SE ClearPass Remote Demo Platform Information/GSG Guide

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Introduction

This document contains the necessary information to connect, manage and deliver the demos contained in the ClearPass SE Demo Environment.

All information is subject to change as and when the demos are expanded and additional demos put in place. Please check with the content owners if in doubt and for the latest version.

It is imperative that under **no circumstances** should you modify any of the information on either the CPPM or OAW Controller.

As this demo is open to any SE that requests access, and that there is no need to reserve access, we must preserve the present configuration so that all users will be able to use the scripts as written.

Please feel free to send any improvements of ideas to the central team (contact details at end of this document).

List of Available Demos

The platform provides the following ClearPass demos:

1. Wireless OnBoard
2. Wireless OnGuard
3. Wireless Guest Self-Registration
4. Wired combined OnGuard and OnBoard
5. Wired Guest Self-Registration
6. Wired Apple TV/AirGroup

How to obtain access to the Demo?

Presently, the demonstration platform is hosted in Brest, France. Access is via a RAP which will broadcast the SSIDs needed to connect to the platform.

The process for access is as follows:

1. Obtain a RAP (usually sourced from your local team using your teams Cost Centre)

2. Send the MAC address of your RAP to mike.dann@al-enterprise.com

3. Once the MAC address has been added to the allowed list, you can configure the RAP as per the instructions in the "RAP Configuration" chapter below.

4. Access to the environment is done over the Internet – this will not work from within Alcanet. Therefore you will need an xDSL line, or at least Internet access that does not block VPN traffic, and certain UDP ports (see below).

5. The wired demos require a local switch – either an OS6850E or OS6855, running AOS6.4.6R01 or later. The (static) IP address of the switch needs to be configured on the CPPM – if you intend to perform the wired demos, an IP address will be communicated to you, along with the boot.cfg (which will need to be modified before use).

RAP Configuration

Provision the Rap following these steps:

Network Information:

An Internet network access must be provided for the Remote AP to connect. Pre-requisites for these connections are:

1. DHCP and static IP address are supported
2. NAT'ed private IP or routed public IP are supported
3. If the connection is filtered, it must allow the UDP traffic from ports 500 and 4500

Cable Connections

1. Connect port 0 to your internet Connection
2. (optionally) Connect port 1 to your local switch

Resetting the RAP for Demo Access

Each time you want to use the RAP to *change* the configuration or if this is the first time you are provisioning the RAP, follow these steps:

1. Unplug the Power and Ethernet cables
2. Reset the RAP to its factory default settings by holding down the reset button (use a pin or paperclip to hold down the button)
3. Power on the RAP (plug-in the power cord) while still holding down the reset button
4. Wait for the power LED to start blinking (about 5 seconds) then release the reset button
5. Plug-in your WAN connection to port 0
6. Connect your laptop to port 1 using a RJ-45 cable
7. You can then connect to http://rapconsole.alcatel-lucent.com/ to change the configuration

Accessing the RAP

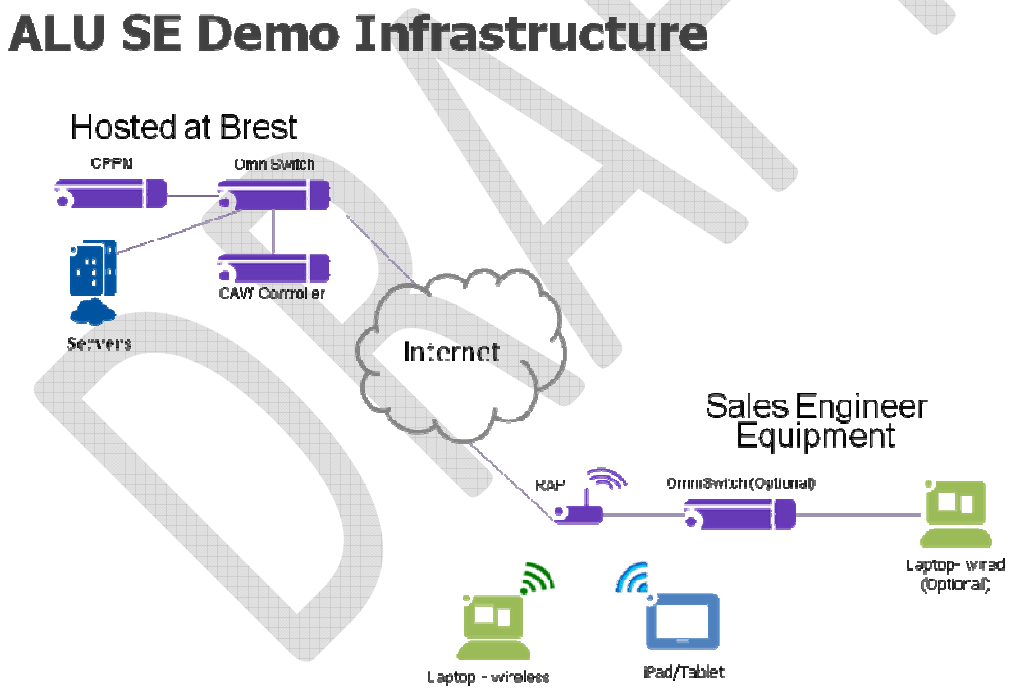
1. On your laptop, go to the address: http://rapconsole.alcatel-lucent.com/
2. In the "Remote Access Point Setup" add **195.128.146.52** as the OAW gateway

You should not need custom settings, but if you think you do, then contact Central Pre-Sales for more information (e.g. you use a 3G USB modem).

Demo Infrastructure

Network Diagram

The following diagram shows the basic layout of the demo:



There are 3 VM machines - 2 Windows servers and a Windows workstation - which form an Active Directory domain (uniacc.net). The ClearPass server is a member of this domain.

There are pre-configured users that are a part of this domain, and there are users that are located in the local user database hosted on the CPPM server. All of the demos have been configured to use users from both sources.

Equipment IP addresses

The demo uses the 192.168.8.0/24 network. A DHCP server will attribute an IP address on this range including DNS.

There are two addresses used in the demo which are not part of this range – the Management Port of the CPPM and a second IP address for the OAW controller. There will not be any need to connect to the secondary OAW address.

The following table lists the IP addresses required for the demos:

Equipment	IP Address	Notes
CPPM (Management Port)	192.168.111.100	Use this IP address to connect to the CPPM Management Console
CPPM (Data Port)	192.168.8.5	No connection for Admin purposes
OAW Controller	192.168.8.239	Used to connect to the OAW GUI

Note that in order to connect to the CPPM console you must add '/tips/' to end of the CPPM management IP in the url:

https://192.168.111.100/tips/

Administration Usernames and Passwords

Equipment	Username	Password	Notes
CPPM Admin	admin	**eTIPS123**	Used to show the CPPM Admin interface
CP Guest Operator	guestman	**Alcatel1**	Used to show operator access for CP Guest
OAW Controller	admin	**AlU-966%f**	Used to show OAW GUI.

Demo Usernames and Passwords

Username	Password	Notes
rjones	**alcatel**	AD user in 'Presales' group
jsmith	**alcatel**	AD user in 'Support' group
local1	**alcatel**	Local user with 'Employee' role

Further information on each user can be found in the demo script document.

Wireless Networks

There are 4 wireless networks presently broadcasted:

1. MDN_OPEN
2. MDN_Secure_1
3. MDN_Secure_2
4. MDN_Captive_1

All networks have Internet access (once authenticated) and DHCP enabled. The properties of each network are as follows:

MDN_OPEN
This network has WPA2 encryption to prevent unauthorised access. It has no firewall restrictions. It is used to connect to the equipment to show/administer the solution.

SSID	Password	Notes
MDN_OPEN	**alcatel1**	WPA2. AES.

MDN_Secure_1
This is a non-certificate 802.1x network. Use the following username/password combination to connect:

Username	Password
local1	**alcatel**

MDN_Secure_2
This is a certificate-only, 802.1x enabled network. Connection to this network is via 802.1x certificate delivered by OnBoard.

MDN_Captive_1
This is an unsecure network with Captive Portal redirection.

Wired Network

By connecting a switch to the RAP it is possible to demo Guest Self Registration, OnBoard and OnGuard via a wired connection to a windows PC.

The default boot.cfg configuration gives the following port assignments:

Port #	Connects to	Authentication	Notes
1/1	RAP	None	Use this port to connect to the RAP
1/3	Demo PC	CP -> .1x	One of 2 demo ports that are configured for Captive Portal (non-supplicant), then 802.1x – An 802.1x authentication will also use OnGuard to decide the dynamic UNP given to user.
1/5	Demo PC	CP -> .1x	Same as 1/3
1/7	Admin PC	None	Used to connect an admin PC for general administration tasks (analogous to the MDN_OPEN SSID).

Ports 1/2 and 1/4 have not been configured for 802.1x, but are part of the 1008 VLAN used for this demo.

Odd-numbered ports have been configured for ease of use when plugging-in and removing Ethernet cables.

The boot.cfg file is located in the same repository as the documentation.

In order for a switch to be used in conjunction with the demo platform, a unique, static IP address needs to be given. Please contact Central Pre-Sales for more information (details at the end of this document).

Further information pertaining to the wired demo can be found in the wired demo script documents.

Contacts

NBE contact for all aspects of the demo platform:

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