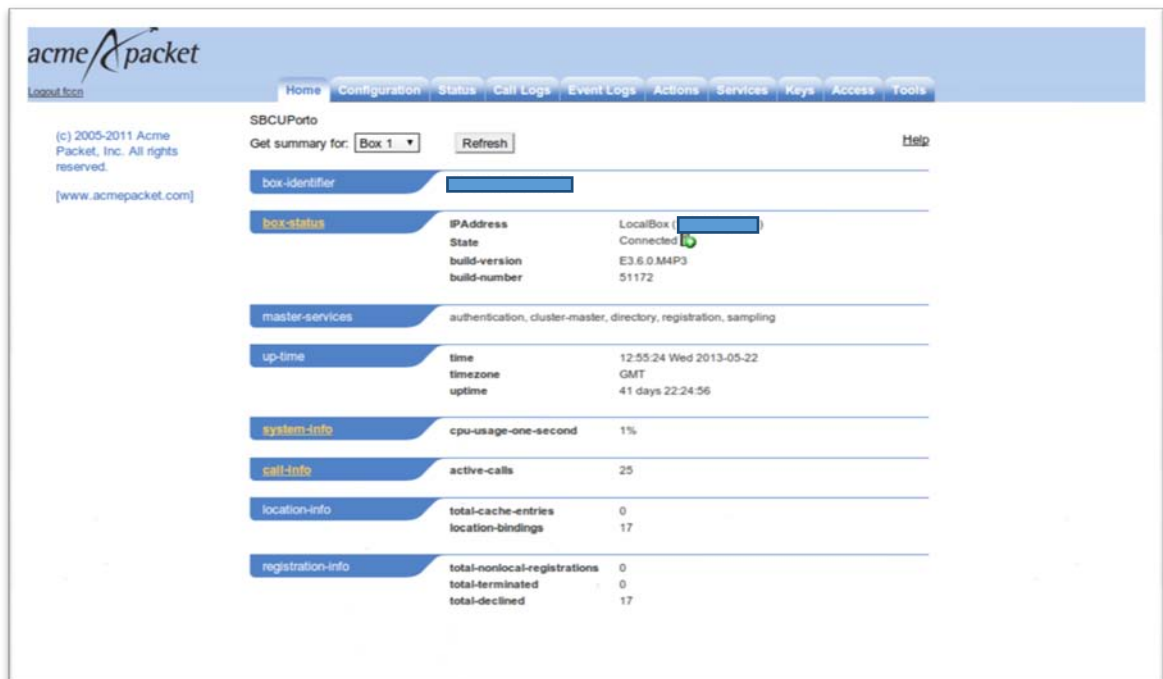


## Using ACME PACKET net-net Session Border Controller with nrenum.net


This document shows how to use an Acme Packet Net-Net OS-E session border controller to query the enum tree nrenum.net through the system web interface.

After a successful login on the web interface the sbc home screen is displayed. The configuration needed to query ENUM trees are made on the Tab Configuration->VSP-> DNS component and creating a dial plan rule on the dial-plan component, to use enum normalization using nrenum.net.



The screenshot displays the Acme Packet SBCUPorto web interface. The top navigation bar includes links for Home, Configuration, Status, Call Logs, Event Logs, Actions, Services, Keys, Access, and Tools. The main content area shows the status for 'Box 1' with a 'Refresh' button and a 'Help' link. The interface is organized into several sections:

- box-identifier**: A text input field.
- box-status**: A table showing system details:

IPAddress	LocalBox ( [redacted] )
State	Connected 
build-version	E3.6.0.M4P3
build-number	51172
- master-services**: authentication, cluster-master, directory, registration, sampling
- up-time**:

time	12:55:24 Wed 2013-05-22
timezone	GMT
uptime	41 days 22:24:56
- system-info**:

cpu-usage-one-second	1%
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- call-info**:

active-calls	25
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- location-info**:

total-cache-entries	0
location-bindings	17
- registration-info**:

total-nonlocal-registrations	0
total-terminated	0
total-declined	17

On the VSP\DNS it is necessary to add the enum server(s) used to place enum queries with a preference-order in case of using more than one tree.

The screenshot shows the 'Configure vspdns' configuration page in Acme Packet. The left sidebar shows a tree view with 'resolver' selected. The main content area includes a table of DNS servers and various configuration parameters.

server	protocol	port	preference	type	name
<a href="#">Edit</a> <a href="#">Delete</a> server	UDP	53	1	both	e164_arpa
<a href="#">Edit</a> <a href="#">Delete</a> server	UDP	53	3	both	e164_org
<a href="#">Edit</a> <a href="#">Delete</a> server	UDP	53	2	both	nrenum_net

Configuration parameters include: admin (enabled), server-scheme (preference-order), query-timeout (2), query-retries (2), cache-poll-interval (60), dead-threshold (6), not-available-ttl (3600), use-nnos-domain-in-search (enabled), additional-search-domains (e164.arpa), and enum-domain (e164.arpa).

Afterwards, and to place calls it is necessary to create a dial-plan rule to route the sip calls. This is done under VSP\dial-plan.

The screenshot shows the 'dial-plan' configuration page in Acme Packet. The left sidebar shows a tree view with 'dial-plan' selected, showing 128 instances of a route. The main content area shows the configuration for a dial-plan rule.

Configuration parameters include: admin (enabled), apply-to-headers (request-uri checked), alter-tel-scheme (yes), enum-operation (enabled), enum-server (enum-server e164\_arpa, e164\_org, nrenum\_net), synchronize-phone-group (type no), apply-to-methods (INVITE, REFER, MESSAGE, INFO), request-user (\* type no), and to-user (\* type no).

This rule should have the strongest priority in order to be validated when placing a call.

For further reference from ACME PACKET net-net admin guide

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