Channel Khomp/README/en

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Quick guide

After installing the device in the system and run the installation program for the first time, the drivers and Khomp services will be added at system startup, and automatically loaded. Specific procedures are explained below, depending on the Channel version.

Channel 4 Series

In the Channel **4** series, the installation loads basic Khomp services necessary for the devices detection and initial system configuration. After that, you need to access the **KWebPortal** through a web browser, pointing to the server **IP** address where you installed the Channel (or *localhost* if you are on the same machine), **14100** port, with default user: "*admin*" and password: "*khomp*".

This interface allows you to add and/or remove devices in the system, and set the configuration parameters. After those procedures, you must start the **k3lserver** - can be done in the section **"Monitoring"**, **"Services"** tab - and the **Asterisk®**.

Updates on the system (adding or removing devices, or change configuration parameters) are performed on the **KWebPortal**, requiring only restart the **k3lserver** and the **Asterisk®** when:

- add or remove a device;
- change the devices order;
- change the **E1** signaling in a board (in a EBS is **not** required restart).

IMPORTANT: To enable all the features provided by Khomp, including monitoring, you must start the **Asterisk** after you start the **k3lserver**, because there is a mutual dependency between the two services. Otherwise, the **k3lserver**, although started, will not respond the requests of other processes.

If all these steps were performed successfully, proceed to the item **Using the Khomp channel**. If a problem occurs, see the User Guide, in the section Troubleshooting.

Channel 3 Series

In the Channel **3** or previous series, a basic setup screen will be presented at the end of the process. In this screen, you can configure signaling parameters - if there are signs E1 - and/or performing the adjustment cadences - where that FXO device.

At the end of the configuration screen, or if there are no FXO or E1 devices in the system, the installation will continue, and the basic Khomp services will start automatically.

Updates on the system (adding or removing devices, or change configuration parameters) are performed on the **k3lconfig**. This tool allows configuration of all parameters of the Khomp boards, allowing the user to just set the required parameters.

IMPORTANT: After changing any configuration, you must restart the **kserver** and the **Asterisk**;

If all these steps were performed successfully, proceed to the item **Using the Khomp channel**. If a problem occurs, see the User Guide, in the section Troubleshooting.

Using the Khomp channel

After installation and startup services required by Khomp, Asterisk can now be loaded or initialized.

- **WARNING**: It is imperative that the**Asterisk** is executed using the option of scheduling realtime (-p), **especially** if this is running side-by server-side with web servers or database. Failure to do so may result in loss of audio quality, causing a serious commitment on the progress of system connections.
- **IMPORTANT** The undevided use of system call in dialplan or other external controls (such as AGI or AMI) with realtime priority may cause "privelege escalation" problems and crash Asterisk or other proccess. More information on: https://wiki.asterisk.org/wiki/display/AST/Privilege+Escalations+with+Dialplan+Functions .

After initialization of Asterisk, you can verify that the module was loaded Khomp through the following command:

```
asterisk-pbx * CLI> show modules
```

There should be a line with the following information:

```
chan_khomp.so Khomp Channel Driver
```

To check if the Asterisk recognize all the devices, type:

```
asterisk-pbx * CLI> khomp summary
```

The output of this command will show details of all devices accepted.

In the case of an E1 device, you can check the status of links with the following command:

```
asterisk-pbx * CLI> show links khomp
```

The state of individual channels, in turn, can be measured with the command:

```
asterisk-pbx * CLI> show channels khomp
```

For more details on the commands of the channel khomp type in the console of Asterisk:

```
asterisk-pbx * CLI> help khomp
```

- **IMPORTANT**: To make full use of your Khomp device, you must configure your dialing rules, either through the extension.conf or from an external application by setting specific rules for conduct by receiving connections.
  In the User Guide, information can be found on the format of input contexts (responsible for receiving calls) and on the options available on application Dial (responsible for make calls) that can be used with the channel Khomp, and other special features provided by it.