



AIR/ GROUND COMMUNICATION QUESTIONNAIRE ANALYSIS

STATE NAME:

The information presented in this document is an analysis of the response from states to the APIRG IIM Sub-Group Air/Ground Communication Project 3 Questionnaire and supporting document(e.g. excel spreadsheet)

1. COMMUNICATION STATIONS/SITES

1.1. NUMBER OF STATIONS/SITES

System/Equipment	Number of sites/Stations			
	<i>Tx only</i>	<i>Rx only</i>	<i>Combined Tx & RX</i>	<i>Total sites/stations</i>
1. HF Voice				
2. VHF Voice				
3. HF Datalink				
4. VHF Datalink				
4. CPDLC				
5. SATCOM				

The table presents the number of stations for all the communication systems.

Interpretation of the table for HF, VHF, HFDL, VDL, CPDLC, SATCOM

1.2. STATIONS SITE CODES

1.2.1. CPDLC

<i>Site Name</i>	<i>Logon Codes</i>

Writeup on the information presented

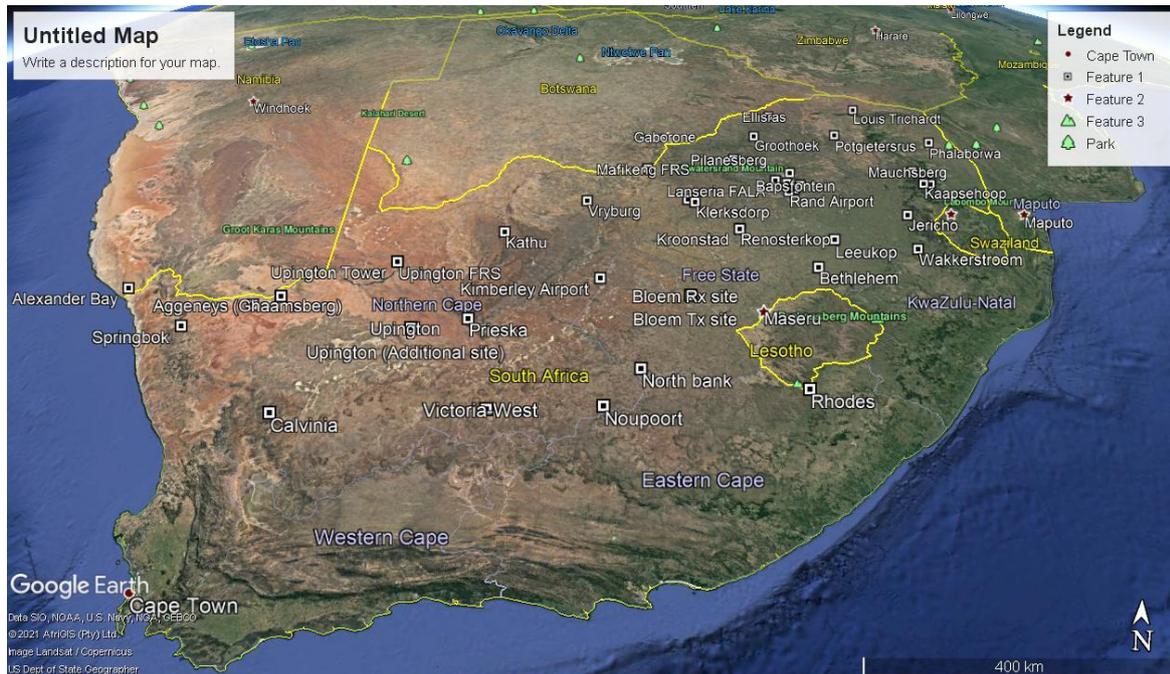
1.2.2. SATCOM

<i>Site Name</i>	<i>INMARSAT Codes</i>

Write up on Information presented

1.3. STATIONS/SITES GEOGRAPHICAL LOCATION

The map below presents the geographical location of the sites indicated above.



1.4. STATION/SITE RELATED CHALLENGES

Write up about challenges that are related to a specific site but categorized per system.

HF, VHF, HF DL, VDL, CPDLC, SATCOM

2. HF VOICE

2.1. SYSTEM PERFORMANCE

2.1.1. AVAILABILITY

Write up on the Average Availability and also interpreting the number based on the number of stations/sites that the state has.

2.2. SYSTEM/EQUIPMENT INFORMATION

- 1. Equipment Life span:** *Present life span on a high level for all sites owned by the state. Highlight the site with the oldest systems the spreadsheet will have all the details as an appendix. (Include graph showing the life span instead of the table.)*
- 2. System OEM:** *Indicate OEM for the systems at the sites. (Include graphical representation concerning sites.)*
- 3. System/Equipment Ownership:** *Indicate how many systems owned and how many are leased. (Include graphical representation concerning sites.)*
- 4. Maintenance** *Indicate whether Maintenance is outsourced or conducted inhouse*

2.3. SUPPORTING SYSTEMS/EQUIPMENT



AIR/ GROUND COMMUNICATION QUESTIONNAIRE ANALYSIS

- 1. Maintenance monitoring system or tool** *Indicate whether there is a maintenance monitoring system or tool available.*
- 2. Back-up system:** *Present the number of backup systems available concerning all sites. (Include graph showing the number backup systems concerning the number of sites for the instead of the table.)*
- 3. Network** *Indicate the type of network used and indicate whether is traditional voice network or Ip network is in use. (Include graphic representation of the type of network used concerning the number of sites.)*

2.4. EQUIPMENT IP READINESS

Write up indicating which sites are ready and which ones are not. Include graphical representation of ready not ready sites if not all sites are IP ready.

2.5. SELCAL MIGRATION READINESS

Write up indicating which sites are ready and which ones are not. Include graphical representation of ready not ready sites if not all sites are IP ready.

2.6. OPERATIONAL CHALLENGES

Write up about operational challenges that are related to the system or frequency interference per site will be highlighted here.



AIR/ GROUND COMMUNICATION QUESTIONNAIRE ANALYSIS

3. VHF VOICE

3.1. SYSTEM PERFORMANCE

3.1.1. AVAILABILITY

Write up on the Average Availability and also interpreting the number based on the number of stations/sites that the state has. *(include a graphical representation of the site's availability)*

3.2. SYSTEM/EQUIPMENT INFORMATION

- 1. Equipment Life span:** *Present life span on a high level for all sites owned by the state. Highlight the site with the oldest systems the spreadsheet will have all the details as an appendix. (Include graph showing the life span instead of the table.)*
- 2. System OEM:** *Indicate OEM for the systems at the sites. (Include graphical representation concerning sites.)*
- 3. System/Equipment Ownership:** *Indicate how many systems owned and how many are leased. (Include graphical representation concerning sites.)*
- 4. Maintenance** *Indicate whether Maintenance is outsourced or conducted inhouse*

3.3. SUPPORTING SYSTEMS/EQUIPMENT

- 1. Maintenance monitoring system or tool** *Indicate whether there is a maintenance monitoring system or tool available.*
- 2. Back-up system:** *Present the number of backup systems available concerning all sites. (Include graph showing the number backup systems concerning the number of sites for the instead of the table.)*
- 3. Network** *Indicate the type of network used and indicate whether is traditional voice network or Ip network is in use. (Include graphic representation of the type of network used concerning the number of sites.)*
- 4. Other** *Indicate use of terrestrial links or satellite links for VHF coms network*

3.4. SYSTEM/EQUIPMENT IP READINESS

Write up indicating which sites are ready and which ones are not based on the responses. Include graphical representation of ready and not ready sites if not all sites are IP ready.

3.5. OPERATIONAL CHALLENGES

Write up about operational challenges that are related to the system or frequency interference per site will be highlighted here.



AIR/ GROUND COMMUNICATION QUESTIONNAIRE ANALYSIS

4. HF DATALINK

4.1. SYSTEM PERFORMANCE

4.1.1. AVAILABILITY

Write up on the Average Availability and also interpreting the number based on the number of stations/sites that the state has.

4.2. SYSTEM/EQUIPMENT INFORMATION

- 1. Equipment Life span:** *Present life span on a high level for all sites owned by the state. Highlight the site with the oldest systems the spreadsheet will have all the details as an appendix. (Include graph showing the life span instead of the table.)*
- 2. System OEM:** *Indicate OEM for the systems at the sites. (Include graphical representation concerning sites.)*
- 3. System/Equipment Ownership:** *Indicate how many systems owned and how many are leased. (Include graphical representation concerning sites.)*
- 4. Maintenance** *Indicate whether Maintenance is outsourced or conducted inhouse*
- 5. Other:** *If not implemented are there any plans.*

4.3. SUPPORTING SYSTEMS/EQUIPMENT

- 1. Maintenance monitoring system or tool** *Indicate whether there is a maintenance monitoring system or tool available.*
- 2. Back-up system:** *Present the number of backup systems available concerning all sites. (Include graph showing the number backup systems concerning the number of sites for the instead of the table.)*

4.4. OPERATIONAL CHALLENGES

Write up about operational challenges that are related to the system or frequency interference per site will be highlighted here.



AIR/ GROUND COMMUNICATION QUESTIONNAIRE ANALYSIS

5. VHF DATALINK

5.1. SYSTEM PERFORMANCE

5.1.1. AVAILABILITY

Write up on the Average Availability and also interpreting the number based on the number of stations/sites that the state has. *(include a graphical representation of the site's availability)*

5.1.2. VDL MODES

Write up on the VDL Modes used for all sites indicating if any sites are using different modes to the rest.

5.2. SYSTEM/EQUIPMENT INFORMATION

- 1. Equipment Life span:** *Present life span on a high level for all sites owned by the state. Highlight the site with the oldest systems the spreadsheet will have all the details as an appendix. (Include a graph showing the life span instead of the table.)*
- 2. System OEM:** *Indicate OEM for the systems at the sites. (Include graphical representation concerning sites.)*
- 3. System/Equipment Ownership:** *Indicate how many systems owned and how many are leased. (Include graphical representation concerning sites.)*
- 4. Maintenance** *Indicate whether Maintenance is outsourced or conducted inhouse*
- 5. Other:** *If not implemented are there any plans.*

5.3. SUPPORTING SYSTEMS/EQUIPMENT

- 1. Maintenance monitoring system or tool** *Indicate whether there is a maintenance monitoring system or tool available.*
- 2. Back-up system:** *Present the number of backup systems available concerning all sites. (Include graph showing the number of backup systems concerning the number of sites for the instead of the table.)*

5.4. OPERATIONAL CHALLENGES

Write up about operational challenges that are related to the system or frequency interference per site will be highlighted here.



AIR/ GROUND COMMUNICATION QUESTIONNAIRE ANALYSIS

6. CONTROLLER PILOT DATALINK COMMUNICATIONS (CPDLC)

6.1. SYSTEM PERFORMANCE

6.1.1. AVAILABILITY

Write up on the Average Availability and also interpreting the number based on the number of stations/sites that the state has. Indicate provided SLA. *(include a graphical representation of the site's availability)*

6.2. CPLDC SYSTEM READINESS

6.2.1. STATE CPDLC READINESS

Write up on the system readiness and any other information related to system readiness.

6.2.2. CPDLC SYSTEM REQUIREMENTS

Indicate whether the system is required or not? State the operational requirement and if stakeholder engagements required or not?

6.3. SYSTEM/EQUIPMENT INFORMATION

- 1. Equipment Life span:** *Present life span on a high level for all sites owned by the state. Highlight the site with the oldest systems the spreadsheet will have all the details as an appendix. (Include graph showing the life span instead of the table.)*
- 2. System OEM:** *Indicate OEM for the systems at the sites. (include graphical representation concerning sites.)*
- 3. System/Equipment Ownership:** *Indicate how many systems owned and how many are leased. (Include graphical representation concerning sites.)*
- 4. Maintenance** *Indicate whether Maintenance is outsourced or conducted inhouse*
- 5. Other:** *If not implemented are there any plans.*

6.4. SUPPORTING SYTEMS/EQUIPMENT

- 3. Maintenance monitoring system or tool** *Indicate whether there is a maintenance monitoring system or tool available.*
- 4. Back-up system:** *Present the number of backup systems available concerning all sites. (Include graph showing the number of backup systems concerning the number of sites for the instead of the table on the spreadsheet.)*

6.5. OPERATIONAL CHALLENGES

Write up about operational challenges that are related to the system or frequency interference per site will be highlighted here.



AIR/ GROUND COMMUNICATION QUESTIONNAIRE ANALYSIS

7. SATELLITE COMMUNICATIONS (SATCOM)

7.1. SYSTEM PERFORMANCE

7.1.1. AVAILABILITY

Write up on the Average Availability and also interpreting the number based on the number of stations/sites that the state has. *(include a graphical representation of the site's availability)*

7.2. SYSTEM/EQUIPMENT INFORMATION

- 1. Equipment Life span:** *Present life span on a high level for all sites owned by the state. Highlight the site with the oldest systems the spreadsheet will have all the details as an appendix. (Include a graph showing the life span of the systems instead of the table on the spreadsheet.)*
- 2. System OEM:** *Indicate OEM for the systems at the sites. (Include graphical representation concerning sites.)*
- 3. System/Equipment Ownership:** *Indicate how many systems owned and how many are leased. (Include graphical representation concerning sites.)*
- 4. Maintenance** *Indicate whether Maintenance is outsourced or conducted inhouse*
- 5. Other** *If not implemented are there any plans.*

7.3. SUPPORTING SYSTEMS/EQUIPMENT

- 1. Maintenance monitoring system or tool** *Indicate whether there is a maintenance monitoring system or tool available.*
- 2. Back-up system:** *Present the number of backup systems available concerning all sites. (Include a graph showing the number of backup systems concerning the number of sites for the instead of the table included in the spreadsheet)*

7.4. SYSTEM/EQUIPMENT IP READINESS

Write up indicating which sites are ready and which ones are not based on the responses. Include graphical representation of ready and not ready sites if not all sites are IP ready.

7.5. OPERATIONAL CHALLENGES

Write up about operational challenges that are related to the system or frequency interference per site will be highlighted here.



AIR/ GROUND COMMUNICATION QUESTIONNAIRE ANALYSIS

8. RESOURCES TRAINING/SKILLS/TOOLS REQUIREMENTS FOR SYSTEM

8.1. STATE REQUIREMENTS

System/ Equipment	Training requirements	Tools requirements
1. HF Voice	a. b. c.	a.
2. VHF Voice	a. b. c.	a.
3. HF Datalink	a. b. c.	a.
4. VHF Datalink	a. b. c.	a.
4. CPDLC	a. b. c.	a.
5. SATCOM	b. c. d.	a.

Write up interpreting information presented on the table per system HF, VHF, HF, VDL, HF DL, CPDLC, SATCOM

8.2. SKILLS CAPABILITY REQUIREMENTS

System/ Equipment	Skills Capability requirements
1. HF Voice	a. b. c.
2. VHF Voice	a. b. c.
3. HF Datalink	a. b. c.
4. VHF Datalink	a. b. c.
4. CPDLC	a. b. c.
5. SATCOM	a. b. c.

Write up interpreting information presented on the table per system HF, VHF, HF, VDL, HF DL, CPDLC, SATCOM



AIR/ GROUND COMMUNICATION QUESTIONNAIRE ANALYSIS

8.3. Training/Skills/Tools Challenges

Write up about challenges that are related to training/skills/tools but categorized per system.

HF,VHF,HFDL,VDL,CPDLC,SATCOM

9. OBSERVATION

Write up highlighting any observations that came out during the analysis.

10.RECOMMENDATION

Write up about any recommendations going forward

11.CONCLUSION

Write up summarising the main points of the analysis.