Https redirection issue

Problem

This issue occurs when the customer IP is not registered so it's URL is redirected to landing page.

Let me explain with www.bbc.co.uk

1. http redirection scenario.

When the request URL http://www.bbc.co.uk, it is redirected to landing page successfully.

- The IP address solved by dnsmasq service for the www.bbc.co.uk domain is 77.75.124.147.
- So this URL request http://www.bbc.co.uk goes to 77.75.124.147:80.
- And this request is redirected to port 85 by the rule:

```
-A PREROUTING -p tcp -m tcp --dport 80 -m set! --match-set SmartDNS_Customers src -j DNAT --to-destination :85
```

On the port 85, Access_Synchronizer called as ipsync is running.

It is run by the the following steps:

```
AWS.Config.Set.Server Port (Config HTTP, 85);
```

AWS.Config.Set.Server_Name (Config_HTTP, "proxy.channelhopper.tv");

AWS.Server.Start (Web Server HTTP, Access Synchronizer.Unfixed.Service HTTP'Access, Config HTTP);

In Access Synchronizer.Main.adb

• This Server receives the customer's request by the following:

```
function Service_Unwanted (Request : Status.Data) return Response.Data is begin
```

return Response.URL (Strings.Unbounded.To_String (Config.Landing_Page) & "?From_URL=" & URL.Encode (URL.URL (Status.URI (Request))));

end Service Unwanted;

In Access Synchronizer.Root.adb

• Finally, by the above steps, customer's request URL is redirected to landing page: https://channelhopper.tv/ucp/reg-network.php?From_URL=http%3A%2F%2Fwww.bbc.co.uk&Include_Cookie=True

2. https redirection scenario.

https redirection is almost same as the http redirection.

- URL request https://www.bbc.co.uk goes to 77.75.124.147:443.
- And this request is redirected to port 450 by the rule:
 -A PREROUTING -p tcp -m tcp --dport 443 -m set! --match-set SmartDNS_Customers src -j DNAT --to-destination: 450
- On the port 450, Access_Synchronizer is running.

```
Exactly, Access_Synchronizer is listening on both port 85 and 450, 85 for http and 450 for https. Config_HTTP, Config_HTTPS: AWS.Config.Object;
```

Please focus on the red colored lines.

Now we can know where the issue comes from....

The https redirection warning issue comes out from the between of user's browser and Access_Synchronizer's listening port 450 which uses ssl certificate you get from Comodo.

We can find out the cert status using this URL:

https://www.digicert.com/help

by inputing the proxy.channelhopper.tv since we configured the service name as that by:

```
AWS. Config. Set. Server\_Name~(Config\_HTTPS, "proxy. channel hopper.tv");\\
```

Result shows this cert is for *.dnstest.channelhopper.tv domain.

Now is this helpful for your understand?