Pacific Waves

Mobile Satellite Systems End User, Radio Telecoms Systems End User & Training of Trainers Training (EDIP) Modules

Evaluation Report

Solomon Islands: July 2025

Delivered thanks to the support of

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1. Executive Summary

Between the 1st and 4th of July 2025, 3 Pacific Waves Training Alliance training modules were delivered in the Solomon Islands: the Mobile Satellite Systems (MSS) End User, the Radio Telecommunications Systems (RTS) End User, and the Training of Trainers (ToT EDIP) modules. A total of 23 participants (see Annex A) attended the training events, with the majority drawn from the Solomon Islands National Emergency Response Team (NERT), reflecting a comprehensive, whole-of-government and multi-agency disaster response effort, involving national civil protection authorities, emergency services, key government ministries, and partner organizations such as the National Disaster Management Office (NDMO), Royal Solomon Islands Police Force (RSIPF), Ministry of Health and Medical Services (MHMS), Solomon Islands Red Cross Society, and other humanitarian and operational partners active in emergency preparedness and response. In addition, several other organizations participated, including the Solomon Islands Broadcasting Corporation, the Geology Division, Solomon Islands Meteorological Service, the Royal Solomon Islands Police Force, and the regional NGO, Live & Learn, which focuses on community-based disaster risk reduction across the Pacific. All training modules were conducted at the National Sports Council building and grounds in Honiara.

A total of 23 participants attended the training, comprising 3 females and 20 males. Of these, 8 participants (1 female and 7 males) who successfully completed the MSS & RTS End User modules were selected to progress to the Training of Trainers (ToT) module. A post-training survey questionnaires was completed by participants and feedback from the survey, combined with results from formative assessments, confirmed that all three training modules successfully met their stated learning objectives.



The training programme was anchored in the EDIP (Explanation, Demonstration, Imitation, Practice) method, a structured, hands-on trainer approach that effectively facilitated the transfer of technical knowledge, skills, and abilities. Participants in the ToT cohort found this well-established framework especially valuable for building their confidence in delivering MSS & RTS End User modules. By the conclusion of the programme, individuals across all training streams expressed confidence in applying their newly acquired skills in emergency response contexts. Those in the ToT group also reported feeling increasingly equipped to train others to foundational competency levels using the EDIP approach.

This Pacific Waves training initiative not only contributed towards Solomon Islands' national capacity in emergency telecommunications but also supported inter-agency collaboration and local ownership of learning. The participant feedback demonstrated confidence and the effectiveness of both the technical content and the instructional methodology. This training programme has established a good foundation for continued emergency telecommunications capacity building and has provided a meaningful contribution to Solomon Islands' disaster preparedness and emergency telecommunication resilience.

2. Analysis of Quantitative and Qualitative Data from the RTS & MSS End User Training Modules.

Key Findings:

Eighteen (78%) participants completed the MSS & RTS End User post-training survey questionnaire, and their responses offered valuable insights into confidence levels, comprehension of the training material, and the overall relevance and effectiveness of the training.

Quantitative Feedback Highlights:

Mobile Satellite Systems (MSS).

- 77% (14 respondents) reported feeling very confident in setting up MSS at a basic level, while 33% (6 participants) felt confident. No respondents reported a lack of confidence.
- Regarding establishing a satellite connection, 89% (16 participants) felt confident, 11% (2 participants) felt partly confident, and 5% (1 participant) reported not being confident.
- All respondents reported that they fully understand the safety considerations when deploying MSS.
- 100% of participants found the MSS training content relevant to their role: 89% (16 respondents) found it fully relevant, and 11% (2 respondents) found it relevant in parts.



Radio Telecoms Systems (RTS).

- Following the training, 71% (respondents) reported being very confident in operating radio equipment at a basic level, with the remaining 17% (3 respondents) reporting they were confident. None reported a lack of confidence.
- All respondents indicated understanding of key radio communication procedures:
  - 72% (13 respondents) had a good understanding.
  - 17% (3 respondents) had a basic understanding.
- All participants affirmed that the practical exercises helped them understand how to use and communicate with a radio.

- Regarding training content relevance, 50% (9 respondents) said it was very relevant, and 33% (6 respondents) said it was relevant. None reported it as irrelevant.

Qualitative Feedback Highlights.

The open-text responses from participants further reinforce the success of the training. Key themes included the following.

- High appreciation for practical sessions and hands-on experience.
- Improved understanding of satellite connectivity (LEO, MEO, GEO).
- Recognition of how MSS & RTS can be used to relay time-sensitive information effectively.
- Increased awareness of call sign usage, phonetic alphabet, and voice protocol.
- Perceived value in learning to operate communications equipment in remote areas.

These findings reflect consistently high confidence and comprehension across both MSS & RTS domains, suggesting that the training effectively built participant readiness to operate communications technology in an emergency setting.

Training Objective(s):

The following MSS & RTS End User training objectives were successfully met by participants, as demonstrated through a structured process of formative assessment during their learning.

T.O 1: Operate Mobile Satellite Systems (MSS) as an end-user in a humanitarian emergency response context.

T.O 2: Operate Radio Telecoms Systems (RTS) as an end-user in a humanitarian emergency response context.

The MSS & RTS End User training modules successfully met their intended goals by providing participants with the essential knowledge and hands-on skills needed to operate both systems effectively in humanitarian emergency situations. Learners showed improved confidence, a good grasp of the material, and the ability to apply their skills in practice

Mobile Satellite Systems (MSS) and Radio Telecoms Systems (RTS) End User Practical Exercises:

Participants consistently highlighted the practical exercises as the most valuable aspect of the training, enabling them to apply classroom theory to real-world emergency telecommunications scenarios.

- MSS exercises included hands-on setup and line-of-sight testing for Starlink terminals, BGAN units, and Iridium satellite phones, focusing on deployment accuracy, signal acquisition, and environmental factors.
- RTS exercises used VHF radios in simplex mode to simulate message relay and communication drills. These included radio checks, phonetic alphabet use, message formatting, use of prowords and proper voice procedure, strengthening confidence and clarity in emergency radio operations.

Summary of the Mobile Satellite Systems (MSS) & Radio Telecoms Systems End User Training Module:

The result from the post-training survey questionnaire showed high confidence and understanding across both modules. Most felt very confident operating MSS & RTS systems, understood key safety and communication procedures, and found the training relevant to their emergency response roles. Practical, hands-on exercises were consistently praised, particularly for enhancing real-world application of skills. Overall, the training effectively met its objectives and equipped participants for operational readiness in humanitarian contexts.

Recommendations:

Based on the findings of the post training survey questionnaire, the following actions are recommended:

1. Continue emphasis on hands-on learning. Practical sessions were consistently noted as the most valuable part.

2. Micro-trainings for confident users. Participants who rated themselves as 'confident' (rather than 'very confident') may benefit from targeted follow-up to deepen competency.

3. Explore advanced modules . Given the strong foundation, intermediate or advanced-level training on MSS & RTS deployment and troubleshooting should be developed.

4. Ensure ongoing access to learning materials. Participants should retain access to the Pacific Waves eLearning platform and learning resources for ongoing reinforcement of competency.

These recommendations should be adopted by the National Disaster Management Office and cascaded through the National Emergency Response Teams (NERTs) in the Solomon Islands and incorporated into the 2025 to 26 Pacific Waves Training Alliance delivery framework.



Conclusion:

The data collected from MSS & RTS End User training module survey indicates that the training programme was highly effective, building strong operational confidence, technical understanding, and practical competence across all participants. By combining structured assessment with engaging, scenario-based exercises, the programme met its objectives and significantly contributed

to Solomon Islands' capacity for emergency telecommunications response. This successful training lays the foundation for future capability development through the Pacific Waves Training Alliance.

3. Analysis of Quantitative and Qualitative Data from the Training of Trainers (EDIP) Training Module:

Key Findings:

Of the 8 participants who completed the ToT (EDIP) training module, 7 responded to the post-training evaluation survey, offering valuable insights into their instructional confidence and understanding of the training approach. Six participants (86%) reported feeling confident in their ability to train others using the EDIP methodology, while one indicated partial confidence. All respondents stated the module was easy to follow and that it helped them understand how to plan and deliver effective MSS & RTS training sessions. Participants also confirmed their ability to register on and access the Pacific Waves eLearning and Resource Platform.


Training Objective:

Participants demonstrated improved understanding of lesson planning, facilitation techniques, and how to use the Pacific Waves eLearning platform and available learning tools. The ToT (EDIP) module met its primary aim:

T.O 1: Equip participants with foundational knowledge, hands-on skills, and instructional methods to confidently deliver training on mobile satellite and radio telecoms systems in emergency response contexts.

Through this training, participants began developing the instructional and technical competencies needed to support MSS & RTS capacity building in Solomon Islands' humanitarian landscape.

Training of Trainers (EDIP) Practical Exercises:

Participants responded positively to the EDIP (Explanation, Demonstration, Imitation, Practice) method, recognizing its effectiveness in building engagement and trainer confidence. They highlighted the value of hands-on practice, repetition, group activities, and structured delivery. Many noted the importance of using clear demonstrations, encouraging learner participation, and applying open-ended questions and reflection prompts to reinforce learning. Several also appreciated the exposure to communication technologies like satellite phones, Starlink, and VHF/UHF radios, noting these were

not typically covered in previous trainings. The EDIP framework was praised for supporting consistent delivery across diverse learner groups.

Summary of the Training of Trainers (EDIP) Training Module:

Feedback from participants underscored appreciation for both technical and instructional elements of the training. The EDIP methodology, emphasis on hands-on repetition, and clarity in delivery were seen as especially useful. Trainee trainers valued techniques such as using open-ended questioning, planning lessons with clear objectives, and understanding learner needs through early engagement. The inclusion of satellite and radio technology was well received, with several participants indicating this was their first structured exposure to such systems in a training environment.



Recommendations:

- Reinforce Practical Application with Refresher Sessions: Deliver short follow-up micro-trainings to sustain use of EDIP techniques and reinforce delivery confidence.
- Promote Localised Training Delivery: Support ToT graduates to deliver portions of MSS or RTS modules to national teams, solidifying their skills through real-world application.
- Expand eLearning Support Materials: Amend the Pacific Waves platform with ready-to-use training templates and activity-based learning tools to support local instruction and peer learning.

These recommendations should be reviewed by NDMO in the Solomon Islands and integrated by the WFP-led Pacific ETC instructional design team in the upcoming 2025–26 Pacific Waves Training Alliance schedule.

Conclusion:

The ToT (EDIP) training effectively built instructional capacity among participants, giving them the confidence and structure to teach MSS & RTS skills. The EDIP method was widely endorsed as a clear, repeatable approach for engaging learners and delivering effective training. The integration of practical exercises and new technical content strengthened both instructional and operational readiness. Sustained support through peer teaching, hands-on follow-ups, and access to digital resources will be key to embedding national training resilience.

4. Acknowledgements

The WFP-led Pacific Emergency Telecommunications Cluster (ETC) extends its sincere gratitude to the National Disaster Management Office (NDMO), and all supporting Solomon Islands government partners for their exceptional technical and logistical support in the successful delivery of the recent Pacific Waves Training Alliance programme. Their commitment and coordination were vital to the smooth implementation of the MSS & RTS End User, and ToT EDIP modules with the collaboration supporting the overall quality and relevance of the training. The WFP-led Pacific ETC remains committed to working alongside national stakeholders to further strengthen Solomon Islands' emergency telecommunications preparedness and response capacity.

5. Closing Summary

The completion of the MSS & RTS End User, and ToT (EDIP) training modules in Solomon Islands marks a milestone in advancing national emergency telecommunications preparedness. Delivered over 4 days of focused, hands-on learning, the training brought together participants from key government agencies who demonstrated strong engagement, technical capability, and growing confidence in supporting emergency communications. The use of the EDIP instructional approach across all modules provided a structured framework for building both technical and facilitation skills. Participants acquired practical competencies in deploying and operating MSS & RTS in humanitarian settings, while the ToT (EDIP) participants gained the instructional confidence to proliferate foundational training within their respective organisations. Post-training feedback reflected high levels of understanding, confidence, and satisfaction with the training delivery. This initiative represents a meaningful contribution to national capacity building and has established a solid platform for continued knowledge transfer. Ongoing collaboration, targeted follow-up, and extended access to the Pacific Waves eLearning and resource platform will be essential to sustaining momentum and reinforcing the Solomon Islands' NERT resilience in future emergency telecommunications responses.

6. Annexes

Annex A: Mobile Satellite Systems (MSS) End User & Radio Telecoms Systems (RTS) End User & ToT (EDIP) Training Attendance Sheet.

Annex B: Mobile Satellite Systems (MSS) End User & Radio Telecoms Systems (RTS) End User Training Evaluation Charts.

Annex C: Training of Trainers (EDIP) Training Evaluation Charts.

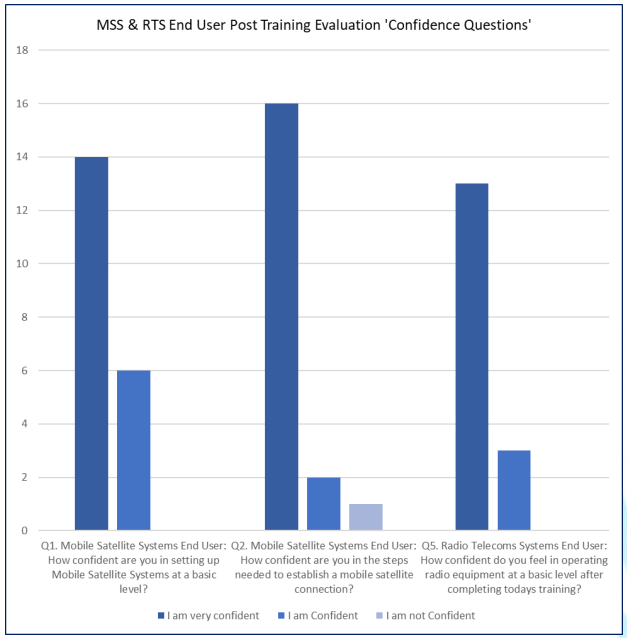
7. Annex A: MSS, RTS End User & ToT EDIP Training Attendance Sheet.

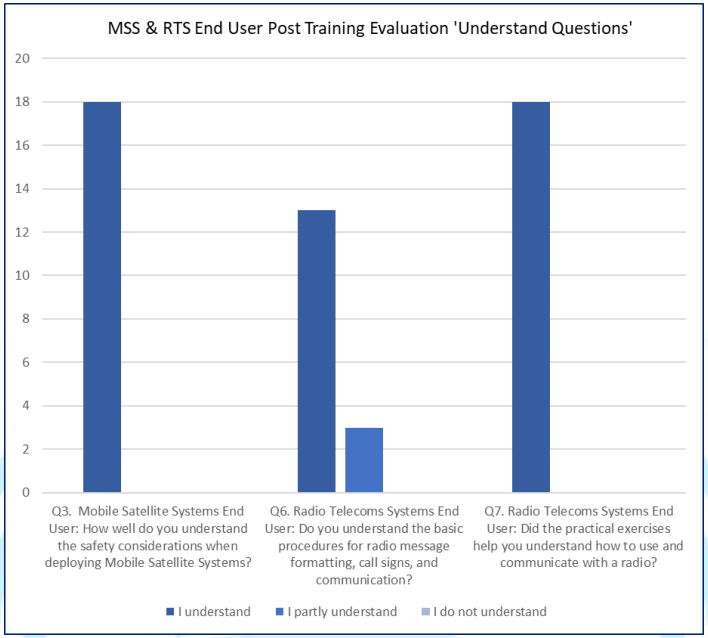
Name	Organisation
Tuesday the 1st of July (MSS & RTS)	
Dr. Alex Munamua	Private MD (NERT)
Steward Urumaikeni	NERT
Glins Clay	US Embassy (NERT)
Gebby Yai	Ministry National Planning Development Coordinator (NERT)
Abel Oscar Watesao	Ministry Women, Youth, Children & Family Affairs (NERT)
Nicholas Suava	Australia-Solomon Islands Partnership (NERT)
Andrew Kilimani	Solomon Islands Port Authority (NERT)
Wednesday the 2nd of July (MSS & RTS)	
Branson Pitakia	National Disaster Management Office
Smith Malvi	National Disaster Management Office
John Finiasi	National Disaster Management Office
Nelson Anaia	National Disaster Management Office
Paveri Takae	Correction Services Solomon Island (NERT)
Elmah Panisi	Live & Learn NGO
Catherine Dovania	Ministry of Forrest & Research (NERT)
Jared Yai	National Disaster Management Office
Thursday the 3rd of July (MSS & RTS)	
Edward Bugotu	Emergency Department National Referral Hospital (NERT)
Samuel Sautehi	Solomon Islands Maritime Authority (NERT)
Nilorier Tavo	Solomon Island Broadcasting Corporation
Solomon Possy	Geology Division
Silas Silverio	Solomon Island Metrological Service
Steve Nasiu	National Disaster Management Office
Michael Lindsay	Royal Solomon Islands Police Force
Michael Tealikilava	Solomon Islands Government ICT (NERT)

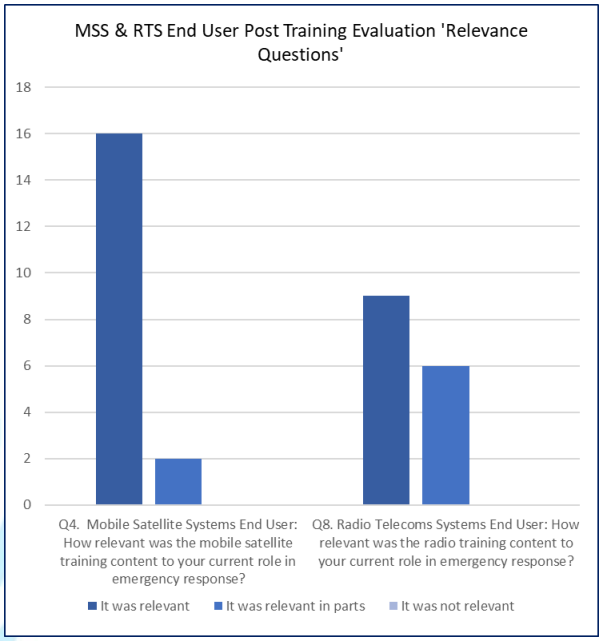
Annex A: MSS, RTS End User & ToT EDIP Training (Continued)

Friday the 4th of July (ToT EDIP)	
Andrew Kilimani	Solomon Islands Port Authority (NERT)
Glins Clay	US Embassy (NERT)
Edward Bugotu	Emergency Department National Referral Hospital (NERT)
Smith Malvi	National Disaster Management Office
Nilorier Tavo	Solomon Islands Broadcasting Corporation
Abel Oscar Watesao	Ministry Women, Youth, Children & Family Affairs (NERT)
Michael Lindsay	Royal Solomon Islands Police Force
Branson Pitakia	National Disaster Management Office
Steve Nasiu	National Disaster Management Office

8. Annex B: Mobile Satellite Systems (MSS) End User & Radio Telecoms Systems (RTS) End User Evaluation Charts.





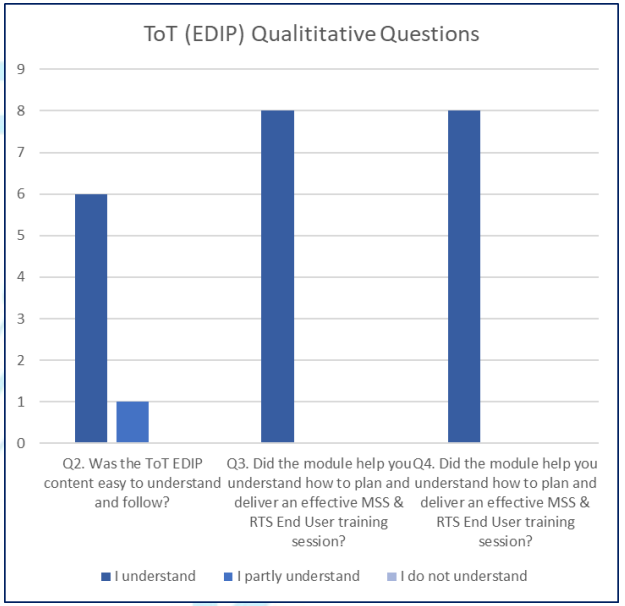


Annex B: Mobile Satellite Systems (MSS) End User & Radio Telecoms Systems (RTS) End User Evaluation Charts (Continued).

Q9. What part of the mobile satellite and radio systems training syllabus did you find most valuable for operating mobile satellite systems in emergencies?

1. Satellite communications and how to use the equipment during emergency operations.
2. Understanding the satellite connectivity in LEO, MEO, and GEO.
3. It's all parts of communication, and ways to operate in remote areas... its flexibility around the world.
4. Relaying information effectively when information is time-bound.
5. How to take a message accurately.
6. The call signs as well as the phonetic alphabet.
7. Practical training for the radio session, being able to use a radio for the first time.
8. Using satellite mobile radios and devices in real-life scenarios.
9. All is important.
10. Both systems are useful.
11. It was very good in terms of communication.

9. Annex C: Training of Trainers (EDIP) Evaluation Charts.



Annex C: Training of Trainers (EDIP) Evaluation Charts (Continued).

Q5. What was the most useful thing you learned in this ToT EDIP module, and how will you use it when training others?

1. Technical knowledge
2. Systematic use of EDIP integrated in the session. Feedback, training aids and venue.
3. Step by step instruction and practice, practice with participants
4. Group activities
5. I find transmit and receive communication tip informative as this is the very basic of having an effective deliverables and positive feedback from trainees.
6. Your explanation must be loud and clear. Demonstrations must be slowly done and clearly shown. Then you let the trainees imitate what you teach and follow through with them. Allow them to practice.
7. Repetition and Hands-on-practice makes it easy to pass on the skills to others. I would certainly imitate and deliver this same method of teaching or training to others or my colleagues.
8. You learn as you observe, and then you imitate to the best of you knowledge