

Technical Guide

Logs, Reports and Notification

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1 Introduction

This technical guide provides information on where to find the log data, where to set up automatic notification, and how to view the logs for the EWS controller.

1.1 Logs and Reports

There are multiple types of logs and reports in the Controller, as described in the following table.

System Summary	Log/Report	Description		
Interfaces		CAPWAP related messages during different states of the		
Monitor Users	CAPWAP Log	CAPWAP tunnel establishment between the Controller		
Process Monitor		and the APs		
Logs & Reports		History of changes that have been made to the		
CAPWAP Log	Configuration	configurations in the Controller's WMI with user account		
Configuration Change Log	Change Log	and IP address of whoever made the changes		
Local Monthly Usage	Local Monthly	Monthly statistical information on the traffic of "Local		
Local Web Log				
Micros Opera Log	Usage	Database" users		
On-Demand Billing Report	Local Web Log	URLs of the Web Management Interface of the Controller		
RADIUS Server Log		that have been accessed by administrators or operators		
SIP Call Usage	Micros Opera	All records of communication between the Controller and		
SMS API Log	Log	the PMS		
System Log	On-Demand			
UAMD Log	Billing Report	Summary of On-Demand account transactions		
User Events	RADIUS Server			
Reporting	Log	RADIUS authentication and accounting related messages		
	SIP Call Usage	Incoming and outgoing call activities of SIP clients		
		Information on the SMS messages sent to users' mobile		
	SIVIS API LOg	phones		
	System Log	System related events		
		Universal Access Method Daemon (UAMD) related		
		information		
	User Events	All user account related information		

1.2 Notification

For all the logs described above, "Notification" works as a central data processor to send log entries to configured external systems (including administrators' email box, FTP servers, and SYSLOG servers) at certain timed intervals.

	SYSTEM USERS			DEV	ICES		NETV	VORK	UTILITIES	STATUS
System Summary	Main > Status > Reporting > Notification Settings									
Interfaces										
Monitor Users	Notification Settings									
Process Monitor										
Logs & Reports			Rec	eiver	E-ma	il Add	ress(es)	SYSLOG	Primary FTP	Interval
Reporting		1	2	3	4	5	Detail / Test			
FTP Settings	Monitor IP Report						15	N/A	N/A	1 Hour 🔻
SMTP Settings	Local Users Log						13			1 Hour 🔻
Syslog Settings	On-Demand Users Log						13			1 Hour 🔻
jessions	Guest Users Log						13			1 Hour 🔻
Routing Tables	Roaming Out Users Log						13			1 Hour 🔻
	Roaming In Users Log						13			1 Hour 🔻
	External Users Log						13			1 Hour •
	Social Media Users Log						13			1 Hour 🔻
	One Time Password Users Log									1 Hour 🔻
	Session Log						13			1 Hour 🔻
	Firewall Log						12		N/A	1 Hour 🔻
	Local Area AP Status Change						13	N/A	N/A	2 Mins 🔻

Figure 1.2 – Notification Settings Page

2 Configurations and View

2.1 Logs and Reports (*Main > Status > Logs & Reports*)

a. CAPWAP Log

This log includes CAPWAP related messages during different states of the CAPWAP tunnel establishment between the Controller and the APs. For example, the following tables have the sample messages for the four major States: Discovery, Join, Configure, and Run.

[CAPWAP::Mon Jan 2 00:	29:10 2017] 00000400	Init Configuration for AC at 172.16.1.13
[CAPWAP::Mon Jan 2 00:	29:10 2017] 00000400	Init WTP Radio Info
[CAPWAP::Mon Jan 2 00:	29:10 2017] 00000400	Create Thread
[CAPWAP::Mon Jan 2 00:	29:10 2017] 00000400	
	~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~	
[CAPWAP::Mon Jan 2 00::	29:10 2017] 00000400	######### Discovery State ########
[CAPWAP::Mon Jan 2 00::	29:28 2017] 00000400	1 Fragment
[CAPWAP::Mon Jan 2 00:	29:28 2017] 00000400	1/2.16.1.13:5246
[CAPWAP::Mon Jan 2 00:	29:28 2017] 00000400	Parse Discovery Response
[CAPWAP::Mon Jan 2 00:	29:28 2017] 00000400	VERSION: 0
[CAPWAP::Mon Jan 2 00:	29:28 2017] 00000400	PAYLOAD TYPE: 0
[CAPWAP::Mon Jan 2 00:	29:28 2017] 00000400	HLEN: 2
[CAPWAP::Mon Jan 2 00:	29:28 2017] 00000400	RID: 0
[CAPWAP::Mon Jan 2 00:	29:28 2017] 00000400	WBID: 1
[CAPWAP::Mon Jan 2 00:	29:28 2017] 00000400	Parse Control Header
[CAPWAP::Mon Jan 2 00::	29:28 2017] 00000400	MESSAGE_TYPE: 2
[CAPWAP::Mon Jan 2 00::	29:28 2017] 00000400	Parsing Message Element: 1, len: 36
[CAPWAP::Mon Jan 2 00::	29:28 2017] 00000400	Parsing Message Element: 4, len: 6
[CAPWAP::Mon Jan 2 00::	29:28 2017] 00000400	Parsing Message Element: 10, len: 6
[CAPWAP::Mon Jan 2 00::	29:28 2017] 00000400	Parsing Message Element: 10, len: 6
[CAPWAP::Mon Jan 2 00::	29:28 2017] 00000400	Parsing Message Element: 10, len: 6
[CAPWAP::Mon Jan 2 00::	29:28 2017] 00000400	Interface Address: 172.22.0.254:5246
CAPWAP::Mon Jan 2 00:	29:28 2017 00000400	Interface Address: 172.21.0.254:5246
CAPWAP::Mon Jan 2 00:	29:28 2017 00000400	Interface Address: 192.168.1.254:5246
CAPWAP::Mon Jan 2 00:	29:28 2017 00000400	Interface Address: 172.16.1.13:5246
CAPWAP::Mon Jan 2 00:	29:28 2017 00000400	Interface Address: 127.0.0.1:5246
-	-	
[CAPWAP::Mon Jan 2 00:	29:28 2017] 00000400	WTP Receives Discovery Response
CAPWAP::Mon Jan 2 00:	29:28 2017 00000400	Discovery Response from:172.16.1.13:5246
CAPWAP::Mon Jan 2 00:	31:18 2017 00000400	Select Time Expired
CAPWAP::Mon Jan 2 00:	31:18 2017 00000400	Timer expired during receive
[CAPWAP::Mon Jan 2 00:	31:18 2017 00000400	WTP Picks an AC
[CAPWAP::Mon Jan 2 00:	31:18 2017] 00000400	Preferred AC: " EWS5203", at address: 172.16.1.13:5246
[CAPWAP::Mon Jan 2 00:	31:18 2017 00000400	,

[CAPWAP::Tue May	9 09:19:52 2017] d79dd700	WTP IP is 192.168.0.40:42882
[CAPWAP::Tue May [CAPWAP::Tue May	9 09:19:52 2017] d79dd700 9 09:19:52 2017] d79dd700	One more WTP on 192.168.0.127:5246 (3) The WTP Address:192.168.0.127:5246
[CAPWAP::Tue May 192.168.0.127:5246	9 09:19:52 2017] d79dd700 192.168.0.40:42882	Execute Script:sh /ramfs/bin/route_capwap.sh add
[CAPWAP::Tue May [CAPWAP::Tue May [CAPWAP::Tue May [CAPWAP::Tue May [CAPWAP::Tue May	9 09:19:52 2017] d79dd700 9 09:19:52 2017] d79dd700	New Session Timer Request Timer Request: thread(-677521664), signal(12) Init DTLS Session Before HS

[CAPWAP::Tue May9 09:19:56 2017]d79dd700[CAPWAP::Tue May9 09:19:56 2017]d79dd700 ok depth=1:/C=IT/ST=Some State/O=Root Certificate Authority/OU=My Subunit of Large Organization/CN=Local CAPWAP Root Certificate Authority/emailAddress=root@somename.somewhere.com [CAPWAP::Tue May 9 09:19:56 2017] d79dd700 ok [CAPWAP::Tue May 9 09:19:56 2017] d79dd700 depth=0:/C=IT/ST=Some State/O=My Large Organization Name/OU=My Subunit of Large Organization/CN=somename.somewhere.com/emailAddress=root@somename.somewhere.com [CAPWAP::Tue May 9 09:19:56 2017] d79dd700 After HS [CAPWAP::Tue May 9 09:19:56 2017] d79dd700 **Certificate Verified** [CAPWAP::Tue May 9 09:19:56 2017] d79dd700 PMTU: 0 Path MTU for this Session: 500 [CAPWAP::Tue May 9 09:19:56 2017] d79dd700 [CAPWAP::Tue May 9 09:19:56 2017] d7a1e700 Create Thread [CAPWAP::Tue May 9 09:19:56 2017] d79dd700 Received packet [CAPWAP::Tue May 9 09:19:56 2017] d79dd700 VERSION: 0 [CAPWAP::Tue May 9 09:19:56 2017] d79dd700 PAYLOAD TYPE: 1 [CAPWAP::Tue May 9 09:19:56 2017] d79dd700 HLEN: 2
 [CAPWAP::Tue May
 9 09:19:56 2017]
 d79dd700

 [CAPWAP::Tue May
 9 09:19:56 2017]
 d79dd700

 [CAPWAP::Tue May
 9 09:19:56 2017]
 d79dd700

 [CAPWAP::Tue May
 9 09:19:56 2017]
 d79dd700
 RID: 0 WBID: 1 Single Fragment [CAPWAP::Tue May 9 09:19:56 2017] d79dd700

[CAPWAP::Tue May	9 09:19:56 2017] d79dd700	######### Join State #########
[CAPWAP::Tue May	9 09:19:56 2017] d79dd700	Parse Join Request
[CAPWAP::Tue May	9 09:19:56 2017] d79dd700	Parse Control Header
[CAPWAP::Tue May	9 09:19:56 2017] d79dd700	MESSAGE_TYPE: 3
[CAPWAP::Tue May	9 09:19:56 2017] d79dd700	Saving Join Request
[CAPWAP::Tue May	9 09:19:56 2017] d79dd700	Join Request Saved
[CAPWAP::Tue May	9 09:19:56 2017] d79dd700	Assembling Join Response
[CAPWAP::Tue May	9 09:19:56 2017] d79dd700	1 Fragment
[CAPWAP::Tue May	9 09:19:56 2017] d79dd700	Join Response Assembled
[CAPWAP::Tue May	9 09:19:56 2017] d79dd700	Packet Sent
[CAPWAP:: Tue May	9 09:19:56 2017] d79dd700	Message Sent
	0.00.10.50.20171.47044700	Timer Deguart
		Timer Request
	9 09:19:56 2017] d/9dd/00	Timer Request: thread(-677521664), signal(12)
[CAPWAP:: Tue May	9 09:20:00 2017] a79da700	Rесеіved раскет
	0 00.20.00 20171 47044700	
	0 00:20:00 2017] d79dd700	
	9 09.20.00 2017] d/900/00	
	9 09.20.00 2017] d/900/00	
	9 09.20.00 2017] d/9dd/00	
		VIDID. I Single Freement
	9 09.20.00 2017] d/9dd/00	Single Flagment
	9 09.20:00 2017 a79da700	

[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	######### Configure State #########
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Parsing Configure Request
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Parse Control Header
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	MESSAGE_TYPE: 5
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	VSP payload length is 215.
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Configure Request Parsed
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Configure Request Received
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Saving Configure Request
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Configure Request Saved
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Assembling Configure Response
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	get_tunnel_ip_of_wtp: find[0][0]=172.20.1.2
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	SNMP was enabled
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Incoming interface name is eth0

[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Calculate msg elem size
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Create message
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Assembling Binding Configuration Response
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Binding Configuration Response Assembled
CAPWAP::Tue May	9 09:20:00 2017 d79dd700	1 Fragment
CAPWAP::Tue May	9 09:20:00 2017 d79dd700	Configure Response Assembled
CAPWAP::Tue May	9 09:20:00 2017 d79dd700	Packet Sent
-	-	
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Message Sent
	-	-
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Configure Response Sent
CAPWAP::Tue May	9 09:20:00 2017 d79dd700	Timer Request
CAPWAP::Tue May	9 09:20:00 2017 d79dd700	Timer Request: thread(-677521664), signal(12)
CAPWAP::Tue May	9 09:20:00 2017 d79dd700	Received packet
-	-	
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	VERSION: 0
CAPWAP::Tue May	9 09:20:00 2017 d79dd700	PAYLOAD TYPE: 1
CAPWAP::Tue May	9 09:20:00 2017 d79dd700	HLEN: 2
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	RID: 0
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	WBID: 1
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	Single Fragment
[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	

[CAPWAP::Tue May 9.09:20:00 2017] d79dd700 ######## Status Event ######## [CAPWAP::Tue May 9.09:20:00 2017] d79dd700 Parsing Change State Event Request [CAPWAP::Tue May 9.09:20:00 2017] d79dd700 Change State Event Request Parsed [CAPWAP::Tue May 9.09:20:00 2017] d79dd700 Change State Event Request Parsed [CAPWAP::Tue May 9.09:20:00 2017] d79dd700 Assembling Change State Event Response [CAPWAP::Tue May 9.09:20:00 2017] d79dd700 Assembling Data Check Msg VSP [CAPWAP::Tue May 9.09:20:00 2017] d79dd700 Assembling Data Check Msg VSP [CAPWAP::Tue May 9.09:20:00 2017] d79dd700 infolp is AC140102 [CAPWAP::Tue May 9.09:20:00 2017] d79dd700 infolp is AC140102 [CAPWAP::Tue May 9.09:20:00 2017] d79dd700 Calculate msg elem size [CAPWAP::Tue May 9.09:20:00 2017] d79dd700 Create message [CAPWAP::Tue May 9.09:20:00 2017] d79dd700 Create message [CAPWAP::Tue May 9.09:20:00 2017] d79dd700 Create message [CAPWAP::Tue May 9.09:20:00 2017] <td< th=""><th></th><th></th><th></th></td<>			
CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Parsing Change State Event Request CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Parsing Change State Event Request Parsed CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Change State Event Request Parsed CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Change State Event Request Parsed CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Change State Event Request Parsed CAPWAP::Tue May 9 09:20:00 2017] d79dd700 WTP MGMT INFO VERSION 3 CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Assembling Data Check Msg VSP CAPWAP::Tue May 9 09:20:00 2017] d79dd700 infolp is AC14011E CAPWAP::Tue May 9 09:20:00 2017] d79dd700 infolp is AC14011E CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Create message CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Create messa	[CAPWAP::Tue May	9 09:20:00 2017] d79dd700	######### Status Event #########
CAPWAP::Tue May 9 09:20:00 2017] d79dd700 MESSAGE_TYPE: 11 CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Change State Event Request Parsed CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Change State Event Request Parsed CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Assembling Change State Event Response CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Assembling Change State Event Response CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Assembling Data Check Msg VSP CAPWAP::Tue May 9 09:20:00 2017] d79dd700 assembling Data Check Msg VSP CAPWAP::Tue May 9 09:20:00 2017] d79dd700 infolp is AC140102 CAPWAP::Tue May 9 09:20:00 2017] d79dd700 catulate msg elem size CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Create message CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Change State Ev	[CAPWAP::Tue May	9 09:20:00 2017 d79dd700	Parsing Change State Event Request
ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 MESSAGE_TYPE: 11 ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 Change State Event Received ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 Assembling Change State Event Received ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 WTP MGMT INFO VERSION 3 ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 WTP MGMT INFO VERSION 3 ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 Assembling Data Check Msg VSP ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 infolp is AC140102 ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 infolp is AC140102 ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 Create message ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 Create message ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 Timer Request ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 Timer Request ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 Timer Request ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 Change State Event Response Assembled ICAPWAP::Tue May 9 09:20:00 2017] d79dd700 Change State Event Response Sent ICAPWAP::Tue May 9 09:20:00 2017] d79dd700<	CAPWAP::Tue May	9 09:20:00 20171 d79dd700	Parse Control Header
[CAPWAP::Tue May 9 09:20:00 2017] d79d700 Change State Event Request Parsed [CAPWAP::Tue May 9 09:20:00 2017] d79d700 Change State Event Request Parsed [CAPWAP::Tue May 9 09:20:00 2017] d79d700 Assembling Change State Event Response [CAPWAP::Tue May 9 09:20:00 2017] d79d700 Assembling Data Check Msg VSP [CAPWAP::Tue May 9 09:20:00 2017] d79d700 Assembling Data Check Msg VSP [CAPWAP::Tue May 9 09:20:00 2017] d79d700 Assembling Data Check Msg VSP [CAPWAP::Tue May 9 09:20:00 2017] d79d700 infolp is AC14010E [CAPWAP::Tue May 9 09:20:00 2017] d79d700 infolp is AC1401E [CAPWAP::Tue May 9 09:20:00 2017] d79d700 Create message [CAPWAP::Tue May 9 09:20:00 2017] d79d700 Timer Request [CAPWAP::Tue May 9 09:20:00 2017] d79d700 Timer Request [CAPWAP::Tue May 9 09:20:00 2017] d79d700 Timer Request [CAPWAP::Tue May 9 09:20:00 2017] d79d700 <td< td=""><td>ICAPWAP::Tue May</td><td>9 09:20:00 20171 d79dd700</td><td>MESSAGE TYPE: 11</td></td<>	ICAPWAP::Tue May	9 09:20:00 20171 d79dd700	MESSAGE TYPE: 11
[CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Change State Event Received [CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Assembling Change State Event Response [CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Assembling Data Check Msg VSP [CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Assembling Data Check Msg VSP [CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Assembling Data Check Msg VSP [CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Infolp is AC140102 [CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Infolp is AC140102 [CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Create message [CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Fragment [CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Fragment [CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Create message [CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Create Response Sent [CAPWAP::Tue May 9 09:20:00 2017] d79dd700 Create Tre	ICAPWAP Tue May	9 09·20·00 2017 d79dd700	Change State Event Request Parsed
CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Assembling Change State Event Response CAPWAP::Tue May 9 09:20:00 2017 d79dd700 VTP MGMT INFO VERSION 3 CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Assembling Change State Event Response CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Assembling Data Check Msg VSP GAPWAP::Tue May 9 09:20:00 2017 d79dd700 infolp is AC140102 CAPWAP::Tue May 9 09:20:00 2017 d79dd700 infolp is AC140102 CAPWAP::Tue May 9 09:20:00 2017 d79dd700 calculate msg elem size CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Create message CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Create message CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Create message CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Change State Event Response Assembled CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Change State Event Response Sent CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Timer Request CAPWAP::Tue May 9 09:20:017 d79dd700 Create Thread <	ICAPWAP: Tue May	9 09·20·00 2017] d79dd700	Change State Event Received
CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Assembling Data Check Msg VSP CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Assembling Data Check Msg VSP CAPWAP::Tue May 9 09:20:00 2017 d79dd700 gt tunnel i_o of wtp: find[0][0]=172.20.1.2 CAPWAP::Tue May 9 09:20:00 2017 d79dd700 infolp is AC140102 infolp is AC140102 CAPWAP::Tue May 9 09:20:00 2017 d79dd700 infolp is AC140162 Calculate msg elem size CAPWAP::Tue May 9 09:20:00 2017 d79dd700 infolp is AC1401FE Calculate msg elem size CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Create message Create message CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Create message Create message CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Create message Create message CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Create message Create message CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Create message Createmage CAPWAP::Tue May 9 09:20:00 2017 d79dd700 Message Sent Timer Request Timer Request Timer Reque	ICAPWAP: Tue May	9 09·20·00 2017] d79dd700	Assembling Change State Event Response
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[CAPWAP::Tue May 9 09:20:00 2017] d79dd700 w6000_open_udptap: Udp tunnel opened for 192.168.0.40 (0x5c09e71a-0x49d53b15-0x2fa288d3-0x3969c063) [CAPWAP::Tue May 9 09:20:26 2017] d7a1e700 create Thread [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Received packet [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 VERSION: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 PAYLOAD TYPE: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 RID: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Single Fragment [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Parse Control Header [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 # [CAPWAP::Tue May 9 09:20:5		9 09·20·00 2017] d79dd700	w6000 open udptan: No VI AN manning has been set up
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[CAPWAP::Tue May 9 09:20:26 2017] d7a1e700 Create Thread [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Received packet [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 VERSION: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 PAYLOAD TYPE: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 HLEN: 2 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 RID: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 RID: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 RID: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 WBID: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Parse Control Header [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Parse Control Header [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request Parsed	(0x5c00a71a0x/0d5)	3b15_0v2fa288d3_0v3969c063	
[CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Received packet [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 VERSION: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 PAYLOAD TYPE: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 HLEN: 2 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 RID: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 RID: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 RID: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 WBID: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Single Fragment [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Parse Control Header [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request Rased		9 09·20·26 20171 d7a1e700	Create Thread
[CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Received packet [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 VERSION: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 PAYLOAD TYPE: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 HLEN: 2 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 RID: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 WBID: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Single Fragment [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Parse Control Header [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request Parsed		5 05.20.20 2017] 07010700	cleate miead
[CAPWAP::Tue May 9 09:20:51 2017] d79dd700 VERSION: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 PAYLOAD TYPE: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 HLEN: 2 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 RID: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 WBID: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Single Fragment [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Parse Control Header [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request Parsed	[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	Received packet
[CAPWAP::Tue May 9 09:20:51 2017] d79dd700 VERSION: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 PAYLOAD TYPE: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 HLEN: 2 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 RID: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 WBID: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Single Fragment [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Parse Control Header [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #			
[CAPWAP::Tue May 9 09:20:51 2017] d79dd700 PAYLOAD TYPE: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 HLEN: 2 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 RID: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 WBID: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Single Fragment [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Parse Control Header [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request Parsed	[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	VERSION: 0
[CAPWAP::Tue May 9 09:20:51 2017] d79dd700 HLEN: 2 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 RID: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 WBID: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Single Fragment [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Parse Control Header [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)#	[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	PAYLOAD TYPE: 1
[CAPWAP::Tue May 9 09:20:51 2017] d79dd700 RID: 0 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 WBID: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Single Fragment [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Parse Control Header [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)#	[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	HLEN: 2
[CAPWAP::Tue May 9 09:20:51 2017] d79dd700 WBID: 1 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Single Fragment [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Parse Control Header [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request Parsed	[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	RID: 0
[CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Single Fragment [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Parse Control Header [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request Parsed	[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	WBID: 1
[CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Parse Control Header [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)#	[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	Single Fragment
[CAPWAP::Tue May 9 09:20:51 2017] d79dd700 MESSAGE_TYPE: 13 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)#	[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	Parse Control Header
[CAPWAP::Tue May 9 09:20:51 2017] d79dd700 [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request Parsed	[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	MESSAGE_TYPE: 13
[CAPWAP::Tue May 9 09:20:51 2017] d79dd700 #Echo Request (Run)# [CAPWAP::Tue May 9 09:20:51 2017] d79dd700 Echo Request Parsed	[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	
ICAPWAP: Tue May 9 09:20:51 20171 d79dd700 Echo Request Parsed	[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	# Echo Request (Run)#
	[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	Echo Request Parsed

[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	Timer Request
[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	Timer Request: thread(-677521664), signal(12)
[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	Assembling Echo Response
[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	1 Fragment
[CAPWAP::Tue May	9 09:20:51 2017] d79dd700	Echo Response Assembled
CAPWAP::Tue May	9 09:20:51 2017] d79dd700	Packet Sent
-	-	
[CAPWAP::Tue May	9 09:21:01 2017] d79dd700	Received packet
-	-	
[CAPWAP::Tue May	9 09:21:01 2017] d79dd700	VERSION: 0
CAPWAP::Tue May	9 09:21:01 2017 d79dd700	PAYLOAD TYPE: 1
CAPWAP::Tue May	9 09:21:01 2017 d79dd700	HLEN: 2
CAPWAP::Tue May	9 09:21:01 2017 d79dd700	RID: 0
CAPWAP::Tue May	9 09:21:01 2017 d79dd700	WBID: 1
CAPWAP::Tue May	9 09:21:01 2017 d79dd700	Single Fragment
CAPWAP::Tue May	9 09:21:01 2017 d79dd700	Parse Control Header
CAPWAP::Tue May	9 09:21:01 2017 d79dd700	MESSAGE TYPE: 13
CAPWAP::Tue May	9 09:21:01 2017 d79dd700	_
CAPWAP::Tue May	9 09:21:01 2017 d79dd700	# Echo Reguest (Run) #
CAPWAP::Tue May	9 09:21:01 2017 d79dd700	Echo Request Parsed
CAPWAP::Tue May	9 09:21:01 2017 d79dd700	Timer Request
CAPWAP::Tue May	9 09:21:01 2017 d79dd700	Timer Request: thread(-677521664), signal(12)
CAPWAP::Tue May	9 09:21:01 20171 d79dd700	Assembling Echo Response
CAPWAP::Tue May	9 09:21:01 2017] d79dd700	1 Fragment
CAPWAP::Tue May	9 09:21:01 2017] d79dd700	Echo Response Assembled
CAPWAP::Tue May	9 09:21:01 2017] d79dd700	Packet Sent

Figure 2.1a – CAPWAP Log

b. Configuration Change Log

This log shows the history of changes that have been made to the configurations in the Controller's WMI. In some situations (e.g. troubleshooting), it would be useful to trace the changes by identifying what changes were made to the configurations as well as which administrative accounts made the changes at a certain point in time.

Time=2018-02-09 12:18:22, Request URI=/SystemConfiguration/SystemInformation.shtml, User name=edgecore, Remote Address=10.73.16.198, Settings=system_name = EWS Controller, admin_contact_info = , httpsCert = 0, SSL = Enabled, https_redirect = Enabled, usessl_cn = enable, useragent_skip_portal_popup = IEMobile/7.0,XBLWP7, billlog_ip = , SNMP_en = Disabled, suspend_message = Sorry! The service is suspended., utc_offset = +8;Asia/Taipei, ntp_en = Enabled, time_ip = time.nist.gov, hid_time_ip = time.nist.gov, time_ip2 = ntp1.fau.de, hid_time_ip2 = ntp1.fau.de, time_ip3 = clock.cuhk.edu.hk, hid_time_ip3 = clock.cuhk.edu.hk, time_ip4 = ntps1.pads.ufrj.br, hid_time_ip4 = ntps1.pads.ufrj.br, time_ip5 = ntp1.cs.mu.OZ.AU, hid_time_ip5 = ntp1.cs.mu.OZ.AU, save = 1, m_systime = , time_check = 0, utc_offset_check = +8;Asia/Taipei,

Time=2018-02-06 19:43:18, Request URI=/Utilities/MIaUser.shtml, User name=admin, Remote Address=192.168.1.99, Settings=admin Table_length = 10, act = , save = 2, AdminName = edgecore, NewPassword = edgecore, ConfirmPassword = edgecore, GroupLevel = 1, Email = , School = ,

Time=2018-02-06 19:37:25, Request URI=/SystemConfiguration/ServiceZoneConf.shtml?sz_id=0, User name=admin, Remote Address=192.168.1.99, Settings=sz_name = Default, Ian_isolation = Disabled, Ian_mode = NAT, Ian_ip = 192.168.1.254, Ian_netmask = 255.255.0.0, em_start_ip = 192.168.10.1, em_end_ip = 192.168.10.254, enable_auth = Enabled, policy_index = 1, HOMEPAGE_en = Enabled, succeed_page = http://www.google.com, mac_auth_en = Disabled, srv_check = 2, ppp_auth_en = Disabled, ppp_lan_mode = NAT, pstartIP = 172.50.0.1, sip_support = Disabled, sip_wan_if = eth3, mgmt_index = 1, mgmt_enable_1 = Enabled, mgmt_enable_2 = Enabled, mgmt_enable_3 = Enabled, mgmt_enable_4 = Enabled, mgmt_enable_5 = Enabled, mgmt_enable_103 = Enabled, mgmt_enable_119 = Enabled, mgmt_enable_121 = Enabled, save = 1,

Time=2018-02-02 16:54:55, Request URI=/SystemConfiguration/ServiceZoneConf.shtml?sz_id=0, User name=admin, Remote Address=192.168.1.51, Settings=sz_name = Default, lan_isolation = Disabled, lan_mode = NAT, lan_ip = 192.168.1.254, lan_netmask = 255.255.0.0, em_start_ip = 192.168.10.1, em_end_ip = 192.168.10.254, enable_auth = Enabled, policy_index = 1, HOMEPAGE_en = Enabled, succeed_page = http://www.google.com, mac_auth_en = Disabled, srv_check = 2, ppp_auth_en = Disabled, ppp_lan_mode = NAT, pstartIP = 172.50.0.1, sip_support = Disabled, sip_wan_if = eth3, mgmt_enable_1 = Enabled, mgmt_enable_2 = Enabled, mgmt_enable_3 = Enabled, mgmt_enable_4 = Enabled, mgmt_enable_5 = Enabled, mgmt_index = 103, mgmt_enable_103 = Enabled, save = 1,

Figure 2.1b – Configuration Change Log

c. Local Monthly Usage

This log shows monthly statistical information about the traffic of "Local Database" users,

including Username, Connection Time, and Number of Packets / Bytes transmitted.

	Monthly Report 2018-02				
Username	Connection Time Usage	Packets In	Bytes In	Packets Out	Bytes Out
user1	4 hrs 59 mins	159.1K	68M	200.1K	232M
user2	2 hrs 32 mins	18.5K	1588.3K	18.1K	42.1M
user3	44 mins 22 secs	23.7K	3541.1K	18.3K	9461.1K
user4	0	0	0	0	0
user5	0	0	0	0	0

Figure 2.1c – Local Monthly Usage

d. Local Web Log

This log shows the URLs of the Web Management Interface of the Controller that have been

accessed by administrators or operators. In the following example, 10.73.16.198 is the IP address

of the administrative PC, while 10.71.5.10 is the WAN IP address of the Controller.

Mar 19 14:38:19 logd@W6000 lighttpd[11487]: 10.73.16.198 10.71.5.10 - [19/Mar/2018:14:38:19 +0800] 80 'GET
/top.shtml HTTP/1.1' 200 8363
Mar 19 14:38:19 logd@W6000 lighttpd[11487]: 10.73.16.198 10.71.5.10 - [19/Mar/2018:14:38:19 +0800] 80 'GET
/include/utility.js HTTP/1.1' 200 45428
Mar 19 14:38:19 logd@W6000 lighttpd[11487]: 10.73.16.198 10.71.5.10 - [19/Mar/2018:14:38:19 +0800] 80 'GET
/include/shortcut.js HTTP/1.1' 200 6209
Mar 19 14:38:19 logd@W6000 lighttpd[11487]: 10.73.16.198 10.71.5.10 - [19/Mar/2018:14:38:19 +0800] 80 'GET
/include/sitepath.shtml HTTP/1.1' 200 103529
Mar 19 14:38:19 logd@W6000 lighttpd[11487]: 10.73.16.198 10.71.5.10 - [19/Mar/2018:14:38:19 +0800] 80 'GET
/include/jquery-patch.js HTTP/1.1' 200 1931
Mar 19 14:38:19 logd@W6000 lighttpd[11487]: 10.73.16.198 10.71.5.10 - [19/Mar/2018:14:38:19 +0800] 80 'GET
/main2.shtml HTTP/1.1' 200 5909
Mar 19 14:38:19 logd@W6000 lighttpd[11487]: 10.73.16.198 10.71.5.10 - [19/Mar/2018:14:38:19 +0800] 80 'GET
/include/jquery.js HTTP/1.1' 200 97188
Mar 19 14:38:19 logd@W6000 lighttpd[11487]: 10.73.16.198 10.71.5.10 - [19/Mar/2018:14:38:19 +0800] 80 'GET
/include/utility.js HTTP/1.1' 200 45428
Mar 19 14:43:43 logd@W6000 lighttpd[11546]: 10.73.16.198 10.71.5.10 - [18/Mar/2018:14:43:43 +0800] 80 'GET
/include/jquery-ui-timepicker-addon.js HTTP/1.1' 200 73119
Mar 19 14:43:43 logd@W6000 lighttpd[11546]: 10.73.16.198 10.71.5.10 - [18/Mar/2018:14:43:43 +0800] 80 'POST
/status/UserEvent.shtml HTTP/1.1' 200 13307
Mar 19 14:43:34 logd@W6000 lighttpd[11546]: 10.73.16.198 10.71.5.10 - [18/Mar/2018:14:43:34 +0800] 80 'GET
/include/jquery.js HTTP/1.1' 200 97188
Mar 19 14:43:34 logd@W6000 lighttpd[11546]: 10.73.16.198 10.71.5.10 - [18/Mar/2018:14:43:34 +0800] 80 'GET
/include/shortcut.js HTTP/1.1' 200 6209
Mar 19 14:43:34 logd@W6000 lighttpd[11546]: 10.73.16.198 10.71.5.10 - [18/Mar/2018:14:43:34 +0800] 80 'GET
/include/jquery-patch.js HTTP/1.1' 200 1931
Mar 19 14:43:34 logd@W6000 lighttpd[11546]: 10.73.16.198 10.71.5.10 - [18/Mar/2018:14:43:34 +0800] 80 'GET
/include/utility.js HTTP/1.1' 200 45428
Figure 2.1d – Local Web Log

e. Micros Opera Log

This log displays all records of communication between the Controller and the PMS. Each record entry has several fields which are separated by the separator character "|" in the following format: [Record ID | Field ID1 Data1 | Field ID2 Data2 | Field ID3 Data3 | ...], where Record ID = ID (without data) which specifies the record type and the action to be performed Field ID Data = ID with relevant data which specifies the field type and data to be sent

For example, a Guest Check-in (GI) record entry will look like

[GI|RNData|G#Data|GNData|GLData|NPData|DAData|TIData|], where each field ID stands for -

GI: Guest Check-in, RN: Room Number, G#: Guest Number, GN: Guest Name, GL: Guest Language,

NP: No Posting Status, DA: Date, TI: Time

[2017-07-31 12:32:10] From Micros Opera [LS DA170731 TI133208]]
[2017-07-31 12:32:10] Connected to Micros Opera which Server IP[31.145.179.147] Port[5090]
[2017-07-31 12:32:11] From Micros Opera [LA DA170731 TI133209]
[2017-07-31 12:33:23] From Micros Opera [DS DA170731 TI123226]
[2017-07-31 12:33:29] From Micros Opera [GO RN703 G#2105103 GSN DA170731 TI123227]
[2017-07-31 12:33:30] From Micros Opera [GI RN207 G#2104907 GNHasan GLEA NPN DA170731 TI123227]]
[2017-07-31 12:33:30] From Micros Opera [GI RN301 G#2104942 GNAIsaliman GLTR NPN DA170731 TI123227]]
[2017-07-31 12:33:30] From Micros Opera [GI RN301 G#2105100 GNAlosayI GLTR NPN DA170731 TI123227]
[2017-07-31 12:33:30] From Micros Opera [GI RN410 G#2102605 GNDashti GLEA NPN DA170731 TI123227]
[2017-07-31 12:33:30] From Micros Opera [GI RN404 G#2105745 GNTrapaidze GLEA NPN DA170731 TI123227]]
[2017-07-31 12:33:30] From Micros Opera [GI RN406 G#2106160 GNAlghanim GLEA NPN DA170731 TI123227]]
[2017-07-31 12:33:30] From Micros Opera [GI RN406 G#2106163 GNAI Sulaiti GLEA NPN DA170731 TI123227]
[2017-07-31 12:33:30] From Micros Opera [GI RN707 G#2105751 GNSaad GLTR NPN DA170731 TI123227]
[2017-07-31 12:33:30] From Micros Opera [GI RN707 G#2105758 GNAlhendal GLTR NPN DA170731 TI123227]
[2017-07-31 12:33:30] From Micros Opera [GI RN820 G#2106137 GNJohnson GLEA NPN DA170731 TI123227]

Figure 2.1e – Micros Opera Log

f. On-Demand Billing Report

This page (Main Menu > Status > Logs and Reports > On-Demand Billing Report) displays a summary of On-Demand account transactions. Note: for the report to be generated, it is necessary to first enable (check) the timed interval of On-Demand User Billing Report, as shown in Figure 2.1f(1).

	SYSTEM	USERS	DEVICES					NETWORK		UTILITIE	S STATUS
System Summary				Rec	eiver	E-ma	ail Ado	lress(es)	SYSLOG	Primary FTP	Interval
Interfaces			1	2	3	4	5	Detail / Test			
Monitor Users	Monitor IP Report							13	N/A	N/A	1 Hour 🔻
Process Monitor	Local Users Log							13			1 Hour 🔻
Logs & Reports	On-Demand Users Lo	g						13			1 Hour 🔻
Notification Settings	Guest Users Log							13			1 Hour 🔻
FTP Settings	Roaming Out Users L	og						13			1 Hour 🔻
SMTP Settings	Roaming In Users Log	g						13			1 Hour 🔻
Syslog Settings	External Users Log							053			1 Hour 🔻
Sessions	Social Media Lisers Lo	σ		-	-		-	1 12			1 Hour T
DHCP Leases	Social Micula OSCIS Ed	' 5	-	-	-	-	-				THOU
Routing Tables	One Time Password U	Jsers Log									1 Hour 🔻
	Session Log							13			1 Hour 🔻
	Firewall Log							13		N/A	1 Hour 🔻
	Local Area AP Status	Change						13	N/A Check	N/A	2 Mins *
									CHECK		■ 10 ▼ Daily Report
	On-Demand User Billi	ing Report						13	N/A		Sun Weekly Report Monthly Report
	Wildo Aron AR Status	Change	-		-	-	-	150	NIZA	NIA	2 Mina

Figure 2.1f(1) – Check Timed Interval Setting to enable On-Demand Billing Report

						To log On	-Demand Bill	Type ing Report, th	ALL •	Duration	Daily Tin Notificatio
ated Ac	count										
P	lan	1	2	3	4	5	6	7	8	9	0
	Amount	12	6	21	0	0	0	0	0	0	0
All	Income	12.00	18.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
a daa ta	Amount	3	3	12	0	0	0	0	0	0	0
admin	Income	3.00	9.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
an availant	Amount	3	2	2	0	0	0	0	0	0	0
operatori	Income	3.00	6.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Amount	6	1	7	0	0	0	0	0	0	0
operator2	Income	6.00	3.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Logged-in Account

P	lan		2	3	4	5	6	7	8	9	0
All	Amount	4	2	8	0	0	0	0	0	0	0
All	Income	4.00	6.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
a dua la	Amount	2	1	6	0	0	0	0	0	0	0
admin	Income	2.00	3.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
eneveter1	Amount	1	0	0	0	0	0	0	0	0	0
operatori	Income	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
an avatav2	Amount	1	1	2	0	0	0	0	0	0	0
operator2	Income	1.00	3.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Figure 2.1f(1) – On-Demand Billing Report

g. RADIUS Server Log

This log displays the messages related to RADIUS authentication and RADIUS accounting traffic

that pass through the Controller.

Request-Authenticator = Verified Timestamp = 1386755444 Realm = "radius" FreeRADIUS-Acct-Session-Start-Time = "Dec 11 2017 17:38:44 CST" Acct-Terminate-Cause = User-Request Event-Timestamp = "Dec 11 2017 11:34:37 CST" Acct-Session-Time = 720 Connect-Info = "CONNECT 0Mbps 802.11" NAS-Port-Type = Wireless-802.11 Calling-Station-Id = "20-68-9D-4C-BF-AE" Called-Station-Id = "00-C0-CA-5F-8B-58:AP-A1_802.1x" NAS-Port = 0 NAS-IP-Address = 192.168.1.1 User-Name = "user1@radius" Acct-Authentic = RADIUS Acct-Status-Type = Stop Acct-Session-Id = "4B3D5B23-0000008" Src-IP-Address = 192.168.1.1 Wed Dec 11 17:50:44 2017 Request-Authenticator = Verified Timestamp = 1386755384 Realm = "radius" FreeRADIUS-Acct-Session-Start-Time = "Dec 11 2017 17:38:44 CST" Event-Timestamp = "Dec 11 2017 11:33:37 CST" Acct-Output-Octets = 697409 Acct-Input-Octets = 237205 Acct-Output-Packets = 884 Acct-Input-Packets = 977 Acct-Session-Time = 660 Connect-Info = "CONNECT 0Mbps 802.11" NAS-Port-Type = Wireless-802.11 Calling-Station-Id = "20-68-9D-4C-BF-AE" Called-Station-Id = "00-C0-CA-5F-8B-58:AP-A1_802.1x" NAS-Port = 0 NAS-IP-Address = 192.168.1.1 User-Name = "user1@radius" Acct-Authentic = RADIUS Acct-Status-Type = Interim-Update Acct-Session-Id = "4B3D5B23-00000008" Src-IP-Address = 192.168.1.1 Wed Dec 11 17:49:44 2017

Figure 2.1g – RADIUS Server Log

h. SIP Call Usage Log

This log displays incoming and outgoing call activities of SIP clients; information includes Start Time, Caller, Callee and Duration.

SIP Call Usage Log									
Start Time	Caller	Callee	Duration (seconds)						
2015-09-01 11:46:02	303@10.131.5.235	11@10.131.5.235	5						
2015-09-01 11:46:25	11@10.131.5.235	303@10.131.5.235	7						

Figure 2.1h – SIP Call Usage Log

i. SMS API Log

This log displays information on the SMS messages sent to users' phones (first delivered from the

Controller to the configured SMS system via the SMS API), including phone number,

authentication type, and IP address of the client device.

[2018-03-19 18:29:31] Sent SMS to 85256781234 with OTP, IP:192.168.1.101	
[2018-03-19 18:31:27] Sent SMS to 886987654321 with OTP, IP:192.168.1.29	
[2018-03-19 18:35:27] Sent SMS to 886988123456 with OTP, IP:192.168.1.50	

Figure 2.1i – SMS API Log

j. System Log

This log displays system related events, such as DHCP, NTP Sync, Process Monitoring, etc.

Nov 30 15:00:51 @W6000 dnsmasq-dhcp[25516]: DHCPREQUEST(eth14) 172.24.6.90 78:6c:1c:af:59:fd Nov 30 15:00:51 @W6000 dnsmasq-dhcp[25516]: DHCPACK(eth14) 172.24.6.90 78:6c:1c:af:59:fd iPhone Nov 30 15:00:51 @W6000 dnsmasq[25516]: child process exited with status 1 Nov 30 15:00:51 @W6000 dnsmasq-dhcp[25516]: DHCPDISCOVER(eth14) c8:a8:23:80:df:b0 Nov 30 15:00:51 @W6000 dnsmasq-dhcp[25516]: DHCPOFFER(eth14) 172.24.4.115 c8:a8:23:80:df:b0 Nov 30 15:00:51 @W6000 dnsmasq-dhcp[25516]: DHCPREQUEST(eth14) 172.24.4.115 c8:a8:23:80:df:b0 Nov 30 15:00:51 @W6000 dnsmasq-dhcp[25516]: DHCPACK(eth14) 172.24.4.115 c8:a8:23:80:df:b0 android-f4da21277021be11 Nov 30 15:00:51 @W6000 dnsmasg[25516]: child process exited with status 1 Nov 30 15:01:12 @W6000 <user.notice> root: [Process Monitor] Last check time: 2017-11-30 15:01:12 +0800 Nov 30 15:02:14 @W6000 <user.notice> nobody: administrator admin login time:Thu, 30 Nov 2017 15:02:14 +0800, IP:172.24.16.198 Nov 30 15:02:22 @W6000 <user.notice> root: [Process Monitor] Last check time: 2017-11-30 15:02:22 +0800 Nov 30 15:03:32 @W6000 <user.notice> root: [Process Monitor] Last check time: 2017-11-30 15:03:32 +0800 Nov 30 15:04:08 @W6000 <user.notice> root: NTP time.nist.gov synchronized successfully. Nov 30 15:04:42 @W6000 <user.notice> root: [Process Monitor] Last check time: 2017-11-30 15:04:42 +0800 Nov 30 15:05:52 @W6000 <user.notice> root: [Process Monitor] Last check time: 2017-11-30 15:05:52 +0800

Figure 2.1j – System Log

k. UAMD Log

This log displays Universal Access Method Daemon (UAMD) related information. Note that Universal Access Method (UAM) is a browser-based authentication mechanism that intercepts the HTTP (and/or HTTPS) requests and redirect users to the captive portal page. In some cases, it might be helpful to look into the UAMD messages for troubleshooting purposes. For example, the following log message entries could be resulted from 3 scenarios:

(1) The iOS device (192.168.2.70) was accessing captive.apple.com over and over, which might be due to the fact that this iOS device was switching between Wi-Fi and cellular networks.

192.168.2.70 [24/Oct/2015:09:48:33 +0800] "GET /8T7YvNKKhjBCEmn/ayYDL1ASLOSA0qR.html HTTP/1.0" Host: captive.apple.com 192.168.2.70 [24/Oct/2015:09:55:20 +0800] "GET /Wp7f1J7UkdEF/I8EOUvBBN4sd/RUSHtfEr8W1a/3mgVpQni1Pqd/NgrzRdoXrdSm.html HTTP/1.0" Host: captive.apple.com 192.168.2.70 [24/Oct/2015:10:07:26 +0800] "GET /3IAKSIdI2/tHQBj58S5/ciZMJTrp6/zpIBJkMHu.html HTTP/1.0" Host: captive.apple.com 192.168.2.70 [24/Oct/2015:10:31:27 +0800] "GET /5RoEX5xu/HEAS8szs/8INZBmBG/qrMTi2Tg/Q3D0ROju.html HTTP/1.0" Host: captive.apple.com 192.168.2.70 [24/Oct/2015:10:33:17 +0800] "GET /NHrJVnegt4Sp/ndAEDBrq237r/Oyhqb7DO5ppr/4UmdHEh7TVam/waOSKhpG12b7.html HTTP/1.0" Host: captive.apple.com

Figure 2.1k(1) – UAMD Log Scenario 1

(2) The PC (192.168.2.40) kept trying to access Kaspersky websites, but never succeeded. This would waste the HTTP resources of the Controller.

192.168.2.40 [25/Oct/2015:03:12:34 +0800] "GET /updaters/updater.xml.klz HTTP/1.0" Host: dnl-02.geo.kaspersky.com 192.168.2.40 [25/Oct/2015:03:12:34 +0800] "GET /updaters/updater.xml.klz HTTP/1.0" Host: dnl-16.geo.kaspersky.com 192.168.2.40 [25/Oct/2015:03:12:34 +0800] "GET /updaters/updater.xml HTTP/1.0" Host: dnl-16.geo.kaspersky.com 192.168.2.40 [25/Oct/2015:03:12:35 +0800] "GET /updaters/updater.xml HTTP/1.0" Host: dnl-07.geo.kaspersky.com 192.168.2.40 [25/Oct/2015:03:12:34 +0800] "GET /updaters/updater.xml HTTP/1.0" Host: dnl-07.geo.kaspersky.com 192.168.2.40 [25/Oct/2015:03:12:34 +0800] "GET /updaters/updater.xml HTTP/1.0" Host: dnl-02.geo.kaspersky.com 192.168.2.40 [25/Oct/2015:03:12:34 +0800] "GET /updaters/updater.xml HTTP/1.0" Host: dnl-02.geo.kaspersky.com

Figure 2.1k(2) – UAMD Log Scenario 2

(3) The Android device (192.168.2.217) kept trying to access certain Google websites, but the non-browser HTTP requests had been dropped (as indicated by the string "[reject]") by the Controller's "UAM Filter" function (Main Menu > System > General > UAM Filter).

192.168.2.217 [26/Oct/2015:15:36:45 +0800] "GET /generate_204 HTTP/1.1" Host: connectivitycheck.gstatic.com [reject] 192.168.2.217 [26/Oct/2015:15:36:45 +0800] "GET /generate_204 HTTP/1.1" Host: clients3.google.com [reject] 192.168.2.217 [26/Oct/2015:15:36:45 +0800] "GET /generate_204 HTTP/1.1" Host: clients3.google.com [reject] 192.168.2.217 [26/Oct/2015:15:36:46 +0800] "GET /generate_204 HTTP/1.1" Host: connectivitycheck.gstatic.com [reject] 192.168.2.217 [26/Oct/2015:15:36:52 +0800] "GET /generate_204 HTTP/1.1" Host: connectivitycheck.gstatic.com [reject] 192.168.2.217 [26/Oct/2015:15:36:48 +0800] "GET /generate_204 HTTP/1.1" Host: connectivitycheck.gstatic.com [reject]

Figure 2.1k(3) – UAMD Log Scenario 3

I. User Events

This page displays all user account related information (e.g. type of accounts, username, type of events - account creation, user login, user logout events, etc.) customizable to administrator's preference.

To customize the columns to be displayed, click "Configure" on Display Mode. Select begin and end date from the calendar and click "Display" to display all User Events within the selected dates.

To generate a report using third-party application such as Excel, use "Download" button to download the displayed User Events into a comma separated .txt file. Then save it as a new file with .csv extension to sort the data into cells in Excel spreadsheet.

	SYSTEM	USERS	DEVICE	s N	ETWORK	UTILITIES	STATUS
System Summary	Main > Status > Logs a	nd Reports - User Events					
Interfaces							
Monitor Users	User Even	ts					
Process Monitor							
Logs & Reports		Canfinum					
CAPWAP Log	Display Mode	Conligure					
Configuration Change Log	From	2018-03-19					Display
Local Monthly Usage	То	2018-03-22					
Local Web Log	Liser Type				anning Out	ala 🔲 Cutanal 🗐 Car	
Micros Opera Log	Oser Type	🕑 Local 🕑	On-Demand	Guest G K	oaming Out 😐 Roamin	ig in 🖾 External 🖾 Soc	
On-Demand Billing Report	Download				Туре	T	Search
RADIUS Server Log							
SIP Call Usage	Туре	Date	Name	IP	MAC	Event	Device Type
SMS API Log	ONDEMAND	2018-03-19 16:36:39 +0800	6t3k	0.0.0.0	00:00:00:00:00:00	Create OD User	
System Log							
UAMD Log	ONDEMAND	2018-03-19 16:36:45 +0800	449m	0.0.0.0	00:00:00:00:00:00	Create_OD_User	
User Events	ONDEMAND	2018-03-19 16:36:50 +0800	n9v6	0.0.0	00:00:00:00:00:00	Create_OD_User	
Reporting	ONDEMAND	2018-03-19 16:37:56 +0800	7cs3	0.0.0.0	00:00:00:00:00:00	Create_OD_User	
Sessions	ONDEMAND	2018 02 10 16:28:02 :0800	21.00	0000	00.00.00.00.00.00	Create OD User	
DHCP Leases	UNDEMAND	2016-05-19 10:38:02 +0800	2899	0.0.0.0	00:00:00:00:00:00	create_OD_Oser	
Routing Tables	ONDEMAND	2018-03-19 16:53:04 +0800	6t3k	10.73.16.198	06:10:F3:2C:06:64	OD_User_Login	N/A
	ONDEMAND	2018-03-19 16:54:44 +0800	6t3k	10.73.16.198	06:10:F3:2C:06:64	OD_User_Logout	N/A

Figure 2.1I – User Events

2.2 Notification (*Main > Status > Reporting*)

a. Notification Settings	
--------------------------	--

SYSTEM USERS	5		DEV	ICES		NETW	/ORK	UTILITIES	STATUS
Main - Status - Reporting - Notification Setting	5								
Notification Settings									
				F	ماري ال	(mana(an)	ave oc	Dulara a CTD	Internal
		Rec	eiver	E-ma	III Add	ress(es)	SYSLOG	Primary FTP	Interval
	1	2	3	4	5	Detail / Test			
Monitor IP Report							N/A	N/A	1 Hour 🔻
Local Users Log						13			1 Hour 🔻
On-Demand Users Log						13			1 Hour 🔻
Guest Users Log						15			1 Hour 🔻
Roaming Out Users Log						1 13	- /	= /	1 Hour
Reaming in Licers Log	-	-	-	0	-	150	0.0		1 Hour
Roaming in Osers Log	-	-	-	-	-				THOUR
External Users Log									1 Hour 🔻
Social Media Users Log									1 Hour 🔻
One Time Password Users Log						13			1 Hour 🔻
Session Log						13			1 Hour 🔻
Firewall Log						13		N/A	1 Hour 🔻
Local Area AP Status Change						13	N/A	N/A	2 Mins V
	SYSTEM USERS Main > Status > Reporting > Notification Settings Notification Settings Monitor IP Report Local Users Log On-Demand Users Log Guest Users Log Guest Users Log Roaming Out Users Log Roaming In Users Log Social Media Users Log Social Media Users Log Session Log Firewall Log Local Area AP Status Change	SYSTEM USERS Main > Status > Reporting > Notification Settings Notification Settings Notification Settings Notification Settings Nonitor IP Report Local Users Log On-Demand Users Log Guest Users Log Guest Users Log Guest Users Log Guest Users Log Coall Media Users Log Social Media Users Log Social Media Users Log Session Log Firewall Log Local Area AP Status Change	SYSTEM USERS Main - Status - Reporting - Notification Settings Notification Settings Notification Settings Notification Settings Notification Settings Nonitor IP Report Local Users Log On-Demand Users Log On-Demand Users Log Guest Users Log Guest Users Log Cone Time Password Users Log Social Media Users Log Session Log Firewall Log Local Area AP Status Change	SYSTEM USERS DEV Main > Status > Reporting > Notification Settings Notification Settings Notification Settings Monitor IP Report 1 2 Local Users Log 1 2 On-Demand Users Log 1 2 Guest Users Log 1 1 Roaming Out Users Log 1 1 Roaming In Users Log 1 1 Social Media Users Log 1 1 One Time Password Users Log 1 1 Firewall Log 1 1 Local Area AP Status Change 1 1	SYSTEM USERS DEVICES Main > Status > Reporting > Notification Settings Notification Settings Monitor IP Report 1 2 3 Monitor IP Report Local Users Log On-Demand Users Log Guest Users Log Roaming Out Users Log Roaming In Users Log Social Media Users Log One Time Password Users Log Guest Log Image: Session Log Firewall Log Local Area AP Status Change	SYSTEM USERS DEVICES Main > Status > Reporting • Notification Settings Notification Settings Monitor IP Report Local Users Log On-Demand Users Log Guest Users Log Roaming Nut Users Log Roaming In Users Log Social Media Users Log One Time Password Users Log One Time Password Users Log Image: Session Log Firewall Log Local Area AP Status Change	SYSTEM USERS DEVICES NETW Main > Status > Reporting > Notification Settings On-Demand Users Log Image: Social Media Users Log Image: Soc	SYSTEM USERS DEVICES NETWORK Main > Status > Reporting > Notification Settings Monitor IP Report 1 2 3 4 5 Detail / Test N/A Cocal Users Log 1 2 3 4 5 Detail / Test 1 2 4 2 4 2 4 5 4 4 4 4 4 4 4 4 4 4 4 4	SYSTEM USERS DEVICES NETWORK UTILITIES

Figure 2.2a - Notification Settings Page

Left Column and Top Row: All types of logs, the three external systems (administrators' email boxes, SYSLOG servers, and FTP servers), and the timed interval are listed.

Check Buttons: It can be enabled to send the logs to the three external systems at the timed interval. The settings of each of the three external systems are configured in the corresponding configuration pages.

b. FTP Settings

	SYSTEM	USERS	DEVICES	NETWORK	UTILITIES	STATUS
System Summary	Main > Status > Reporting > FTP Se	ttings			distant and	
Interfaces						
Monitor Users	FTD Cattings					
Process Monitor	FIP Settings					
Logs & Reports	and the second sec					
Reporting	Primary FTP Server	IF	P Address	10.1.2.3		
Notification Settings				21		
FTP Settings		P	on	21		
SMTP Settings	Login	(Anonymous Normal			
Syslog Settings			Icornama	ftaadmin		1
Sessions		U	isemanie	rtpaumin		
DHCP Leases		P	assword			
Routing Tables	Send Test File		Send			
	Secondary FTP Server	IF	9 Address			
		P	ort			
	Login		Anonymous Normal			
	Send Test File		Send			

Figure 2.2b - FTP Settings

c. SMTP Settings

	SYSTEM	USERS	DEVICES	NETWORK	UTILITIES	STATUS
System Summary	Main > Status > Reporting > SMT	P Settings				
Interfaces		-				
Monitor Users	SMTP Settings					
Process Monitor						
Logs & Reports					1	
Reporting	SMTP Server		Server Address s	mtp.gmail.com		
Notification Settings			Port 5	87 *		
FTP Settings	Encryption		O Disable O TLS O S	5L		
SMTP Settings	Authentication				and the state of the	
Syslog Settings			Login			
Sessions			Account Name wlan.co	ntroller.1@testwlan.net *		
DHCP Leases			Password	*		
Routing Tables	Sender E-mail Addre	255	wlancontroller.admin@t	estwlan.net *		
	Receiver E-mail Add	ress	Receiver 1 v	vlan.controller.1@testwlan.net		
			Receiver 2	vlan.controller.2@testwlan.net	State of the second	
			Receiver 3			
			Receiver 4			
			Receiver 5			
	Send Test E-mail		Send			

Figure 2.2c – SMTP Settings

d. Syslog Settings

	SYSTEM	USERS	DEVICES	NETWORK	UTILITIES	STATUS
System Summary	Main > Status > Reporting > SYS	LOG Settings				
Interfaces						
Monitor Users	SYSLOG Settin	gs				
Process Monitor						
Logs & Reports						
Reporting	SYSLOG		Enabled Disabled			
Notification Settings	SYSLOG Server	Ser	ver 1			
FTP Settings		50				
SMTP Settings			IP Ac	dress: 10.1.2.5		
Syslog Settings				Port: 514		
Sessions		Ser	ver 2			
DHCP Leases			ID Ac	Idross		
Routing Tables			IF AU			
				Port:		
	Severity Level	e a c e w n ir i d	mergency T mergency left frical rror varning otice offormational ebug	oly 🔀 Cancel		

Figure 2.2d – Syslog Settings

Note: Administrators can limit the messages to be sent to the Syslog server by specifying the "Severity Level" of the message. By default, Severity Level is set to "emergency"; in some cases, it would be helpful to set it to "debug" level in order to include the additional messages for system debugging purposes.

e. Example notifications

Please note that the notifications will send raw data to the configured external systems.

(1) Sample On-Demand Users Log

Date: Mon, 12 Mar 2018 17:59:09 +0800
#Date System Name Event Name Unit Price Total Price IP IPv6 MAC Packets In Bytes In Packets Out Bytes Out Activationtime Expiretime Validtime Remark VLAN ID Group Policy MaxDnLoad MaxUpLoad ReqDnLoad ReqUpLoad External ID Reference Source Type AP Name Device Type
OS NAT IP 2018-03-12 17:04:14 +0800 EWS5203 OD_User_Logout 6232 1 1 1 192.168.1.29 N/A AA:BB:CC:DD:EE:FF 49755 10696446 80657 86065551 2018-03-12 16:03:21 None None 0 Group 1 1 ONDEMAND N/A Windows
2018-03-12 17:06:28 +0800 EWS5203 OD_User_Login 6232 1 1 192.168.1.29 N/A AA:BB:CC:DD:EE:FF 0 0 0 2018-03-12 16:03:21 None None 0 Group 1 1 Unlimited Unlimited Unlimited Unlimited N/A N/A
Construction Construction<
2018-03-12 17:11:25 +0800 EWS5203 OD_User_Redeemed 6232 1 1 2 :: 0 0 0 None None Admin Redeem by admin ONDEMAND N/A
2018-03-12 17:13:20 +0800 EWS5203 Create_OD_User mvpy 1 1 1 0.0.0.0 :: 00:00:00:00:00:00 0 0 0 None 2018-03-13 17:13:20 None plan1: 1 day(s) of usage time WEB:admin ONDEMAND
2018-03-12 17:13:25 +0800 EWS5203 OD_User_Logout 6232 1 2 192.168.1.29 N/A AA:BB:CC:DD:EE:FF 1492 283473 1791 592024 2018-03-12 16:03:21 None None 0 Group 1 1 ONDEMAND N/A Windows 0 Group 1 0

(2) Sample Configuration Change Log

Date: Tue, 03 Apr 2018 13:59:24 +0800

Time=2018-03-30 11:50:11, Request URI=/status/UserEventDisplayMode.shtml, User name=admin, Remote Address=10.70.5.98, Settings=display_mode = type date name ip mac event account_valid_through activation_time first_login_expiration os price remark total_price unit,

Time=2018-03-30 14:04:45, Request URI=/NetworkConfiguration/WalledGardenListEdit.shtml, User name=admin, Remote Address=10.73.16.31, Settings=item_num = 1, act = add, addr_1 = www.google.com, url_1 = http://www.google.com, ip_1 = www.google.com, Enabled_1 = 1, sz1 = 0, Remark_1 = , Enabled_ad_1 = 1, pr1 = http, Topic_1 = google Web, Descr_1 = ,

```
\label{eq:timestress} Time=2018-03-30\ 15:11:17, Request URI=/SystemConfiguration/DhcpConfiguration.shtml?sz_id=0, User name=admin, Remote Address=10.73.16.31, Settings=dhcp_server = Enabled, start_ip1 = 192.168.10.1, end_ip1 = 192.168.10.100, dns_primary_ip1 = 192.168.10.254, dns_secondary_ip1 = , domain_name1 = domain.com, lease_time1 = 1440, wins_ip1 = , ignore_name2 = Disabled, start_ip2 = , end_ip2 = , dns_primary_ip2 = , dns_secondary_ip2 = , domain_name2 = , lease_time2 = 1440, wins_ip2 = , ignore_name2 = Disabled, start_ip3 = , end_ip3 = , dns_primary_ip3 = , dns_secondary_ip3 = , domain_name3 = , lease_time3 = 1440, wins_ip3 = , ignore_name3 = Disabled, start_ip4 = , end_ip4 = , dns_primary_ip4 = , dns_secondary_ip5 = , domain_name4 = , lease_time4 = 1440, wins_ip4 = , ignore_name4 = Disabled, start_ip5 = , end_ip5 = , end_ip5 = , end_ip5 = , dns_secondary_ip5 = , dns_secondary_ip5 = , domain_name4 = , lease_time5 = 1440, wins_ip5 = , ignore_name5 = Disabled, start_ip5 = , oths_primary_ip5 = , dns_secondary_ip5 = , domain_name6 = , lease_time6 = 1440, wins_ip5 = , ignore_name6 = , lease_time6 = , lease_time6 = , lease_time6 = , ignore_name6 = , lease_time6 = , lease_time6 = , lease_time6 = , ignore_name6 = , lease_time6 = , lease_t
```

(3) Sample Session Log

Date: Tue, 03 Apr 2018 12:59:09 +0800 Apr 3 11:59:53 2018 [New]test@local TCP MAC=AA:BB:CC:DD:EE:FF SIP=192.168.10.92 SPort=58362 DIP=17.253.17.205 DPort=80 [New]test@local UDP MAC=AA:BB:CC:DD:EE:FF SIP=192.168.10.92 SPort=16403 DIP=17.173.254.222 DPort=16384 [New]test@local UDP MAC=AA:BB:CC:DD:EE:FF SIP=192.168.10.92 SPort=16403 DIP=17.173.254.222 DPort=16385 [New]test@local UDP MAC=AA:BB:CC:DD:EE:FF SIP=192.168.10.92 SPort=16403 DIP=17.173.254.223 DPort=16386 [New]test@local UDP MAC=AA:BB:CC:DD:EE:FF SIP=192.168.10.92 SPort=16403 DIP=17.173.254.223 DPort=16408 Apr 3 11:59:54 2018 Apr 3 11:59:54 2018 Apr 3 11:59:54 2018 3 11:59:54 2018 Apr Apr 3 11:59:54 2018 New]test@local UDP MAC=AA:BB:CC:DD:EE:FF SIP=192.168.10.92 SPort=16403 DIP=60.250.129.28 DPort=16403 3 11:59:54 2018 New]test@local UDP MAC=AA:BB:CC:DD:EE:FF SIP=192.168.10.92 SPort=16403 DIP=60.250.129.28 DPort=16403 Apr 3 11:59:56 2018 [New]test@local UDP MAC=AA:BB:CC:DD:EE:FF SIP=192.168.10.92 SPort=16403 DIP=60.250.129.28 DPort=16403

3 Remarks

Please contact Technical Support Team for additional inquiries.