Setting up OpenBTS on Crimson

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1 Introduction

It is required to setup OpenBTS using a combination of Per Vices forks. The following instructions are meant as a reference for copying and pasting. It should only be used only if the user has a general understanding of building OpenBTS. For further understanding on the instructions, please visit:

- UHD: http://files.ettus.com/manual/page_build_guide.html
- OpenBTS: http://openbts.org/w/index.php/BuildInstallRun

2 Instructions

- 1. Install all dependencies, get the source, build, and install UHD:
 - sudo apt-get install libboost-all-dev libusb-1.0-0-dev python-cheetah doxygen python-docutils cmake
 - git clone https://github.com/pervices/uhd.git
 - cd uhd/host/
 - mkdir build
 - cd build
 - cmake ../
 - make
 - make test
 - sudo make install
 - sudo ldconfig

- 2. Install all dependencies, get the source, build, and install OpenBTS:
 - sudo apt-get install autoconf libtool libosip2-dev libortp-dev libusb-1.0-0-dev g++ sqlite3 libsqlite3-dev erlang libreadline6-dev libncurses5-dev
 - git clone https://github.com/RangeNetworks/dev.git
 - cd dev/
 - ./clone.sh
 - cd a53/trunk
 - sudo make install
 - cd ../../
 - Exchange openbts with Per Vices fork:
 - (a) rm -rf openbts
 - (b) git clone https://github.com/pervices/openbts.git
 - cd openbts/
 - git submodule init; git submodule update
 - ./autogen.sh
 - ./configure --with-uhd
 - make
 - sudo make install
 - cd apps
 - ln -s ../Transceiver52/transceiver ./
 - sudo mkdir /etc/OpenBTS
 - sudo sqlite3 -init OpenBTS.example.sql /etc/OpenBTS/OpenBTS.db ".quit"
- 3. Install and configure Smqueue, Sipauthserve, Subscriber Registry, and Asterisk. http://openbts.org/w/index.php/BuildInstallRun