IGU WF						30M	20M							G
	RX HF TX HF	A3 - A3 -	LOCK SAVE SET V				58	A TX 2	SD(	flowe C	r: 0.0\	<mark>V 4</mark> 0		60	80	10	$^{\circ}$
				K.EQ	NRT NR	2 NF N A: 14 087 S2	150.0 I	Hz	✓ In Ex ✓ Show	ternal ۱ v AFC P	Windo Panel	W		☐ Stays ✓ Show	On 1 TX F	⊺op Panel	
				1					TCI Clie	ent		<b>O</b> TCI	Client				•
				-1	/*				Receive	r:		Receiver :	1 🔻	Channel:		VFO A	
				- 1		N.			Default	Offset		1601 :					
				مر مر	/	No.			TX Dela	у		0.		TX Level,	dB	1,10	×
						۰. ۲			RTTY T	Х Туре		Soft Phas	e 🔻	Ramp		5	•
									🗌 TX Fi	ilter	Wid	lth/Taps:		300	• •	90	•
							l		Spectr s	cale		Linear					
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4****			wm	month	🗹 Sync	Width	Water	fall with F	≀X filte	r band			
	14.08	35	14.086	5	14.087	1	14.088		🗌 Use 🛛	TCP Ser	rver						
									Port:			40100	* *	♣		🗌 Log	

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### <u>Ramp</u> -

Amplitude -

RTTY

.

RF:	Drive:	Tune:		Mic 1 👻	
M DIGL DIGU WFM DRM		30M 20M 17M	M 15M 12M		2M GEN
RX HF A3 TX HF A3 Save Set Set Set Set Set Set Set Se		Flower: 0.0	<b>₩</b> 40	60 80	$\times$ 1
R.EQ NB1	NBZ NF NF+	✓ In External Wind	low	Stavs On 1	Lop Use
	A: 14 087 150.0 Hz . S2	Show AFC Panel		Show TX F	Panel
	Å A	TCI Client	C TCI Client	1	
		Receiver:	Receiver 1	Channel:	VFO A
	Water View	Default Offset	1601 :		
		TX Delay	0 :	TX Level, dB	-1,80 📫
		RTTY TX Type	Amplitude 🔻	Ramp	6
		□ TX Filter Wi	idth/Taps:	300	90
		Spectr scale	Linear		•
		Sync Width Wate	erfall with RX filte	er band	
14.085 14.086 14.	087 14.088	Use TCP Server			3
		Port:	40100	*	Log

80C <b>- C+ 00 %</b>			
RF:	Drive:	Tune:	Mic 1 🔻
NFM DIGL DIGU WFM	DRM 160M 80M 40M	30M 20M 17M 15M 12M	10M 6M 2M G
RX HF A3 V LOCK TX HF A3 SAVE	4.087. iso 🕺	SDC	
R.EQ	NB1 NB2 NF NF+	In Extornal Window	C Stave On Ton
	A: 14 087 150.0 Hz S2	Show AFC Panel	Show TX Panel
		TCI Client O TCI Clien	t 1
		Receiver: Receiver 1	Channel: VFO A 🔻
		Default Offset 1601 :	
		TX Delay 0 🔅	TX Level, dB -1,80 📫
		RTTY TX Type Amplitude	Ramp 6
		✓ TX Filter Width/Taps:	300 🗘 90 🗘
Δ	NA has	Spectr scale Linear	▼
		Sync Width Waterfall with RX filt	ter band
14.085 14.086	14.087 14.088	Use TCP Server	
		Port: 40100	al kog

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## Водопад



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- -

S Modem-1 [RTTY45] Receiver 1 VF X	SDC SDC		×
CQ RM5F RM5F TEST	<ul> <li>✓ In External Win</li> <li>☐ Show AFC Pane</li> </ul>	dow I	✓ Stays On Top ○ Show TX Panel
1300 1400 1500 1600 1700 1800 1900	TCI Client	🗘 TCI Clie	nt 1 🔻
	Receiver:	Receiver 1	Channel: VFO A 🔻
	Default Offset	1600 :	
	Spectr scale	Linear	<b></b>
	🗌 Sync Width Wat	erfall with RX fi	lter band
	Use TCP Server		
	Port:	40100	🔩 🗌 Log



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**TCP Server** 

"Use TCP Server"

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SDC 🗐			×
<ul> <li>✓ In External Wind</li> <li>□ Show AFC Panel</li> <li>□ Show Log Panel</li> </ul>	low	✓ Stays ( Show ]	On Top TX Panel
TCI Client	<b>(5)</b> TCI Clie	nt 1	•
Receiver:	Receiver 1	Channel:	VFO A
Default Offset	1600 :		
PSK AFC Method	FIR Method		•
🗌 🗆 Sync Width Wate	erfall with RX fi	ilter band	
✓ Use TCP Server			
Port:	40100	*	🗆 Log

TCP

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# Протокол управления Модемом через TCP Server

SET_CHANNEL	DIGI		
	/	arg1 –	(0 –
	SET_CHANNEL: arg1, arg2, arg3;	arg2 –	VFO (0 – VFO /
		arg3 –	
	<b>RX_CHAR</b> : 0, 1, Radio 1;		
		•	

RX_CHAR			
		arg1 –	Char
	RX_CHAR: arg1, arg2, arg3;	arg2 –	/
		arg3 –	( )
	<b>RX_CHAR</b> : 48,17,1503;		

TX_CHAR				
			arg1 –	Characte
	TX_CHAR: arg1;			
	<b>TX_CHAR</b> : 48;	•		

TX_EMPTY		
	TX_EMPTY;	

TX_EMPTY;	
- ·	

DIGI_MODE		
	/ DIGI_MODE: arg1;	Arg1 – : RTTY45; RTTY75; BPSK31; BPSK63; BPSK12
	DIGI_MODE: RTTY45; RTTY75; BPSK31; BPSK63; BPSK125;	

TX_STATUS	/		
		Arg1 – 0 , 1	
	TX_STATUS: arg1;		
		4	
	TX_STATUS: 1;		

DX_TX	: / .	
		Arg1 – 1 , 0 -
	DX_TX:arg1;	
	<b>DX_TX</b> : 1; DX_TX:0;	

DIGI_MSG		
		Arg1 –
	DIGI_MSG: arg1;	ТХ
		_
	DIGI_MSG: «CQ TEST»;	

TX_STOP		
	TX_STOP;	
	TX_STOP;	

AFC	AFC			
	,	Arg1 – 0	, 1	
	AFC: arg1;			
	AFC: 1;			
NFT	TX-RX			

,		Arg1 – 0	, 1	
NET: arg1;				
NET: 1;	-			

OFFSET		
	,	Arg1 – .
	OFFSET: arg1;	
	OFFSET: 1600;	

RX_SN		
		Arg1 – .
	<b>RX_SN:</b> arg1;	
	RX_SN: 15;	

TERMINAL			
		Arg1 – 0 –	, 1-
	TERMINAL: arg1;	" 	
	TERMINAL: 1;		

SET_TXDELAY		
	,	Arg1 – , .
	SET_TXDELAY: arg1;	
	SET_TXDELAY: 100;	

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### Пример работы DIGI Server с 5MContest

5MContest SDC DIGI Server

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### **Macros Server**

"Macro"

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W	YA	/ -
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TCP TCI	WAV	/ _
SDC (Software Defined Connectors v 15.01x64	) [C:/Users/Yuri/LwSoft/co — 🗌	$\times$
ProFile Mgr Telnet Server SKM Server DIGI Macro	Mixer PA TCI Setup	
Start 🕂 드 Profile:		<b>2</b>
1		*
Macro 1 Start Stop	Macro 2 Start Stop	
Receiver: Receiver 1 ▼ ✓ External Window ✓ Stays On Top ✓ Hook key F1-F12 □ +Ctrl □ +Shift	Receiver:     Receiver 2 ▼       ✓ External Window     ✓ Stays On Top       Hook key F1-F12     +Ctrl	
<ul> <li>✓ Use In DIGI</li> <li>✓ Use In SSB</li> <li>Audia Lavalu</li> </ul>	<ul> <li>✓ Use In DIGI</li> <li>✓ Use In SSB</li> <li>Audia Lavalu</li> </ul>	
Use TCP Server Port: 40301 🗘 🔩 🗌 Log	Use TCP Server    Port:    40302	

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# Настройки панели

•

Macro 1 Stop	
TCI Client 1 Receiver: Receiver 1	₹
External Window Stays On Top Hook key F1-F12 +Ctrl	Min/Close button +Shift
Use In CW Use In DIGI Use In SSB	
Audio Level:	
Port: 40300	Log

TCI Client - Receiver External Window - Stays on Top - Min/Close button - Hook key F1-F12 - Windows! +Ctrl - Ctrl. +Shift - Shift.	TCI F1-F12, E	"TCI".		
Use in CW - Use in DIGI - ( DIGI) Use in SSB -			CW. DIGI. , SSB.	
Audio Level -	WAV			
Use TCP Server -	Т	CP ,		

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### Внешняя панель

"External Window".

CW		4 WPM	ESC H	ook 🗆 S	ilim 🙋
F1-CQ	F2-CALL	F3-	F4-	F5-	F6-
<b>F7-</b>	<b>F8-</b>	F9-	F10-	F11-	F12-
					Send
					Clear

CW WPM -	CW.		
Esc - Hook -		F1-F12 ESC	
Slim - E1-E12 -	Slim.		
Send -			
Clear -		•	

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### Режим Slim

CW —	34 WPM	ESC H	look 🗹 S	ilim 🙋
F1-CQ F2-CALL	F3-	F4-	F5-	F6-
F7- F8-	F9-	F10-	F11-	F12-

"Slim"

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# Настройка макросов



:

	CW	WPM ESC Hook I Slim I F3- F4- F5- F6- F9- F10- F11- F12-
6	SDC	- 🗆 🗙
	Label	Macro Text/File Mode: CW 🔻 Apply
F1	CQ	CQ UT4LW UT4LW
F2	CALL	UT4LW
F3		
F4		
F5		
F6		
F7		
F8		
F9		
F10		
F11		
F12		

"Apply"

SSB:

SDC 😉 Mode: SSB 🔻 Apply Macro Text/File Label D:/5MContest/Sound/UT7MA\_UT7MA\_rus.wav F1 CQ Ru CQ2 F2 D:/5MContest/Sound/UT7MA.wav 59 D:/5MContest/Sound/YOU\_ARE\_59\_rus.wav F3 F4 F5 F6 F7 F8 F9 F10 .... F11 F12

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## Телнет сервер

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RBN.

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SDC (Software Defined Conne	ctors v 15.15	19x64) [(	C:/Users/	Yuri/LwS	oft/coms	pider.ini]		– 🗆 X
ProFile Mgr Telnet Server Sk	(M Server	DIGI	Macro	PA	OTRSP	TCI	Setup	Save 🙀 🔌
Telnet Server [2]	Spots -	> Panora	ma				Addition	al Windows and Programs
Telnet Server [2]	✓ Spots -	> Panora Default a Mu New Br Dup 127.0.0	ma ind Bypass ilt Ne ind Ne ind Ne ind Ne ind Ne ind C	: Mode Co ewCty Co otCfm Co Dupe Colo Dupe Colo 0.ptcp		<ul> <li>▲</li> <li>●</li> <li>●</li></ul>	Addition	al Windows and Programs  nnect and Start SKM Server e ActiSpot e BandMap for RX1 e BandMap for RX2 Spot lifeTime (minute)  ame  gn: UT4LW  Co to Srv to Pan T000  Log
< UT4LW > Local users = 260 Current spot rate is 9900 per hour UT4LW de SK1MMR-3 02-Sep-202	1 13:21Z >							

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# **Telnet Server**

SDC (Software Defined Connectors					
ProFile Mgr	Telnet Server	S	KM Se		
Telnet Server	[2]		~		
	Stop				
	<b>40</b>				
Port: 7373	÷.	Log			

[Star	, t] – Start				
Port: Log					
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### Spots -> Panorama



"Mult":





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#### N1MM

SDC		N1MM.	N1MM		N1MM:
SDC (Software Defined Conne	ctors v 10.671x64) [C:/U	sers/Yuri/LwSoft	/comspider.ir	ni] —	
ProFile Mgr COM Spider Tel	net Server SKM Server	PA TCI	Setup		Save 🔀 🚺
Telnet Server [0]	Spots -> Panorama  Control Panorama  Control Panorama  Default and Byp  Mult  New Bnd  Not Cfm  Dupo	NewCty Color NewBnd Color NotCfm Color	<ul> <li>◆</li> <li>◆</li></ul>	<ul> <li>Additional Windows</li> <li>✓ Connect and Sta</li> <li>✓ Use ActiSpot</li> <li>✓ Use BandMap for</li> <li>✓ Use BandMap for</li> </ul>	and Programs art SKM Server or RX1 or RX2
Port: 7373 CLog	✓ N1MM       4k-TCI+HRD.ptcp		J Log	5 🗣 Spot lifeTir	ne (minute)

#### Attention!!!

With version 10.68, the checkbox "N1MM" can not be removed. If the SDC does not receive parcels from the N1MM within 30 seconds, it will automatically switch to the color bypass mode. When the parcels from the N1MM appear, the program automatically switches to the color processing mode.null N1MM:

Ì	N+M														
l	MM	Con	tigu	rer											X
	Har	dwar	re	Function Key	s Digital I	Modes	Other	Winkey	Mode Co	ntrol /	Antennas	Score Repo	rting Broado	ast Data	Audio
		Se Us 25	elect se 12 55 in	the type of d 7.0.0.1 for th the low order	ata you wi e local ma r octet will	sh to br chine. broadc	roadcast Use 1200 ast to yo	, and the t 60 as the j our current	the IP Addr port unless t subnet.	ess(es) s the re	) and port( ceiving ap	s) for the rec plication requ	eiver(s) of the ires a differeni	e data. t port.	
	1	уре о	ofda	ita		IP Add	r:Port IP	Addr:Port.							
		🛛 Ap	oplica	ation Info		127.0	.0.1:120	61							]
		Ra	idio			127.0	.0.1:120	61							]
	Ð	Co	ontac	ts 🗹 All Co	mputers	127.0	.0.1:120	60							]
	Ŀ	Sp	oots			127.0	.0.1:120	62 127.0.0	0.1:12063						]
		Ro	tor			127.0	.0.1:120	41 127.0.0	0.1:12040						]
		Sc	ore			127.0	.0.1:120	60							]
r C		WSJ musi from	IT an t ma n eac	nd JTAlert cor tch each prog ch program in	nection se grams setti to N1MM.	ettings. I ings. All	PAddres owsdire	ss and por ect logging	rt L	Enable Enabl	ie 127.0	Address 0.0.1	UDP Port 2333		
10		Sets conr	s the nect	IP Address a to N1MM+ via	nd port tha TCP Port	it an ex for logg	ternal pr ing purp	ogram car oses. (JTE	bx) E	Enable Enab	le 127.0	Address	TCP Port 52001		
Þ.F						ОК		Cancel				Help		jets	

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## **Add Windows**

Additional Windows and Programs	
✔ Connect and Start SKM Server	
Use ActiSpot	
✓ Use BandMap for RX1	
Use BandMap for RX2	
1 Spot lifeTime (minute)	
KM Server -	19) jelScreenshol
,	SKM Serve

(

Connect and Start	SKM Server
Telnet Server	

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ActiSpot – RBN).

Use BandMap for RX1 - Use BandMap for RX2 -	1- 2-	:	
	_		

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SDC

### Acti Spot

Acti Spot

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1 -

SPOT!	SM6FMB-#: GW8IZR-#:	7009.1 7009.0	13 dB 8 dB	
999	EA5WU-#:	7009.0	11 dB	

2 - Callsign for search.

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3 - :	RBN	Telten Server.
4 -	,	







. "599".



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### **Band Map**





SODD Dand Man 2	SO2V,	Band Map2	N N	/FOB.
SO2K Ballu Map 2	Band Map,			
Created with the Pe	rsonal Edition of He	elpNDoc: Free HTMI	- Help documentation g	enerator
Установки менед	жера спотте	ров		
► Default Profile: 4k-	TCI+HRD.ptcp 🔹 🛃	*		
Special Profile For 5MContest 🗸 4k+	TCI+RBN.ptcp 🔹 📝	×		
Start Spotters 🛃 🕂 💻			Callsign: UT4LW	
Default Profile: -	,		,	
[Start Spotters] – [ +] – [ -] –	«Telnet	, Server».		« »

Callsign – ,

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## Установки споттера

✓ Spotter A		
Connect 🙀	to Srv	to Pan
Host: spider.ham-radio-deluxe.com	: 8000	\$
Send:		Log
Connection Connect! > Welcome to the WA9PIE-2 Global DX Spotting Network running on DXSpide > === > This is the recommended DX cluster system for Ham Radio Deluxe, but everyone is welcome. > ===	er	
! This system may only be accessed by Radio Amateurs using their own !           ! callsigns and in accordance with their country's licensing           ! regulations. All connections to this system are recorded.		
<ul> <li>VT4LW</li> <li>===</li> <li>login:</li> <li>VT4LW</li> <li>VT4LW</li> <li>VT4LW</li> <li>Hello Yuri, this is WA9PIE-2 in Prosper, TX</li> <li>running DXSpider V1.55 build 0.181</li> </ul>		
L	jeise	meenshill

to Srv to Pan - Telnet Server

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108 / 173

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to Srv 🗸 to Pan	Color
: 8000	\$

Log -

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#### Создание сетевых аудио каналов

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SDC

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SDC.
"RMT Server" "Audio Server 1", "Audio Client"
"Audio Channel 1":

SDC (Software Defined Connectors v 12.2302x64) [C:/Users/Yuri/LwSoft/comspider.ini] – 🛛	SDC (Software Defined Connectors v 12.2302x32) [C:/Users/Yuri/LwSoft/comspider.ini] — 🗆 X
ProFile Mgr RigSync Telnet Server SKM Server Audio Client RMT Server PA TCI 🚺 Save 🀋	🖈 🕖 🛛 ProFile Mgr 🛛 RigSync Tehet Server SKM Server 🛛 Audio Client RMT Server 🛛 PA 🛛 TCI 🗘 Save 👷 💟
Profile: 1 Skimmer,psrv 💌 🕱	Profie: 2 Channel, paud 💌 🕱 🤎
+ - Audio Remote S	e Servers 🗸 Audio Channel 1
V Audio Server 1	Start 🍇
Start 🍇 Port: 7341 🗘	Type: Remote Channel * Host: AS-NADY Port: 7341
Output: MME  Add Block: 2	Input: MME  Level:
Device: Microsoft Sound Mapper - Output	Device: Microsoft Sound Mapper - Input  Mono
✓ Input: MME ▼	V Output: MME V Add Block: 4 🗘
Device: Microphone (Realtek High Defini   Mono	Device: Speakers (Realtak High Definiti
Sample: 48000 *	Sample: 44100 -
Buffer: 4096 💌	Buffer: 4096

Add Block -

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MME: Buffer = 4096,

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,

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add Block = 2.

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(	🕏 SDC (So	C (Software Defined Connectors v 12.2302x64) [C:/Users/Yuri/LwSoft/comspider.ini] —									SDC (Soft	ware Defin	ed Connectors v 1	12.2302x32) [C:,	/Users/Yuri/LwS	oft/comspic	er.ini]	
èrc	File Mgr	RigSync	Telnet Server	SKM Server	Audio Client	RMT Server	PA	TCI 🔸 🕨	Save 📝	1 🚺	ProFile Mgr	RigSync	Telnet Server	SKM Server	Audio Client	RMT Serve	r PA	TCI 4
	Profile: 1 Sk	kimmer.psrv	- * *								Start Audio	Channels	+ -	Pro	file: 2 Channel.	paud 🔻	*	
	+ -								Audio Remote !	Servers	✓ Audio Cha	annel 1						
•	✓ Audio Se	erver 1									Start	- 🙀						
	St	art 🍇	\$	F	Port:	7341				e L	Туре:	Remo	te Channel 🔻 🔻	iost: AS-NADY	Por	t: 7341		\$
	V Outpu	ut: MM	ME 🔻	Add Block:	2 🌲			-		l	✓ Input:	MME	•		Lev	el: 🗆		-
	Device:	Mic	crosoft Sound Mapp	er - Output	•	Mono 🔻				4	Device:	Micros	oft Sound Mapper	- Input		• Mono		•
1	✓ Input	: M	ME 🔻	•]							V Output:	MME	-	Add Block:	4	\$		
	Device:	Mid	crophone (Realtek H	High Defini	•	Mono 🔻					Device:	Speak	ers (Realtek High D	efiniti		▼ Mono		•
	Sample:	48	000 -	-						c	Sample:	44100	-					
	Buffer:	40	196 🔻	•						c	Buffer:	4096	•					

#### / . (Mono/Stereo, Sample< Size, Buffer) ( SDC):

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#### Подключение телеграфного ключа

SDC

«CW Key»



847",

COM4. LAN-COM Interface 1  

 SDC (Software Defined Connectors v 122302x64) [C//Users/Yuri/LwSoft/comspider.ini]
 ×
 SDC (Software Defined Connectors v 122302x32) [C//Users/Yuri/LwSoft/comspider.ini]
 ×

 ProFile Mgr
 RgSync
 Telnet Server
 SIM Server
 Audo Clent
 RMT Server
 PA
 TCI
 Save
 X
 Save
 Save
 X
 Sa Start + - Profile: CONTEST.pspd Profile: 1 Skimmer.psrv 🔻 🔀 ↓ ● ✓ Audio Server 1 Port A V Port B Audio Remote Servers Port Property Port Property Start Start Device Real COM Port: 7341 \$ Device Remote 847 Remote Host: AS-NADY Port: 7351 Latency 0 Real COM
Port COM10
Filter · ✓ Output: MME ✓ Add Block: 2 ♦ ▼ 👰 Device: Microsoft Sound Mapper - Output As Server ✓ Input: MME ▼ Filter View Log Device: Microphone (Realtek High Defini As Server Send Data to Sample: 48000 \* View Log Buffer: 4096 -Send Data to ✔ Remote 847 COM10 + -COM Port Remote Servers ✔ LAN-COM Interface 1 Send DTR/RTS to Start € Port: 7351 € COM Port Ø COM4 € @ Vew Log Send DTR/RTS to View Log ✓ Remote 847 COM10

uner: ✓ CW Kev	-020F	
Speed	Volume	
	CW Pitch 600 🗘	Ramp 4 🗘 Width 50 🗘
✔ BreakIn	100 🗘 Delay PTT-CW 20 🗘	Type Key Dot-RTS, Dach-DTR 🔻
<b>*</b>	COM Port Key COM4 🔻 🎡	to Spider: to Remote 847 🔹 🕥

:

Speed – Volume –	CW		
BreakIn -	BreakIn		
Delay PTT-CW –	,	CW	PTT.
CW Pitch –	CW.		
Ramp –	CW.		
Width –	/ .		
Type Key –	CW ,		
COM Port Key –	COM	CW	•
		:	

SDC



# Создание удаленного канала с самоконтролем СW для ключа и лога



"Audio

Client"->Output.

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## **Audio Mixer**



SDC

위에 SDC (Software	e Defined Conn	ectors v 7.0	0) [C:/Users/Yuri,	/LwSoft/comspi	der.ini]			_		×
ProFile Manager	COM Spider	RigSync	Telnet Server	Audio Client	Audio/COM Se	erver Mixer	Setup		Save	
Start	Profile: 1ss.pr	mix 🔹 X								
Sample Rate: 220	050 <del>▼</del> Buff	er Size: 51	2 -							
Input Device			Sliders		C	Output Device				
+			+ -	•		+ -				
In 1			In 1-(M)	-	Out 1-(L)	Out 1				
Driver MME	✓ Mon	0	• In 2-(M)	-	Out 1-(R) 💌	Driver MME		<ul> <li>Stereo</li> </ul>		•
Device Line 1 (Vir	tual Audio Cable)	)	- 1			Device Speaker	s (Realtek Hi	gh Defini	ti	-
In 2										
Driver MME	✓ Mon	0	-							
Device Line 2 (Vir	tual Audio Cable)	)	•							
										eenshiik
	(		)							

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위引 SDC (Softwar	e Defined Conn	ectors v 7.00	0) [C:/Users/Yuri	/LwSoft/comspi	der.ini]					×
ProFile Manager	COM Spider	RigSync	Telnet Server	Audio Client	Audio/COM Server	Mixer	Setup		Save	
Start	Profile: 1ss.pr	mix 🔹 🞇								
Sample Rate: 22	2050 - Buff	er Size: 512	2 -							
Input Device In 1 Driver MME Device Line 1 (Vii In 2 Driver MME Device Line 2 (Vii	-   Mon rtual Audio Cable) -   Mon rtual Audio Cable)	o /	Sliders In 1-(M) In 2-(M) In 3-(M) In 4-(M)		Out 1-(L) Out 1 Out 1-(L) Out 1 Out 1-(R) Out 1-(R) Out 1-(R)	MME Speakers (	(Realtek Hig	-  Sterea gh Defini	D Iti	* *
In 3 Driver MME Device Line 3 (Vii In 4 Driver MME Device Line 4 (Vii	<ul> <li>✓ Mon</li> <li>rtual Audio Cable)</li> <li>✓ Mon</li> <li>rtual Audio Cable)</li> </ul>	0	• •							<b>O</b> reensitify

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"AGC".

船 SDC (Softwar	e Defined Conn	ectors v 7.0 <sup>-</sup>	I) [C:/Use	ers/Yuri/	LwSoft/comsp	ider.ini]				-		Х
ProFile Manager	COM Spider	RigSync	Telnet	Server	Audio Client	Audio/COM	Server	Mixer	Setup		Save	<u>v</u> (v)
Start	Profile: 1ss.pr	mix 🔹 X										
Sample Rate: 22	050 🔹 Buff	Fer Size: 51	2 •									
Input Device			Sli	ders	/	$\frown$	Output D	evice				
+ -				+		✓ AGC	)+ (					
In 1			I	n 1-(L)	· — Ú — /	Out 1-(L) 🔹	Out 1					
Driver MME	▼ Ster	eo	• II	n 1-(R)		Out 1-(R) 🔻	Driver	MME		Stereo		•
Device Microphon	e (Realtek High D	Defini	- T	n 2-(M)		Out 1-(I ) 🔻	Device S	Speakers (	(Realtek Hig	gh Definit	ti	•
In 2				n 2-(M)		Out 1-(L) *						
Driver MME	▼ Mon	0	• I	12 (11)								
Device Переназна	ачение звуковых	устр Input	•									
											jels	

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## Audio Scope

Audio Scope

SDC (Software Define	d Connectors v	11.00x64) [C:/Users	/Yuri/LwSoft/c	omspider.in	i] —	
ProFile Mgr Telnet Serv	ver SKM Serv	ver Audio Scope	PA TCI	Setup	Sa	ve 🔀 🚺
+ -						
✓ Audio Scope 1						
Start	Stop					
Sync Work with TCI	TCI Client 1			-	Ø	
Control:	Both Horisonta	al		-	In External	Window
Driver/Device:	MME		TLine 8 (V	irtual Audio C	able)	-
Channel:	Mono 🔻	Sample Rat	te: 11025 🔻		FFT Size:	1024 🔻
SpectroScope: Avg					Pea	ak Level
OscilloScope: Type:	Full Refresh			•	Update (ms)	13 🌲
						<b>O</b> tercensfield
	-	,		Auc	lio Scope.	
Sync Work with T	TCI Clien	t 1			•	Ø
TCI			,			TCI.
Start	SpectroScope	5				
✓ Sync Work with TCI	OscilloScope Both Vertical				()	
Control:	Both Horison	tal			In Exte	rnal Window
. SpectroScop	e -		, OscilloScop	e -		

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-

, Both Vertical, Horisontal -In External Window -

Driver/Device:	MME	▼ Line 8 (Virtual Au	dio Cable) 🔻
Channel:	Mono 🔻	Sample Rate: 11025 🔻	FFT Size: 1024 🔻
- FFT Size.	, .		Channel, Sample Rate
SpectroScope: Avg			With Max Level
-	:		
OscilloScope: Type:	Full Refresh 50% Refresh Scrolling		Update (ms) 5
-	OscilloSc	ope.	
		,	:
	<mark>╕┠╍╅┲┲┇┺┽┢╛<mark>╞╖╢</mark>┪╘╽┱┠╘┥┲╸┥╍┱┥┪┱<mark>╸</mark>┝╵╢ ╵╹┲╺┱╘╢<sub>┪</sub>╝┑╅╹╽<mark>╞╕</mark>╡┟╏╡╡╝╍╵<sup>┿</sup>╍┱┥┪╍╏<sub>┍</sub>╽╎</mark>		Griebeneres 1000

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## Set Gain & Scale

#### SpectroScope.

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OscilloScope.



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PA

PA COM .		VFO			SDC PA		
ら SDC (Software	Defined C	onnectors v 11.	00x64) [C:/Users/	Yuri/Lw	Soft/comspic	der.ini] —	
ProFile Mgr Teln	et Server	SKM Server	Audio Scope	PA	TCI Setu	up	Save 🔀 🚺
Start PA Serve	er 🕂	Profile:	kxpa100.ppa	Ŧ			
✓ PA Control 1							
Stop	>>>	Work		7029		26,5	
Device Name		KXPA 100					
Device Type		Elecraft KXPA1	00+Tuner			-	
Data Source		TCI Client				-	
TCI Client	Ø	TCI Client 1				Ŧ	
Receiver		Both				-	
COM Port	Ø	COM1				-	
Ptt Pin		RTS 🔻			Latend	cy: 10 🌲	
Elecraft KXPA 100	+Tuner:						
✓ Attenuator Al	ways ON	✓ Polling		_	_		
Antenna: 1 & 2	•	Band	d: All Bands 🔻	J	Era	ase Memory	
✓ Log							
> ^TM0269; < ^TM; > ^TM0266; < ^TM; > ^TM0266; < ^TM; > ^TM0264; < ^TM; > ^TM0265;						•	

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## Тип устройства

SDC 10.23 KENWOOD, ICOM, Elecraft, RF-Kit PA

CAT

Start PA Server							
PA Control 1	Stop						
Device Name	KXPA100						
Device Type	Elecraft KXPA100+Tuner						
Data Source	Elecraft KXPA100+Tuner Elecraft KXPA100 Kenwood CAT						
TCI Client	Kenwood CAT (IF)						
Receiver	Elecraft KAT500 Tuner						
COM Port	RF-Kit PA						
Ptt Pin	RTS ▼   ▶   PTT on Tune   Latency: 10 ↓						
Elecraft KXPA100+Tuner:	Elecraft KXPA100+Tuner:						
Attenuator Always ON	Polling						
Antenna: 1 & 2 🔻	Band: All Bands 🔻 Erase Memory						
✓ Log							

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## Источник данных

TCI.

Rig Sync,

RigSync,

:

SDC (Software Defined Connectors v 10.23) [C:/Users/Yuri/LwSoft/comspider.ini]
ProFile Mgr RigSync Telnet Server SKM Server PA TCI Setup

ProFile Mgr RigSync	Telnet Server	SKM Server	PA	TCI	Setup	
+						
✓ PA Control 1						
Start >>>	Stop					
Device Name						
Device Type	Elecraft+Tuner				•	
Data Source	RIG Sync Channel				•	
RIG Sync Cnannel	Sync Channel 1					
COM Port 5	Sync Channel 2					
Ptt Pin	N/A 🔻			Latenc	y: 0	
Elecraft+Tuner:						
Attenuator Always ON	۱					
Antenna: 1 & 2 🔻	Band: A	ll Bands 🔹		Eras	e Memory	
Log						jetSereensfiit

TCI,

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TCI

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SDC (Software	Defined Connectors v	10.23) [C:/User:	s/Yuri/LwSoft/	comspider	r.ini]
ProFile Mgr Rig	Sync Telnet Server	SKM Server	PA TCI	Setup	
+ -					
✓ PA Control 1					
Start >>>	Stop				
Device Name					
Device Type	Elecraft+Tuner			•	
Data Source	TCI Client			•	
TCI Client	TCI Client 1			•	
Receiver	Both				
COM Port 5	Receiver 1				
Ptt Pin	Receiver 2 N/A 👻		Latency:	0	
Elecraft+Tuner:					
Attenuator Alwa	ys ON				
Antenna: 1 & 2	Band: All E	Bands 💌	Erase Me	emory	
Log					JetSercensfilt
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PTT



ら SDC (Soft	ware De	fined	Connectors v	/ 10.23) [C:/User	s/Yuri/L	wSoft/c	omspide	er.ini]
ProFile Mgr	RigSyn	nc	Telnet Server	SKM Server	PA	TCI	Setup	
+								
✓ PA Control	1							
Start	>>> S	top						
Device Name								
Device Type	E	lecraft	+Tuner				•	
Data Source	Т	CI Cli	ent				-	
TCI Client	S T	CI Cli	ent 1				•	
Receiver	В	Both					-	
COM Port	0	N/A					-	
Ptt Pin		N/A			Lat	tency:	)	
Elecraft+Tune	r:	RTS						
Attenuator	r Always	ON						
Antenna: 18	.2 -		Band: Al	Bands 💌	E	Erase Me	mory	
Log							Jel Saraa	) 751777
1							يحجب بيدي	
		,	VFO -	"Latency".		PTT		
	PTT		-			VF	0.	
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Elecraft

Elecraft,

:

SDC (Software I	Defined Connectors v	10.23) [C:/Users	s/Yuri/Lv	vSoft/c	omspide	r.ini]
ProFile Mgr RigS	Sync Telnet Server	SKM Server	PA	TCI	Setup	
+ -						
✓ PA Control 1						
Start >>>	Stop					
Device Name						
Device Type	Elecraft+Tuner				-	
Data Source	TCI Client				-	
TCI Client 5	TCI Client 1				-	
Receiver	Both				-	
COM Port 5	N/A				-	
Ptt Pin	RTS 💌		Late	ency: 0	*	
Elecraft+Tuner:						
Attenuator Alwa	ys ON					
Antenna: 1 & 2	Band: All E	Bands 💌	E	rase Mei	mory	
Log						
						للأالهانحوا تحاصي

#### Attenuator -

Antenna, Band, Erase -

•

"Erase"

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## **KENWOOD**, Icom

, CAT KEWOOD, Icom?

Start       >>>       Stop         Device Name       SPE         Device Type       Kenwood CAT         Data Source       TCI Client         TCI Client       TCI Client 1         Receiver       Both         RIG Sync Channel       Sync Channel 1         COM Port       COM1         Ptt Pin       N/A         Ime Poll       100         Type Poll       Only Cyclic Control         Ime Poll -       VFO         Send Changes & Cyclic Control -       VFO         Time Poll.       VFO         Send Changes & Polling -       VFO         Time Poll.       VFO						
Device Name SPE Device Type Kenwood CAT Data Source TCI Client TCI Client TCI Client 1 Receiver Both RIG Sync Channel Sync Channel 1 COM Port COM1 Ptt Pin N/A C Latency: 0 Ptt Pin N/A Latency: 0 Kenwood CAT: Time Poll 100 Type Poll Only Cyclic Control Log ())) Control VFO . yep Poll: Only Cyclic Control - VFO Send Changes & Polling - VFO Time Poll. Send Changes & Polling - VFO Time Poll.	Start >>>	Stop				
Device Type Kenwood CAT Data Source TCI Client TCI Client TCI Client 1 Receiver Both RIG Sync Channel Sync Channel 1 COM Port COM1 COM1 COM1 COM1 COM1 COM1 Common CAT: Time Poll 100 Type Poll Only Cyclic Control Log Competence Control Competence Contr	Device Name	SPE				
Data Source TCI Client TCI Client Receiver Both TCI Client Sync Channel Sync Channel Sync Channel COM Port COMI COMI COMI COMI COMI COMI COMI COMI	Device Type	Kenwood CAT		·		
TCI Client       TCI Client 1         Receiver       Both         RIG Sync Cnannel       Sync Channel 1         COM Port       COM1         Ptt Pin       N/A         N/A       Latency:         Ime Poll       100         Type Poll       Only Cyclic Control         VFO       .         rpe Poll:       VFO         Only Cyclic Control -       VFO         Send Changes & Cyclic Control -       VFO         Time Poll.       VFO         Send Changes & Polling -       VFO         Time Poll.       VFO	Data Source	TCI Client		·		
Receiver       Both         RIG Sync Cnannel       Sync Channel 1         COM Port       COM1         Ptt Pin       N/A         Ime Poll       100         Type Poll       Only Cyclic Control         Ime Poll	TCI Client 5	TCI Client 1		•		
RIG Sync Cnannel Sync Channel 1 COM Port COM1 Ptt Pin N/A Latency: 0 Kerwood CAT: Time Poll 100 Type Poll Only Cyclic Control Log me Poll - , VFO . ype Poll: Only Cyclic Control - VFO Send Changes & Cyclic Control - VFO Time Poll. Send Changes & Polling - VFO Time Poll.	Receiver	Both		•		
COM Port Ptt Pin N/A Latency: Kenwood CAT: Time Poll 100 Type Poll Only Cyclic Control Log me Poll - , VFO . ype Poll: Only Cyclic Control - VFO. Send Changes & Cyclic Control - VFO Time Poll. Send Changes & Polling - VFO Time Poll.	RIG Sync Cnannel	Sync Channel 1		•		
Ptt Pin N/A  Latency:  Latency:  Kenwood CAT: Time Poll 100 Type Pol Only Cyclic Control Log me Poll - , VFO . ype Poll: Only Cyclic Control - VFO Send Changes & Cyclic Control - VFO Time Poll. Send Changes & Polling - VFO Time Poll.	COM Port 🕥	COM1	•	•		
Kenwood CAT:         Time Poll 100 Type Poll Only Cyclic Control         Log         ime Poll	Ptt Pin	N/A 🔻	Latency: 0	•		
Time Poll       100       Type Poll       Only Cyclic Control         Log       Image: Control - Ima	Kenwood CAT:			-		
ime Poll , VFO ype Poll: VFO	Time Poll 100 🗘 Typ	e Poll Only Cyclic Cont	rol 🔻	•		
ime Poll , VFO	Log			-		
ime Poll - , VFO . ype Poll: Only Cyclic Control - VFO. Send Changes & Cyclic Control - VFO Time Poll. Send Changes & Polling - VFO Time Poll.			(Ø) jelserven	-Nors		
ime Poll - , VFO . ype Poll: Only Cyclic Control - VFO. Send Changes & Cyclic Control - VFO Time Poll. Send Changes & Polling - VFO Time Poll.						
ype Poll: Only Cyclic Control - VFO. Send Changes & Cyclic Control - VFO Time Poll. Send Changes & Polling - VFO Time Poll.	me Poll - ,				VFO	
Send Changes & Cyclic Control - VFO Time Poll. Send Changes & Polling - VFO Time Poll.	ype Poll:	atrol				
Send Changes & Polling - VFO Time Poll.	Send Changes	& Cyclic Control -		VFO	VFO.	
Time Poll.	Send Changes	& Polling -	VI	-0		
				Time Poll.		

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**KXPA100** 

1K-FA

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## OTRSP

SDC-OTRSP - ExpertS	- DR2.		СОМ	,	
E-Coder.					
SDC (Software Defined C	onnectors v 15.11x64) [C:/Us	ers/Yuri/LwSoft/coms	pider.ini]	_	– 🗆 X
ProFile Mgr COM Spider Rig	Sync Telnet Server SKM Se	rver DIGI Macro F	PA OTRSP TCI	Setup	Save 📩 🚺
Start OTRSP		Profile: 🊺 First	potrsp	<b>- 100 100</b> En	iter Name
COM Port: 🚺 COM10		🔻 🗱 🗌 Log			🛃 Auto control E-Coder
TCI For RX1: TCI Client 1	TCI For RX2: TCI Cli	ient 1 🔻 🍏			Mode: AUTO 🔻
SO2V MODE:		VEOR	Maaa	VEOR	**
VFOA Mono Volume VFOA:0	VFOA Stereo Volume VFOA:0		mono	VFOB S Volu	me VFOA:- <u>29</u>
Balance VFOA:0	Balance VFOA:-40	••••••••••••••••••••••••••••••••••••••	ance VFOA:0	Bala	nce VFOA:-40
Volume VEOB:-60	Volume VEOB:-17		ume VEOB:-1		me VEOB:-1
Balance VEOB:0	Balance VEOB:40		ance VEOB:0		
SO2R MODE:					
RX1 Mono	RX1 Stereo	RX2 M	1ono	RX2 St	ereo
Volume RX1:-1	Volume RX1:-1		ume RX1: MUTE		me RX1:-18
Balance RX1:-1	Balance RX1:-40	Bal	ance RX1:0	Bala	nce RX1:-40
Volume RX2: MUTE	Volume RX2:-10		ume RX2:0	Volu	me RX2:0
Balance RX2:-1	Balance RX2:40		ance RX2:-1	Bala	nce RX2:40
	COM				(SO2V/SO2R)
RX2S			RX2 Stereo	, D.	
COM Port - COM					
TCI Fro RX1 - <u>TCI</u>	1-				
TCI Fro RX2 - <u>TCI</u>	2-				,
Auto control E-Coder -	VFO R	RX1/RX2	E-Coder.		
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### Поддерживаемые команды

VFOA, VFO1 -         VFOA 1-           VFOAS VFO1S -         VFOA 1-           VFOB, VFO2 -         VFOB 1-	RX1 - 1- RX1S - 1- RX2 - 2- PX2S - 2-			
	VFOA, VFO1 - VFOAS VFO1S - VFOB, VFO2 -	VFOA 1- VFOA 1- VFOB 1-	·	

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## **SWR Meter**

SWR		SWR .	Tune
		ESDR2 1.3.0 beta	3.
	SWR	, Tune	3

🗐 SDC (Soft	ware Defined Co	onnectors v 12.0	02x64) [C:/Us	ers/Yuri/LwS	oft/comspid	er.ini]	-	
ProFile Mgr	Telnet Server	SKM Server	PA SWR	TCI	Setup			Save 🔀 💟
Band 7 MH Step 25	z v Start 7	2000 <b>(</b>	History:	+2005		TC Clie	I: ent 🖸	TCI Client 1 🔻
Start	t	lear	×	190703-1812	24.7 🔹	Re	ceiver	Receiver 1 🔻
-		-		_		-	-	
10.0								
9.0								
8.0								
7.0								
ь.u								
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4.0								
3.0								
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1.0								
7000		7050		7100		7150		<b>972</b> 00
							c	jesareanshi
	(Ba	nd), (St	ep).		(Start-Sto	(ad	"Start":	

SDC (Soft	ware Defined Co	onnectors v 12.0	02x64) [C:/Use	rs/Yuri/LwSoft/	'comspider.ini]		- 🗆 X
ProFile Mgr	Telnet Server	SKM Server	PA SWR	TCI Set	up		Save 🔀 🚺
Band 7 MH	z 🔻 Start 7	7000 🗘	History:			TCI:	
Step 25	▼ Stop 7	7200 🗘	190704-	2031		Client	G TCI Client 1 🔻
Start	: C	lear		90703-181224.7	· • +	Receiver	Receiver 1 🔻
190704	-2031	-		-		_	
3.0							
2.0							
1.0		7050		7100		7150	<b>OP</b> m
1,000		1,000		1, 100		,	jelSaraanshiil

History

"Save".

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1 1210	02310 17 1		, ran, er	10010 0011	spinerini	
rver	PA	SWR	TCI	Setup		
]	н	istory:				
	1	190704-20	)31			
)		<b>×</b> 19	0704-203	31.7 👻	+	
						ľ

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4-

roFile N	Mgr	Telnet	Server	SKM	Server	PA	SWR	TCI	Setup				Save	
Band	7 MH		Start 0	7000			History:				тс	T.		
banu	7 1911 12	· · · ·	Start	/000			400704.5	0.07				. 0	(%) [	
Step	25	•	Stop	7200	<b>Q</b>		190704-2	2037			Cli	ent		ent 1 🔻
	Start			Clear			× 19	90704-20	31.7 🔻	+	Re	ceiver	Receive	er 1 🔻
- 19	90704-	2031		-	<b>19070</b> 4	4-2037		-	-			-		
3.0														
2.0						_								
_														
									/					
1.0														
1.0					2050				~~		7450			

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## Пример использования программы совместно с 5MContest

«SDC»	,	5MTelnetServer,	
5MContest.	«SDC»	5MContest.	
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## Установки в 5MContest

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## САТ интерфейс

1.

ExpertSDR2 TCI1.

5MContest Setting	gs					
General 📰	CW settings 🛛 💈 RTTY/PSK Se	ettings 🛛 🚸 SSB/	AM/FM settings	🗑 MMTTY	MMVARI	SDC DIGI Server
(	CAT Interface		QTC		Cluster :	settings
Radio Settings	F Omni-Rig RIG1 🖲 TCI 1 🐺 Or	nni-Rig RIG2 🗐 TO	CI 2			
SUNSDR2 ; ESD Address 127.0.0.1	R,1.4 SDR Port 40001		TRX 1 VFO A 7029000	Set	TRX 2 VFO A 14032480	Set
Spots colors	🗹 AutoConnect 🗹 PTT via TCI	CW via TCI	VFO B 7052799	Set	VFO B 14098570	D Set
CQ-Freq	<ul> <li>Send Internal Spots</li> <li>Pass 5MTelnetSrver Spot:</li> <li>Only current band</li> <li>Display Rejected spot:</li> </ul>		RIT     0       XIT     0       Mode     CW	Set       Set       PTT	RIT   0     XIT   12     Mode   CW	Set Set PTT
	🗹 Auto co	ontrol E-Coder	CW 34 🛨 D	elay 10 📫		

2. "Radio settings":

5MContest S	ettings							
General		STTY/PSK Se	ettings 🕴 🕸 S	SB/A	M/FM settings		MMVARI	SDC DIGI Server
	📾 CAT Interface	•		QT	гс		Cluster :	settings
Radio Setti.	🗑 Omni-Rig RIG	1   🖲 TCI 1   🗑 Or	nni-Rig RIG2	D TCI	2			
RX RX	OmniRig 1 0 1 ORX 2 VFO er settings MI ITE	OmniRig 2 ● T VFO ● VFC		2 2	Window2 DEVICE	OmniRig 1 ( ) RX 2 VFC	) OmniRig 2 ● ○ VFO ○ VF	
	alance: 0 dB	VFO A Volum Balan	re: 0 dB	-••	VFO A Volume Balance	e: 0 dB		ume: 0 dB
е <u></u> Ві	alance: 0 dB	ęBalan	ce: 0 dB	· · · · · · · · · · · · · · · · · · ·	Balanc	e: 0 dB ©		ance: 0 dB
Auto turn SO2V <-> SO2R								

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## Подключение к SDC Telnet Server

5MContest Settings								
General   ☴= CW settings   💈 RTTY/PSK Settings   💈	SSB/AM/FM sett	ings 🛛 🐺 N	1MTTY   E	MMVARI	SDC DIGI S	Server		
📾 CAT Interface	QTC			Cluster se	ttings			
Frequency filter Continent filter Fonts and colors DXCC filter	Settings Other 4					<u>`</u>		
Spot MODE manning HF WARC VHF								
CWSkimm Telnet server Port		CW	DIG-AFSK	DIG-FSK	PHONE			
127.0.0.1 7373 Disconnect	160m	CW_L \vee	$SSB\_L_{-} \leq$	$\rm DIG\_L~~$	$SSB\_L~{\scriptstyle \curlyvee}$			
✓ AutoRur	80m	CW_L \vee	$SSB\_L~{\scriptstyle \nwarrow}$	$DIG_L$ $\smallsetminus$	$SSB_L \times$			
"C:\Program Files\LwSoft\SDCx64\SDC.exe"	40m	CW_L ~	$SSB\_L~\vee$	$DIG_L$ $\vee$	$SSB_L \sim$			
Automatically start the receiver	20m	CW_U \vee	$\rm SSB\_U~{\scriptstyle \smallsetminus}$	$\mathrm{DIG}_\mathrm{U}$ $\smallsetminus$	$SSB\_U  \smallsetminus $			
Pass SP callsigr	<b>15</b> m	CW_U 🖂	$\text{SSB}\_\text{U}~{}^{\vee}$	$\mathrm{DIG}_\mathrm{U}$ $\smallsetminus$	$\text{SSB}\_\text{U}~{}^{\vee}$			
Show time after QSC	🗌 10m	CW_U \vee	$\text{SSB}\_\text{U}~{}^{\vee}$	$\mathrm{DIG}_\mathrm{U}$ $\vee$	$\text{SSB}\_\text{U}~{}^{\vee}$			
● 5 mir ○ 10 mir ○ 15 mir ○ 20 mir								
✓ Close after time limi								

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#### Запись QSO

SunSDR2 (PRO,DX,MB1) ExpertSDR3, : QSO

Настройки 5МС	Contest							
S S	DC DIGI Server			CAT Interface		QTC		
Общие	Устано	овки CW	📔 🦉 R	TTY/PSK Settings	SSB/	AM/FM sett	ings	TIMM 🐺
<ul> <li>✓ Загрузить *</li> <li>✓ Загрузить *</li> </ul>	*.dta файл *.hlp файл	MAST	ER.DTA	Уста • Аг	новки времени вто О Manual	Часы(+/-	) -2 🔹	Минуты 0
Dupe Sheet (R	(1) Dupe S	heet (R2)	Filters	EDI Settings	Technik razd	el Fo	otSwitch R 1	settings
Map setting	gs E	xternal prog	ram	Rotator Control	eQSI	cc	VHF tr	ansverter
Радио 1	Graph CT	атистика ра	аундов	Радио 2 Ста	цион Volum	e Band set	tings F	RF POWER Ba
Mults lists	Calls QS	SOs Ne	twork	Skeds Запись с	ISO Цвет ту	ров 0	Статистика	множителе
WAV-формат фа	йла		Устройст	во записи звука				
PCM 8.000 kHz,	16 Bit, Mono	-	C Sound	Card Line 8 (Virtua	l Audio Cable)	-		
О Отключить : Эапись ESM	запись			Default record dur	ation (sec) 50	•	S	TART
С Непрерывна	я запись		Устройст	во вооспроизведен	ия звука			
			Переназна	ачение звуковых ус	тр.	-	5	SAVE
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## **SDC**

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Setup

Setup	:						
<u>S</u>	SDC (Sof	tware Define	d Conn	ectors	s v 14	.01x64)	[C:/Users/
Telne	et Server	SKM Server	DIGI S	erver	TCI	Setup	
Style:	Night St	/le	•		S	et Font	
		t no kill wind					
	Move to	el no-kill wind SveTrav on St	ow 💌				
	Move to	Systiay off St					
	Use	ProFile Manag	ger 🗌				
		Use COM Spie	der 🗌 🗌	Auto	Start	COM Sp	ider
		Use Rig Sy	/nc 🗌 🗌	] Auto	Start	RigSync	
	ι	lse Telnet Ser	ver 🗹 🗹	Auto	Start	Telnet S	erver
		Use SKM Sen	ver 🗹 🗹	Auto	Start	SKM Ser	ver
	11 A	Use DIGI Ser	ver 🗹 🗹	Auto	Start	DIGI Sei	rver
	Use Aud	o Channel Cli	ent 🖂 🗆		Conn	ect Audi	o Channeis
	US	e Kemole Ser Uso Audio Mir		∃ Auto	Start	Miyor	Server
	1			∃ Auto	Start		cone
	,	Ilea DA Cont		∃ Auto	Start	DA Cont	rol
					Start		.01
		USE SWR ME					
		Use I	CI 💌				
SysTray on	AutoStart»	-					

«Set no-kill window» -

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**Telnet Server** 

RBN

SDC (Software Defined Connectors v 14.01x64) [C:/Users/Yuri/LwSoft/comspider.	ini] — 🗆 X
Telnet Server SKM Server DIGI Server PA TCI Setup	Save ★ 🔪
Telnet Server [1]       Spots -> Panorama         Default and Bypass Mode Color       Image: Stop         Stop       Mult       NewCty Color         New Bnd       NewBnd Color       Image: Stop         Not Cfm       NotCfm Color       Image: Stop         Port:       7373       Image: Stop       Image: Stop	Additional Windows and Programs Connect and Start SKM Server Use ActiSpot Use BandMap for RX1 Use BandMap for RX2 3  Spot lifeTime (minute)
Default Profile:     ForDIGI.ptcp     Image: Mathematical and the second and	
Stop Spotters - + -	Callsign: UT4LW
Spotter A Connect Host: TELNET.REVERSEBEACON.NET Send:	18883 🗆 to Srv 🗆 to Pan : 7000 🗘
<ul> <li>VI4LW</li> <li>Local users = 222</li> <li>Current spot rate is 33012 per hour</li> </ul>	

, ( ,4k+TCI+RBN)

«Use a special profile when 5MContest 5MContest Telnet Server

Stop 👸	► New Bnd □ NewBnd Color	Use BandMap for RX1
	► Not Cfm  NotCfm Color	
	Dupe Dupe Color	3 . Spot lifeTime (minute)
Port: 7373 🛓 Log 🗌	🗆 N1MM 127.0.0.1 12060 🗘 📑	
Default Profile:	ForDIGI.ptcp	
Special Profile For 5MContest I	4k+TCI+RBN.ptcp 🔹 🔀	
Stop Spotters 🚽 🕂 🗕		Callsign: UT4LW
Spotter A		
Connect 🖉		19522 🗆 to Srv 🗌 to Pan
Host: TELNET.REVERSEBEACON.N		: 7000
Send:		

!	5MContest	«Telnet Server»
:		

SDC (Sof	tware Define	d Connect	ors
Telnet Server	SKM Server	DIGI Serv	er l
Telnet Server	[1]	[	✓ S
Stop			
Port: 7373	A Y	Log 🗌	

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#### **SKM Server**

#### SKM Server

9	SDC (Software Defined Connec	ctors v 14.01x64) [C:	/Users/Yuri/LwSc	oft/o	comspider.ini] —		
ProF	ile Mgr Telnet Server SKM Serv	ver DIGI Server PA	TCI Setup			Save ★ 🔌	
	Start SKM Server + e Pr	rofile: 3k-Test_New.ps Gtations / Test Abbrev	skm viation:	011		() ()	
	Start Stop CW		Skinimer 2	Sto	p		
	Setup Skimmer 1		$\times$		Setup Skimmer 2		$\times$
	☐ In External Window Control type TCI Client	TCI Only	Stays On Top TCI Client 1		☐ In External Window Control type TCI Client	TCI Only	Stays On Top TCI Client 1
	Receiver		Receiver 1		Receiver		Receiver 2
	☐ Start Skimmer Only Mode of Signal/Noise stations detect (dB) Offset for spot frequency (Hz):	Fransceiver : <u>3</u> . 0.	CW		□ Start Skimmer Only Mode of Signal/Noise stations detect (dB) Offset for spot frequency (Hz):	Transceiver : <u>3</u>	CW
	Spotter Name: TCP Server Enabled Port: 0 Fr=	LW1-#			Spotter Name: TCP Server Enabled Port: 0 Tree	LW2-#	
96	External Text Decoder Window: Enable Click Function Separate windows for VFOA a Decode only VFOA IQ - Band Plan control	and VFOB		0	External Text Decoder Window: Enable Click Function Separate windows for VFOA a Decode only VFOA IQ - Band Plan control	and VFOB	
	Sample Rate	✓ Auto	96000 🔻		Sample Rate	✓ Auto	96000 🔻
	Spectrum via UDP	Speed:			Spectrum via UDP	Speed:	
	Host/Port	127.0.0.1	13064		Host/Port	127.0.0.1	13064 🗧
	Name:	ExpertSDR			Name:	ExpertSDR	
	Pile-Up Mode	kHz Up:	20		Pile-Up Mode	kHz Up:	20

SDC

•

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor TCI SDC (Software Defined Connectors v 14.01x64) [C:/Users/Yuri/LwSoft/comspider.ini] TCI Telnet Server SKM Server DIGI Server PA Setup ProFile Mgr TCI Client 1 Connect ø TCI Client 1 Name Host Port Logical control ECoder VFOA/B 🗌 Log 🗹 Callback TCI-Connect mode. 🔹 Port: 🔩 RIG-Emulator Focus Helper

TCI-Focus Helper:

5MContest,

	omspide
ProFile Mgr Telnet Server SKM Server DIGI Server PA TCI Setup	
TCI Client 1 Connect	
Name TCI Client 1	
Host 127.0.0.1 Port 40001	
Logical control ECoder VFOA/B     Log	
Callback TCI-Connect mode. Port: 🗞 40000 🗘	
Start Work	
Also SDC Windows Synchronize work with TCP Server	
Program Type: Window Name	
Window Title for VFOA:       Radio 1       Ok	
Window Title for VFOB:       Radio 2       Ok	
Delay (ms) 500	

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## Установки программы ExpertSDR2

"Enable":

ExpertSDR2

TCI



TCI-CallBack

"Spot Setting":

(b) Options		- 🗆 X
Device Sound card Display	AT Panel Features ExpertSync CW Skimmer Shortcuts IQ Recorder TCI Spot setting	ings
Spot settings Lifetime: 10 min \$ Maximum spots: 50 \$ Default color:	Enable Server: server.com:port Callsign: UT4LW Color: Add  Add  Color: Add	connecting

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## DIGI

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#### **5MContest**



1 Windows External Programm Help Language

Radio (1)/(2) - SDC DIGI Server SDC-DIGI Server. Settings->Global Setup. VFO.

:

5MContest Settings
📾 CAT Interface QTC 📓 Cluster settings
General
Window 1 Window 2
Connection settings Addr 127.0.0.1 Port 40100 Checking Receiver: Receiver 1 Channel: VFO A
Default Offset 1600 1 SDC RXWindow Captior SDC R1
RX Window Color Settings
Mult Usual Dupe My Special Calls
Font V 14 V

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SDC

SDC-DIGI Server



	SDC (Software Defined )	Connectors v	15.0118x64) [C:/U	Jsers/Yuri/LwSo	— [	) X
	ProFile Mgr COM Spider Te	SDC DI	GI Server —		× 🕨 S	ave ★ 🔌 e
	Start 🗭 📼 Profile: 🛛	RTTY:	e LETTER Mode Aft Inshift Space symbo	ter Space symbol bl	-	
	Modem 1 Start Stop		Moder	m 2 Stop		
		1700 1800		1000 . RES		
SDC		×	1300 1 1 500 1 5 SDC			↑ ×
✓ In External Wind ☐ Show AFC Pane	dow 📕 🖌 Stays On To I 🛛 Show TX Pa	p nel	✓ In External Wir ○ Show AFC Panel	ndow el	Stays On Top Show TX Pane	1
TCI Client	CI Client 1		TCI Client	Ø TCI Clien	t 1	
Receiver:	Receiver 1 🔻 Channel: VFO	A	Receiver:	Receiver 1 🔻	Channel: VFO B	
Default Offset	1600		Default Offset	1600		
Spectr scale	Linear	•	Spectr scale	Linear		<b>•</b>
Sync Width Wat	erfall with RX filter band		🗹 Sync Width Wa	terfall with RX filt	ter band	
✓ Use TCP Server Port:	40100 🗘 🎭 🗌 Lo	g	Use TCP Server Port:	r 40101 ÷	🔩 🗌 Log	

#### "Start" SDC-DIGI Server.



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#### SDC-DIGI Server,

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<u>(</u>	DC (Sof	tware Define	d Cor	nector	s v 14	4.01x6	54) [C:/U	sers/Yu
Telne	t Server	SKM Server	DIGI	Server	PA	TCI	Setup	
Style:	Night St	yle	•			Set For	nt	
	Se	et no-kill wind	ow 🗹					
	Move to	SysTray on St	art 🗹					
	Use	ProFile Mana	ger 🗌					
		Use COM Spie	der 📃	Auto	Start	COM	Spider	
		Use Rig Sy	/nc 📋	Auto	Start	RigSy	nc LC	
	U	Jse Teinet Ser	ver 🗹	Muto	Start	: l eine	t Server	
		Use SKM Sen	ver 💌		Start		Server	
		Ose DIGI Ser	ont 🖂			DIGI	Server	nolc
		e Remote Sen	ver 🗌		Start	Remo	ite Server	r
	00	Use Audio Mi	xer 🗌		Start	Mixer		
	l	Use Audio Sco	pe 🗌	Auto	Start	Audio	Scope	
		Use PA Cont	rol 🗹	🗹 Auto	Start	PA Co	ontrol	
		Use SWR Me	ter 🗌					
		Use T	CI 🗹					

DIGI TCP

, SDC-DIGI Server, : ,

SDC (Software Defined Connectors v 14.01x6	54) [C:/Users/Yuri/LwSoft/comspider.ini]	- 🗆
Telnet Server SKM Server DIGI Server PA TCI	Setup	Sav
<b>Start</b> + Profile: 4k.pdigi	× ☑	
Modem 1 Stop Wait DIGI Mode AFC 1640 RES NET RTTY45 T TX 200 -100 0 100 200 0 100 200	Modem 2 Stop Wait DIGI Mode AFC 1560 RES NET RTTY45 TX 200 -100 0 100 200 0 100 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

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### SBB

S	SSB S	SDC			TCI.	
		. SDC-Macro				IQ
			TCI.			SDC-
Macro		Macro		:		

SDC

SDC (Soft	ware Defin	ed Connectors	s v 15.19x64)	) * [C:/I	Users/ut4	lw/LwSoft/	coms	pider.ini]		—		×
ProFile Mgr C	OM Spider	Telnet Server	SKM Server	DIGI	Macro	RMT Server	ТСІ	Setup			Save	*
Start 👎				Profi	le: 🚺 5	M.pmacro		▼ 🞽	🚺 Ent	er Name		
Macro 1 - Start S TCI Client Receiver: External V Hook key	top Rec Vindow F1-F12	TCI Client 1 eiver 1 Stays On Top + +Ctrl =	☐ Min/Close t ☐ +Shift	 ■ ■ ■	Mace Start TCI Clie Receiver Exter Hook TY Dolo	ro 2 Stop ent r: rnal Window c key F1-F12	Receiv	TCI Client 1 ver 1 ▼ ays On Top Ctrl	→ □ Min/ □ +Sh	Close butto ift	▼ n	
Use In CV	V GI 🚺	Modem 1			Use I	In CW In DIGI In SSB		Modem 1				
Audio Level: Use TCP S Port:	Server 403	300 🗘 🌌		]	Audio L Vise Port:	evel: TCP Server	4030	1 🗘 🔊	• •	Log		

, SDC-Marco

SSB.

5MContest:

Настройки 5MContest	
SDC DIGI Server	💿 CAT Interface QTC 🚺 Cluster settings
Общие Установки С	W 💈 RTTY/PSK Settings 🕸 SSB/AM/FM settings 🙀 MMTTY 🛐 MMVARI
Use ESM Mode in contest	
CQ CQ-ESM-Phone SP -ESM-Pho	one
Enable CO-ESM-Phone	
CQ	Report TU B4 AGN
F1 v F3	▼ F6 ▼ F12 ▼ F8 ▼
Work #DUPE#	🔽 Clear Call
Move cursor in NUM after report	Set RIT 0 after TU
Repeat ∞[Call] in TU macros if call	
	رور سرر با رام بر مور سرر با رام بر
Tune step, Hz 200	OutPut sound device
	Sound Device
BandMap 1200	R1 Переназначение звуковых устр.
reaction (+/-) Hz	R2 Переназначение звуковых устр.
	SDC Macro server
Auto Local Spot by SPACE	R1 Addr 127.0.0.1 Port 40300
	<b>B2</b> Addr 127.0.0.1 Port 40301 1
	PAUSE 300 🐪 ms
L	

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## Пример использования программы совместно с LogHX



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### Установки в программе LogHX

Cluster - Localhost

SDC-Telnet Server

:

Control Teguer Teguer 2 Ocabost Machaeuro crotto Degurpervaeuro Apporto	
споты телнет телнет 2 воссы вся изоранные споты предупреждения Алноог	• •
Try connect to [127.0.0.1]       Spot from       ×         Connected to Localhost       Velcome to SDC Telnet Server       Localhost address       Port number         Please enter your callsign:       127.0.0.1       7373         UT4LW de SDC Server >       >       Log in promt       7373         DX de LW1+#:       3525.05 YT1T       1F0CW       Log in promt       7373         DX de LW1+#:       3523.35 DL5YL       3-0CW       Please enter your callsign:       1F0CW         DX de LW1+#:       3526.35 G3PJT       1F0CW       Replay       Spot from         DX de LW1+#:       3502.00 ER3MM       1F0CW       UT4LW       SDCSkimmer         DX de LW1+#:       3540.45 HA8LTQ       3-0CW       Spot suffix (Max 3 letter)       SDCSkimmer         DX de LW1+#:       3540.45 HA8LTQ       3-0CW       Spot suffix (Max 3 letter)       OK       Cancel	

LogHX - TCI

SDC, :
🔛 Устано	вки Радио				X
-CAT interfa	ce	Use radio Badio 1	CW/PTT for OmniR	ig interface only	
O HXCat in	nterface	O Radio 2	CW/PTT port type:	RadioPort	~
OmniRi <u>o</u> OmniRio	ninterface TCI Set	up		×	
(C) TCI	Address	localhost	Port	: 40001 🗘	
Уc	тановки 🗌 Shov	v Spots on Wate	rwall		
-Set Radion	ames Spot	olors			
CatHX1	CatHX Ra New	country	Not cfm band		PTT line
CatHX2	CatHX Ra New	band	Not need		V RTS V
OmniRig1	OmniRig F		OK Cancel		
OmniRig2	OmniRig Radio2		Time interval between	0 🛟 (	Auto COM-ports list
TCI	тсі		commands		
		OK	Отменить		(@) jdEarcenstilli
	Created with t	he Personal E	dition of HelpNDoc	: Easily creat	e Help documents

## Установки в программе SDC

SDC - TelnetServer :

SDC (Softw	are Defined Co	onnectors	s v 10.70x32) [C:/	Users/Yuri/L	wSoft/comspie	der.ini]				×
Telnet Server	SKM Server	TCI	Setup						Save	
Telnet Server [	0]		✓ Spots -> Pane	orama			Additional W	Vindows an	d Programs	
Stop			Default a     M     New B     Not C     Du	and Bypass Mo lult ✓ NewO Bnd ✓ NewB tifm ✓ NotCf upe Dup	de Color ty Color nd Color im Color e Color	<ul> <li>◆</li> <li>◆</li></ul>	<ul> <li>✓ Connect</li> <li>✓ Use Act</li> <li>✓ Use Bar</li> <li>✓ Use Bar</li> </ul>	t and Start : iSpot ndMap for R ndMap for R ndMap for R	SKM Server X1 X2 (minute)	
Port: 7373 🗘		Log	N1MM		12062 🗘 🖉	Log	·		. ,	
<ul> <li>Default Prof</li> <li>Special Prof</li> </ul>	ile: ile For 5MContes	4k- t ✔ 4k+	TCI+HRD.ptcp TCI+RBN.ptcp	• 🛃 🗙 • 🛃 🗙						
Start Spotters	e 🕂 –	•					Callsign: U	T4LW		
Spotter A										
Connect 🔩								✓ t	o Srv 📃 t	o Pan
Host: spider.ha	m-radio-deluxe.	com					: 800	00		•
Send:										Log
									) JelSar	
			LogHX	SDC-Tel	net Server.		"Teln	et Serve	er"	

,

LogHX. LogHX SDC-Telnet Server

, "Profile".

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### Пример использования программы с N1MM



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## CAT+PTT+CW

#### CAT, PTT, CW

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#### Виртуальные СОМ порты

CAT

. com0com: <u>https://code.google.com/archive/p/powersdr-iq/downloads</u>

: COM3-COM4, COM5-COM6, COM7-COM8, COM9-COM10.

COM

: SO2V SO2R.

Setup for com0com COM5 COM6 COM5 use Ports class 🔽 🗹 use Ports class ± COM6 emulate baud rate emulate baud rate enable buffer overrun enable buffer overrun 17 enable plug-in mode enable plug-in mode enable exclusive mode enable exclusive mode enable hidden mode enable hidden mode COM7
 RX -• RX ± COM8 TX 🖝 TX 🖶 DTR 🖝 DTR ÷ COM9 DSR 🖝 DSR DCD 🖶 DCD . in the second RTS -RTS . ±. COM11 CTS 🖝 CTS ± COM12 RI 📢 🔈 RI . Virtual Port Pair 5 OUT1 · OUT1 OUT2 😐 OUT2 ± COM14 OPEN 😐 OPEN ON Reset Add Pair Remove Apply

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#### Установки в N1MM

"Configurer"

"SO2R"

COM

:

			<b>N1</b> 7	7028,19	CW Exp	ertSDR Rad	dio 1							×
			File	Edi	t Viev	v Tools	Cor	nfig \	Window	Help				
				DU				Confi	gure Ports,	Mode Control	Winkey, etc			
			160	160				Chan	ge Your Stat	ion Data				
			80	80				Use Lo	ogger+ Aud	lio				
			40	40		🕨 🔿 Ru	in	Mana	ge translati	ons				
			20	20			~	Enter	Sends Mess	age (ESM mo	de)	C	Ctrl+M	
			15	15	F1 (	CQ	-	Spot A	All S&P QSC	)'s				
			10	10	F7 S	bare	~	QSYin	g Wipes th	e Call & Spots	QSO in Bandmap	(S&P)		
					Es	sc: Stop	-	Grab I	Focus From	Other Apps V	/hen Radio is Tun	ed		
					Hdg 1	15° LP		Do No	ot Automat	ically Switch to	Run on CQ Freq	uency		
					Call	histo	rĽ	Show	Non-Work	able Spots and	Dupes in Bandm	ар		
	-	_	'DXLo	oq Db' I	has been	optimized	4. <b>-</b>	Reset	RX Freq to	TX when QSO	is Logged (Run &	Split)	-	
🔛 Config	jurer							•						×
Hardware	Functio	n Keys	Digita	I Modes	Other	Winkey	Mode	Control	Antennas	Score Report	ng Broadcast Da	ta Audio	WSJ	• •
Port		Dadio			Diai (	W/Other	Deta	aile		0.000		0.000		
COME		Evport	+SDD				Den		2040			0 502	2	
COMO		Expen	ISUR	~			Set		3640	U,N,8,2,DTR=AI	ways Off, RTS=Alv	vays off, f	X=1	
COM4		None		~		<u> </u>	Set	t	DTR=	CW,RTS=PTT,T	x=1			
COM8	~	Expert	tSDR	~			Set	t	3840	0,N,8,2,DTR=AI	ways Off,RTS=Alv	vays Off,T	x=2	
COM10	~	None		~		≤	Set	t	DTR:	CW,RTS=PTT,T	x=2			
None	~	None		~			Set	t						
None	~	None		$\sim$			Set	t						
None	~	None		$\sim$			Set	t						
None	~	None		~			Set	t						
LPT1					I		Set	t i						
LPT2					I		Set	t						
LPT3					I		Set							
						<b>.</b>								
				JK		Cancel				Help				

COM6, CAT

"Set" : 1-

Kan Config	urer														>	<
Hardware	Functio	n Keys	Digital Mod	les Ot	ther	Winkey	Mode Control	A	ntennas	Score Rep	orting	Broadcast	Data	Audio	WSJ 1	·
Port		Radio	SDD	Digi	cw	/Other	Details		Com6							×
COM4	~	None	SDR				Set		Speed 38400	~	N DTC (	~	8	iBits ~	2 Dadia M	~
COM8 COM10	~	None	SUR				Set		Alway	ın 4) sOff ∨	Alway	ysOff ∨	Doth U		Left Win	dow
None	~	None					Set			w ext inter	rupts	PTT via	Radio Radio Radio	Comman Comman	d SSB Mod d CW Mode	e PTT le e
None LPT1	~	None					Set			-	Fo	otSwitch (p	in 6)	Comman	u Digital Mc	iue
LPT2 LPT3							Set		Radio F Normal	Polling Rate	INC	iiie	~			
							361		Suggest 56700, N	ed Expert S I, 8, 1, DTR:	DR Sett =Alway	ings: s Off, RTS=	Alwa	/s Off or	CW or PTT	
									Help					ОК	Can	cel
			ОК		Са	ncel				Help						

COM4, PTT CW 1- :

Config	gurer										×
Hardware Port COM6 COM4 COM8 COM10 None None None LPT1 LPT2 LPT3	Functi	on Keys Radio Expert None None None None None	Digital Modes	Other           Digi         C	Winkey W/Other C C C C C C C C C C C C C C C C C C C	Mode Control Details Set Set Set Set Set Set Set Set Set Set	Antennas Com4 DTR (pin 4 CW PTT Delay 30 Allow WinKe Two Radio None	Score Reporting Solv Solv A) RTS (pin PTT (msec) ext interrupts b) Protocol Foots V Norm	Broadcast Data O SO2V 7) V Switch (pin 6) aal V	Audio SO2F	Radio Nr
			ОК		Cancel	]	Help	Help	[	ОК	Cancel

COM8, CAT 2- :

Kan Config	jurer												×
Hardware	Functio	n Keys	Digital Modes	Other	Winkey	Mode Control	Antennas	Score	Reporting	Broadcast	t Data A	udio V	NSJ 1
Port		Radio		Digi C	W/Other	Details		0	S01V	○ so2v		SO2R	
COM6	~	Expert	SDR 🗸			Set	Com8						×
COM4	~	None	~		$\overline{}$	Set	Speed		Parity	D	ataBits	Stop	o Bits
COM8	~	Expert	SDR 🗸			Set	38400	~	N	~ 8	~	/ 2	~
COM10	~	None	~			Set	DTR (pin 4	)	RTS (pin )	7)		Ra	adio Nr
None	~	None	~			Set	Always 0	ff ∽	Always 0	Off ∼		2	~
None	~	None	~			Set				Enable Both	h Hardwar	Rigi re & So	ht Window ftware PTT
None	~	None	~			Set				PTT via Rad	dio Comma	and SSB	Mode
None	~	None	~			Set	Allow	ext inter	rupts	PTT via Rac PTT via Rac	dio Comma dio Comma	and CW and Digif	Mode tal Mode
LPT1				[		Set			E	uitati (aia 0		2	
LPT2				[		Set			None	witch (pin 6	)		
LPT3				[		Set	Radio Pollir	na Rate	None				
							Normal	v Nate					
							Suggested F	vnert S	DR Setting	2.			
							56700, N, 8,	1, DTR:	Always O	ff, RTS=Alv	vays Off o	or CW o	r PTT
							Help				0	ĸ	Cancel
			OK		Canaal			Hale					
			UK		Cancer			пер					

COM10:

Config	urer										×
Hardware	Functio	on Kevs	Digital Modes	Other	Winkey	Mode Control	Antennas	Score Reporting	Broadcast Data	Audio	wsj
Port COM6 COM4	~	Radio Expert None	SDR 🗸	Digi C	W/Other	Details Set Set	Com10				×
COM8 COM10 None None	> > > >	Expert None None None	SDR		] 2 ] ] ]	Set Set Set Set	CW PTT Delay 30		▼ ▼		Radio Nr 2 Right Window
None LPT1 LPT2 LPT3	~	None	~			Set Set Set	Two Radii None	v Protocol Foot	Switch (pin 6) e 🗸		
							Help	]		OK	Cancel
			ОК		Cancel	]		Help			

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### Установки в ExpertSDR2

CAT 1- :

Options											-	- [		×
Device Sound card	VAC Display	y CAT	Panel	Features	 ExpertSync	CW Skimmer	Shortcuts	IQ Recorder	TCI	Spot settings				
Protocol: ECATv1 V														
			Enable	ртт										
Port name:	°0M5	L	Port na		/13									
Parity:	lone	-	i ore na											
Data: 8	}	<b>-</b>		RTS										
Stop bit: 1			Enable	Footswitcl										
Baud rate: 3	8400	•	Port na	me: CON	413 🔻									
PTT line: 🛽	lone	-		DTR 🗌										
Key line: 🛽	lone	-		rts 🗹										
Enable SubRX cont	rol (FR comm	iand)												
Antenna switch cor	ntrol													
Global volume cont	rol													
									Global	Default	Apply		ОК	
									Global	Default	Apply		OK	
CAT 2-	:								Global	Default	Apply		OK	
CAT 2-	:								Global	Default	Apply –	. [	ОК	
CAT 2- (a) Options Cons Device Sound card	S Display	y CAT	Panel	Features	ExpertSync	: CW Skimmer	Shortcuts	<u>छछ</u> IQ Recorder	Global TCI	Default Spot settings	Apply –	- [	ОК	;
CAT 2- (e) Options Device Sound card	: S J	y CAT	Panel	Features	ExpertSync	: CW Skimmer	Shortcuts	<u>छछ</u> IQ Recorder	Global TCI	Default Q Spot settings	Apply —	- [	ОК	
CAT 2- (a) Options Certification (Constraints) Device Sound card Protocol: ECATv1 ▼ RX 1 RX 2	: VAC Display	y CAT	Panel	Features	ExpertSync	: CW Skimmer	Shortcuts	Q Recorder	Global	Default Spot settings	Apply –	. (	ОК	
CAT 2- (a) Options Cons (b) Options (c)	: VAC Display	y CAT	Panel Enable	Features	ExpertSync	: CW Skimmer	Shortcuts	QQ IQ Recorder	Global	Default Spot settings	Apply –	- (	ОК	
CAT 2- (e) Options Device Sound card Protocol: ECATv1 RX 1 RX 2 RX 1 RX 2 Port name: C	ST S	y CAT	Panel Enable Port na	Features PTT ame: CON	ExpertSync	CW Skimmer	Shortcuts	Q. Recorder	Global	Default Spot settings	Apply –	- (	ок ]	
CAT 2- (e) Options Device Sound card Protocol: ECATv1 → RX 1 RX 2 RX 1 RX 2 Port name: C Parity: N	VAC Display	y CAT	Panel	Features PTT DTR	ExpertSync	CW Skimmer	Shortcuts	Q Recorder	Global	Default Spot settings	Apply –	- (	OK	
CAT 2- (a) Options → (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	COM7	y CAT	Panel Enable Port na	Features PTT mme: CON DTR RTS V	ExpertSync	CW Skimmer	Shortcuts	QQ IQ Recorder	Global	Default Spot settings	Apply –		ок 	
CAT 2- (e) Options Device Sound card Protocol: ECATv1 → RX 1 RX 2 ✓ Enable CAT Port name: C Parity: M Data: 8 Stop bit: 1	COM7	y CAT	Panel Panel Port na	Features Features PTT mme: COM DTR □ RTS ☑ Footswitc	ExpertSynce 13	CW Skimmer	Shortcuts	IQ Recorder	Global	Default Spot settings	Apply –	- (	ок 	
CAT 2- (e) Options Device Sound card Protocol: ECATv1 → RX 1 RX 2 FX 1 RX 2 Port name: Protocol: CAT Port name: Baud rate: 2	COM7 Ione 88400	y CAT	Panel Panel Port na Enable Port na	Features Features PTT DTR □ RTS ☑ Footswitcl arme: CON	ExpertSynce 43	CW Skimmer	Shortcuts	Q Recorder	Global	Default Spot settings	Apply –	· [	ок	
CAT 2- ③ Options Device Sound card Protocol: ECAT∨1 ▼ RX 1 RX 2 ▼ Enable CAT Port name: Port name: Baud rate: 3 PTT line:	COM7 Ione 8400 Ione	y CAT	Panel Panel Port na Enable Port na	PTT mee: CON DTR CON Footswitcl mee: CON DTR CON	ExpertSyno 13	CW Skimmer	Shortcuts	Q. Recorder	Global	Default Spot settings	Арріу —		OK	
CAT 2- (e) Options Device Sound card Protocol: ECATv1 → RX 1 RX 2 ✓ Enable CAT Port name: Parity: Data: Stop bit: 1 Baud rate: PTT line: Key line:	COM7 Ione 18400 Ione	y CAT	Panel Panel Port na Port na	Features PTT arme: CON DTR □ RTS ♥ Footswitcl arme: CON DTR □ RTS □	ExpertSynce A13	CW Skimmer	Shortcuts	IQ Recorder	Global	Default Spot settings	Арріу —		ок 	
CAT 2- (e) Options Device Sound card Protocol: ECATv1 → RX 1 RX 2 Port name: ( Parity: N Data: (B Stop bit: 1 Baud rate: 3 PTT line: N Key line: N	COM7 VAC Display	y CAT	Panel Panel Port na	Features Features PTT DTR TS Footswitcd TR CON DTR RTS CN RTS	ExpertSynce A3	CW Skimmer	Shortcuts	IQ Recorder	Global	Default Spot settings	Apply -		ок 	
CAT 2- (e) Options Device Sound card Protocol: ECAT∨1 → RX 1 RX 2 → Enable CAT Port name: ( Parity: ( Data: ( Stop bit: 1) Baud rate: ( PTT line: ( Key line: ( Cardinational contents)	COM7 Lone Baton Lone Lone Lone Lone Lone Lone Lone Lo	y CAT	Panel Panel Port na Port na	Features Features PTT mme: COM DTR □ Footswitcl mme: COM DTR □ RTS □	ExpertSyno 43	CW Skimmer	Shortcuts	IQ Recorder	Global	Default Spot settings	Apply		ок 	
CAT 2- (e) Options Device Sound card Protocol: ECATV1 → RX 1 RX 2 ✓ Enable CAT Port name: Parity: Data: Stop bit: 1 Baud rate: PTT line: Key line: Cardian SubRX cont	COM7 Ione 18400 Ione Ione Ione Ione	y CAT	Panel Panel Port na	Features PTT ame: CON DTR Footswitch ame: CON DTR RTS RTS	ExpertSynce A13	CW Skimmer	Shortcuts	IQ Recorder	Global	Default Spot settings	Арріу —		ок -	
CAT 2- (e) Options Device Sound card Protocol: ECATv1 → RX 1 RX 2 ✓ Enable CAT Port name: Parity: Data: Stop bit: Baud rate: PTT line: Key line: ✓ Enable SubRX cont	COM7 Ione Ione Ione Ione Ione Ione Ione Ione	y CAT	Panel Panel Port na	Features Features PTT DTR □ RTS ☑ Footswitcl ame: CON DTR □ RTS □	ExpertSynce A3	CW Skimmer	Shortcuts	IQ Recorder	Global	Default Spot settings	Арріу —		ок 	

Global Default Apply

ОК

PTT+CW:

Options		– 🗆 X
🔚 🜒 📑 📮		
Device Sound card VAC Display	CAT Panel Features ExpertSync CW Skimmer Shortcuts IQ Recorder TCI Spot settings	
Device: SunSDR2		
SDR Address: 192.168.16 .200 SDR Port: 50001 Sample Rate: 78125 Discover SDR Info Disable audio output Use wide RX filter Auto enable Use VHF LNA Use external reference	VOX       DSP       TX       CW       Ext Ctrl       Expert         RX1       RX2       □       Enable Additional Key         Port name:       COM3       •       □       Dash: DTR       OTR         Dot:       RTS       Dash:       DTR       Dot:       RTS       •         Port name:       COM3       •       □       Dash:       DTR       •       Dash:       DTR       •         Port name:       COM3       •       □       Enable       Secondary Key       Port name:       COM9       •         Port name:       COM3       •       Port name:       COM9       •       PTT line:       RTS       •       FTR       •       Key line:       DTR       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •	
	Global Default Ap	ріу ОК

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## Соединение SDC и ExpertSDR2

SDC	ExpertSDR2	<u> </u>

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## Подключение N1MM к SDC-Telnet Server

SDC-Telnet Server N1MM	,
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#### Установки в программе SDC

In the SDC-Telnet Server, enter the server port number 7373 and press "Start".

SDC (Software Defined Connectors v 12.2117x64) [C:/Users/Yuri/LwSoft/comspider.ini] — □									
Telnet Server SKM Server TCI Setup		Save 📩 🚺							
Telnet Server [0]	Spots -> Panorama  Default and Bypass Mode Color	Additional Windows and Programs							
Stop	Mult     NewCty Color       New Bnd     NewBnd Color	Use ActiSpot Use BandMap for RX1 Use BandMap for RX2							
Port: 7373	Not Cfm NotCfm Color (%) Dupe Dupe Color N1MM 127.0.0.1 12165	3 . Spot lifeTime (minute)							

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#### Установки в N1MM

N1MM "Window" "Telnet". "Edit List". 7.0.0.1:7373. " ".		"Telnet". "SDC",	"Cluster" "URL" -
Telnet		_	
ne ·		Reconnect	
W Clusters Bands/Modes Filters Spot Comment BandPlans			<b>T</b>
Select from live Cluster List on website		Options	
	abu -	Logon with	
	l	JT4LW	
Enable live Cluster List access and opt-in to data collection			
- or -		Automatically Logon	
Select from stored Cluster List on local disk		Format for DXSpider Cluster	
		Show Telnet Buttons	
LY2Z0-10 V Edit	List		
then	3	Cluster Keep Alive Interval (minutes	
- uncil -	🔛 Edit Telnet List		
	File		
Connect to LY2ZO-10	Cluster Name	URL	
	WU3V	WU3V.DYNIP.COM	
	XE2AU	XE2AU.ORG	
	YV5LIX	YV5LIX.ORG.VE:9000	
	ZL2AQY-10	ZL2AQY.ATH.CX:9000	
	GB7DXG	GB7DXG.SHACKNET.NU:73	01
	RK6EWX	217.106.86.202:7300	
	RK2FWA	212.44.71.130:8000	
	EA7URG-5	80.36.72.248:8001	
	n4zr	24.126.38.27:7300	
	localport	127.0.0.1:7300	
	RBN	telnet.reversebeacon.net:70	000
	load test	24.236.135.46:7373	
	NC7J	dxc.nc7j.com:23	
	SDC	127.0.0.1:7373	
	•		
	To delete a row, click	on the leftmost column and press the delete	key. Ok Ca
	(The Townshot a leaf	101.j	

"SDC"

"Connect to SDC":

N Telnet	- 0	$\times$
Type:	Reconnect	<b></b>
SDC Clusters Bands/Modes Filters Spot Comment BandPlans		
Select from live Cluster List on website EU only Enable live Cluster List access and opt-in to data collection - or - Select from stored Cluster List on local disk SDC - then - Selected Cluster Connect to SDC	Options Logon with UT4LW Automatically Logon Format for DXSpider Cluster Show Telnet Buttons Cluster Keep Alive Interval (minutes)	

"SDC"		,	"SDC-Telnet Server"	[1] -
	•			

21 Telnet − □ × 8° LP									
ype: Reconnect									
SDC Clusters Bands/Modes Filters Spot Comment BandPlans									
Connecting to: 127.0.0.1:7373> 127.0.0.1:7373									
Welcome to SDC Telnet Server									
Please enter your callsign: (S) SDC (Software Defined Connectors v 12.2117x64) [C:/Users/Yuri/LwSoft/co									
UT4LW									
DV do SVM1 #+ 4EE083 8 VVOVV [Telnet Server [1] Spots -> Panorama									
DX de SKMI-#. 455085.8 XX9XXX Default and Bypass Mode									
Mult NewCty									
Stop 🔤 New Bnd NewBnd									
Not Cfm Not Cfm									
< Dupe Dupe C									
BYE CONN DVN Port: 7373									
Clear NE Yes DX NE only Default Profile: 3k-TCI+HRD.ptcp V									
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:

Добавление внешних кластеров в SDC-Telnet Server

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SDC (Software Defined Connectors v 12.	2117x64) [C:/Users/Yuri/LwSoft/comspide	r.ini] — 🗆 🗙
Telnet Server SKM Server TCI Setup		Save 📩 🚺
Telnet Server [0]	Spots -> Panorama         ▶       Default and Bypass Mode Color         Mult       NewCty Color         New Bnd       NewBnd Color         Not Cfm       NotCfm Color         Dupe       Dupe Color         N1MM       127.0.0.1       12165	Additional Windows and Programs Connect and Start SKM Server Use ActiSpot Use BandMap for RX1 Use BandMap for RX2    Spot lifeTime (minute)
Default Profile:     N1MM.p      Special Profile For 5MContest      3kTCI+	ntcp 🛛 🔀 🙀 N1MM	,`
Start Spotters	▼ to Srv ▼ to Pan Color : 7000 Log Send:	Callsign: UT4LW B Callsign: v to Srv v to Pan Color er.ham-radio-deluxe.com Color Co

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#### Подключение к SDC SKM Server

Log 📃

Port: 7373

SDC Telnet S N1MM SDC, Tel Server .:	erver " Inet Server	Connect and Start SKM Serve	ər". SKM-
SDC (Software Defined Connectors v 12 Telnet Server SKM Server TCI Setup	2.2117x64) [C:/Users/Yuri/LwSoft/com	ispider.ini]	- C X
Telnet Server [0]	Spots -> Panorama Default and Bypass Mode Co Mult NewCty Co New Bnd NewBnd Co	Additional Windows	and Programs Start SKM Server for RX1 for RX2

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12165 🙀 🚰 🗌 Log

Dupe Dupe Color

3 🛟 Spot lifeTime (minute)

### Настройка SDC SKM-Server

SDC-SKM Server ( "+") "N1MM".



Server].

CW

1

,

SDC-SKM Server -> [Start SKM , "A:"





AL SET >> SR T >> R0 >> R >> R*RORTROWEF R0 >> R >> K01>*R0TRT >> DE FSIN OT FRX >> FSIN "RAGA359 S55559 HAVE MIKE RUR RUTC = KESIN K01>* >> KOKK >> RORMINI >> K> ** (RAST >> RST >> SE >> S >> 69 >> 5 >> 69 >> _* OP >> E0 PIS >> V >> I >> C = >>			1403 1401 1401 1401 1401 1401
	_	500 12/AUTO	0/13(37) 101
BS ANT • RX ANT • PA 😱 MEM Volume: (1) Mon: MON •			2
Q RF:	Drive:	Tune:	Speed
58 LS8 USB CW NFM DIGL DIGU WFM DRM 160M 80M 40M	30M 20M 17M	1 15M	12M 10M 6
	-102.7dBm -120 54 S1	0 -100 S3 S5 S7	-80 -60 -4 7 S9 +20
▼ Step: 10 Hz ▼ R.EQ T.EQ BIN NR NB1 NB2 APF NF NF+ DSE			0 100 250 400 500
RX 1X 18 990.0 Hz 55 55			

SKM Server.

,

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#### Передача спотов на панораму ExpertSDR2

ExpertSDR2

"Show Spots"

.

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Options		
Device Sound card VAC Di	splay CAT Panel Features Expe	rtSync CW Skimmer Shortcuts IQ Recorder TCI
Main Spectrum Waterfall	I Grid Filter Background 1	Indicators
FFT size: 16384 ▼ Averaging type: Linear ▼ Averaging num: 12 ♀ Update period: 17 ms ♀	Render mode         Lines         Line color:         Fill color:         Fill transparency:	<ul> <li>Show bands</li> <li>Save limits for each band</li> <li>Save zoom for each band</li> <li>Zoom center follows VFOA</li> <li>Animation</li> <li>Show cursor info</li> <li>Show the difference between VFOA and VFO</li> <li>Auto hide cursor</li> <li>Show stations from Memory panel</li> <li>Show spots</li> <li>Automatic split disable</li> <li>Show broadcast HE bands</li> </ul>



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#### Установки в N1MM

N1MM,

"Broadcast Data",

"Spots":

🞇 Config	urer										×
Hardware	Function Keys	Digital M	odes	Other	Winkey	Mode Control	Antennas	Score Reporting	Broadcast Data	Audio	WSJ • •
Select Use 12 255 in	the type of data 27.0.0.1 for the lo the low order oc	you wish cal mach tet will br	to bro ine. Us oadcas	adcast, se 12060 st to you	and the th ) as the po r current s	e IP Address(es ort unless the re subnet.	) and port(s ceiving appl	) for the receiver(s ication requires a d	) of the data. lifferent port.		
Type of o	lata		IP Add	r:Port IP/	Addr:Port.						
	cation Info		127.0	.0.1:120	60					]	
Radio			127.0	0.1:120	61					1	
										1	
Conta	cts 📃 All Com	puters	127.0	.0.1:120	60					]	
Spots	i		127.0	.0.1:120	63 127.0.0	0.1:12065					
			127.0	0.1.120	40						
Roton			121.0	.0.1.120	10					]	
Score	•		127.0	.0.1:120	60					]	
Exter	nal Callsign Looki	up	127.0	.0.1:120	60					1	
										1	
		ок		(	Cancel	]		Help			

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## Установки в программе SDC

1 -	(	"to	N1MM (by Pan")	vpass).
		(	).	

#### ExpertSDR2.

, "Spots -> Panorama"

ら SDC (Software Defined Connectors v 12.2117x64) [C:/Users/Yuri/LwSoft/comspider.ini] Save 📩 🔌 Telnet Server SKM Server TCI Setup Additional Windows and Programs -Telnet Server [1] -🗹 Spots -> Panorama — Connect and Start SKM Server Default and Bypass Mode Color ۱ Mult VewCty Color Use BandMap for RX1 <u>s</u> Stop New Bnd VewBnd Color New Bnd 🛃 New Use BandMap for RX2 🔹 Dupe 🗹 🛛 Dupe Color 3 📜 Spot lifeTime (minute) 12065 📫 🚰 🗌 Log N1MM 127.0.0.1 Port: 7373 Log 📃 💌 🛃 💥 N1MM 2 Default Profile: - 📓 🗙 Special Profile For 5MContest 3k\_DIGI\_3x3.ptc Callsign: UT4LW Stop Spotters 📑 + = Spotter A – 🛃 Spotter B -🗹 to Srv 🗹 to Pan Color 2404 🕑 to Srv ✔ to Pan Color Connect 🚿 Connect 🚿 81 Host: TELNET.REVERSEBEACON.NET Host: spider.ham-radio-deluxe.com 🗌 Log 🗌 Log Send: Send: Questions about the WA9P1E-2 Global DX Spotting Network email: mike@wa9pie.net Nodes: 25/439 Clr - Users: 525/3793 Clr Max: 817/5626 Clr -Uptime: 20d 11b 50m Uptime: 20d 11h 50m UT4LW de WA9PIE-2 7-Sep-2020 1054Z dxspider >

2 -	"\\14\4\4\4"	N1MM.			N1MM	
	"Mult Dupo"			4		
30	MultDupe -		, N1MM,		י. "נ פרר	oypass".
	. ,		"Mult""Dupe",	,	3DC,	
		•	,		•	

SDC (Software Defined Connectors v 12.2117x64) [C:/Users/Yuri/LwSoft/comspider.ini] Save 📩 🔌 Telnet Server SKM Server TCI Setup Additional Windows and Programs -Telnet Server [1] -🗹 Spots -> Panorama Connect and Start SKM Server Default and Bypass Mode Color Mult 🗹 NewCty Color Use BandMap for RX1 Stop J. New Bnd 🛃 Ne Use BandMap for RX2 Not Cfm 🔽 NotCfm Color . Dupe 🗹 Dupe Color 3 📜 Spot lifeTime (minute) Port: 7373 Log 📃 ▼ N1MM 127.0.0.1 12065 🚽 🗌 Log . 🛃 💥 N1MM =0 Default Profile: Special Profile For 5MContest 3k\_DIGI\_3x3.ptcp - 🖬 🗙 Callsign: UT4LW Stop Spotters 📑 + =🗹 Spotter A – 🛃 Spotter B ✔ to Srv ✔ to Pan Color Connect 🚿 2956 🛃 to Srv 🛃 to Pan Color Connect 🚿 106 Host: TELNET, REVERSEBEACON, NET Host: spider.ham-radio-deluxe.com 🗌 Log 🗌 Log Send: Send: UT4LW de SK1MMR-3 07-Sep-2020 10:54Z > Uptime: 20d 11h 50m UT4LW de WA9PIE-2 7-Sep-2020 1054Z dxspider >

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### **Focus Helper**

"Focus Helper" N1MM
. \_\_\_\_\_ TCI.
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### Пример использования SKM Server без программы лога

SDC

CW

SDC:

SDC (Soft	ware Defined	Conne	ectors v 10.3	321) [(	C:/Users/Yuri/LwSoft/comspid	ler.ini]	—	
SKM Server	TCI Setu	ıp						Save
Style Fusio	n			•	Set Font		Russian Help fi	e 🔻
		Set no	-kill window	✓				
Move	e to SysTray on	Start o	or Minimized	✓				
	U	se Prof	File Manager					
		Use	COM Spider		Auto Start COM Spider			
		ι	lse Rig Sync		Auto Start RigSync			
		Use T	elnet Server		Auto Start Telnet Server			
		Use	SKM Server	<b>v v</b>	Auto Start SKM Server			
	Use Au	idio Ch	annel Client		Auto Connect Audio Channels			
		Use Re	mote Server		Auto Start Remote Server			
		Use	Audio Mixer		Auto Start Mixer			
		USE			Auto Start PA Control			
			USE TCI	V				
							jelstere	y) enstitt

Connect	ø	Work.		
Name	TCI Client 1	]		
Host	Localhost	 Port	40001 🌲	
✔ Log				
split_enal rit_offset rit_offset xit_offset xit_offset audio_sto audio_sto iq_sampl iq_start:0	ble:1,false; :0,0; :1,0; :0,20; :1,0; :1,0; :1,0; :1,0; :1,0; :1,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0; :2,0		•	

SDC (Software Defin	ed Connectors v 10.7	73x64) [C:/Users	s/Yuri/LwSoft/	/coms —	
ProFile Mgr Telnet Se	rver SKM Server	PA TCI	Setup		Save 🔀 🔌
Start SKM Server	+ - Profile: 4	k-2Skm_TCI.psk	:m 🔹	*	
With	Abbreviation Test Only	y:			<b>\$</b>
Skimmer 1					
Start		Status: Stop			
	S S	etup Skimmer	1	×	102
		in External Windo	w 🗌	Stays On Top	102
	Contr	rol type TCI	Only	•	)81
	TCI O	Client	Ω TC	I Client 1 💌	
	Recei	iver	Re	ceiver 1 🔹	)80
	Spott	ter Name: LW1	-#		)79
	Т	CP Server			
		Enabled S	top When Disc	onnect	)78
	Pol	rt: 7701	L	▲ ▼ -	177
	Exter		)76		
		Decode only VEO		I VFOB	)75
		O - Band Plan co	ntrol		174
•				=	J74
					jetSareenstill

ExpertSDR2:



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## Пример создания удаленного рабочего места

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TeamViewer. ,

ExpertSDR2

SunSDR2.

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#### Звуковые каналы

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		***		
Spider Telnet Server Audio Channels Setup	Save Settings About	Profile: 2Audio.psrv 🔻		
		<b>_</b>		Save Settings
✓ Audio Channel 1		Audio Channel 1		Save Settings
Connect		Audio Server Start Server	Closed	Port: 7343
Host: 192.168.1.106 Port: 7343		Output: Driver:	Windows WDM-KS 🔻	Add Block: 4
Input Driver: MME 💌		Device:	Virtual Cable 4	▼ Mono ▼
✓ Input: Микрофон (Cirrus Logic CS4206А ▼ Мопо ▼		Input Device:	Driver:	MME 🔻
Output Driver: ASIO   Add Block: 3		Device:	Line 8 (Virtual Audio Cable)	▼ Mono ▼
V Output: ASIO4ALL v2 V Mono V		Sample: 44100 🔻	Size: 16 💌	Buffer: 2048 🔻
Sample: 44100 • Buffer: 2048 • CW Force: 8 •		To Skimmer Port 7302	Your Call UT4LW	Wai(@) jelescenski)
« » ,« »		«SC»		ExpertSDR2.

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### СОМ порт «дома»

roFile Manager COM S	pider T	elnet Server	Audio Ch	annels	Setup			Save Se	ttings	Abo
Start		Profile:	Au1.psp	d	-	× 🗹				
Port A				✓ Por	tВ					
Port Property				Port Pr	roperty					
Device	5MCo	ntest			Device		ESDR2			
<b>*</b>	Real	COM 1	-		-		Remote	Audio	•	
Port	COM	5 <sup>,</sup>	-		Port		RMT1		-	
Rate 115200 🔻	Data	8	-		Latency		100		\$	
Par-y None 💌	StopB	1	-		Audio cnl		Audio 1		-	
FootSwitch					Sync					
Sync					View	Log				
View Log				Send D	Data to					
end Data to					✓ 5MCo	ntest				
Send DTR/RTS to				Send [	OTR/RTS to	•				
SDR2					5MCo	ntest				ア
									Jane	InY-1

«Remote Audio»

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Argument: s/Yuriy	/AppData/Roaming/Afr	eet/Products/CwSkin	nmer2/MyIniFile3.ini Start
Auto load CW S	kimmer When Audio Se	rver Start	
+ -			
LAN-COM Interfac	e 1		
Start	Server Closed		
Type Port	Audio 1 👻		
To COM Port	COM13 -	Foot Switch to	COM11 ▼ 0 ‡
BaudRate	19200 👻	Data bits	8 👻
Parity	None 👻	Stop bits	1 -
CW by CAT			View Log

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# Автозагрузка программы SDC (Windows)

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",

📧 Выполнит	оо 7.010 <sup>с129.8 и</sup> 7.020 Х
	Введите имя программы, папки, документа или ресурса Интернета, которые требуется открыть.
<u>О</u> ткрыть:	shell:startup ~
	ОК Отмена Об <u>з</u> ор
	O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O

Windows+R, " ". shell:startup Ok:

SDC.

📙    🛃 📙 🗸    Автозагр	узка				– 🗆 X
Файл Главная По,	делиться Вид				^ (
Закрепить на панели Копир быстрого доступа	ровать Вставить Вставить ярлык	Переместить Копировать В * В * Удалить Переии	новать Новая папка	Свойства • Хурнал	Выделить все Снять выделение Обратить выделение
Бу	уфер обмена	Упорядочить	Создать	Открыть	Выделить
$\leftarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ $\blacksquare$ $\ll$ Wi	indows > AppData > Roaming > Mi	crosoft > Windows > Главное меню > Пр	ограммы > Автозагру	зка 🗸 🖑	Лоиск: Автозагрузка
🔹 Быстрый арстия	Имя	Дата изменения	Тип	Размер	
Рабочий стол *	ℬ SDCx64	24.03.2018 21:57	Ярлык	1 КБ	
🖊 Загрузки 🖈 📄 Документы 🖈					
📄 Изображения 🖈					
Cabrillo					
Projects					

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SDC (Software Defined Connectors v 12.21	b32x64) [C:/Users/Yuri/LwSoft/com	spider.ini]	- 🗆 🗙
ProFile Mgr Telnet Server SKM Server	PA SWR TCI Setup		Save 🔀 🚺
Style Fusion	Set Font	Russian Help file 🔻	
Set no-kill window			
Move to SysTray on Start or Minimized		SDC Site SDC Group	
Use ProFile Manager	<u> </u>	Registration UT4LW	
Use COM Spider	Auto Start COM Spider		
Use Rig Sync	Auto Start RigSync		
Use Telnet Server	✔ ✔ Auto Start Telnet Server		
Use SKM Server	✓ ✓ Auto Start SKM Server		
Use Audio Channel Client	Auto Connect Audio Channels		
Use Remote Server	Auto Start Remote Server		
Use Audio Mixer	Auto Start Mixer		
Use Audio Scope	Auto Start Audio Scope		
Use PA Control	🗸 🗸 Auto Start PA Control		
Use SWR Meter	V		
Use TCI [	V		

Style – Set no-kill window –

Move to SysTray on AutoStart or Minimized –

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# Стили интерфейса

"Fusion":

SDC (Soft	ware Defined Co	onnectors v 10.	73x64)	[C:/User	s/Yuri/Lw	Soft/coms			×
ProFile Mgr	Telnet Server	SKM Server	РА	TCI	Setup			Save	
Style Fusio	n		•		Set Font		Russian I	Help file 🔻	
	Set	t no-kill window	✓						
Move	e to SysTray on Sta	art or Minimized	✓						
	Use	ProFile Manager	✓				Regi	stration	T4LW
		Use COM Spider		Auto Sta	art COM Sp	oider			
		Use Rig Sync		Auto Sta	art RigSync	:			
	Us	se Telnet Server	<b>v v</b>	Auto Sta	art Telnet S	Server			
		Use SKM Server	<b>v v</b>	Auto Sta	art SKM Sei	rver			
	Use Audio	o Channel Client		Auto Co	nnect Audi	io Channels			
	Use	e Remote Server		Auto Sta	art Remote	Server			
	U	Jse Audio Mixer		Auto Sta	art Mixer			6	0
		Use PA Control	JJ	Auto Sta	art PA Cont	trol		jeisa	reenshiik

" ":

SDC (S)	(Software Define	d Connector	s v 10.73:	x64) [C:/	Users/Yuri/LwSoft/c	oms —	
ProFile M	gr Telnet Server	SKM Server	PA TCI	Setup			Save 📩 🔌
Style	Night Style		•		Set Font	Russian Help	o file 🔻
		Set no-kill w	indow 🗹				
	Move to SysTray o	n Start or Mini	mized 🗹				
	l	Use ProFile Ma	nager 🗹			Registrat	ion UT4LW
		Use COM S	Spider 🗌	🗌 Auto S	Start COM Spider		
		Use Rig	g Sync 🔲	🗌 Auto 🤅	Start RigSync		
		Use Telnet 9	Server 🗹	🗹 Auto S	Start Telnet Server		
		Use SKM S	Server 🗹	🗹 Auto	Start SKM Server		
	Use A	udio Channel	Client 🔲	🗌 Auto (	Connect Audio Channe	els	
		Use Remote 9	Server 🗌	🗌 Auto 🤅	Start Remote Server		
		Use Audio	Mixer 🗌	🗌 Auto 🤅	Start Mixer		
		Use PA C	ontrol 🗹	🗹 Auto 🤄	Start PA Control		
		Us	se TCI 🗹				jetScreenstiät

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## Регистрация программы

- SKM Server	: SDR ,	TCI
<u>SDC</u>	, <u> </u>	
SDC (Software Defined Connectors v 12.2117x64) [C:/Use Telnet Server SKM Server TCI Setup	ers/Yuri/LwSoft/comspider.ini]	– 🗆 X Save 🙀 🚺
Style: Fusion   Set Font	SDC Site SDC Group	Russian Help file 🔻
Set no-kill window 🗸 Move to SysTray on Start ✔	Callsign: UT4LW Key:	•••••
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# Обновления программы

<u>\_\_\_\_\_SDC</u> " ".

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SDC (Software Defined Connectors v 12.2117x64) [C:/Users/Yuri/	LwSoft/comspider.ini] — 🗆 X
Telnet Server SKM Server TCI Setup	Save 🔀 🚺
Style: Fusion   Set Font	Russian Help file 🔻
Set no-kill window ✔ Move to SysTray on Start ✔	Pregistration Callsign: UT4LW
Use ProFile Manager	Check for new version at startup SDC
Use COM Spider 📃 🗌 Auto Start COM Spider	Check Beta Version
Use Rig Sync 📃 📄 Auto Start RigSync	Deck New Version
Use Telnet Server 🔽 ✔ Auto Start Telnet Server	Latest version installation log:
Use SKM Server 🔽 🗸 Auto Start SKM Server	New version not found!
Use Audio Channel Client 📃 🗌 Auto Connect Audio Channels	
Use Remote Server 📃 📃 Auto Start Remote Server	
Use Audio Mixer 📃 📃 Auto Start Mixer	
Use Audio Scope 📃 📃 Auto Start Audio Scope	
Use PA Control 📃 🗹 Auto Start PA Control	
Use SWR Meter	
Use TCI 🔽	

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LwSoft/Download

Beta 12.2118:

SDC (Software Defined Connectors v 12.2117x64) [C:/Users/Yuri/LwSoft/comspider.ini] - D X					
ProFile	Mgr Telnet Server	SKM Server	PA TCI	Setup	Save 🙀 🚺
					Russian Help file 🔻
Style:	Fusion	•	Set Font		SDC Site SDC Group
	Set no-kill window 🗸				Pregistration Callsign: UT4LW
	Move to SysTray on Start 🔽				
	Use ProFile Manager 🔽 Use COM Spider 📃 📄 Auto Start COM Spider				✓ Check for new version at startup SDC
				ider	✓ Check Beta Version
	Use Rig Sy	nc 🗌 🗌 Auto	Start RigSync		SDC_12.21x64_setup.exe
	Use Telnet Server ✔ ✔ Auto Start Telnet Server Use SKM Server ✔ ✔ Auto Start SKM Server Use Audio Channel Client 📄 Auto Connect Audio Channels			erver	Latest version installation log:
				ver	Date: 15:35 07/09/2020 Beta: 12.2118 (01/09/2020)
				o Channels	<u>Details:</u> Change CW Skimmer, RIG Sync and other system SDC
	Use Remote Server 🗌 📄 Auto Start Remote Server		Server		
	Use Audio Mixer 📄 📄 Auto Start Mixer Use Audio Scope 📄 📄 Auto Start Audio Scope				
				tope	
	Use PA Cont	rol 🗸 🗸 Auto	Start PA Cont	rol	
	Use SWR Me	ter 🗌			
	Use T	CI 🗸			
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