



### RAYNET Technology Survey - Introduction

The Committee of Management have asked the Technical Team to advise on the future technological direction for RAYNET. While our strengths have been in robust voice communications, there are so many competing digital technologies for voice and data transmission we need to understand what groups are using now and what their attitude to change may be in future.

Some questions ask about your group's current capacities ( e.g. 'how many members have?' or 'what are the chances of?' ), absolute data is not needed. This survey is looking for trends and subjective answers are quite acceptable.

Most questions are mandatory as your answers are used to navigate through the survey to make sure you are not asked irrelevant questions. These questions are marked with an asterisk. You can navigate through the survey using the 'Back' and 'Next' buttons, nothing is committed until you press the 'Done' button at the end of the survey ( please don't forget to do this ! ).

This survey should take no more than 15-20 minutes to complete and it would be appreciated if groups could respond by 16th September.

Only one response per group is required so if we start with your name and contact details we can move onto the technical bits :-)

\* 1. Name and Callsign

\* 2. Group Name and Group Number ( nn/XX/xxx)

3. Is there a different email address you would like us to use if there are any supplementary questions?



## RAYNET Technology Usage

### Modes

\* 4. What modes does your RAYNET group use ( select all that apply ) ?

- ☐ CW
- ☐ AM
- ☐ SSB
- ☐ FM
- ☐ Data ( Including APRS )
- ☐ Digital Voice

5. If not using digital voice, how likely are you to be using it in 5 years time?

Not a chance		25% Chance		50% chance		75% chance		100% Certainty
<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>



### Digital Voice

6. If you use Digital Voice, what mode(s) do you use ( select all that apply )?

- ☐ D-Star
- ☐ DMR
- ☐ Fusion
- ☐ VoIP ( like Allstarlink )
- ☐ FreeDV

Other (please specify)

\* 7. What percentage of your members have digital voice capability ?

0%		25%		50%		75%		100%
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



### Bands and messaging

\* 8. What bands does your RAYNET Group use ( select all that apply ) ?

- ☐ HF
- ☐ 6m
- ☐ 4m
- ☐ 2m
- ☐ 70cm
- ☐ Microwave bands

\* 9. How frequently does your group practice formal message handling on any amateur mode?

Never	Bi-Annually	Annually	Quarterly	Monthly
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



# RAYNET Technology Usage

## PMR

\* 10. Do you use Analogue PMR on RAYNET Events?

- ☐ Yes
- ☐ No

\* 11. Do you use Digital PMR on RAYNET Events?

- ☐ Yes
- ☐ No

12. If you don't use PMR how likely are you to be using it in 5 years time?

Not a chance		25% chance		50% chance		75% chance		100% certainty
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



### PMR in detail

\* 13. What PMR bands do you use?

- ☐ Low band VHF
- ☐ High band VHF
- ☐ UHF

\* 14. What do you use PMR for?

- ☐ Privacy
- ☐ Interoperability
- ☐ Loan Radios to Event Organisers
- ☐ Other (please specify)

\* 15. How frequently does your Group practice with the use of PMR radios?

Never	Bi-annually	Annually	Quarterly	Monthly
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



## RAYNET Technology Usage

### What are we asked to provide?

\* 16. What do your User Services expect you to provide on events?

- ☐ Voice Comms
- ☐ Data Comms
- ☐ E-Mail Connectivity
- ☐ Position reporting
- ☐ Images ( still )
- ☐ Images ( moving )
- ☐ Don't know

\* 17. What do your User Services expect you to provide in emergencies?

- ☐ Voice Comms
- ☐ Data Comms
- ☐ E-Mail Connectivity
- ☐ Position reporting
- ☐ Images ( still )
- ☐ Images ( moving )
- ☐ Don't know



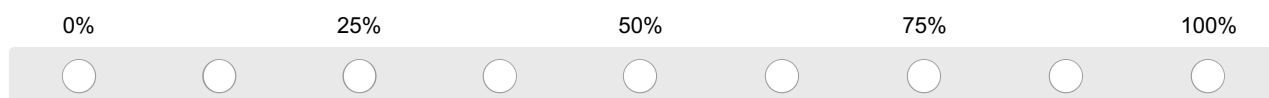
## Data modes

\* 18. What data software do you use?

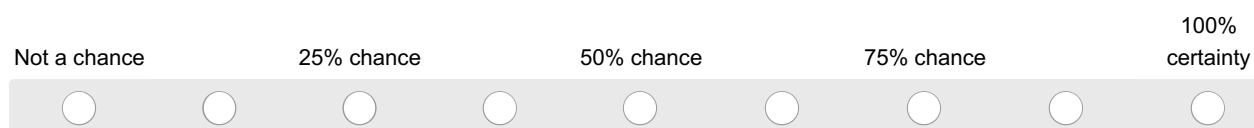
- ☐ FLdigi
- ☐ HRD
- ☐ MultiPSK
- ☐ DigiPAN
- ☐ EasyPAL
- ☐ Dumb Terminal
- ☐ BPQ
- ☐ RMS Express
- ☐ Airmail
- ☐ UI-View
- ☐ Xastir
- ☐ D-RATS
- ☐ NONE

Other (please specify)

\* 19. What percentage of your group are equipped for Amateur Data Modes?



20. If you are not using data modes now, do you anticipate using them in 5 years time?







## RAYNET Technology Usage

### Data usage

\* 21. What do you use your data capability for?

- ☐ Images
- ☐ Formal Messages
- ☐ E-Mail
- ☐ File Transfer
- ☐ VoIP
- ☐ Other (please specify)

\* 22. Does your group operate permanent infrastructure to support data operations if so what?

- ☐ APRS Digi
- ☐ AX25 Digi
- ☐ BBS
- ☐ E-Mail Gateway
- ☐ We do not have any permanent infrastructure



## RAYNET Technology Usage

### High Speed Data ( HAMNET/HSMM/Wifi etc. )

\* 23. Does your group use High Speed Data ( e.g. WiFi )

☐ Yes

☐ No



## RAYNET Technology Usage

### High speed Data Detail

\* 24. What bands do you use to transmit High Speed Data?

- ☐ 1.3GHz
- ☐ 2.4GHz
- ☐ 3.4GHz
- ☐ 5.4GHz
- ☐ 10GHz

\* 25. How many simultaneous point to point links can your high speed wifi support ( i.e. how much equipment have you got )?

1	2	3	4	5	6	7	8	9	10+
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\* 26. What modes do you use for High Speed data?

- ☐ D-Star
- ☐ IEE 802.x
- ☐ Other (please specify)

\* 27. How frequently does your group use its High Speed Data Capability?

Never	Bi-annually	Annually	Quarterly	Monthly
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



## RAYNET Technology Usage

### Commercial data services

\* 28. Do you use a commercial high speed data service ( e.g. Inmarsat BGAN )

☐ Yes

☐ No

\* 29. How likely are you to use a commercial high speed data service in the next 5 years?

Not a chance		25% chance		50% likely		75% chance		100% certainty
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



## RAYNET Technology Usage

### Commercial data funding

\* 30. If you use a commercial high speed data service who funds it?

- ☐ Group
- ☐ User Service
- ☐ Other (please specify)



### Change...

\* 31. How receptive do you think your group is to new modes ( purely subjective question )?

Unlikely to  
change

Would  
change if  
given a good  
reason

Proactively  
seeking new  
technologies  
to try.

☐☐☐☐☐☐☐☐☐

32. What to you think the barriers are to change?

\* 33. If a national standard was adopted that was not your current usage, how likely are you to adopt it?

Not likely at  
all.

Would  
change  
reluctantly

Would  
change as  
soon as  
possible

☐☐☐☐☐☐☐☐☐



## RAYNET Technology Usage

Any final comments?

34. Have you any comments on the survey?



## RAYNET Technology Usage

### Survey Submission

Thanks for taking part in the survey. The results will be collated and submitted to the CoM to provide a better picture of what is in use and what the potential is for change.

Clicking the 'Done' button below submits your data for analysis.

If you have any more questions please contact us through [technical@raynet-uk.net](mailto:technical@raynet-uk.net).