

Samoa's Emergency Radio Network & Emergency Siren Network

PREPARED BY:

**Disaster Management Office
Disaster Management Section
NEOC**



DMO

Disaster Management Office

Outline

- Background Information
- Emergency Radio Network (ERN)
- Emergency Siren Network (ESN)



Background Information

Networks were installed mid 2013 and launched in 2014

Why do we have these networks in place;

- **Emergency Siren Network (ESN)**- to warn the public about disasters that can strike without warning at any time such as; Tsunami, volcanic eruption, fire, floods and cyclones.
- **Emergency Radio Network (ERN)** - to improve and provide timely communication before, during and after a disaster between Response Agencies, affected communities



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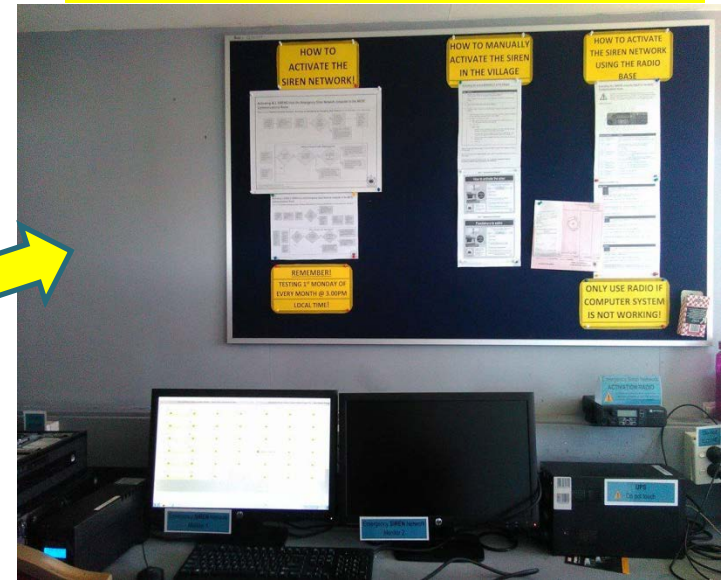
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Location of the Communication Room

Communication Room at NEOC



Emergency Siren Network



Emergency Radio Network



EMERGENCY SIREN NETWORK

LOCATION

- 23 Sirens in place from Saleaumua-Mulifanua

• TESTING

- First Monday every month at 3pm

• ACTIVATION

- Activate from NEOC

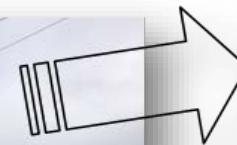
- Can be manually Activated in the village

3 SIREN TONES

1. Testing (25sec)
2. Warning
3. All Clear



Date & Time Sun Jul 29 10:00:00 WEST 2018
Position -10.85500° / -171.00000°
Altitude 10m
Azimuth/Bearing 00° (2018 1000mle (1000))
Elevation Angle -11.1°
Horizon Angle -00.2°
Zoom 1X
Site 10



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Sirens are mounted on 3 different structures

16 on EPC Poles



2 on Churches



5 on Tripod Posts



EMERGENCY RADIO NETWORK



Types of Radios use

Handheld/Portables- Display & Non Display

Base Radio

Install in vehicles & offices



Channels for Operation

Channel 1

Channel 2- **Emergency Only**

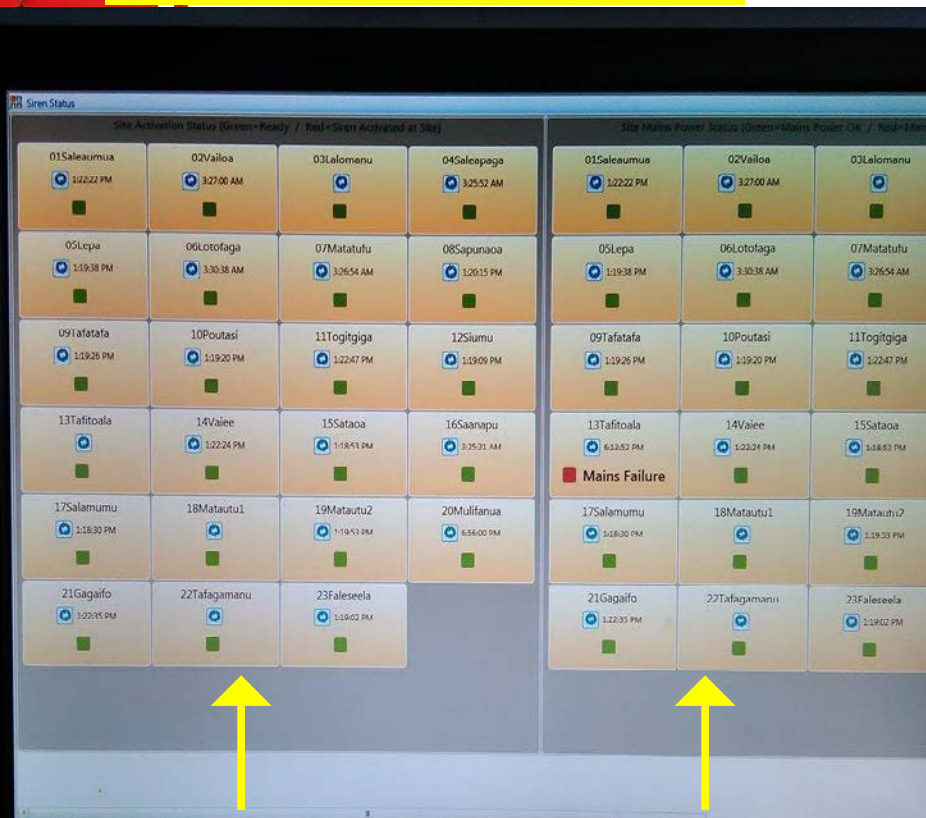


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Network Monitoring

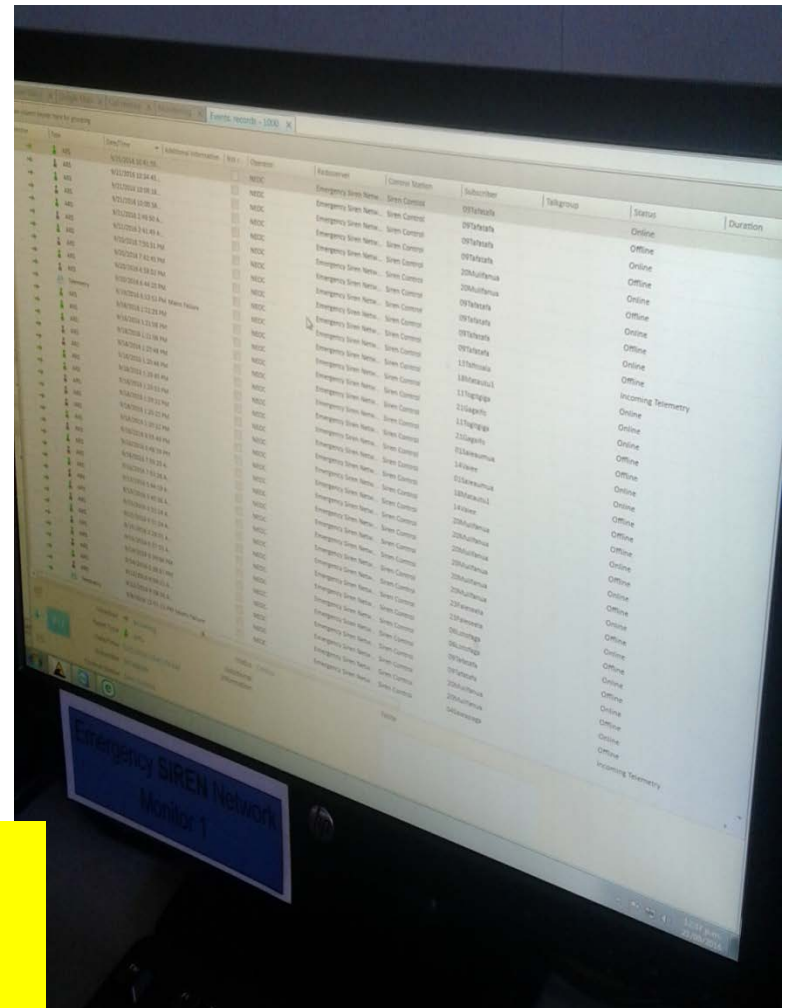
Emergency Siren Network



Status of the Sirens
Green- Ready
Red- Activated on site

Site Main Power
status
Green- Power is on
Red- Main Power off

Emergency Radio Network



Users of the ERN

DMO have programmed and installed radios for the following agencies both in Upolu & Savaii;

- NZ High Commissioner's Office
- Fire & Emergency Services Authority
- Ministry of Police
- National Health Services
- Land Transport Authority
- Samoa Red Cross
- Samoa Water Authority
- Tafaigata Prison.



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Usage of the Networks during Peace Time

Network	Event	Channel Use
ESN & ERN	CDCRM Drill Exercise- Village Drill	Emergency Channel- Channel 2
ERN	Fire Drills in Apia Urban area conduct by FESA	Channel 2
ERN	Simulation Exercises for Response Agencies (Tabletop)	Channel 2
ERN	Used by Agencies for their daily operations	Agencies own channels

National Events ERN was used

- SIDs in 2014
- Common Wealth Youth Games 2015
- Rugby Matches between Manu Samoa-

All Blacks 2015

Georgia 2016

Tonga 2016



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Source of Power for the Networks

- Both Network are reliant on power provided by EPC
- ERN however is connected to a backup battery and this battery can operate for 8hrs if main power (EPC) is off
- Another Back up power supply for the ERN are the Digicel generators installed on site
- ESN relies on the ERN if needed to be activated centrally from NEOC



What if BOTH Networks are down?

- Resume back to traditional method ie; ringing of church bells etc
- Activation of Village Response Plans under the CDCRM Programme – where village mayors, women's representatives, village response teams play their roles in response to a disaster.



Conclusion

Main Purpose of the two Network is to save LIVES by;

- Effectively warning the public in time to evacuate to safe locations
- Effectively response to affected populations in a timely manner during and after a disaster
- Effectively coordinate response in a less chaotic fashion

“Communication is a critical component of Disaster Risk Management in Samoa”



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