

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

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

```
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.

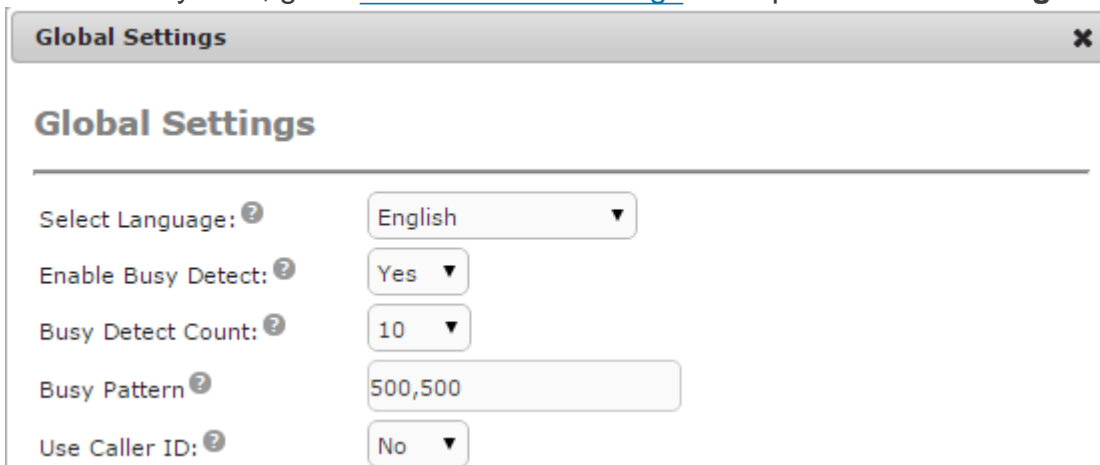
### Volume

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**



**Global Settings** [X]

**Global Settings**

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Select Language: <sup>?</sup> English ▼

Enable Busy Detect: <sup>?</sup> Yes ▼

Busy Detect Count: <sup>?</sup> 10 ▼

Busy Pattern <sup>?</sup> 500,500

Use Caller ID: <sup>?</sup> 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
```