

The University of the South Pacific

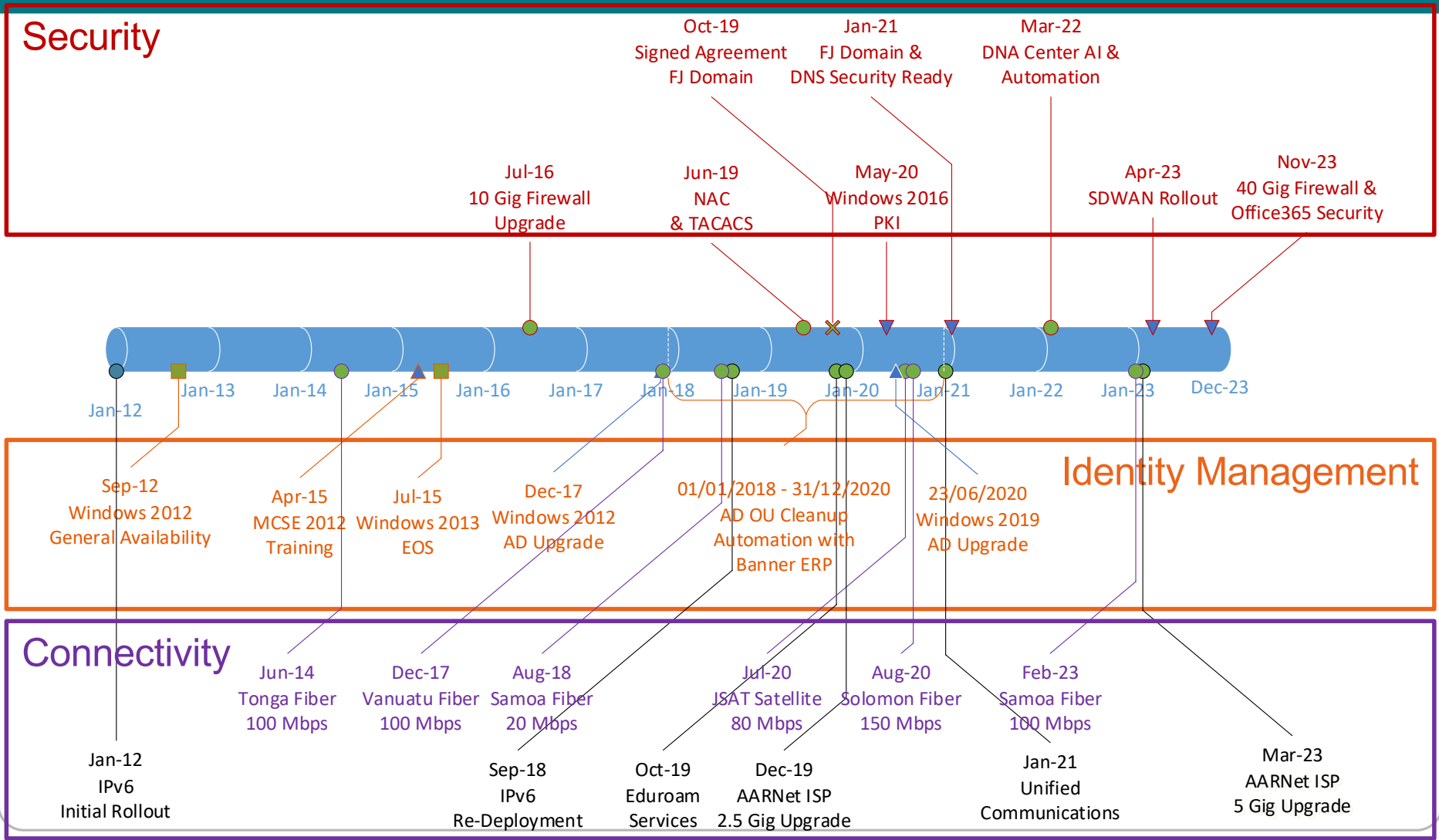
Regional SDWAN & Security

Welcome

Marika Qalomai

IT Services

Projects – Critical Points



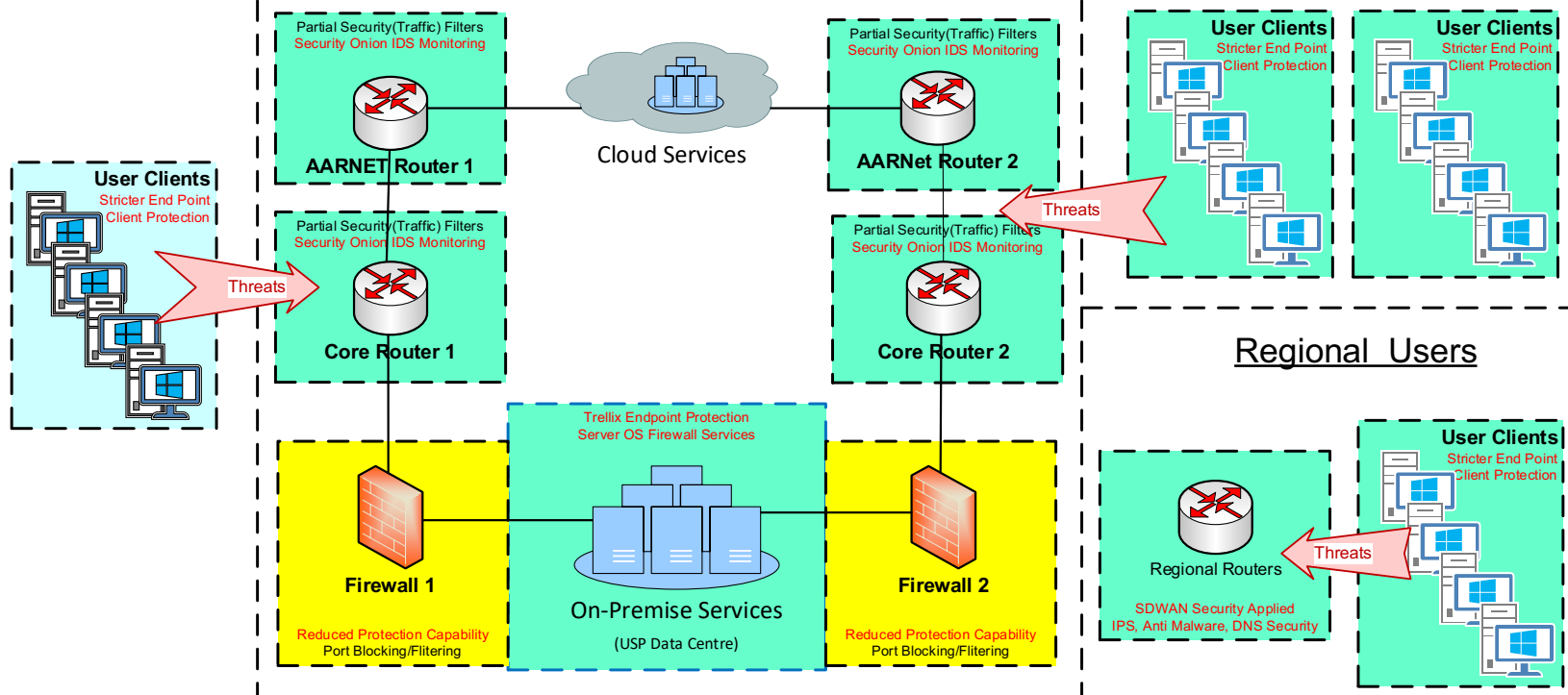
Strategic Overview

PROPOSED INSTITUTIONAL CYBERSECURITY MECHANISMS 2023 to 2024

External Users

On-Net Trusted Zone

Fiji Users



LEGEND:

- Cyber Protection Functionality Enhanced
- Cyber Protection Functionality Reduced

Network & Infrastructure Security

Advanced Threat Protection

NAC

SDN

DDoS Protection

DNS Security

Network Firewall

SASE

Web Security

ICS + OT

Network Analysis & Forensics

Endpoint Security

Endpoint Prevention

Endpoint Detection & Response

Application Security

WAF & Application Security

Application Security Testing

MSSP

Traditional MSSP

Advanced MSS & MDR

Data Security

Encryption

DLP

Data Privacy

Data Center Security

Mobile Security

Mobile Device Management

Mobile Application Security

Risk & Compliance

Risk Assessment & Visibility

Risk Quantification

Pen Testing & Breach Simulation

GRC

Security Awareness & Training

Security Ops & Incident Response

SIEM

Security Incident Response

Threat Intelligence

Threat Intelligence

IoT

IoT Devices

Automotive

Connected Home

Messaging Security

Identity & Access Management

Authentication

Privileged Management

Identity Governance

Consumer Identity

Security Analytics

Digital Risk Management

Digital Risk Management

Security Consulting & Services

Fraud & Transaction Security



















Cloud Security

Container

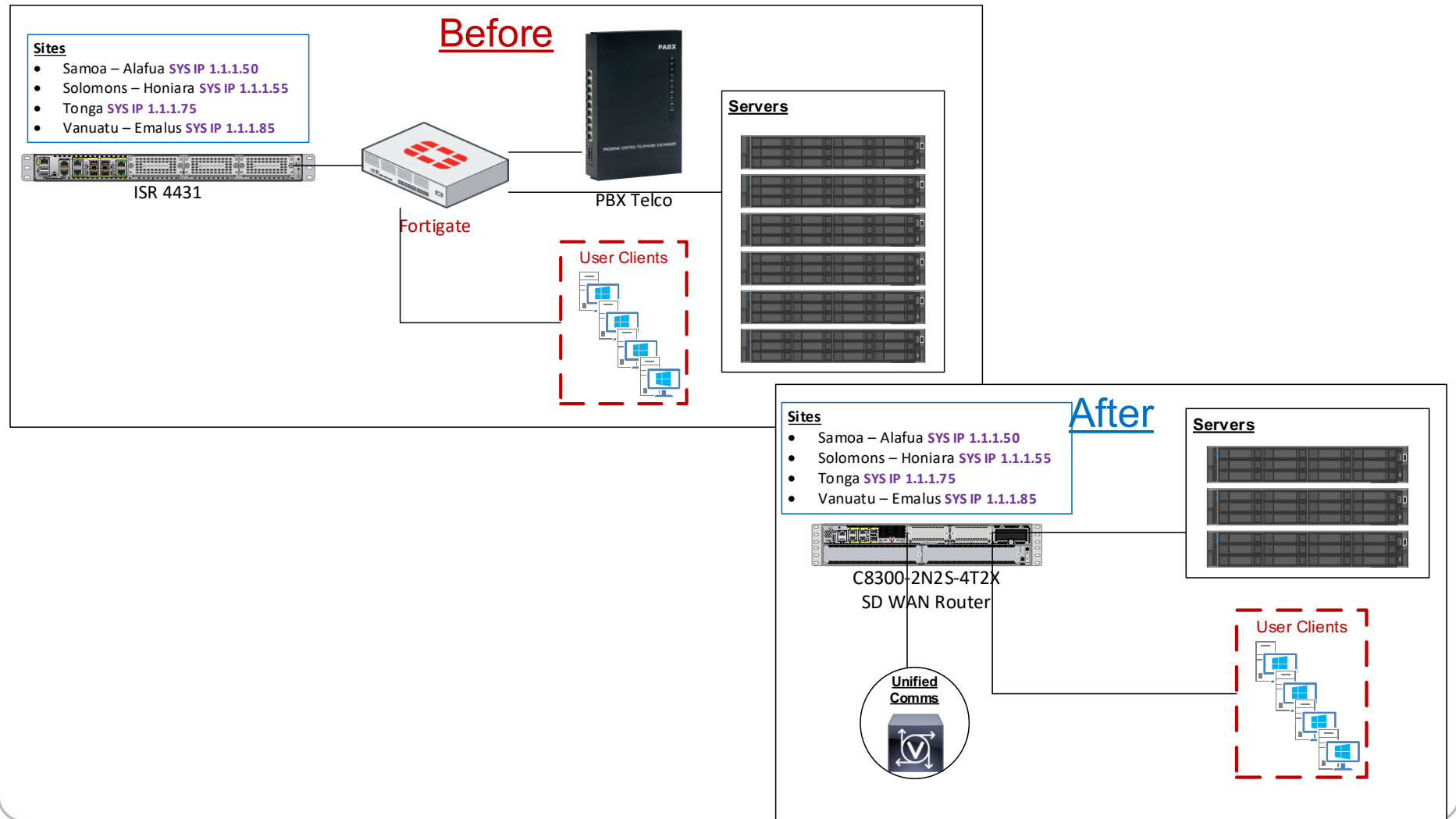
Infrastructure

CASB

Client Patching

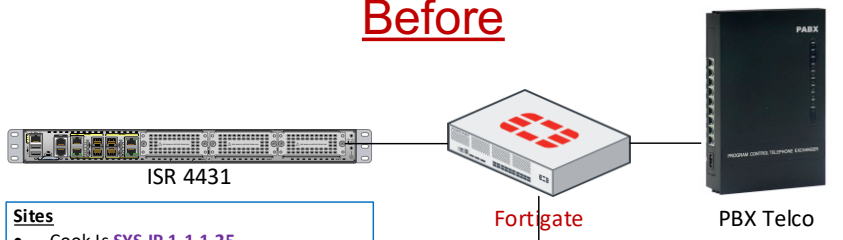
	Server Updates - August 2023	KIRIBATI - Windows Servers	Required	Install	Software Update	83.3
	Server Updates - August 2023	FIJI - All Servers	Required	Install	Software Update	78.2
	Server Updates - August 2023	SAMOA - Servers	Required	Install	Software Update	69.2
	Server Updates - August 2023	NAURU - Windows Servers	Required	Install	Software Update	81.8
	Server Updates - August 2023	VANUATU - Servers	Required	Install	Software Update	87.5
	Server Updates - August 2023	TONGA - Servers	Required	Install	Software Update	81.8
	Server Updates - August 2023	SOLOMONS - Windows Servers	Required	Install	Software Update	100.0
	Workstation Updates - August 2023	Tuvalu - All Workstations	Required	Install	Software Update	7.0
	Workstation Updates - August 2023	Cook Island - All Workstations	Required	Install	Software Update	13.3
	Workstation Updates - August 2023	Vanuatu - All Workstations	Required	Install	Software Update	52.4
	Workstation Updates - August 2023	Tonga - All Workstations	Required	Install	Software Update	50.0
	Workstation Updates - August 2023	Solomons - All Workstations	Required	Install	Software Update	10.5
	Workstation Updates - August 2023	Samoa - All Workstations	Required	Install	Software Update	41.7
	Workstation Updates - August 2023	Nauru - All Workstations	Required	Install	Software Update	20.4
	Workstation Updates - August 2023	Kiribati - All Workstations	Required	Install	Software Update	51.4
	Workstation Updates - August 2023	Fiji - All Workstations	Required	Install	Software Update	37.5
	Workstation Updates - August 2023	Niue Island - All Workstations	Required	Install	Software Update	0.0
	Workstation Updates - August 2023	RMI - All Workstations	Required	Install	Software Update	67.7

Large Campuses

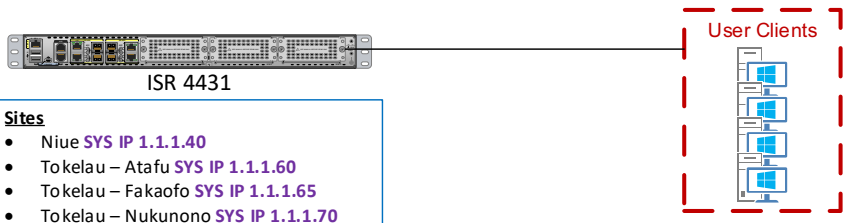


Other Campuses

Before

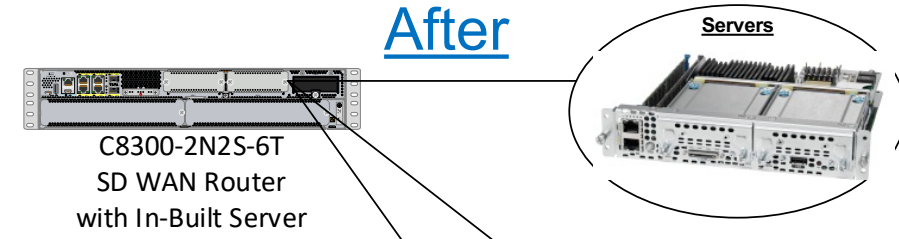


- Sites**
- Cook Is **SYS IP 1.1.1.25**
 - Fiji – Labasa **SYS IP 1.1.1.15**
 - Fiji – Lautoka **SYS IP 1.1.1.10**
 - Fiji – Savusavu **SYS IP 1.1.1.20**
 - Kiribati **SYS IP 1.1.1.30**
 - Marshall Is **SYS IP 1.1.1.45**
 - Nauru **SYS IP 1.1.1.35**



- Sites**
- Niue **SYS IP 1.1.1.40**
 - Tokelau – Atafu **SYS IP 1.1.1.60**
 - Tokelau – Fakaofu **SYS IP 1.1.1.65**
 - Tokelau – Nukunono **SYS IP 1.1.1.70**
 - Tuvalu – Funafuti **SYS IP 1.1.1.80**

After



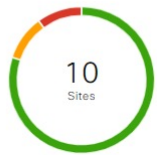
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SDWAN Analytics

Sites

View by: Availability



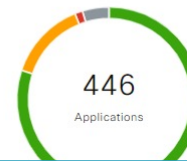
Bottom Available Sites

Sites % Availability Location

Sites	% Availability	Change	Location
67675	39%	-6%	vaini
69245	90%	-10%	majuro
67999	96%	+92%	wake is...

Applications

View by: QoE



Bottom Performing Applications

Applications QoE Site Count and Distribution by QoE

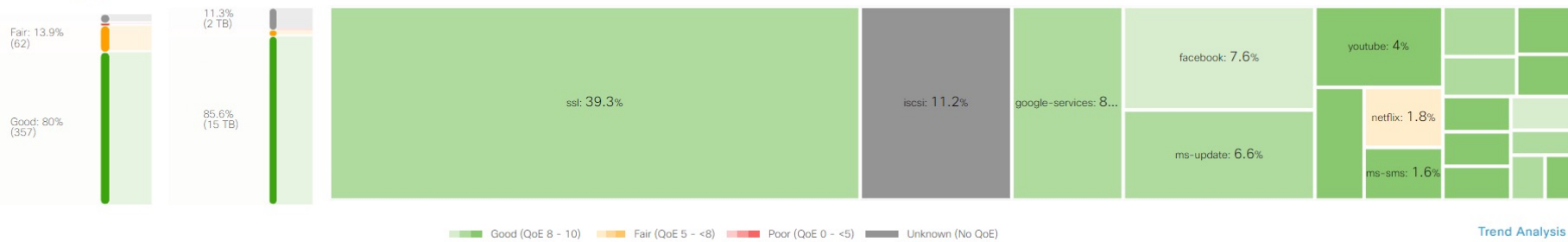
Applications	QoE	Site Count
webex-video	7 -2	5
web-rtc	7 -1	8
netflix	8 0	8

Application Experience

QoE

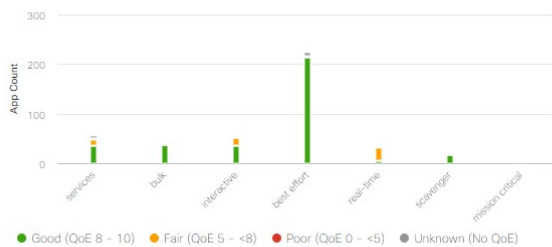
Usage (Total)

Top Applications by Usage (Top 20)



Trend Analysis

QoE Distribution by App Classes



Trending Applications

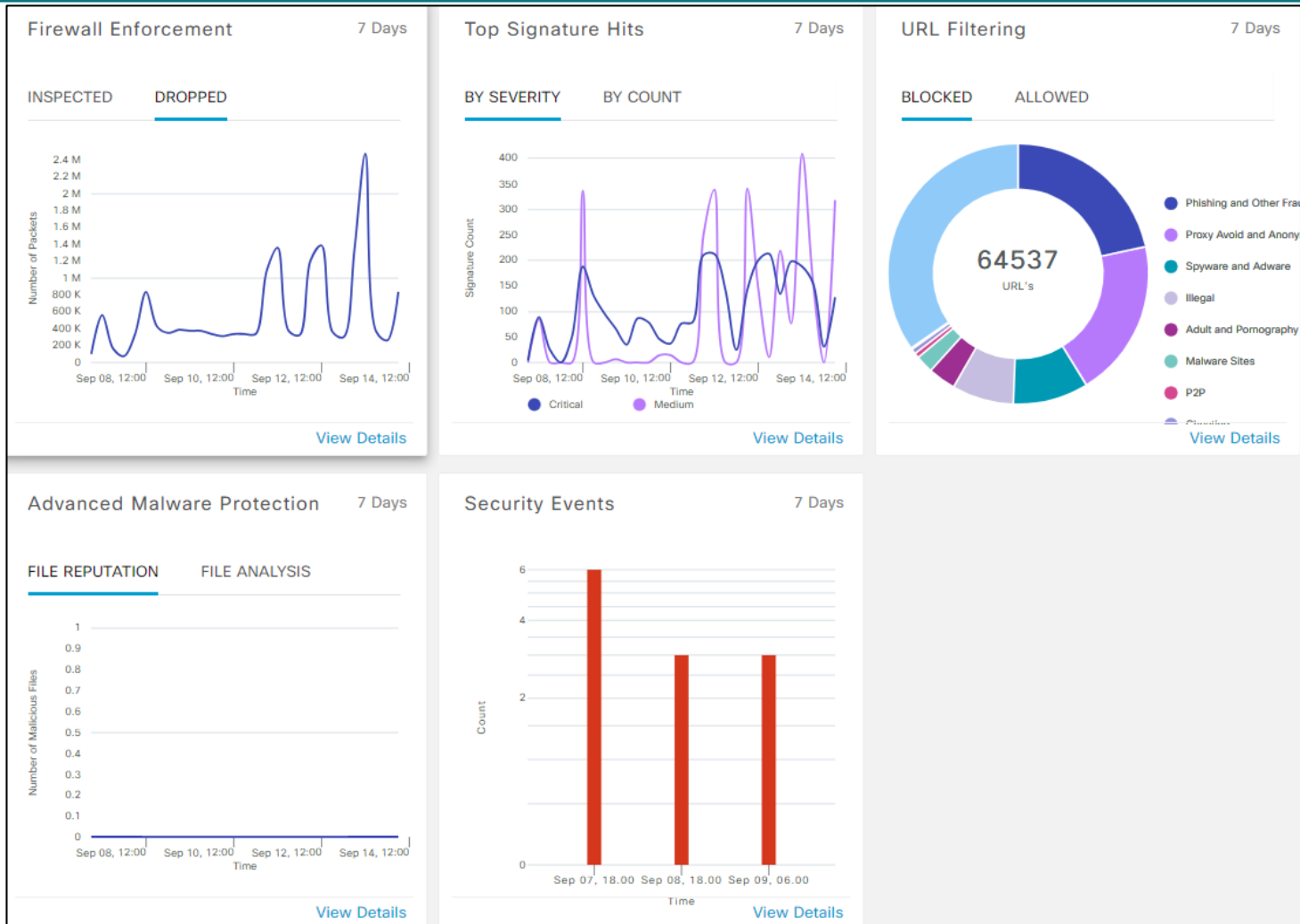
Most Avg. Drop of QoE

Application	Previous	Current	Change
h323	8.1	0	-8.1
itunes-vi...	10	5.8	-4.2
flash-vid...	8.3	5	-3.3
shoutcast	7.5	4.9	-2.6
audio-ove...	10	6.8	-3.2

Most Avg. Rise of Usage

Application	Previous	Current	Change
cisco-mer...	6 KB	13 GB	13 GB
splunk	3 KB	12 MB	12 MB
vkontakte	65 KB	273 MB	273 MB
intuit	25 KB	87 MB	87 MB
rotten-to...	2 KB	4 MB	4 MB

SDWAN Security



Email Security

Top Targets

The statistics below indicate the addresses which received the most threat messages over the previous 30 days.

Recipient	BEC	Scam	Phishing	Malicious	Totals
1 [REDACTED]@usp.ac.fj	2	176	16	0	194
2 [REDACTED]@usp.ac.fj	0	167	7	1	175
3 [REDACTED]@usp.ac.fj	7	76	20	1	104
4 [REDACTED]@usp...	0	98	0	0	98
5 [REDACTED]@usp.ac.fj	10	74	8	2	94
6 [REDACTED]@usp.ac.fj	5	76	0	0	81
7 [REDACTED]@usp.ac.fj	6	69	5	0	80
8 [REDACTED]@usp.ac.fj	8	64	6	0	78
9 [REDACTED]@usp.ac.fj	0	71	7	0	78
10 [REDACTED]@usp.ac.fj	6	64	3	0	73

Welcome back, Edwin! 🙌

My Courses

2024 **2023** Past Courses

The University of the South Pacific

started on 01-01-2023

MDL Security Awareness 2023



BEC (10%)

Business Email Compromise (BEC) are sophisticated scams that use social engineering and intrusion techniques to cause financial damage to the organization.

570

6.9K

Last 30 days

1 year projection



Scam (59%)

Scams are focused on causing financial harm to individuals using techniques such as lottery or extortion fraud.

3.4K

41K

Last 30 days

1 year projection



Phishing (25%)

These messages have been convicted of fraudulently copying or mimicking legitimate services in an attempt to acquire sensitive information such as user names, passwords, credit card numbers, and more.

1.4K

17K

Last 30 days

1 year projection



Malicious (6%)

These messages have been convicted of containing, serving, or supporting the delivery or propagation on malicious software.

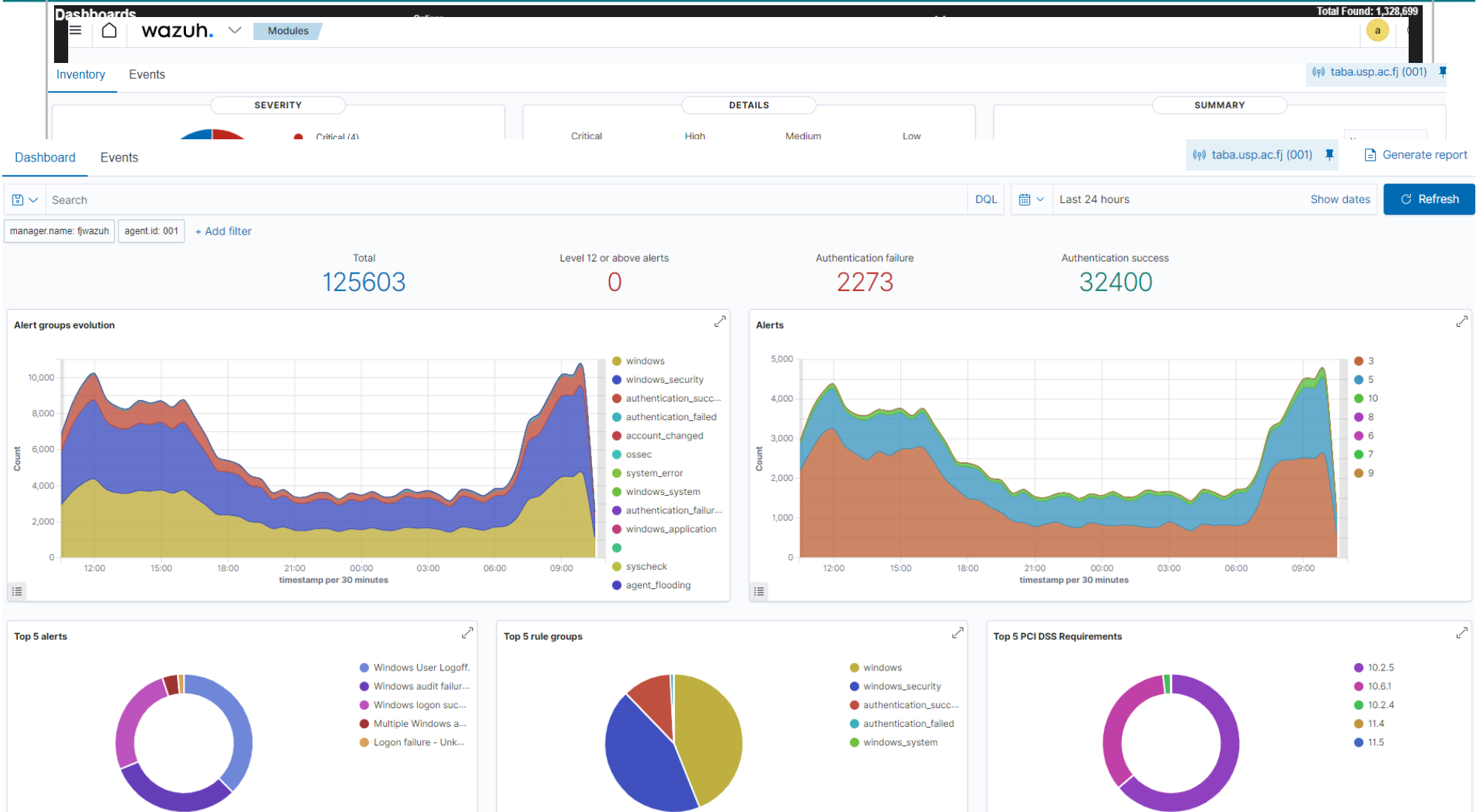
315

3.8K

Last 30 days

1 year projection

Security Onion & Wuzuh



Future

- **Tender**
 - Cloud Security.
 - NGFW.
- **Eco System**
 - API Integration.
 - Single Plane of Glass.
- **User Awareness & Direction**
 - Directed focus and training.
 - 2 Factor for All Authentication (IT Services Complete)
 - DUO & Microsoft Authenticator
- **Low Hanging Fruit**

Thank You & Questions

Bridging the Pacific

Email:

marika.qalomai@usp.ac.fj