



SvxFLink

Repeater System

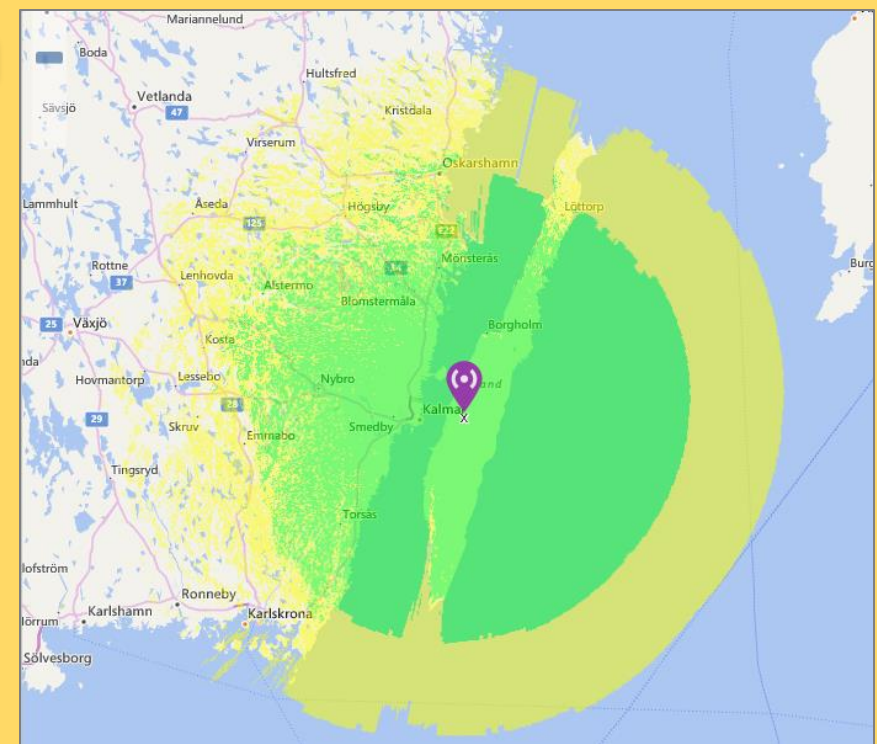
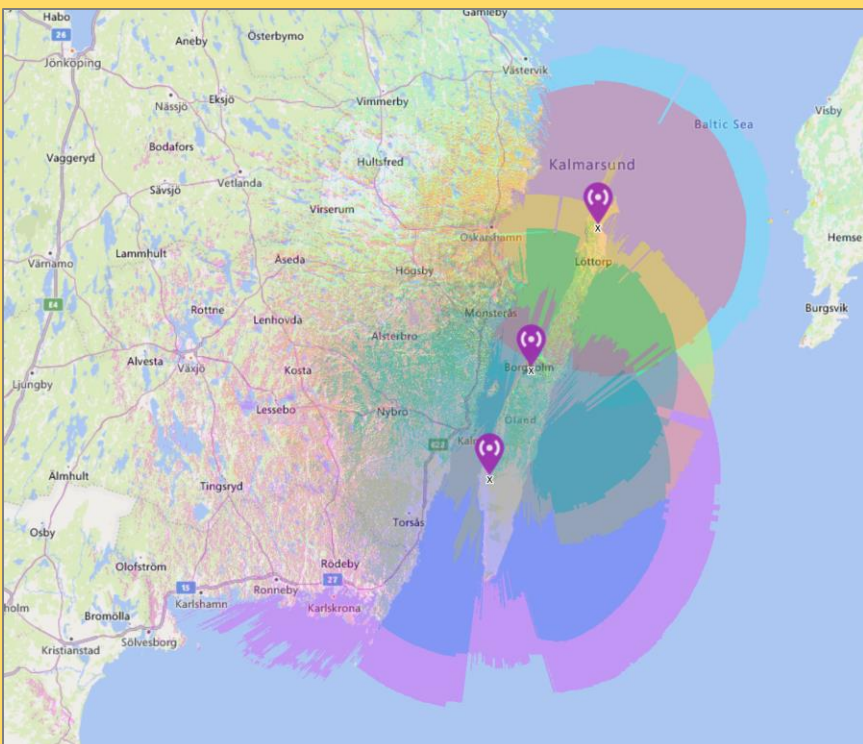
SvxFLink

EchoLink

SvxF Portal

Introduction

2022



Conditions and pre-requisites Öland

- SK7RN's 3 repeaters shall be linked together.
- The linking of the 3 repeaters must not be dependant of a functioning Internet.
 - As a consequence hereof, the links must be analogue or digital radio links.
- There must be a way to disconnect our local repeaters from the network, in case of an emergency.
 - There is now such a command.
- There shall be a link between SK7RN and SK7RFL repeaters.
 - This link may use the Internet.
 - The link may be automatic or manual.
- The use of the analogue repeaters shall not require anything else than "an ordinary analogue radio".
- Users must be able to use the repeater system, exactly like today,
 - Without any knowledge about the technology behind
 - Without using any DTMF commands.
 - Without using CTCSS.
- Affiliation with the **Swedish National SvxFReflector Network**.
- The local repeaters must not be occupied for hours by seemingly irrelevant traffic.
 - Adaption of monitored talk groups.
 - Use of auto-QSY.
- The upgrade to SvxFLink will have
 - no, or at least very few, impacts on the daily use of the repeater system.
 - large impact on the technology behind.
- There will be great possibilities for the users, who would like to activate the functions of SvxFLink.

*Each and everyone uses the system
according to their own interest and ability.*

SM5GXQ Peter Lindquist

Mörbylånga

SK7RN-S
145,625



SvxLink

Borgholm

SK7RN-C
145,6625



SvxLink

Böda

SK7RN-N
145,750



SvxLink

434,xxx →

← 434,xxx

← 432,xxx

432,xxx →

Algutsrum

SK7RFL
145,600
434,600



SvxLink
SvxReflector

SvxLink
Reflector

EchoLink

All repeaters on the island of Öland are, as of Summer 2020, linked together – using SvxDink talk group 24078.

The link is automatically activated after the first transmission.



Repeater Flitiga Lisa - SK7RFL

JO86gq · SvxLink · EchoLink SK7RFL-R 353167 · DMR 240717



SvxLink

Advanced repeater controller and EchoLink
software for Linux including a GUI, Qtel -
The Qt EchoLink client

SvxLink

Talk Groups

Topology

Swedish National SvxLink Reflector Network

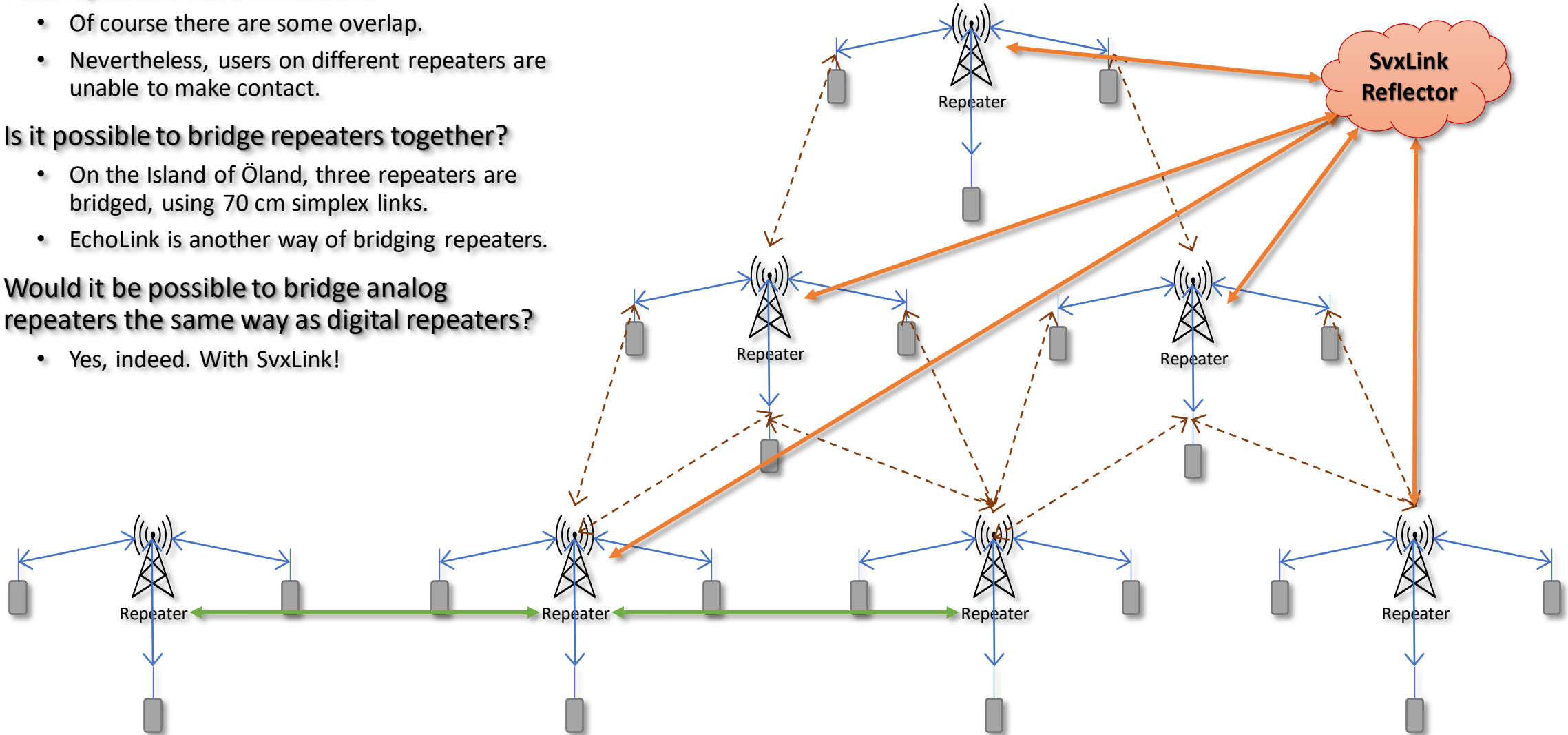
International SvxLink Network

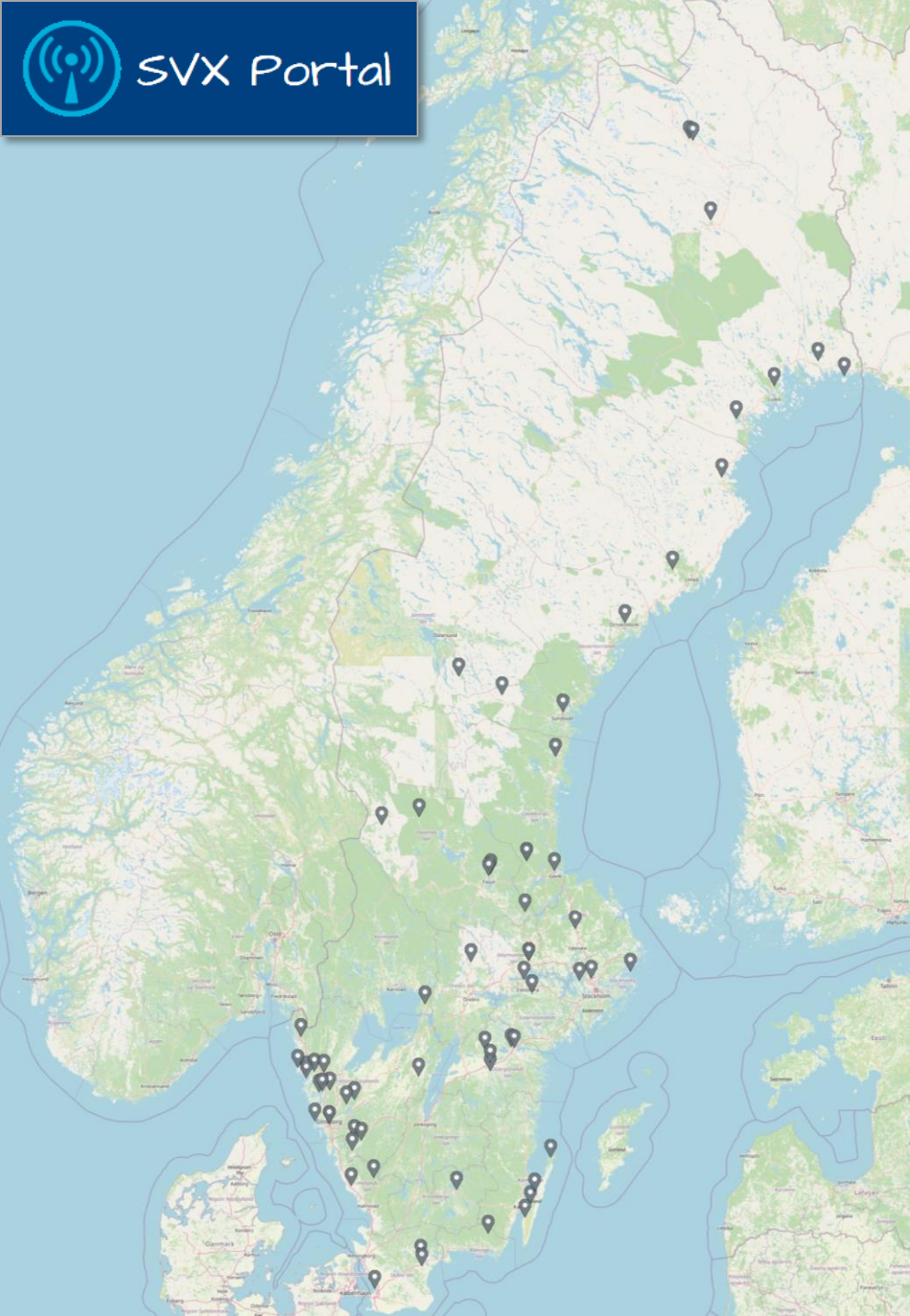
SvxPortal

- [SvxFLink](#) (pronounced *Svix-link*) is developed by **SM0SVX**, *Tobias Blomberg*.
- Everything started in 2003, as a Linux application for EchoLink.
- SvxFLink was gradually developed towards being a whole repeater logic.
 - Logics and Modules
 - EchoLink, FRN, Parrot, Voice Mail, METAR, DTMF-repeater, Selcall, Propagation Monitor, Multi-Tx, Voter, Remote TRx.
- 2013: Multiple logics can now be linked.
 - Enables SvxFLink to build bridges to other repeaters.
- 2017: **ReflectorLogic**.
 - Enables SvxFLink to connect to an internet-based reflector.
- 2019: **Talk groups**!
 - Similar to DMR.
 - Selected automatically, or by CTCSS and/or DTMF commands.
- The Swedish SvxFLink Network
 - Around 70 nodes, from north to south.
 - The network is run by **SM0SVX** Tobias and **SM3SGP** Gunnar.
- [SvxF Portal](#)
 - Shows all traffic in real time.
 - Developed and maintained by **SA2BLV** Peter.

SvxLink Reflector

- Also repeaters have limitations
 - Of course there are some overlap.
 - Nevertheless, users on different repeaters are unable to make contact.
- Is it possible to bridge repeaters together?
 - On the Island of Öland, three repeaters are bridged, using 70 cm simplex links.
 - EchoLink is another way of bridging repeaters.
- Would it be possible to bridge analog repeaters the same way as digital repeaters?
 - Yes, indeed. With SvxLink!





SVX Portal

Anropsignal	TG#	Aktiv	Övervakade TGs
SA4THA	0	Nej	240 2400 2402 2403 2404 2405 2406 2407 24020 24070 24088 24098 2404106
SA5BJM	0	Nej	240 2405 24020 24070 240582
SA6EAL	0	Nej	240 2406 24061 24063 24070 24097 24098
SA6GDS	0	Nej	240 2406 24061 24063 24097 24098
SI2W	0	Nej	240 2402 24020 24021 24022 24070 2402100
SK0BO	0	Nej	240 2400 24003
SK0CT-70	0	Nej	240 2400 24001 24002 24003
SK2AZ	0	Nej	240 2402 24020 24021 24022 240211
SK2AZ-L	0	Nej	24020 240211
SK2RIU	0	Nej	240 2402 24020 24021 24022 24033 240210
SK3GK-2	0	Nej	240 2403 24020 24031 24070 240305
SK3GK-70	0	Nej	240 2403 24020 24031 24070 240305
SK3GW	0	Nej	240 2403 24020 24031 24070 2403101
SK3LH	0	Nej	240 2402 2403 24020 24021 24022 24033 24034 240341
SK3RFG	0	Nej	91 240 2403 24022 24033 24070 240301
SK3RIIN	0	Nej	240 2402 2403 24021 24033 24070 240306
SK3RKL	0	Nej	240 2403 24022 24033 24034 240341
SK3RQE	0	Nej	240 2403 24020 24033 24070
SK3W	0	Nej	240 2403 24020 24031 24099 2403100
SK4AO	0	Nej	240 2404 24041
SK4EA-L	0	Nej	240 2404 24020 24042
SK4KO	0	Nej	240 2400 2402 2403 2404 2405 2406 2407 24070 240408 2404081
SK4RGL	0	Nej	240 2404 24041 24070
SK5AS	0	Nej	240 2405 24059 24070
SK5BN	0	Nej	91 92 240 2405 24059 24078 240028 240501 240515 240541
SKSLW-2	0	Nej	240515
SKSLW-70	0	Nej	240 2402 2405 24020 24070 240515
SKSRHQ-2	0	Nej	240 240541
SKSRHQ-70	0	Nej	240 2405 24070 240541
SKSRHT-10	0	Nej	2405 24059
SKSRHT-6	0	Nej	240 2405 24051
SK6IF	0	Nej	240 2406 24070 240609 2406087
SK6IF-2K	0	Nej	240 2406 24062 24070 24098 240604 240609
SK6IF-2T	0	Nej	240 2406 24062 24070 240609 2406087
SK6IX	0	Nej	240 2406 24061 24070 24097 24098
SK6QA	0	Nej	240 2406 24062 24070 240603 240604 240605
SK6QA-70	0	Nej	240 2406 24062 24064
SK6RFQ-2	0	Nej	240 2406 24070 240602
SK6RFQ-70	0	Nej	240 2406 24070 240602
SK6RIC-70	0	Nej	240 2406 240617
SK6RKI	0	Nej	240 2406 24062 24070 240602 240620
SK7BQ-R	0	Nej	240 2407 24075 240777
SK7HW	0	Nej	240 2407 24072 24077
SK7JL	0	Nej	91 92 240 924 927 2407 24074 24078 2407151 24071519
SK7RFL	0	Nej	91 92 240 2407 24073 24078 240501 240721 2407151
SK7RN	0	Nej	91 92 240 2407 24073 24078 240501 2407151 2407364
SL6ZAQ	0	Nej	240 2406 24062 24070 240601 240609
SM0SVX	0	Nej	240 2400 24020 24070 24099 2400238
SM2YUW	0	Nej	240 2402 24020 24021 24022 24062 24063 24070 24077 24088 24097 24098 24770 240211
SM3UQO	0	Nej	91 92 235 240 242 244 2402 2403 24033 24070 240306 2403042
SM4FBD	0	Nej	240 2404 2406 24063 24098
SM4IDP	0	Nej	240 2400 2402 2403 2404 2405 2406 2407 24070 240408 2400408 2404081 2404082
SM4KUH	0	Nej	240 2404 24041 2404013
SM5GXQ	0	Nej	91 92 235 240 2407 24078 24098 240501 240602 240620 2405174 2407151
SM6LNU	0	Nej	240 2405 2406 24062 24064 24070 24098 240604
SM6OEQ	0	Nej	240 2406 24061 24062 24063 24067 24070 24088 240603 240604
SM6SXJ	0	Nej	240 2406 2407 24061 24062 24063 24070 24088 24098 240602 240603 240617 240618 240770 240777
SM6TZL	0	Nej	240 2406 24061 24062 24063 24070 24097 24098 240602
SM6VAG	0	Nej	240 2406 24061 24062 24063 24070
SM6ZDO	0	Nej	240 2400 2402 2403 2404 2405 2406 2407 24061 24062 24063 24070 24098 240515 240602 240603 240617 2405174
SM7ECA	0	Nej	240 2406 2407 24061 24062 24063 24070 24078 24098
SM7FLD	0	Nej	240 2407 24075 240770 240777 2407056
SM7XCE	0	Nej	240 2407 24070 24073 24074 24077 24078 24088 24098 2407151

SvxLink – SvxFlector

User

- The speech is analogue over radio.
- Existing analogue radios can still be used.
- Does not require any registration.
- [Talk Groups](#) *Link repeaters together*
- DTMF *Not mandatory*
- CTCSS *Not mandatory*

Repeater | Simplex node

- RepeaterLogic | SimplexLogic.
- Affiliation with the [National SvxFlector](#).
- Monitored talk groups.
- Default talk group.
 - Automatically activated upon start of repeater.
- Time-activated talk groups.
- [EchoLink](#).

Manual talk group selection

- DTMF
 - 91tg#
 - [Shortcuts](#) at SK7RFL|SK7RN|SK5BN.
- CTCSS
 - May be mandatory on certain nodes.
 - May be used to select talk group at repeater start.

Automatic activation of talk group

- Incoming call on monitored talk group
 - Only if the repeater is idle.
- Default talk group (automatically activated)
 - Upon start from local radio only.
- Time-activated talk group.
 - The repeater is "locked" onto a bulletin talk group.

There is no "Private Call" on SvxFlector

- Manual [QSY command](#) 92#.
 - Moves active nodes to a private talk group.

There is no "Private call" on SvxFlector

- [Automatic QSY](#) from talk group 240 after 5 mins.
 - Moves active nodes to a private talk group.

SvxLink

Swedish National SvxLink Reflector Network

9	9	2	9	9	2	2	2	2	2	2	2	2	2	2	2	2
1	2	4	2	2	4	4	4	4	4	4	4	4	4	4	4	4
		0	4	7	0	0	0	0	0	0	5	0	0	0	0	0
					0	2	3	4	5	0	6	7	8	1	5	1
										1						4

Show the talk group list at the Swedish [Svx Portal](#).

- 240
- 2400
- 2401
- 2402
 - 24020
 - 24021
 - 24022
- 2403
 - 24031
 - 24033
 - 24036
- 2404
 - 24041
 - 240408
- 2405
 - 24051
 - 24052
 - 240515
 - 240511
 - 240501
 - 24054
 - 240541
- 2406
 - 24061
 - 24062
 - 240602
 - 240620
 - 240603
 - 240604
 - 240609
 - 2406087
 - 24063
 - 240630
 - 240617
- 2407
 - 24070
 - 24071
 - 24072
 - 240770
 - 24073
 - 24074
 - 2407151
 - 24075
 - 240777
 - 240702
 - 24078

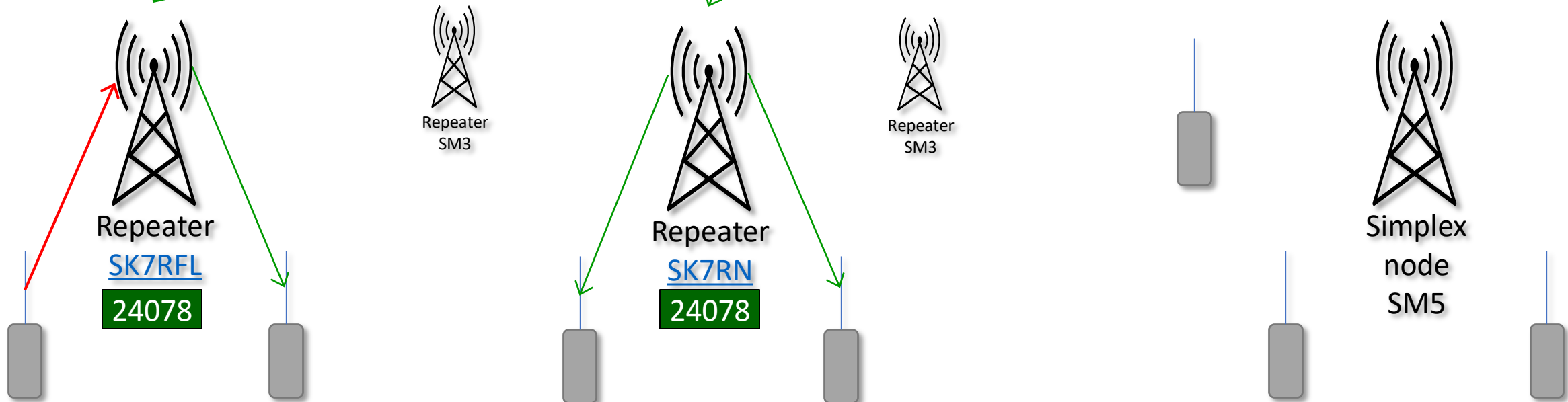
- Sverige
- SM0
- SM1
- SM2
 - Bulletin
 - Norrbottn
 - Västerbotten
- SM3
 - Gävleborgs Län
 - Västernorrland Län
 - Östersund
- SM4
 - Falun
 - SK4RGO
- SM5
 - Uppsala Län
 - Sörmlands Län
 - Eskilstuna
 - Linköping
 - Norrköping
 - Västmanland Län
 - Västerås
- SM6
 - Halland
 - Bohuslän
 - SK6RFQ
 - SK6RKI
 - SK6QA
 - SK6IF-2K
 - SK6IF-2T
 - SK6IF
 - Mark med omnejd
 - SK6LK
 - SK6RIC
- SM7
 - Bulletin
 - Jönköpings Län
 - Kronobergs Län
 - SK7HW
 - Kalmar Län
 - Blekinge Län
 - Spjutsbygd
 - Skåne Län
 - SK7BQ
 - SK7REE
 - Öland

SvxLink

Talk group
24078

SvxReflector

2 4 0	2 4 0 2	2 4 0 3	2 4 0 5	2 4 0 7	2 4 0 7 8	Q S Y 0 1	Q S Y 0 2
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SvxLink

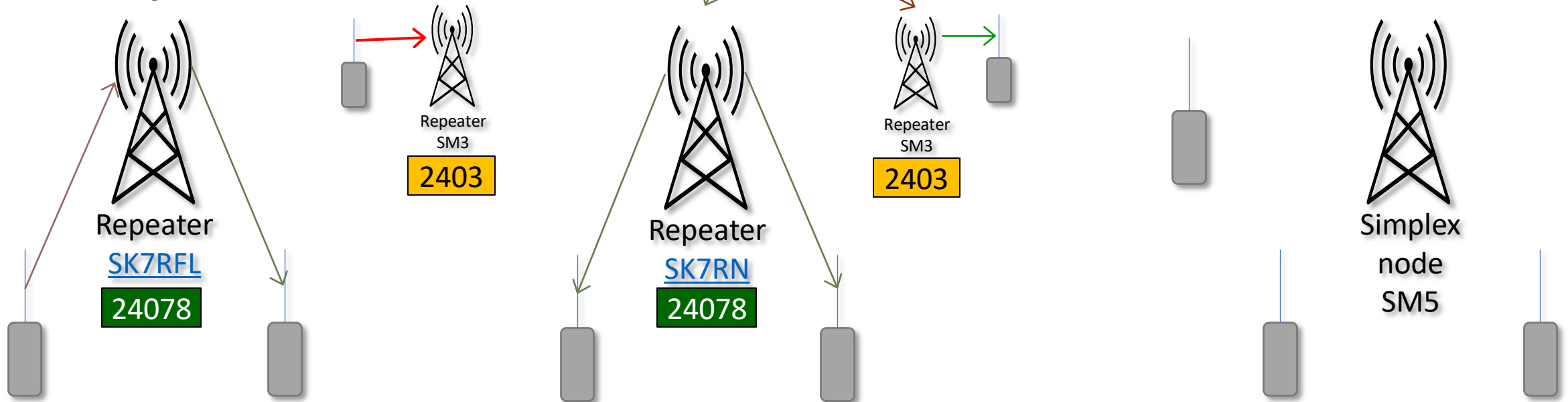
SvxReflector

2 4 0	2 4 0 2	2 4 0 3	2 4 0 5	2 4 0 7	2 4 0 7 8	Q S Y 0 1	Q S Y 0 2
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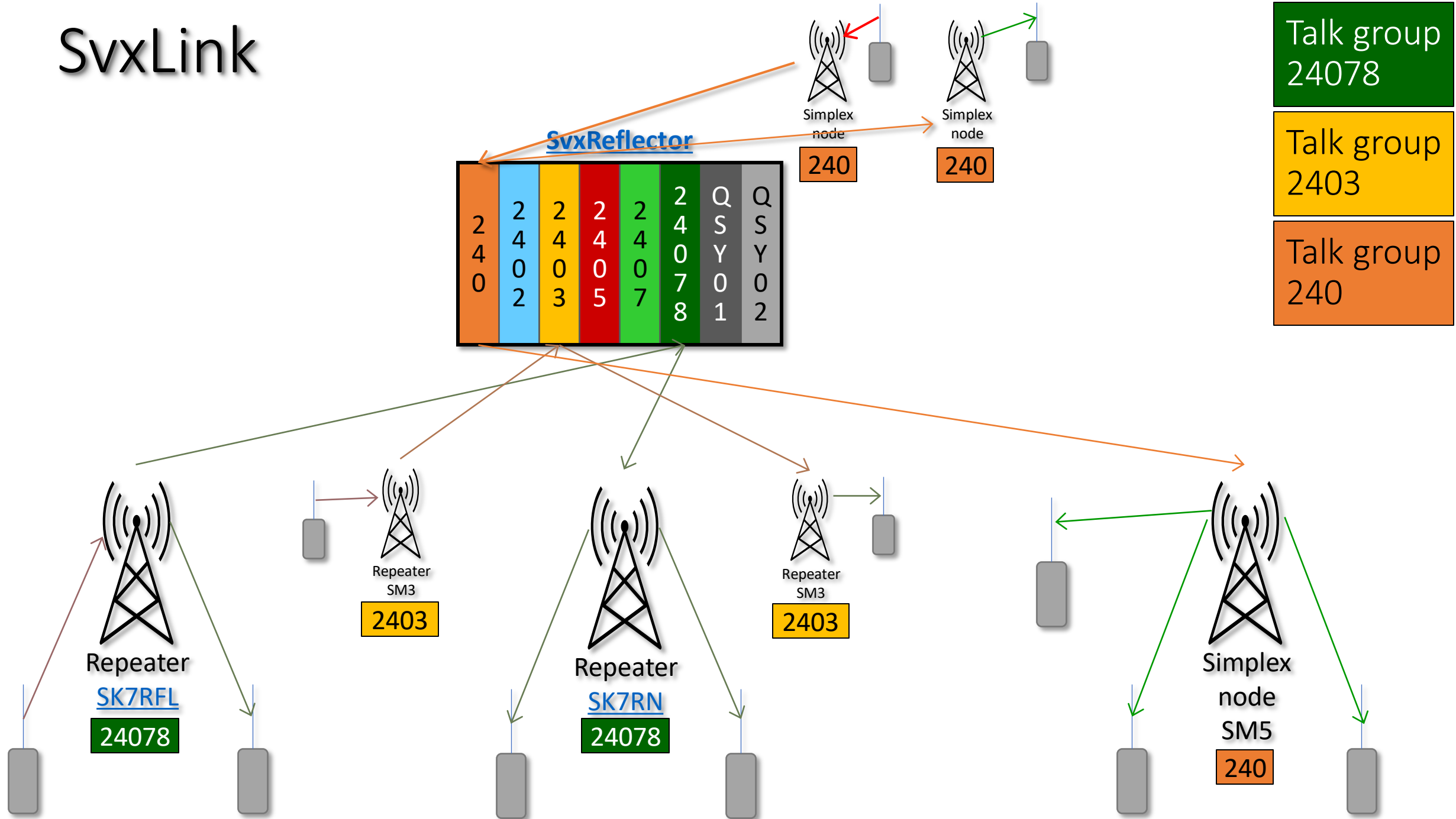


Talk group
24078

Talk group
2403



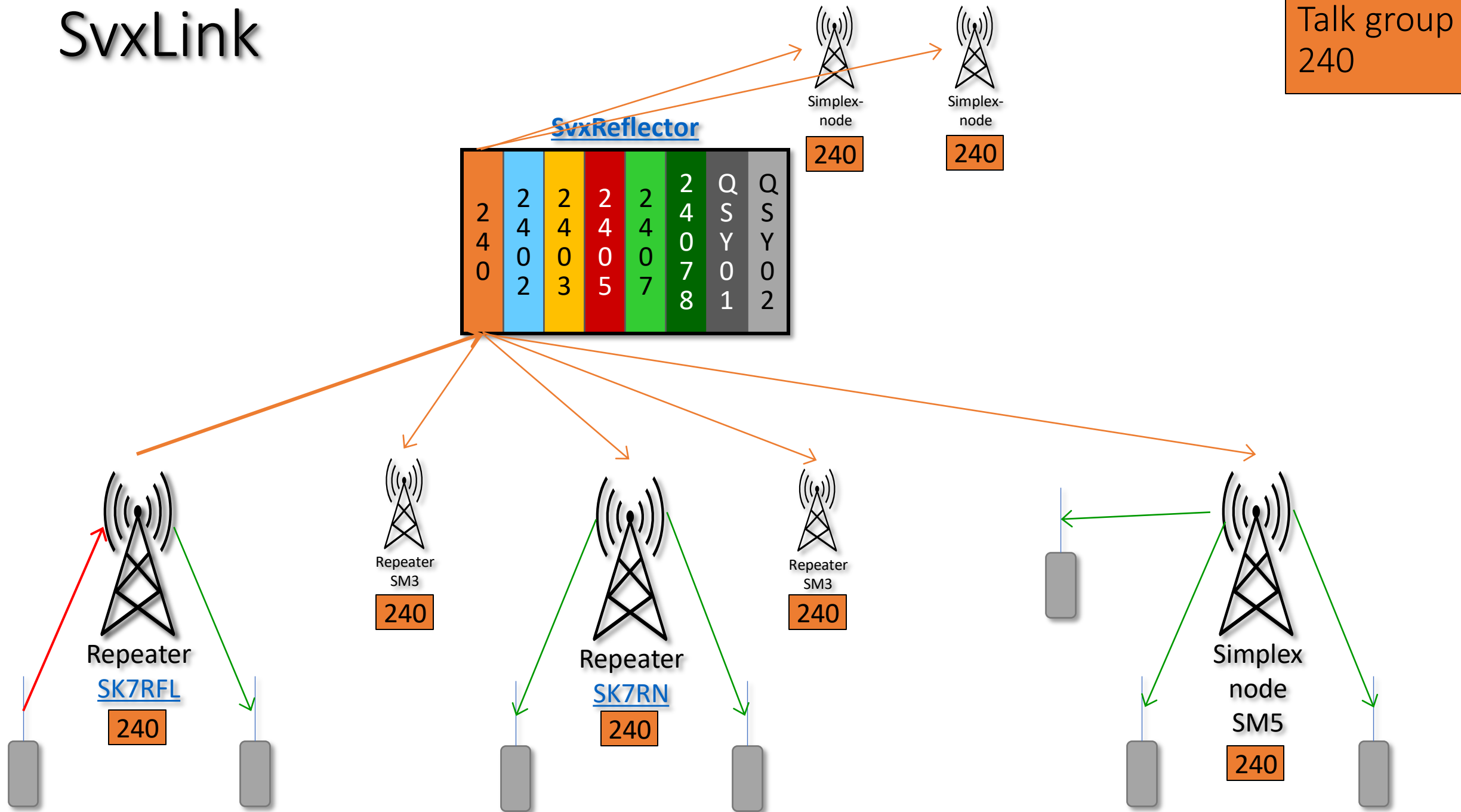
SvxLink



QSY procedure

- QSY means switching to a "custom" (random) talk group.
 - The random range is MCC99xx, e.g. 2359900-2359999 for the UK.
 - Only repeaters who have been involved in the QSO will follow along.
 - Other repeaters are released.
- QSY can be **manual** or **automatic**.
 - From talk group **240**, automatic QSY occurs after 3 minutes.
 - Manual QSY can be executed with the **92#** command.
- On non-participating repeaters, this is announced with "*QSY xxx pending*".
 - Now you can join the QSY by just pressing **PTT**.
- After 15s, the repeater announces "*QSY xxx ignored*".
 - Now it's too late to follow by pressing **PTT**.
 - However, you can give the command **93#** to follow along in QSY.
- Repeater who have participated in the QSO do not need to give any commands.

SvxLink



SvxLink

- [Automatic QSY](#) from talk group 240 after 5 minutes.
- [Manual QSY](#) with DTMF 92#.
- Active repeaters are assigned their own talk group.
- Idle repeaters are released.

SvxReflector

2	2	2	2	2	2	Q	Q
4	4	4	4	4	4	S	S
0	0	0	0	0	0	Y	Y
0	2	3	5	7	8	0	0
						1	2



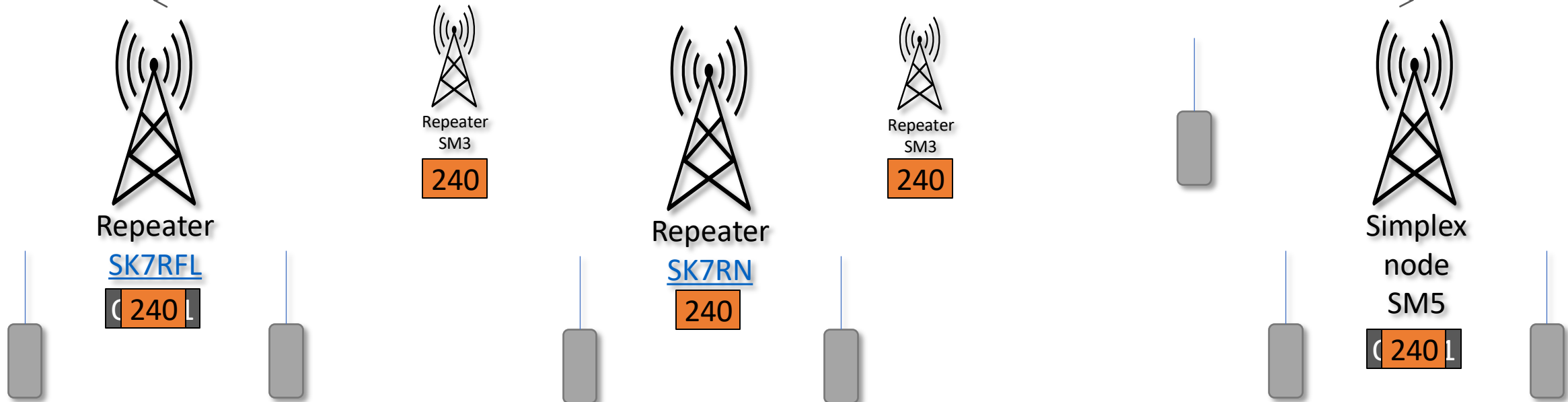
240



240

Talk group
240

Talk group
QSY01



SvxLink

General DTMF Commands

In SvxLink, all DTMF commands must be followed by a "square" sign (#).

General DTMF Command List

*#	Status
1#	Activate Parrot module
2#	Activate EchoLink module
5#	Activate the METAR module
#	Deactivate module/disconnect

SvxLink

Talk Group Commands

In SvxFLink, all DTMF commands must be followed by a "square" sign (#).

9*#	Status
91 <i>tg</i> #	Select talk group <i>tg</i>
910 #	De-select talk group
92 #	QSY to random talk group
92 <i>tg</i> #	QSY to talk group <i>tg</i>
93 #	Follow QSY
94 <i>tg</i> #	Monitor talk group <i>tg</i>

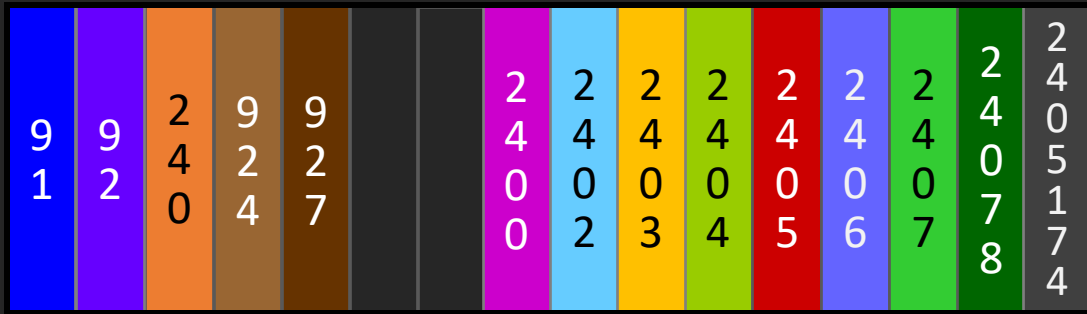
Note!

91 <i>tg</i> #	moves " <u>your</u> " node to talk group <i>tg</i>
92 <i>tg</i> #	moves <u>active nodes</u> to talk group <i>tg</i>
94 <i>tg</i> #	<u>monitors</u> talk group <i>tg</i>

SvxLink

CTCSS Mapping Sweden

Local deviations may occur.



CTCSS may be used to activate a talk group.

The repeater needs to be started with this tone.

The local talk group is activated after the first transmission.

136,5 Hz

Local

88,5 Hz

Talk group 240

123,0 Hz

Talk group 2400

146,2 Hz

Talk group 2402

141,3 Hz

Talk group 2403

151,4 Hz

Talk group 2404

91,5 Hz

Talk group 2405

118,8 Hz

Talk group 2406

156,7 Hz

Talk group 2407

Show CTCSS mapping for each repeater at the Swedish [Svx Portal](#).



Repeater Flitiga Lisa - SK7RFL

JO86gq · SvxLink · EchoLink SK7RFL-R 353167 · DMR 240717

SvxLink

Advanced repeater controller and EchoLink
software for Linux including a GUI, Qtel -
The Qt EchoLink client

International Traffic

Reflectors

Talk groups

Topology

Svx Portals

SvxLink – Multiple Reflectors

- Reflector **"SE"** [Swedish](#) National Reflector.
- Reflector **"UK"** ["International"](#) Reflector in England (G4NAB).
- Reflektor **"DE"** ["Funknetz.de"](#) Reflector in Germany.
- Reflector **"SK7RFL"** Local Reflector at the Repeater.
 - Used for incoming EchoLink and DMR connections.
 - May be used for emergency traffic, when the repeaters are not connected to the networks.
- SK7RFL, SK7RN, SK5BN, SM5GXQ are connected to **SE**, **UK** and **DE** reflector networks.
 - They do not monitor any international talk groups with heavy traffic load.
 - There is no direct bridging between the reflectors.
 - SM5GXQ Simplex node monitors (more) international talk groups.
- Normally only one reflector is active at the same time.
 - No "leakage" between the networks.
 - Same talk group numbers in use in both networks. They are not necessarily bridged.
- All talk groups can be activated as usual with DTMF.
 - The repeater "knows" which reflector to use.
- Talk group numbers are announced with:
 - **"Talk group"** for the Swedish Reflector.
 - **"UK"** for the English (international) Reflector.
 - **"DE"** for Funknetz.de.

SvxLink – International Traffic

Anropsignal	TG#	Aktiv	Övervakade TGs	Start tid	Aktiv tid
SA0CAM	0	Nej	240 2400 24020 24070		
SA3AUX	0	Nej	240 2402 2403 2404 2406 24020 24033 24063 24070 24098		
SA5BJM	0	Nej	240 2405 24020 240582		
SA6GDS	0	Nej	240 2406 24061 24063 24070 24098		
SK0RMT	0	Nej	240 2400 2405 24070		
SK2AZ	0	Nej	240 2402 24020 24021 24022 240211		
SK2AZ-L	0	Nej	24020 240211		
SK2RIU	0	Nej	240 2402 24020 24021 24022 24033 240210		
SK2RWJ	0	Nej	240 2402 24020 24021 24022 240211		
SK3BG	0	Nej	91 92 235 240 242 244 2402 2403 24033 24070 240306 2403042		
SK3GK-2	0	Nej	240 2403 24020 24031 24070 240305		
SK3GK-70	0	Nej	240 2403 24020 24031 24070 240305		
SK3GW	0	Nej	240 2403 24020 24031 24070		
SK3LH	0	Nej	240 2402 2403 24020 24021 24022 24033		
SK3RFG	0	Nej	91 240 2403 24021 24022 24033 24070 240301		
SK3RIN	0	Nej	240 2402 2403 24021 24033 24070 240306		
SK3RQE	0	Nej	240 2403 24020 24033 24062 24070 240541		
SK4RGL	0	Nej	240 2404 24041 24070		
SK5AS	0	Nej	240 2405 24055 24070		
SK5LW-2	0	Nej	240515		
SK5LW-70	0	Nej	240 2402 2405 24020 24022 24070 240515		
SK5RHQ-2	0	Nej	240541		
SK5RHQ-70	0	Nej	240 2405 240541		
SK5RHT-6	0	Nej	240 2405 24055 24070		
SK6IF	0	Nej	240 2406 24062 24070		
SK6JX	0	Nej	240 2406 2407 24061 24070		
SK6QA	0	Nej	240 2406 24062 24070		
SK6RFQ-2	0	Nej	240 2406 24062 24070 240602 240603		
SK7JL	0	Nej	91 92 240 2407 24074 24078 2407151 24071519		
SK7RFL	0	Nej	91 92 240 924 927 2407 24078 240721 2407151		
SK7RN	0	Nej	91 92 240 924 927 2407 24078 2407151 2407364		
SM0SVX	0	Nej	240 2400 24020 24070 24099 2400238		
SM0SVX-L	0	Nej	2400238		
SM4FBD	0	Nej	240 2404 2406 24063 24098		
SM5GXQ	0	Nej	91 92 235 240 924 927 2405 2407 24078 24098 240501 2405174 2407151		
SM6LNI	0	Nej	240 2405 2406 24062 24064 24070		
SM6SXJ	0	Nej	91 92 240 2400 2401 2402 2403 2404 2405 2406 2407 24061 24062 24063 24070 24088 24098		
SM6TZL	0	Nej	240 2400 2402 2403 2404 2405 2406 2407 24061 24062 24063 24070 24098		
SM6UDU	0	Nej	2406 2407 24061 24062 24063 24064 24070 24078 24098		
SM6UNC	0	Nej	91 92 240 927 2402 2403 2406 2407 24061 24062 24063 24070 24098		
SM6XGP	0	Nej	91 240 2400 2402 2403 2404 2405 2406 2407 240602		
SM6ZDO	0	Nej	240 2400 2402 2403 2404 2405 2406 2407 24061 24062 24063 24070 24098		

Callsign	TG#	Is talker	Monitored TGs
G4NAB	0	NO	9 235 2350 2351 23520 23561 23590
G4NAB-4	0	NO	235 2350 2351 23520 23561 23590
GB3EV	0	NO	235 2350 23520
GB3WK	0	NO	235 2350 23590
M0XHN	23526	YES	23526
SK5BN	0	NO	91 92 240 924 927 2405 240501
SK7RFL	0	NO	91 92 240 924 927 2407 24078 240721
SK7RN	0	NO	91 92 240 924 927 2407 24078 2407364
SM5GXQ	0	NO	91 92 235 240 924 927 2405 2407 24078 2405174

Anropsignal	TG#	Aktiv	Övervakade TGs
BV5DI-DJ	0	Nej	28 80 81 262 777 4711
DBOAM	0	Nej	8 88 262 882 26390
DB0EIN-DV	0	Nej	77 91 235 777 6213 26298 37574
DB0FHS	0	Nej	80 81 89 777 2622 19055
DB0FTS	0	Nej	28 80 81 84 88 89 262 777 882 985
DB0GSW	0	Nej	89 99 262
DB0KOE	0	Nej	80 81 84 88 89 262
DB0MGN	0	Nej	8 66 80 81 84 88 89 99 262 264 777 986 2327
DB0MVP	0	Nej	19055
DB0PER	0	Nej	81 262 19348
DB0RUG	0	Nej	28 80 262 777
DB0SRB	0	Nej	80 81 84 88 89 262 916 2629
DB0TDR	262	Nej	
DB0THM	0	Nej	8 88 262 882 986 26390
DB3MAX	0	Nej	77 80 262 777 7777 18311 19055
DB3MAX-DJ2	0	Nej	77 80 262 777 18311 19055
DB3MAX-DV	0	Nej	80 262 777 18311
DC1RME-DJ	0	Nej	8 88 262 882 26390
DC2PI-DJ	0	Nej	80 81 84 88 89 262 777
DF9OO	0	Nej	262 777 37574
DG0CCO	0	Nej	8 9 80 81 84 88 89 99 262 777
DG0GTD	0	Nej	28 80 262 777 4711
DG1US-DJ	0	Nej	77 777 6213 37574
DG4MK-S	0	Nej	89 99 262 777
DG6IMF-DJ	0	Nej	20 80 81 84 89 99 262 777 2622
DH9VAP-DJ	0	Nej	8 9 80 81 88 89 99 262 777 4711 26390 37574
DI1JAY-D	0	Nej	66
DI1VK	0	Nej	56479
DI6WF-DJ	0	Nej	19348
DL1BH	0	Nej	777
DL1BH-DJ	0	Nej	89 262 264 888
DL1HQN-DJ	0	Nej	8 9 80 81 84 88 89 99 262 777
DL1HRC-DJ	0	Nej	8 9 80 81 84 88 89 99 262 777
DL2HXA-1	0	Nej	80 81 84 88 89 262 2629
DL4AW-DJ	0	Nej	80 81 84 88 89 262 2629
DM0GAP	0	Nej	80 81 88 262 880 882
DM0HR	0	Nej	80 81 84 88 89 262 777 981
DM3AL-DJ	0	Nej	8 9 80 81 84 88 89 99 262 777
DO0FWH	0	Nej	80 81 89 99 262 777 19055 26239
DO0HWI	0	Nej	27 80 81 84 88 89 262 777
DO0KGS	0	Nej	80 81 84 88 89 262 984 2629
DO0LF	0	Nej	262 777 34497
DO0RDG	0	Nej	80 262 777 18311
DO0RDG-DV	0	Nej	77 262 777 18311 19055 26298
DO0RM	0	Nej	70 80 81 84 88 89 262 2629
DO1NGH	0	Nej	88 262 882 986 26284 26390
DO1RHC	0	Nej	84 232 262 264 26298
DO2KTE-DJ	0	Nej	80 81 84 88 89 262 2629
DO4AA	0	Nej	777 4711 6213 37574
DO4BOS-DJ	0	Nej	8 9 77 80 81 84 88 89 99 262 777
Funknetz-nrw	0	Nej	84
MQTT	0	Nej	8 9 80 81 84 88 89 91 92 99 235 262 777 882 888 986 2622 19055 26298 26390
Neumarkt	0	Nej	26390
OE7SBH-DJ	0	Nej	80 81 89 99 232 262 777 2327
SM5GXQ	0	Nej	91 92 235 240 924 927 2405 2407 2405174

New function in Receiver Monitor on the Swedish Svx Portal

SK7RFL		Öland	24070		Algutsrum	55 %	145.0000	00:48
'A'	R0	Algutsrum				55%	145.0000	
'A'	RU0	Algutsrum				2%	432.6000	
	SM7YPV					0%	EchoLink in	
	SM7BKZ					0%	EchoLink in	
	SM7PHS					0%	DMR	

SM5GXQ		Öland	0		G4NAB	100 %	GB Reflector	-
'A'	2m	Färjestaden				0%	145.2875	
'A'	G4NAB					100%	GB Reflector	
'A'	VK4TUX-T					0%	GB Reflector	

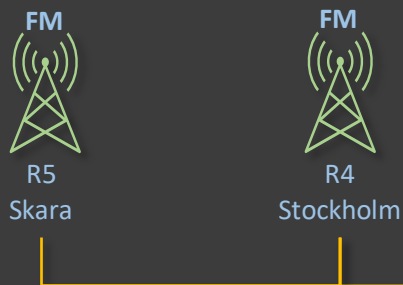
Bridged Traffic

DMR D-Star YSF SvxFLink



Bridged traffic

Namn	DMR	D-star	YSF@XLX010	YSF	Wires-X
SM X-link	240240	DCS010B	XLX010B		
Sweden Link	24024	DCS010E	XLX010E	YSF18045	28635
Sweden Hub	240216	DCS010J	XLX010J	YSF89207	27781
SSA-bulletin	2410	DCS010D	XLX010J		
SM0	2400	DCS010K	XLX010K		
SM2	2402	DCS010Q	XLX010Q		
SM3	2403	DCS010S	XLX010S		
SM Norr	24033	DCS010F	XLX010F		
SM4	2404	DCS010T	XLX010T		
SM5	2405	DCS010U	XLX010U		
SM6	2406	DCS010V	XLX010V		
SM7	2407	DCS010W	XLX010W		
SE SM5GXQ	2405174			YSF57839	



XRF699 Modules

Modules

DCS010 Modules

Modules

DMR

Talk groups

DMR

Talk groups

YSF Reflectors

YSF Reflectors

Wires-X Rooms

Wires-X Rooms

SvxLink Talk groups

SvxLink Talk groups



SM5GXQ

Simplex node

BM TGIF YSF SvxFLink



DCS010

Modules

A	B	C	D	E	F	J	K	Q	S	T	U	V	W			
---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	--

Brandmeister

91	240240	240	2410	24024	24033	240216	2400	2402	2403	2404	2405	2406	2407	240717	240721	2405174
----	--------	-----	------	-------	-------	--------	------	------	------	------	------	------	------	--------	--------	---------

DMR

TGIF

YSF

Reflektors

XLX010 B		XLX010 D	18045	XLX010 F	89207	XLX010 K	XLX010 Q	XLX010 S	XLX010 T	XLX010 U	XLX010 V	XLX010 W				57839
-------------	--	-------------	-------	-------------	-------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	--	--	--	-------

Wires-X

Rooms

SvxLink

Talk groups

91	92	240	924	627			2400	2402	2403	2404	2405	2406	2407		24078	2405174
----	----	-----	-----	-----	--	--	------	------	------	------	------	------	------	--	-------	---------

SM5GXQ

SvxLink

Sweden – UK – Germany

FM
145,2375
SM5GXQ

SvxReflector
Funknetz.de

9 1	9 2	9 2 4	9 2 7	2 3 5	2 4 0	2 4 0 0	2 4 0 2	2 4 0 3	2 4 0 4	2 4 0 5	2 4 0 6	2 4 0 7	2 4 0 7 8	2 4 0 7 2 1	2 4 0 5 1 7 4
--------	--------	-------------	-------------	-------------	-------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	-----------------------	----------------------------	---------------------------------

SvxReflector
UK

9 1	9 2	9 2 4	9 2 7	2 3 5	2 4 0	2 4 0 0	2 4 0 2	2 4 0 3	2 4 0 4	2 4 0 5	2 4 0 6	2 4 0 7	2 4 0 7 8	2 4 0 7 2 1	2 4 0 5 1 7 4
--------	--------	-------------	-------------	-------------	-------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	-----------------------	----------------------------	---------------------------------

SvxReflector
Sweden

9 1	9 2	9 2 4	9 2 7	2 3 5	2 4 0	2 4 0 0	2 4 0 2	2 4 0 3	2 4 0 4	2 4 0 5	2 4 0 6	2 4 0 7	2 4 0 7 8	2 4 0 7 2 1	2 4 0 5 1 7 4
--------	--------	-------------	-------------	-------------	-------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	-----------------------	----------------------------	---------------------------------

FM
R5
Blekinge

FM
R1
Öland

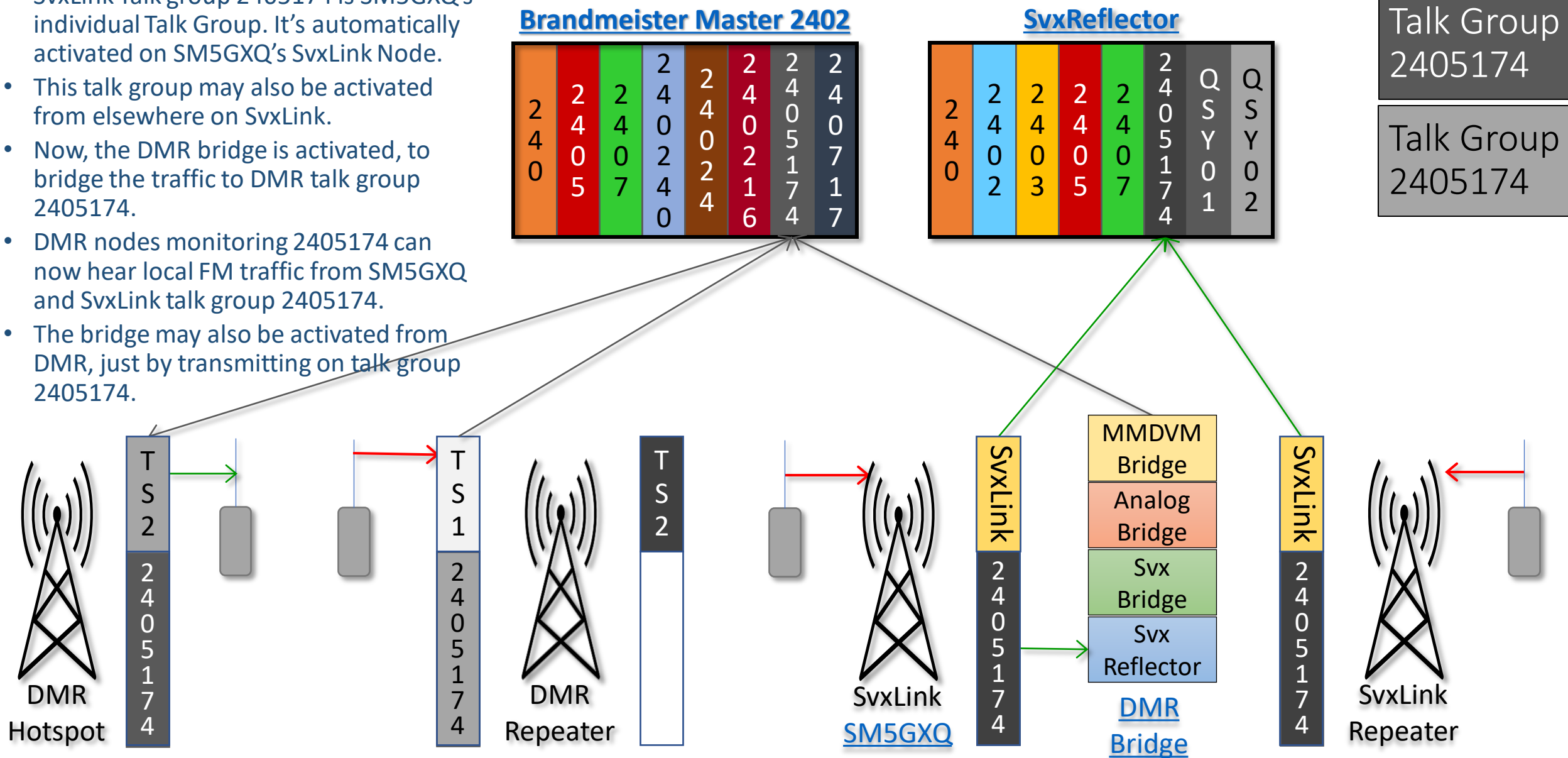
FM
R2x
Öland

FM
R6
Öland

FM
R0 RU0
Öland

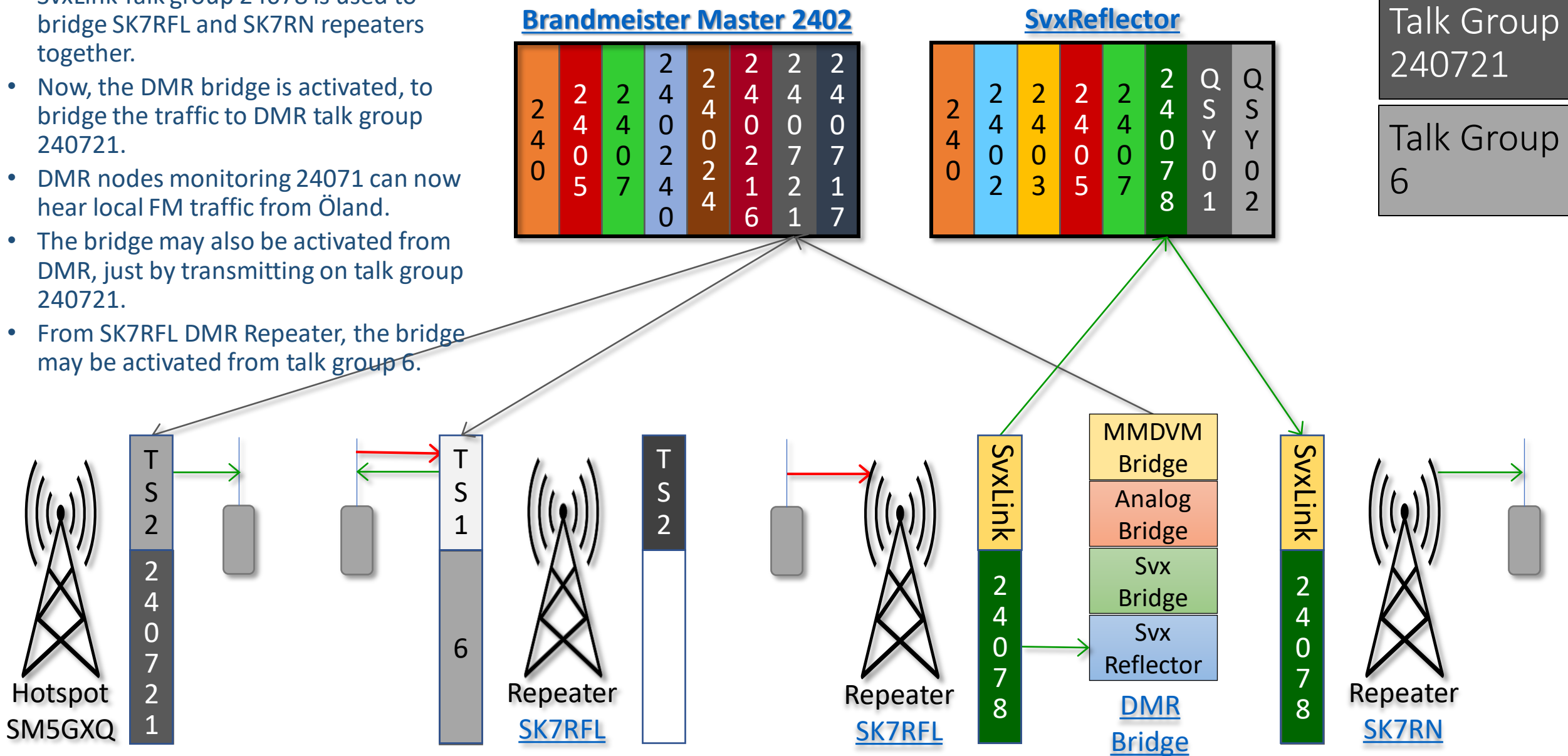
DMR Bridge @SM5GXQ

- SvxLink Talk group 2405174 is SM5GXQ's individual Talk Group. It's automatically activated on SM5GXQ's SvxLink Node.
- This talk group may also be activated from elsewhere on SvxLink.
- Now, the DMR bridge is activated, to bridge the traffic to DMR talk group 2405174.
- DMR nodes monitoring 2405174 can now hear local FM traffic from SM5GXQ and SvxLink talk group 2405174.
- The bridge may also be activated from DMR, just by transmitting on talk group 2405174.



DMR Bridge @SK7RFL

- SvxLink Talk group 24078 is used to bridge SK7RFL and SK7RN repeaters together.
- Now, the DMR bridge is activated, to bridge the traffic to DMR talk group 240721.
- DMR nodes monitoring 24071 can now hear local FM traffic from Öland.
- The bridge may also be activated from DMR, just by transmitting on talk group 240721.
- From SK7RFL DMR Repeater, the bridge may be activated from talk group 6.



Traffic Cases

Link flow

SvxLink

Swedish National SvxFLink Network

DMR

International SvxFLink Network

EchoLink



SK7RN
Ölands
Radioamatörer



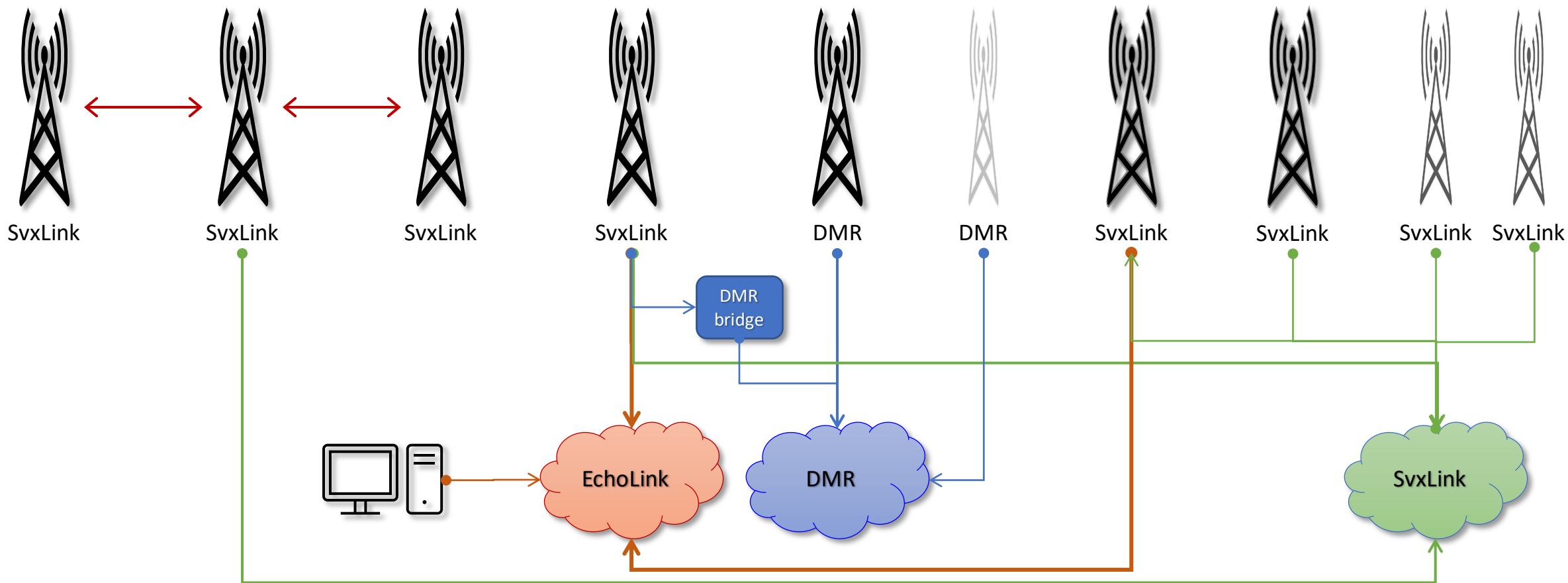
Repeater Flitiga Lisa - SK7RFL

JO86gq · SvxFLink · EchoLink SK7RFL-R 353167 · DMR 240717



Topology

<u>Böda</u>	<u>Borgholm</u>	<u>Mörbylånga</u>	<u>Algutsrum</u>	<u>Algutsrum</u>	<u>Göteborg</u>	<u>Spjutsbygd</u>	<u>Rpt "n"</u>	<u>Rpt "n"</u>
SK7RN-N	SK7RN-C	SK7RN-S	SK7RFL	SK7RFL	SK6RFQ	SK7JL	SK3xxx	SK3xxx
145,750	145,6625	145,625	145,600 434,600	434,550	145,650	145,725		





Start from SK7RFL



Repeater Flitiga Lisa - SK7RFL
JO86gq · SvxFlink · EchoLink SK7RFL-R 353167 · DMR 240717

Böda
SK7RN-N
145,750

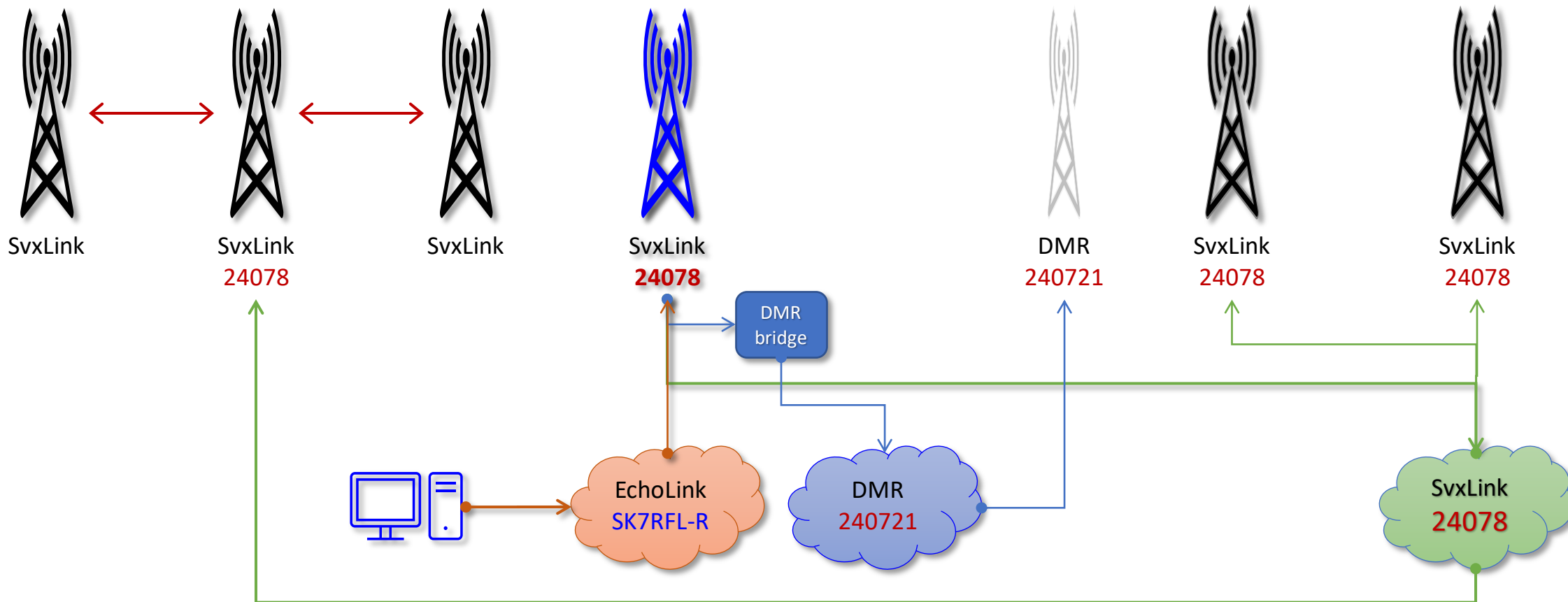
Borgholm
SK7RN-C
145,6625

Mörbylånga
SK7RN-S
145,625

Algutsrum
SK7RFL
145,600
434,600

Norrköping
SK5BN
434,600

Spjutsbygd
SK7JL
145,725





Start from SK7RN



Repeater Flitiga Lisa - SK7RFL
JO86gq · SvxFlink · EchoLink SK7RFL-R 353167 · DMR 240717

Böda
SK7RN-N
145,750

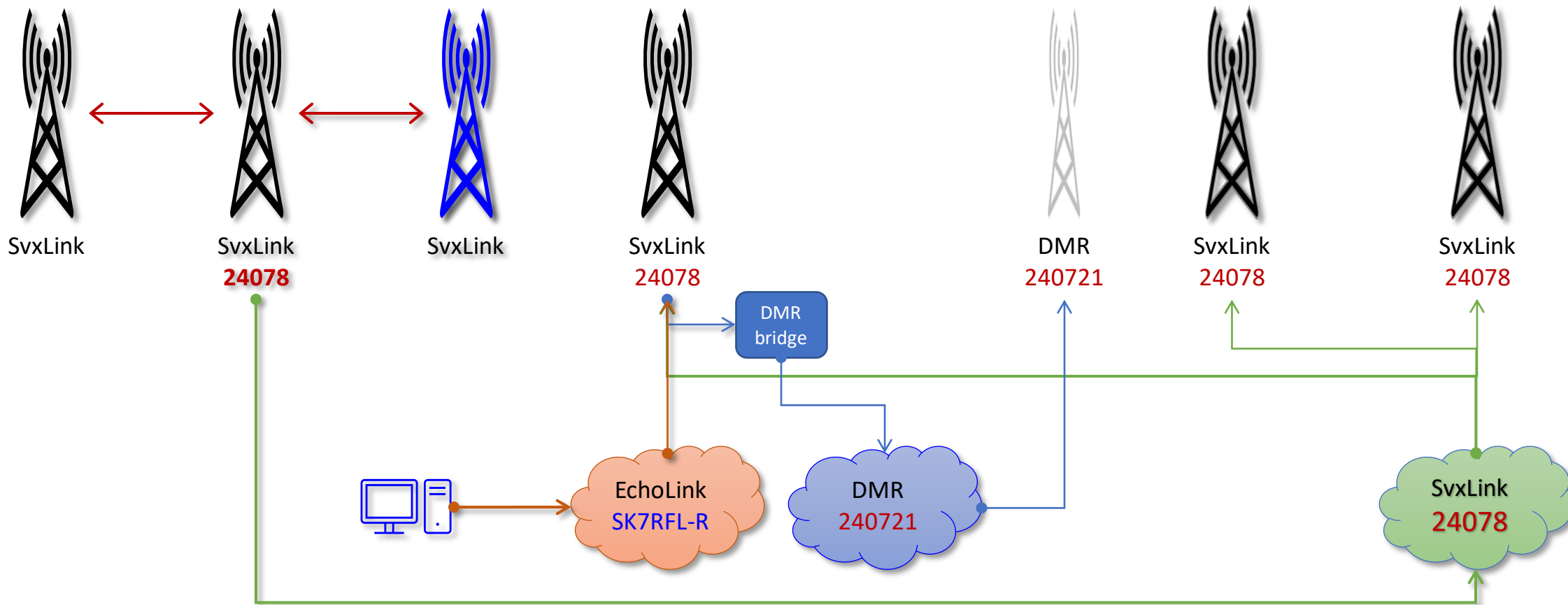
Borgholm
SK7RN-C
145,6625

Mörbylånga
SK7RN-S
145,625

Algutsrum
SK7RFL
145,600
434,600

Norrköping
SK5BN
434,600

Spjutsbygd
SK7JL
145,725





SK7RN
Ölands
Radioamatörer



Repeater Flitiga Lisa - SK7RFL

J086gq · SvxFLink · EchoLink SK7RFL-R 353167 · DMR 240717

Start from SK7JL



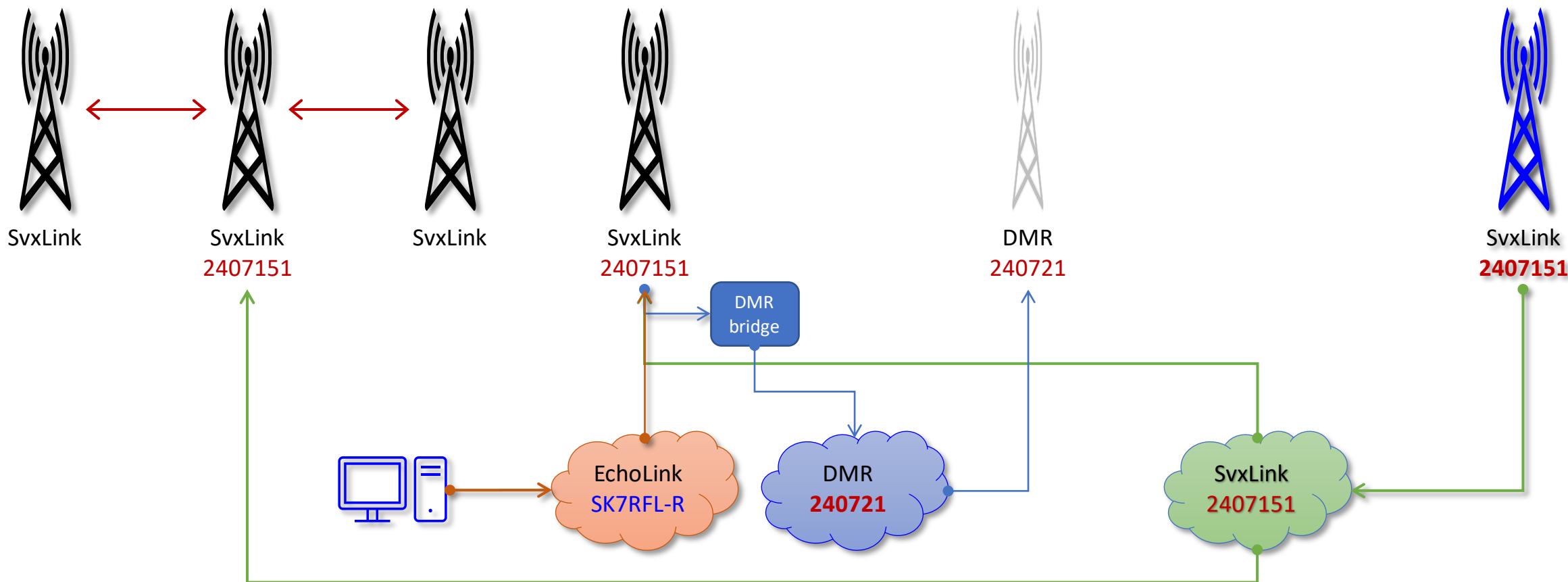
Böda
SK7RN-N
145,750

Borgholm
SK7RN-C
145,6625

Mörbylånga
SK7RN-S
145,625

Algutsrum
SK7RFL
145,600
434,600

Spjutsbygd
SK7JL
145,725





SK7RN
Ölands
Radioamatörer



Repeater Flitiga Lisa - SK7RFL

JO86gq · SvxFLink · EchoLink SK7RFL-R 353167 · DMR 240717

Start from SK5BN



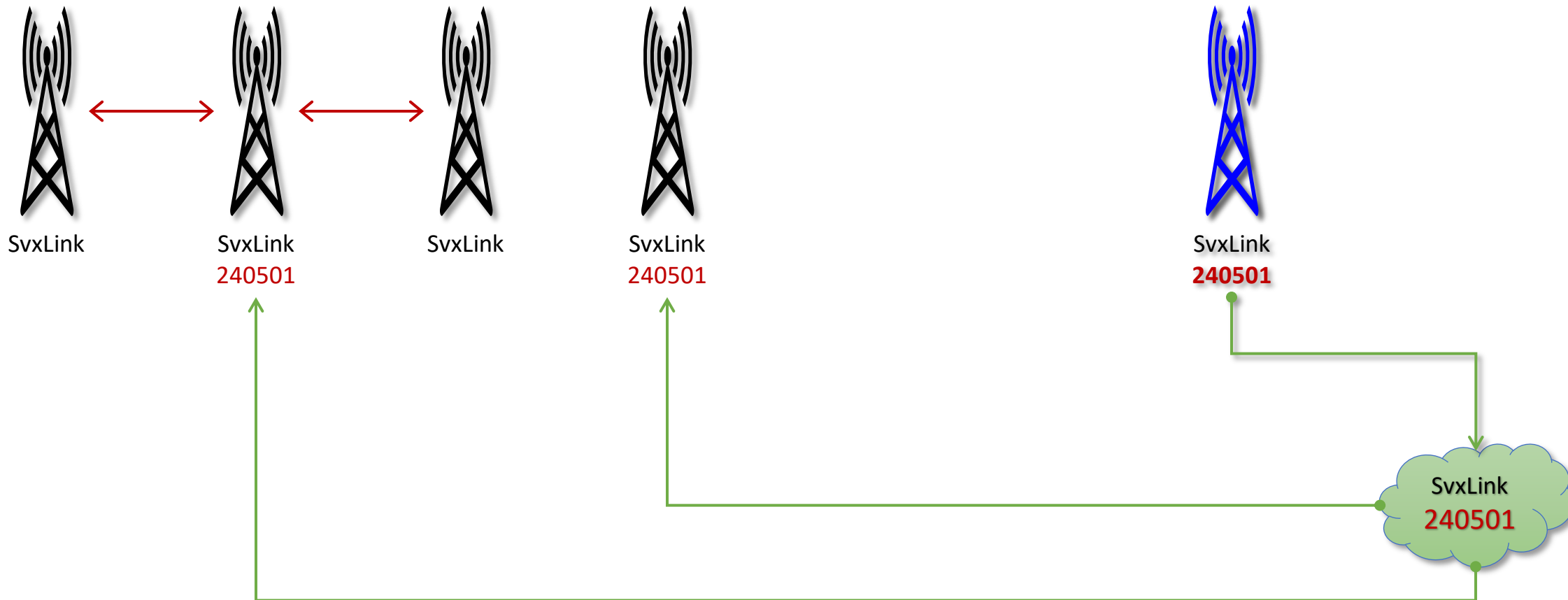
Böda
SK7RN-N
145,750

Borgholm
SK7RN-C
145,6625

Mörbylånga
SK7RN-S
145,625

Algutsrum
SK7RFL
145,600
434,600

Norrköping
SK5BN
434,600





SK7RN
Ölands
Radioamatörer



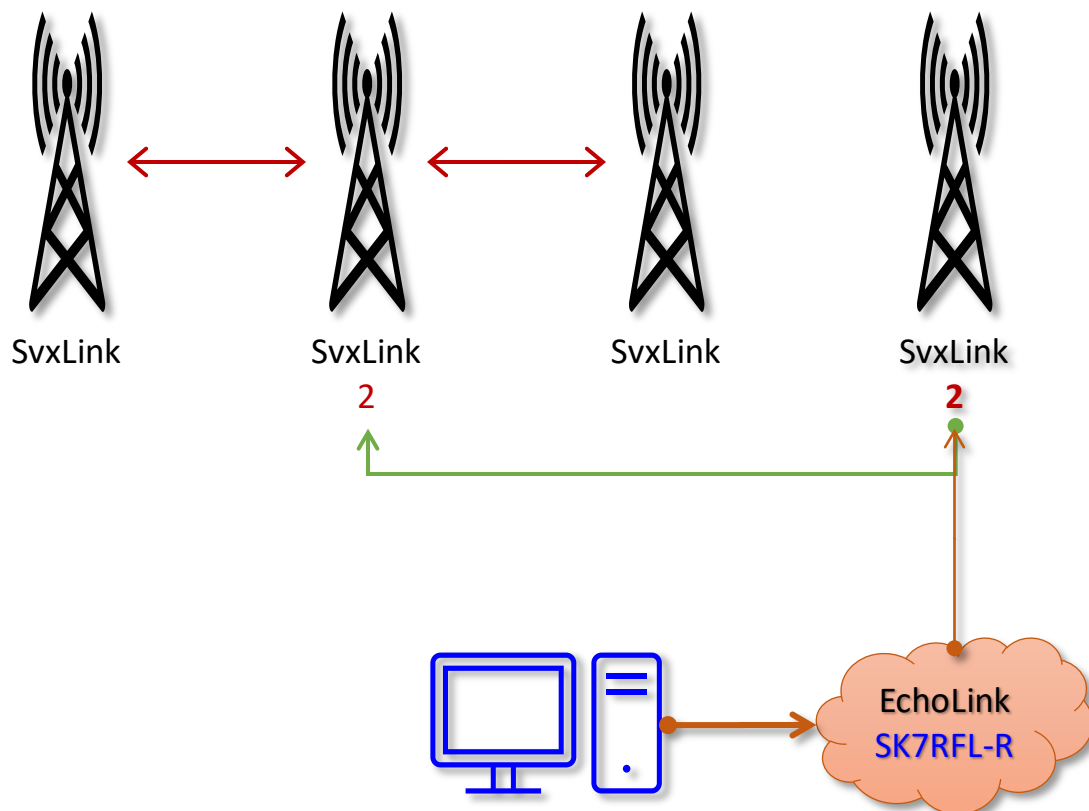
Repeater Flitiga Lisa - SK7RFL

JO86gq · SvxFLink · EchoLink SK7RFL-R 353167 · DMR 240717

Start from SK7RFL EchoLink



<u>Böda</u>	<u>Borgholm</u>	<u>Mörbylånga</u>	<u>Algutsrum</u>
SK7RN-N	SK7RN-C	SK7RN-S	SK7RFL
145,750	145,6625	145,625	145,600
			434,600



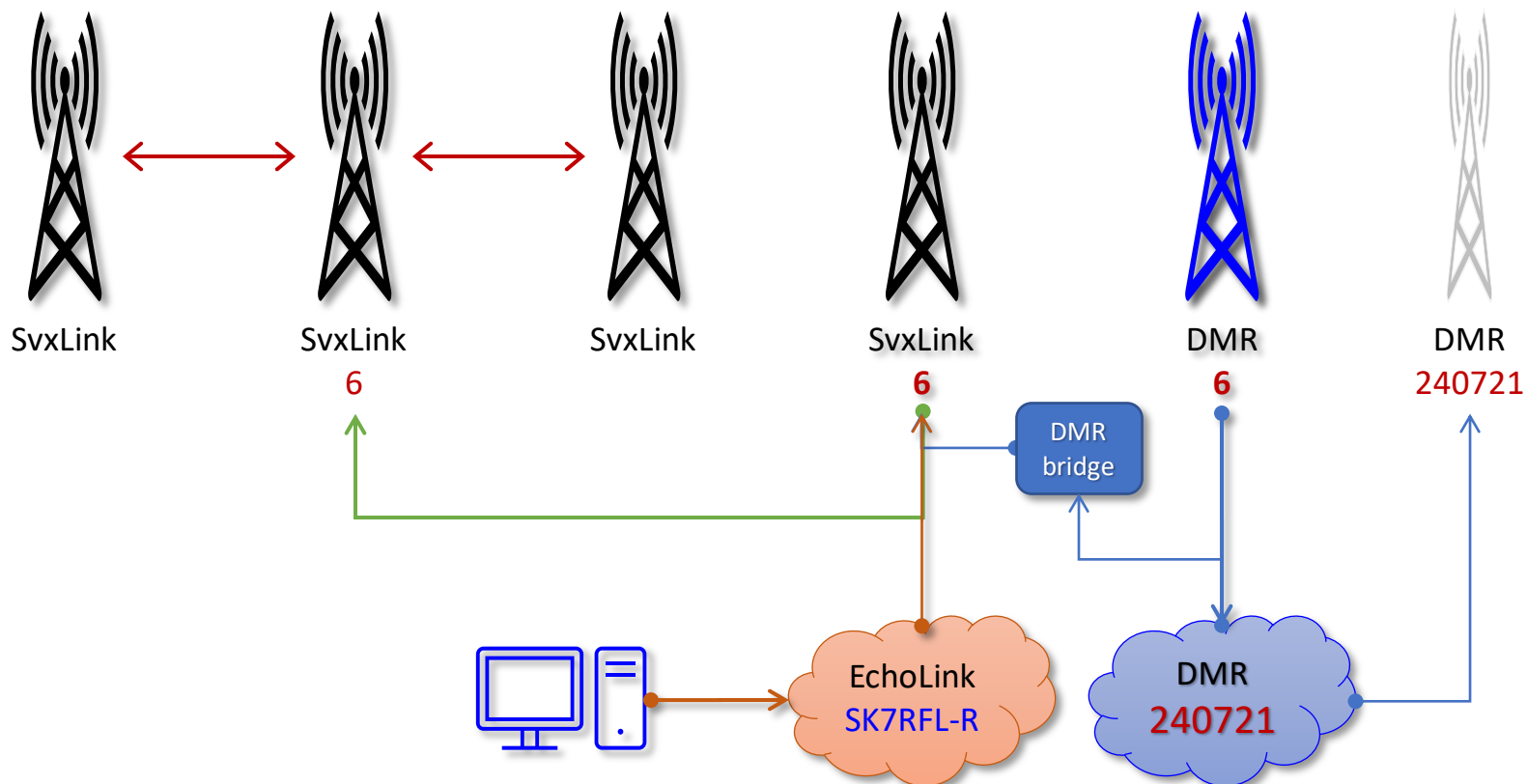


Start from SK7RFL DMR talk group 6



 **Repeater Flitiga Lisa - SK7RFL**
JO86gq · SvxFlink · EchoLink SK7RFL-R 353167 · DMR 240717

<u>Böda</u>	<u>Borgholm</u>	<u>Mörbylånga</u>	<u>Algutsrum</u>	<u>Algutsrum</u>
SK7RN-N	SK7RN-C	SK7RN-S	SK7RFL	SK7RFL
145,750	145,6625	145,625	145,600 434,600	434,550





SK7RN
Ölands
Radioamatörer



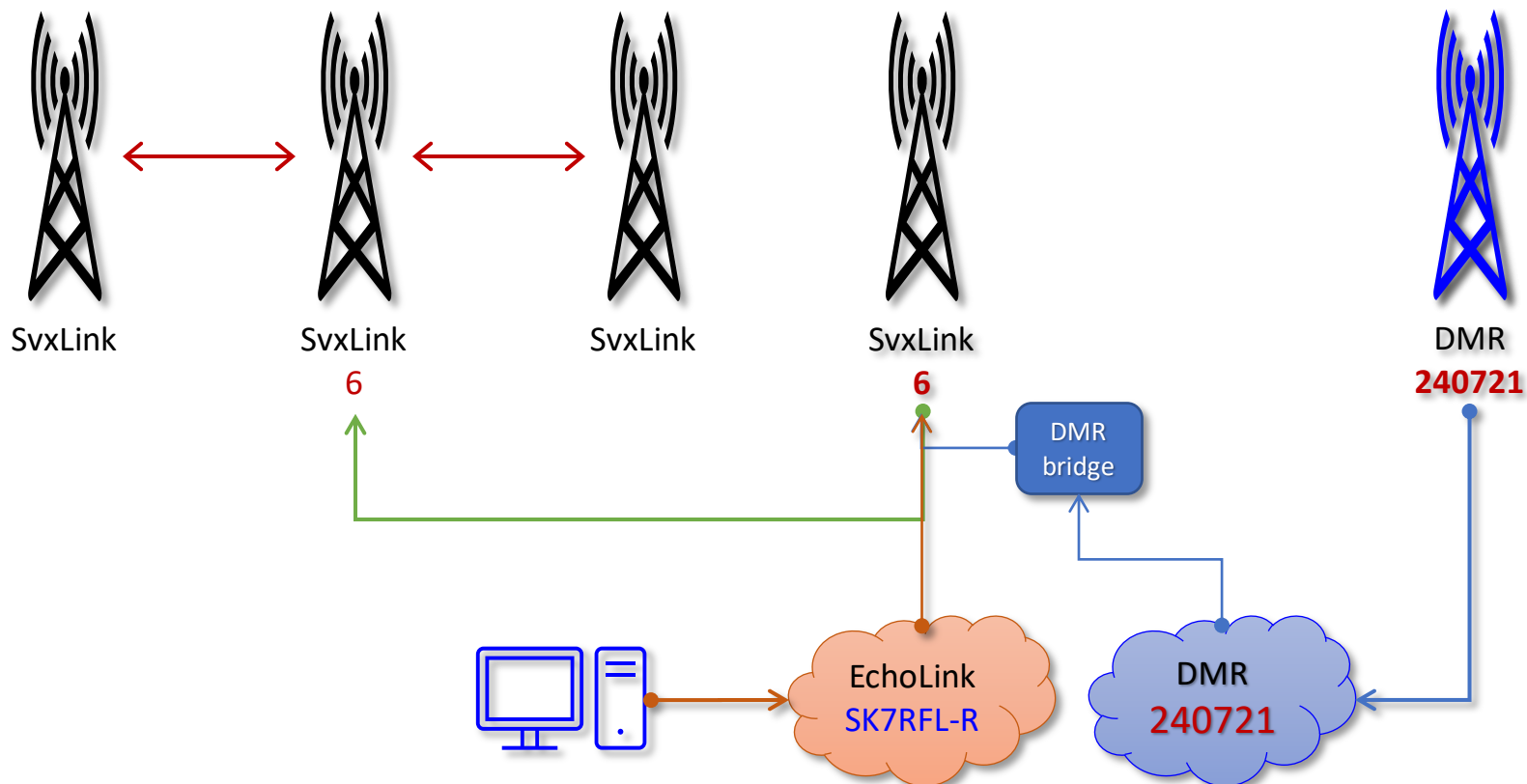
Repeater Flitiga Lisa - SK7RFL

JO86gq · SvxFLink · EchoLink SK7RFL-R 353167 · DMR 240717



Start from DMR talk group 240721

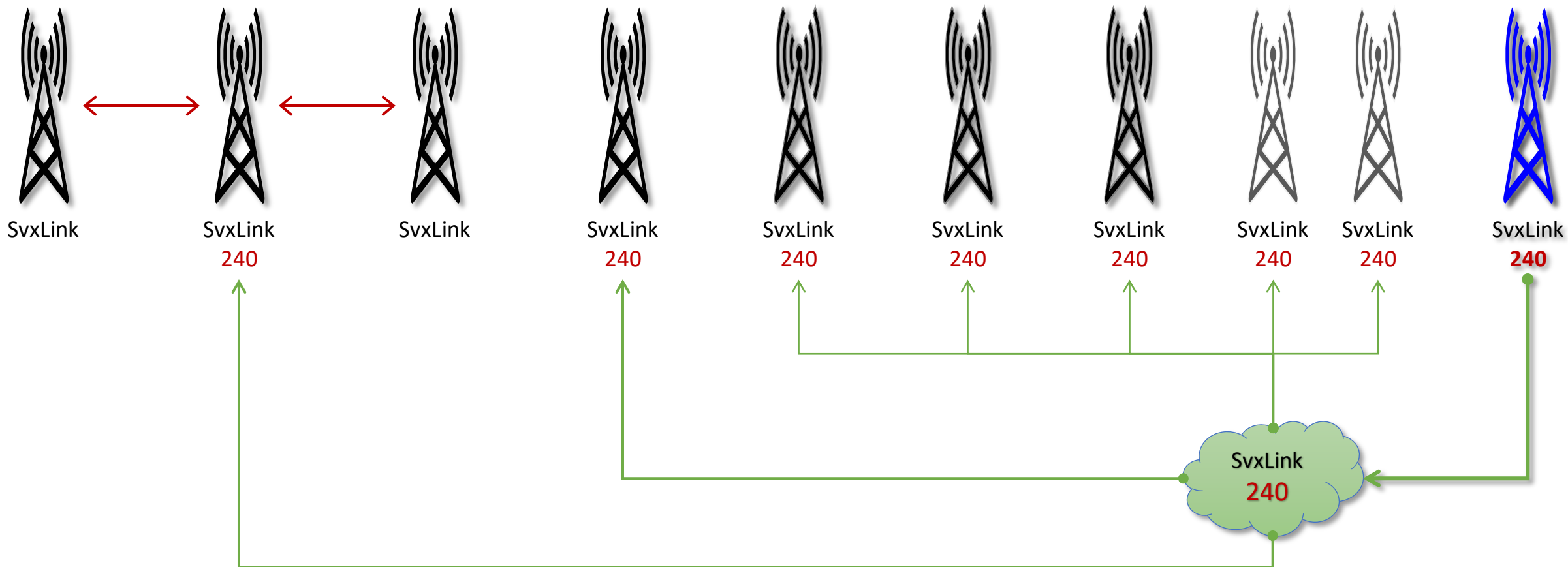
<u>Böda</u>	<u>Borgholm</u>	<u>Mörbylånga</u>	<u>Algutsrum</u>
SK7RN-N	SK7RN-C	SK7RN-S	SK7RFL
145,750	145,6625	145,625	145,600 434,600



Start from SvxLink talk group 240

Repeater Flitiga Lisa - SK7RFL
JO86gq · SvxLink · EchoLink SK7RFL-R 353167 · DMR 240717

<u>Böda</u>	<u>Borgholm</u>	<u>Mörbylånga</u>	<u>Algutsrum</u>	<u>Spjutsbygd</u>	<u>Göteborg</u>	<u>Göteborg</u>	<u>Länk x</u>	<u>Repeater y</u>	<u>Rpt "n"</u>
SK7RN-N	SK7RN-C	SK7RN-S	SK7RFL	SK7JL	SK6RFQ	SK6RFQ	SA0xxx	SK2yyy	SK3zzz
145,750	145,6625	145,625	145,600 434,600	145,725	145,650	145,650			





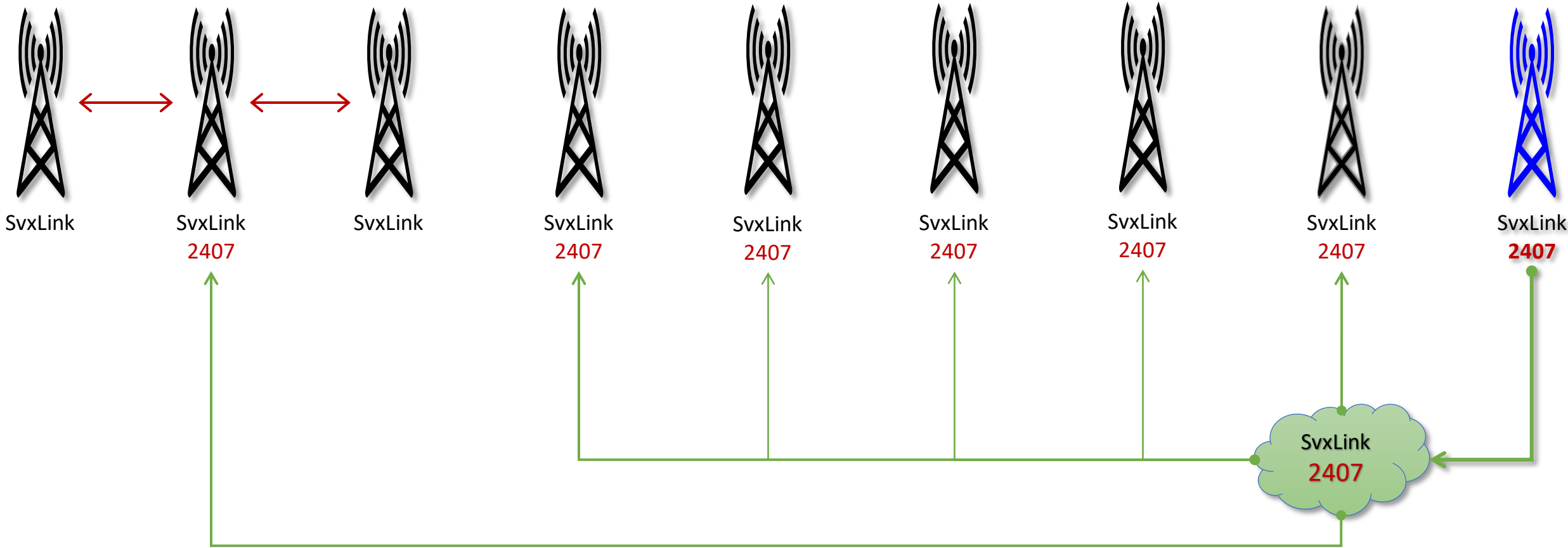
SK7RN
Ölands
Radioamatörer

Start from SvxLink 2407



Repeater Flitiga Lisa - SK7RFL
J086gq · SvxLink · EchoLink SK7RFL-R 353167 · DMR 240717

<u>Böda</u>	<u>Borgholm</u>	<u>Mörbylånga</u>	<u>Algutsrum</u>	<u>Kristianstad</u>	<u>Växjö</u>	<u>Helsingborg</u>	<u>Spjutsbygd</u>
SK7RN-N	SK7RN-C	SK7RN-S	SK7RFL	SK7BQ	SK7HW	SK7REE	SK7JL
145,750	145,6625	145,625	145,600 434,600	145,600	145,675	145,650	145,725





SK7RN
Ölands
Radioamatörer



Repeater Flitiga Lisa - SK7RFL

JO86gq · SvxFLink · EchoLink SK7RFL-R 353167 · DMR 240717

Start from SvxFLink 2400



Ingarö
SK0MM
145,775

Stockholm
SK0BO
145,2375

Färingsö
SM0SVX
433.475

Täby
SK0RMT
433.525

Kista
SK0CT-70
434.625



SvxFLink
2400



SvxFLink
2400



SvxFLink
2400



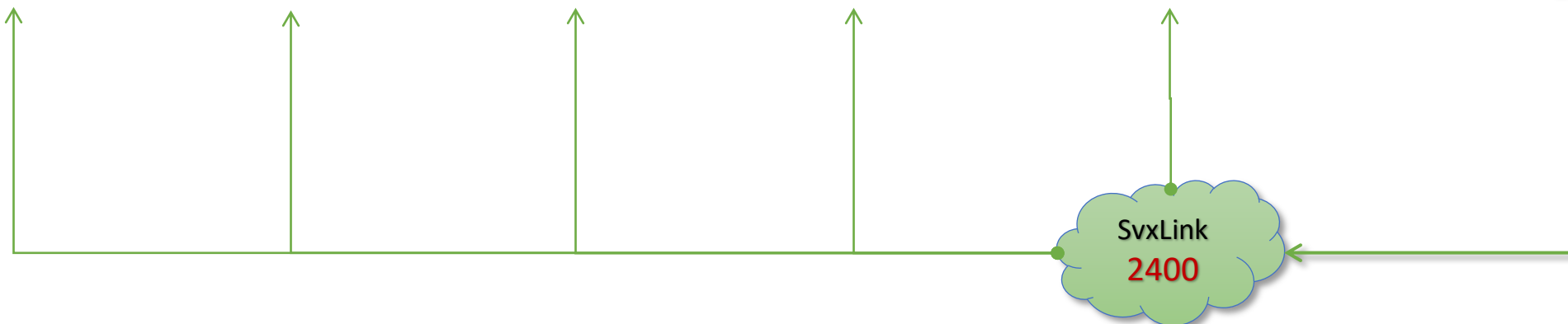
SvxFLink
2400



SvxFLink
2400



SvxFLink
2400

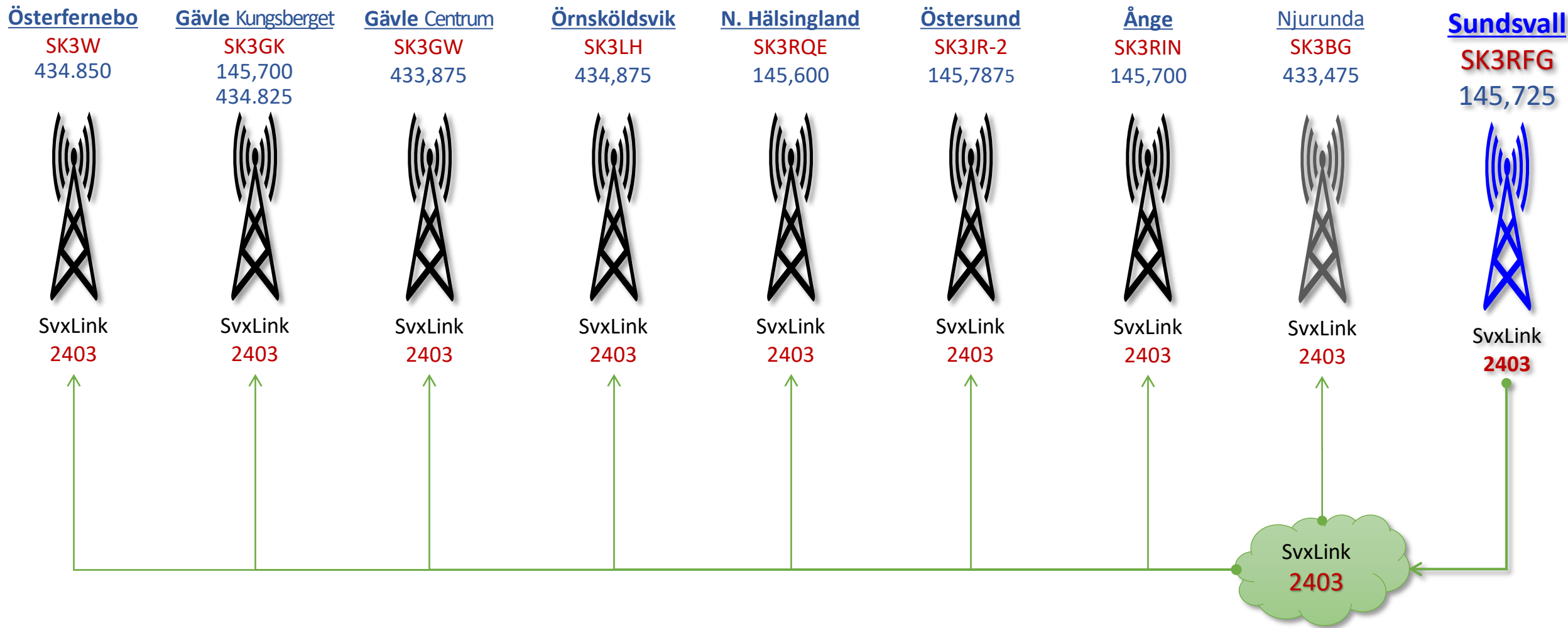




SK7RN
Ölands
Radioamatörer

Start from SvxLink 2403

 **Repeater Flitiga Lisa - SK7RFL**
J086gq · SvxFLink · EchoLink SK7RFL-R 353167 · DMR 240717



Start from SvxFLink 2405



Linköping

SM5YMS

434,800

Västerås

SK5RHQ-70

434,775

Linköping

SK5AS

145,7875

SK5RHT-10

29,660

Norrköping

SM5GXQ

145,2375

Fjuckby

SA5BJM

144,575

433,450

Eskilstuna

SK5LW

434,850

Norrköping

SK5BN

434,600



SvxFLink
2405



SvxFLink
2405



SvxFLink
2405



SvxFLink
2405



SvxFLink
2405



SvxFLink
2405



SvxFLink
2405

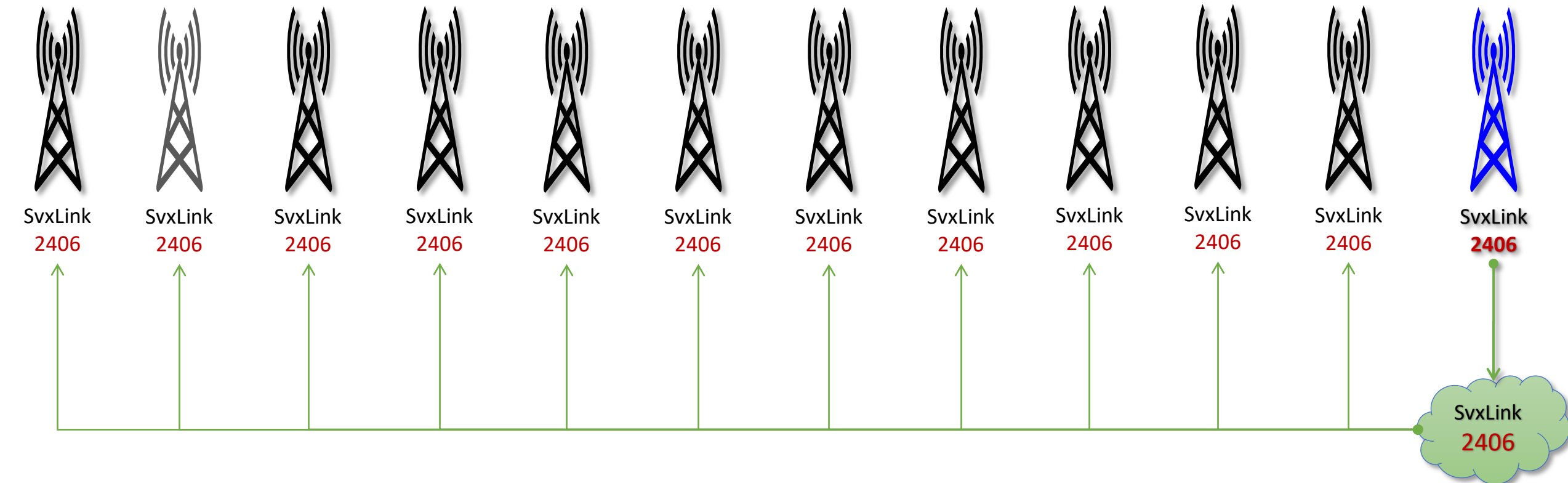


SvxFLink
2405



SvxFLink
2405

<u>Halland</u>	<u>Mark</u>	<u>Öckerö</u>	<u>Göteborg</u>	<u>Stenungsund</u>	<u>Alingsås</u>	<u>Skaftö</u>	<u>Uddevalla</u>	<u>Lysekil</u>	<u>Kungshamn</u>	<u>Tanum</u>
SK6JX	SM6TZL	SK6RKI	SK6RFQ	SK6QA	SK6RIC-70	SM6LNJ	SL6ZAQ	SK6IF	SK6IF-2K	SK6IF-2T
145,625	145,2375 434,225	145,750	145,650	145,7125	434,625	434,950	145,6375	145.600	145,675	145,575
			434,650	434,5625				434,800		
SM6SXJ	SM6UNC				SM6ZDO		SM6UDU			
434,8875	145,3375				145,2375		434,775			
	SA6GDS		SM6XGP	SM6OEQ						
	145,2875		145,3125	434,500						





What is needed?

Hardware
Software

Repeater
Users

For Users

Just an ordinary 2m or 70cm FM transceiver!

Additions:

+ CTCSS

- *if the repeater requires CTCSS for squelch.*
- *if the repeater requires CTCSS for opening.*
- *for manual selection of talk groups.*

+ DTMF

- *for manual selection of talk groups.*
- *EchoLink*
- *for other commands.*

*Each and everyone uses the system
according to their own interest and ability.*

SM5GXQ Peter Lindquist

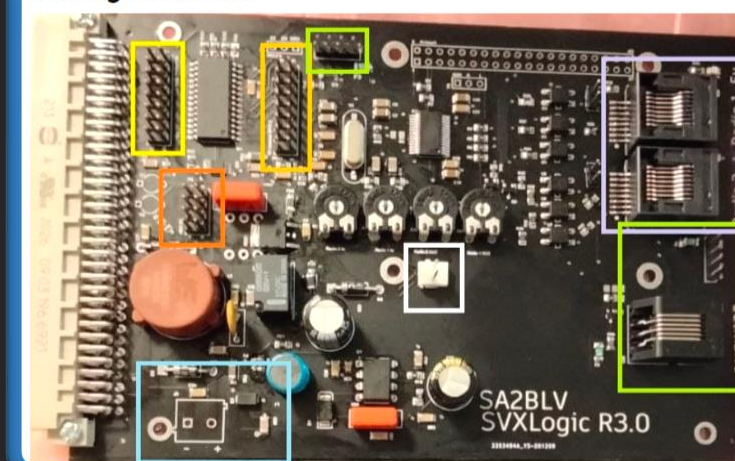
Repeaters



- All existing repeaters can be converted to SvxFlink.
 - The current repeater logic will be replaced by SvxFlink on site.
- **Computer**
 - Raspberry Pi 3 or 4; Memory card; 5V PSU.
- **Software**
 - Raspberry Pi OS (Linux): <https://www.raspberrypi.com/software/>
 - Compile SvxFlink from source: <https://github.com/sm0svx/svxfink>
- **Interface**
 - External audio device.
 - PTT control.
 - Squelch.
 - Interface by SA2BLV: https://radioinorr.se/?page_id=377
- **Connection to Tx and Rx**
 - Un-squelched "discriminator" output.
 - Direct "modulator" input.
 - Deemphasis | Preemphasis.
- **Calibration**
 - Audio levels ([devcal](#)).
 - Signal levels ([siglevdetcal](#)).
- **Configuration**
 - [svxfink.conf](#)
 - [node_info.json](#)
- **CTCSS**
 - Repeater start
 - Talk group activation
 - Squelch
- **ReflectorLogic**
 - Monitored talk groups
 - Default talk group
- Connection to the **Internet**
- Connection to the **Swedish Reflector**
 - Registration: <https://reflector-sm.svxfink.org/genpw?callsign=SM0XYZ>
 - E-mail time-stamp to: reflector-sm-join@svxfink.org



SvxFlink 3.0 / 3.1



SA2BLV's
interface for
2 Rx/Tx

12V->5V
regulator,
Audio device

Fits directly into a
MTR2000 or F800
with an adapter.

Cables for Yaesu
DR1/DR2 as well as
Motorola GM3xx.

FAQ

- Can I start and use the repeater, just as before?
 - **Yes, absolutely!**
 - The traffic on any of our repeaters are automatically bridged between SK7RFL and SK7RN.
 - The link is activated after the first transmission.
- Do I need to know how SvxFLink works?
 - **No, in fact not.**
 - You may wish to make use of only the functions that you are interested in.
- There seems to be an awful lot of talk groups and commands. Do I really need to know and understand this?
 - **No. In fact, you don't need to understand any functions at all.**
 - Start by learning to use the most common talk groups, such as 240.
 - Try to learn the commands that you are interested in.
- Will there now be a lot more traffic on the repeaters?
 - No, probably not. Any increase in traffic may also be wanted.
- Do I need to be able to transmit DTMF and/or CTCSS to use the repeaters?
 - No, you can still activate our repeaters by using **1750** Hz tone burst.
 - Our repeaters may also be activated with CTCSS **79,7** Hz.
 - You may use **DTMF** to activate certain functions.
- How can I reply to an incoming call from a talk group?
 - Just press your **PTT** and reply, as usual. Remember to do this while the repeater is still active.
- How do I know if any talk group is activated.
 - The repeater will announce this verbally.
 - Give the DTMF command **9***.



Sources for further information

Documents

Web pages

FAQ

SVX Portal 2.5

SVX Portal

Klienter

Övervakning

Stationsinfo

Systembeskrivning

Talgrupper

Mottagarlistor

Statistik

Log

Mottagare

CTCSS Mapping

Karta

SA2BLV 2022

https://svxportal.sm2ampr.net

RegistreraSWELogga in

Aktiva noder

Anropssignal	TG#	Aktiv	Övervakade TGs	Start tid	Aktiv tid
SA0CAM	0	Nej	240 2400 24020 24070		
SA3AUX	0	Nej	240 2402 2403 2404 2406 24020 24033 24063 24070 24098		
SA5BJM	0	Nej	240 2405 24020 240582		
SA6GDS	0	Nej	240 2406 24061 24063 24070 24098		
SK0RMT	0	Nej	240 2400 2405 24070		
SK2AZ	0	Nej	240 2402 24020 24021 24022 240211		
SK2AZ-L	0	Nej	24020 240211		
SK2RIU	0	Nej	240 2402 24020 24021 24022 24033 240210		
SK2RWJ	0	Nej	240 2402 24020 24021 24022 240211		
SK3BG	0	Nej	91 92 235 240 242 244 2402 2403 24033 24070 240306 2403042		
SK3GK	0	Nej	240 2403 24020 24031 24070 240305		
SK3GW	0	Nej	240 2403 24020 24031 24070		
SK3LH	0	Nej	240 2402 2403 24020 24021 24022 24033		
SK3RFG	0	Nej	91 240 2403 24021 24022 24033 24070 240301		
SK3RIN	0	Nej	240 2402 2403 24021 24033 24070 240306		
SK3RQE	0	Nej	240 2403 24020 24033 24062 24070 240541		
SK3W	0	Nej	240 2403 24020 24031 24099 2403100		
SK4RGL	0	Nej	240 2404 24041 24070		
SK5AS	0	Nej	240 2405 24055 24070		
SK5LW-2	0	Nej	240515		
SK5LW-70	0	Nej	240 2402 2405 24020 24022 24070 240515		
SK5RHO-2	0	Nej	240541		
SK5RHO-70	0	Nej	240 2405 240541		
SK6IF	0	Nej	240 2406 24062 24070		
SK6JX	0	Nej	240 2406 2407 24061 24070		
SK6QA	0	Nej	240 2406 24062 24070		
SK7JL	0	Nej	91 92 240 2407 24074 24078 2407151 24071519		
SK7RFL	0	Nej	91 92 240 924 927 2407 24078 240721 2407151		
SK7RN	0	Nej	91 92 240 924 927 2407 24078 2407151 2407364		
SM0SVX	0	Nej	240 2400 24020 24070 24099 2400238		
SM0SVX-L	0	Nej	2400238		
SM4FBD	0	Nej	240 2404 2406 24063 24098		
SM5GXQ	0	Nej	91 92 235 240 924 927 2405 2407 24078 24098 240501 2405174 2407151		
SM6LNU	0	Nej	240 2405 2406 24062 24064 24070		
SM6SXJ	0	Nej	91 92 240 2400 2401 2402 2403 2404 2405 2406 2407 24061 24062 24063 24070 24088 24098		
SM6TZL	0	Nej	240 2400 2402 2403 2404 2405 2406 2407 24061 24062 24063 24070 24098		

Aktiva talgrupper

TG	Nod
0	39

SVX Portal 2.5 - Priv...

12:31 2022-01-21

Meny

Granudden.info

Väderstation på Öland

Startsida

© Peter Lindquist

Från telegrafi till RAKEL (biografi)

Fd Arbete på Sjöfartsverket

JRCC Sweden Rescue (Facebook)

Väderstation (WX)

Live

Översikt

Live

Tabell

Prognos

Radar

Åska

Blommor

Fotoalbum

2021-08-01

Facebook

Album 2021 del 12

Twitter

Webcam

Live

Amatörradio

Repeatar

SK5BN

SK7RFL

SK7RN

SM5GXQ

SM5GXQ(en)

Logic

Macros

Repeaterkarta

SvxLink

EchoLink

SDR

DMR

Från telegrafi till RAKEL

en resa i tiden med tekniska förtecken

Bra Radiosamband räddar Liv

JRCC - en kritisk samhällsfunktion

Ge analoga repeatar nytt liv!

Ge analoga repeatar nytt liv!

SVX Portal

Repeater Flitiga Lisa - SK7RFL

Blogg

Links

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BOINC

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Admin

SM5GXQ SvXLinkDMR Simplex

Ej säker | www.granudden.info

/ SM5GXQ / Ham Radio / Repeaters / SM5GXQ

SM5GXQ

Rubrik	Beskrivning
SM5GXQ Repeater logic	Functions and commands
Bridged Traffic	DMR Bridge, International SvXLink Bridge
Macros	Macros for EchoLink
SvxLink	SvxLink website
Svx Portal Sweden	The Swedish SvX Portal
Svx Portal UK	The UK SvX Portal
Svx Portal Thüringen Link	Thüringen Link SvX Portal
EchoLink	EchoLink website
Introduction to SvXLink	Slideshow in English.
Slideshow 2021	Description of our Repeater System
Give new life to analogue repeaters	Article by SM5GXQ
Using a repeater with SvXLink	Article by SM5GXQ
Building a repeater with SvXLink	Article by SM5GXQ
SvxLink towards new heights	Article by SM5GXQ
SvxPortal installation	How to install SvX Portal v2.5 (beta)
SvxLink Installation Scripts	My SvXLink scripts.
SK7RFL.se	SK7RFL website
Repeaterskolan	SM5GXQ's Repeater School at SK7RFL

SM5GXQ Simplex node

SvxLink - DMR - EchoLink - YSF

Norrköping 145,2375 (October-April)

Färjestaden 145,2875 (May-October)

Note: Only analog FM over radio.

SM5GXQ is affiliated with the Swedish SvXReflector Netowrk.

- The talk groups below are statically monitored.
- SM5GXQ is also connected to other reflector networks, such as the international reflector in UK and Thüringen Link in Germany.
- Any talk group can be temporarily selected, using the DTMF command 91tg.
- Manually activated talk group is automatically routed to the right reflector.
- Temporary monitoring of other talk groups can be added, by using the DTMF command 94tg.

Repeater Flitiga Lisa — SK7RFL

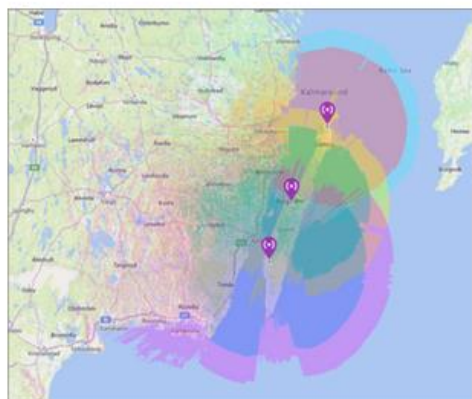
JO86GQ — SvxLink — Echolink SK7RFL-R 353167 — DMR 240721



Start ▾ Aktuellt ▾ Foto Teknik ▾ Repeaterlogik ▾ Digitalt ▾ SSA-bulletinen Svx-Portalen Repeaterskolan ▾

Välkommen till Repeater SK7RFL - QRV sedan 1972

Vi behöver ditt bidrag för att kunna fortsätta driva och utveckla SK7RFL (klicka!).

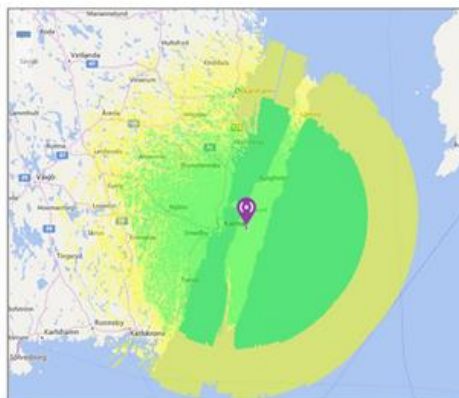


Repeatersystem

SvxLink
EchoLink
DMR

Öland

2022



Tillsammans med SK7RNs tre repeatrar i Böda - Borgholm - Mörbylånga, täcker vi hela Öland samt stora delar av Östra Småland. Repeater nätet kan även nås från delar av Blekinge och Gotland.

QTH Jordtorpsåsen nära Algutsrum på Öland.

Vi sitter i Ölands högsta mast som står 50 meter över havet.

SvxLink (introduktion)
Nätverk av analoga repeatrar

SvxLink >< DMR
Brandmeister talgrupp 240721

DMR-repeater
BM 240717 • DMR+ • TGIF

SK7RFL drivs som en neutral och oberoende repeater.

- Den är fristående från klubbtilhörighet.
- Det gäller även repeaterns webbplats.
- Alla är välkomna att använda SK7RFL, oberoende av klubbmedlemskap.
- Repeater drivs av SM7CLM och SM7GMD.
- [SM5GXQ](#) bidrar med konfiguration av SvxLink och Pi-Star samt repeaterns webbplats.
- Repeatern behöver stöd i form av (frivilliga) bidrag.

Stöd driften av SK7RFL med ett bidrag!
Swisha till 0736-159836.

Eller gör överföring till bankkonto **9159-025.429-7.**



Repeaterskolan

Lektioner

1. [Allt är som vanligt](#)
2. [Våra länkade repeatrar](#)
3. [SvxLink](#)
4. [Svx-portalen](#)
5. [Talgrupper](#)
6. [Kommandon](#)
7. [Val av talgrupp](#)
8. [QSY-kommando](#)
9. [Lokalt QSO](#)
10. [Passning av extra talgrupp](#)
11. [EchoLink](#)
12. [Bulletin mode](#)
13. [Papegoja](#)
14. [Väder](#)
15. [ID & status](#)
16. [Tonkaraktärer](#)
17. [Vad är DMR?](#)
18. [DMR: Verifiera kontakt](#)
19. [DMR: Talgrupp 9](#)
20. [DMR: Talgrupper](#)
21. [DMR: Passning](#)
22. [DMR: Kodplugg](#)
23. [Hur låter jag?](#)
24. [Talgrupp 240 på SvXLink](#)
25. [Automatisk QSY från talgrupp 240](#)
26. [Verbala meddelanden från repeatern](#)
27. [D-Star på SK7RFL](#)
28. [Aktivera talgrupp 240 på SvXLink](#)
29. [Analog & Digital Radio \(bildspel\)](#)

Välkommen till min nyrenoverade "Repeaterskola". Här belyser jag i första hand användandet av olika funktioner i SvXLink. Det finns även information om de digitala moderna DMR | YSF | D-Star. Det finns delar som är specifika för de repeatrar som jag själv administrerar, och där funktionalitet avviker från SvXLink standard har detta markerats.

I viss mån beskrivs även hur man installerar och sätter upp en repeaterlogik, information som är överkurs för de flesta användare.

Det finns givetvis många andra aspekter på hur en repeater bör vara konstruerad - t ex när det gäller placering, antenner, kablage, radiostationer, bandbredd, filter etc. Jag har dock valt att låta detta ligga utanför ramen för denna repeaterskola, samt de artiklar jag publicerat i ämnet SvXLink. Främst pga att jag själv inte anser mig ha tillräcklig kompetens inom det området. Men det innebär förstås inte att dessa tekniska aspekter på något sätt skulle vara mindre viktiga.

Har man frågor inom det radiotekniska området, bör man istället vända sig till någon som har mångårig erfarenhet av repeaterbyggen - och då i synnerhet när det gäller regler och riktlinjer för repeatrar, till SSAs Repeaterfunktionär. Den officiella repeaternormen finns att ladda ner från [SSAs webbplats](#).

Supplement

1. [Hur når jag Öland från andra noder på SvXLink?](#)
2. [SK7RFL och SK7RN är sammankopplade](#)
3. [Länkning av EchoLink mellan SK7RFL och SK7RN](#)
4. [Länkning mellan DMR och SvXLink](#)
5. [Regionala talgrupper 24073, 24078 samt 240717](#)
6. [Utvecklingar av SvXLink - avsteg från standard](#)
7. [Anslutning av repeater till SvXLink](#)
8. [DMR-brygga för SvXLink](#)
9. [Kombinerad squelch - signalstyrka eller subton](#)
10. [Equalizer för DMR](#)
11. [Länk-flöde](#)
12. [Förbättringar av Bulletin Mode](#)
13. [Olika DMR-nätverk](#)
14. [Repeatersystem Öland 2021](#)
15. [EchoLink och DMR.](#)
16. [SvXLink SK7RFL SK7RN SK5BN](#)
17. [EchoLink och DMR på SvXPortalens mottagarlista.](#)
18. [Introduktion till SvXLink \(bildspel\).](#)
19. [Introduction to SvXLink \(slide show\).](#)
20. [Repeaterskolan 2022 \(pdf\).](#)
21. [Förändringar i DMR-bryggan.](#)
22. [Talgrupper i SM7.](#)
23. [DMR, D-star och YSF på SM5GXQ Simplexnod](#)
24. [Sweden Hub - nu även på SvXLink.](#)
25. [Överkurs \(länkar & bryggor mm\).](#)
26. [Kortare introduktion till SvXLink \(bildspel\).](#)



Documents

- Give new Life to analogue Repeaters!
- Building a Repeater with SvxFLink.
- Using a Repeater With SvxFLink
- SvxFLink towards new Heights
- SK7RFL SK7RN Repeater System Öland
- Analogue & Digital Radio
- SK7RN
- SK7RFL (in English)
- Repeaterskolan
- SSA Bulletin
- SvxF Portal
- SvxFLink
- National Reflector Network
- SM5GXQ
- This Slide Show

<https://sk7rfl.se/doc/Give%20new%20life%20to%20analogue%20repeaters!.pdf>

<https://sk7rfl.se/doc/Building%20a%20Repeater%20or%20Simplex%20node%20with%20SvxFLink.pdf>

<https://sk7rfl.se/doc/Using%20a%20Repeater%20with%20SvxFLink.pdf>

<https://sk7rfl.se/doc/SvxFLink%20towards%20new%20heights.pdf>

<https://sk7rfl.se/doc/SK7RN-SK7RFL-RepeaterSystem-Öland-2021-en.pptx>

<https://sk7rfl.se/doc/SvxFLink%20DMR%20D-Star%20YSF.pptx>

<http://www.sk7rn.se/repeatrar/>

<https://www.sk7rfl.se/start/english>

<https://www.sk7rfl.se/repeaterskolan/>

<https://www.sk7rfl.se/bulletin>

<http://svxfportal.sm2ampr.net/#>

<http://www.svxfLink.org/>

<https://svxfportal.sm2ampr.net/#Echolink>

<http://www.granudden.info/Ham/>

<https://sk7rfl.se/doc/SvxFLink-en.pptx>



Repeater Flitiga Lisa - SK7RFL

J086gq · SvxFLink · EchoLink SK7RFL-R 353167 · DMR 240717

The End