

## Optimizing Trunk Settings

This page describes the steps to optimize and tune the DAHDI (Analog) trunks on your UC<sup>X</sup> system.

### Echo Cancellation

1. Set the **Receive Gain** and **Transmit Gain** values to 0.0
  - ?On a R4.5 system, go to [PSTN Cards - Settings](#) and open **Global Settings**

Receive Gain ?	<input type="text" value="0.0"/>
Transmit Gain ?	<input type="text" value="0.0"/>

- On a R4.0 system, go to PBX -> Tools tab and use [Configuration File Editor](#) to edit the file **chan\_dahdi.conf**

```
rxgain=0.0  
txgain=0.0
```

2. Start a SSH session to your UC<sup>X</sup> server (e.g. use PuTTY) and login as **admin**.
3. Execute the command **ucx\_ectune x** where x is the number of trunks that you have.



This will stop the Call Processing Service and place the system out of service for approximately 1 minute per trunk. It will then reboot the system. We recommend you do this during a service/maintenance window.

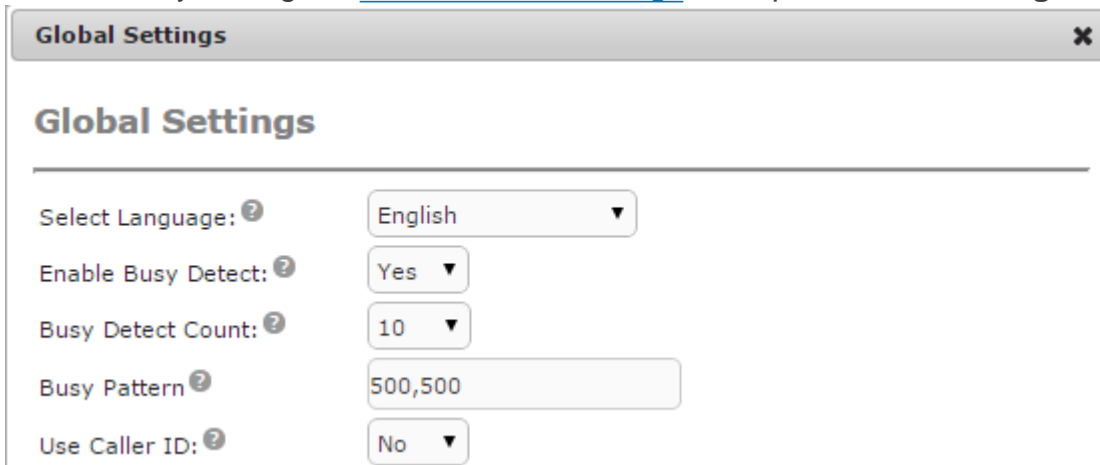
### Volume

To adjust the **DTMF Volume** of analog ports, go to the Digital Gateway [Device Configuration](#) page. When you use analog ports for fax or data, make sure **Echo Cancellation** and **Automatic Gain Control** for analog devices is disabled.

## Delay in Handling Incoming Calls

With analog trunks, the system is configured to wait for the caller ID for up to 8 seconds before continuing; this could be the first two rings. If you do not have caller ID on your trunks, you should disable **Use Caller ID**.

- On a R4.5 system, go to [PSTN Cards - Settings](#) and open **Global Settings**



The screenshot shows a window titled "Global Settings" with a close button (X) in the top right corner. Below the title bar, the heading "Global Settings" is displayed. The configuration options are as follows:

Select Language: ?	English ▼
Enable Busy Detect: ?	Yes ▼
Busy Detect Count: ?	10 ▼
Busy Pattern ?	500,500
Use Caller ID: ?	No ▼

- On a R4.0 system, go to PBX -> Tools tab and use [Configuration File Editor](#) to edit the file **chan\_dahdi.conf**

```
usecallerid=no
```