

## WSNIDE Installation Instructions

The Basic package requirements of WSN IDE includes

- TinyOS-1.x
- TinyOS-2.x
- TinyOS Tools
- TinyOS AVR Tools
- MSP 430 Tools
- JDK1.6
- AFWA Suite

1. Installation of JDK
  1. Download the binary from the below link <http://java.sun.com/javase/downloads/index.jsp>
  2. Change the permission of the file to 755  
`chmod 755 jdk-6u18-linux.bin`
  3. Run the executable  
`./jdk-6u16-linux.bin`
  4. This installs the JDK on your PC
2. Installation of CommAPI
  1. Download the commapi from <http://java.sun.com/products/javacomm/>
  2. unzip the commapi.zip
  3. Copy the files into the JDK install directory
    1. `cp $HOME/commapi/jar/comm.jar $INSTALL_DIR_JDK/jdk1.6.0_10/lib`
    2. `cp $HOME/commapi/jar/comm.jar $INSTALL_DIR_JDK/jdk1.6.0_10/jre/lib`
    3. `cp $HOME/commapi/jar/comm.jar $INSTALL_DIR_JDK/jdk1.6.0_10/jre/lib/ext`
    4. `cp $HOME/commapi/docs/javax.comm.properties $INSTALL_DIR_JDK/jdk1.6.0_10/jre/lib`
    5. `cp $HOME/commapi/lib/libLinuxSerialParallel.so /usr/lib`
  6. `ldconfig`
3. Running TinyOS (Includes installation of TinyOS Source, TinyOS tools, AVR Toolchain, MSP430 Toolchain, nesC)
  1. Follow the instructions on the link below to install tinyos and its toolchain
    1. <http://www.tinyos.net/dist-2.0.0/tinyos/linux>
    2. <http://sourceforge.net/projects/tinyos/files/tinyos/1.1.0/tinyos-1.1.0.tar.gz/download>
4. Make sure
  1. Enable micaz support to TinySec
    1. Download Tinysec for micaz from <http://www.cl.cam.ac.uk/research/security/sensornets/tinysec/>
    2. The archive contains *tos* directory with two folders *lib* and *platform*
    3. Copy it into the main directory of TinyOS installations
  2. Compile TinyOS Java applications
  3. Compile Deluge Application
5. Copy the Sniffer Library from lib directory into /usr/lib
6. AFWA Suite and WSNIDE installation
  1. Execute the script `setup.sh`
7. This Completes your installation procedure.
8. The IDE can now be invoked by  
`cd /opt/afwacdachyderabad/`  
`./bin/afwacdachyderabad`