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***Monitoring for Environment and Security in Africa (MESA)***

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## **eStation 2.0**

**Installation PyCharm module**

**Technical Note**

***March 2015***

**Date:** //

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Abstract / Résumé
This document provides guidelines for the installation of the PyCharm on computer.

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## ACRONYMS and DEFINITIONS

AMESD	African Monitoring of Environment for Sustainable Development
ACMAD	African Centre of Meteorological Applications for Development
AGRHYMET	Centre Régional de Formation et d'Application en Agrométéorologie et Hydrologie Opérationnelle
AU	African Union
BDMS	Botswana Department of Meteorological Services
CICOS	Commission Internationale du Bassin Congo-Oubagui-Sangha
CWG	The MESA Continentalisation Working Group
EO	Earth Observation
EUMETSAT	European Organisation for the Exploitation of Meteorological Satellites
EUMETCast	EUMETSAT's primary dissemination mechanism for the near real-time delivery of satellite data and products
FTP	File Transfer Protocol
GIS	Geographical Information System
IOC	Indian Ocean Commission
JRC	Joint Research Centre of the European Commission
MESA	Monitoring for Environment and Security in Africa
MOI	Mauritius Oceanography Institute
REC	Regional Economic Communities
RIC	Regional Implementation Centre
TA	Technical Assistance
TAT	Technical Assistance Team
THEMA	Regional and Continental Thematic Actions

## 1. INTRODUCTION

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### 1.1 SCOPE OF THE DOCUMENT

This document describes how to install PyCharm module on MESA computers (PC2 and PC3 which host the eStation 2.0 application).

### 1.2 APPLICABLE AND REFERENCE DOCUMENTS

Id	Title	Date	Reference
AD-1			
AD-2			
AD-3			
AD-4			

Table 1: Applicable documents

Id	Title	Date	Reference
RD-1			
RD-2			
RD-3			

Table 2: Reference documents

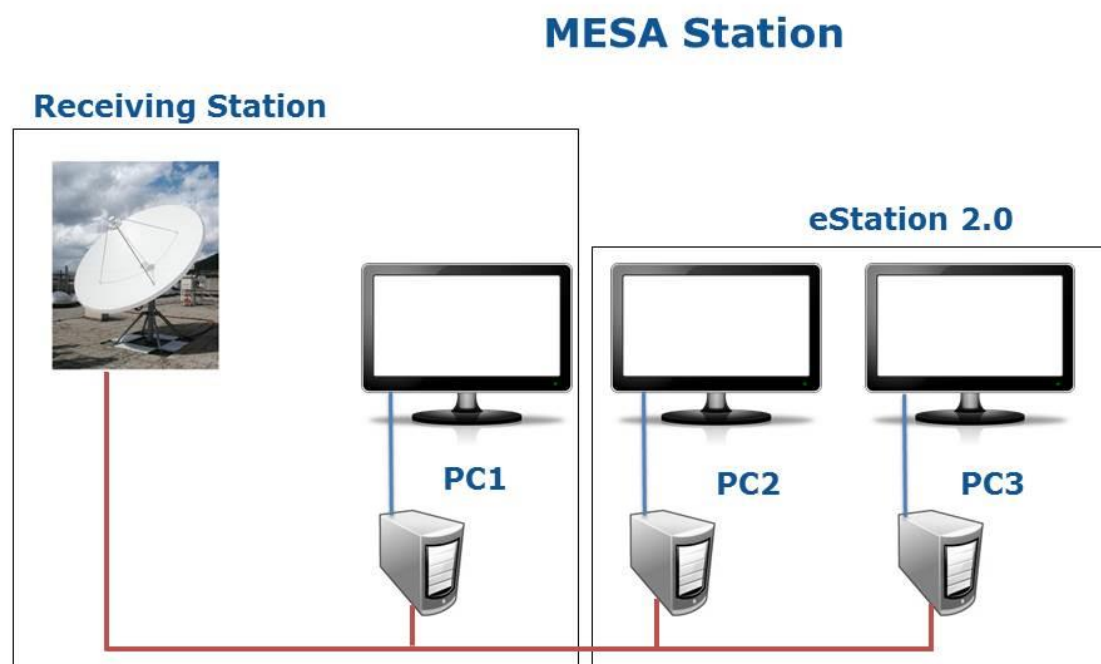
## 2. SCOPE OF INSTALLATION

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**PyCharm** is a Python IDE, which has interesting functions like: code completion, error highlighting, customizable, automated code refactorings and good navigation capabilities, etc.

### 2.1 INSTALLATION ON MESA COMPUTERS

Both AMESD and MESA stations are composed by 3 PCs, as displayed in Fig. 1; PC1 is connected to the external antenna, and it is part of the so-called 'Receiving Station', while PC2 and PC3 host the eStation 2.0 application.



*Figure 1: AMESD/MESA Stations architecture*

#### 2.1.1 Installation Procedure

The installation procedure is composed by the following steps:

1. Drag and drop the directory **pycharm** from your USB key (**/eStation/AddOns/**) to **/home/adminuser/** on your machine (fig. 1):

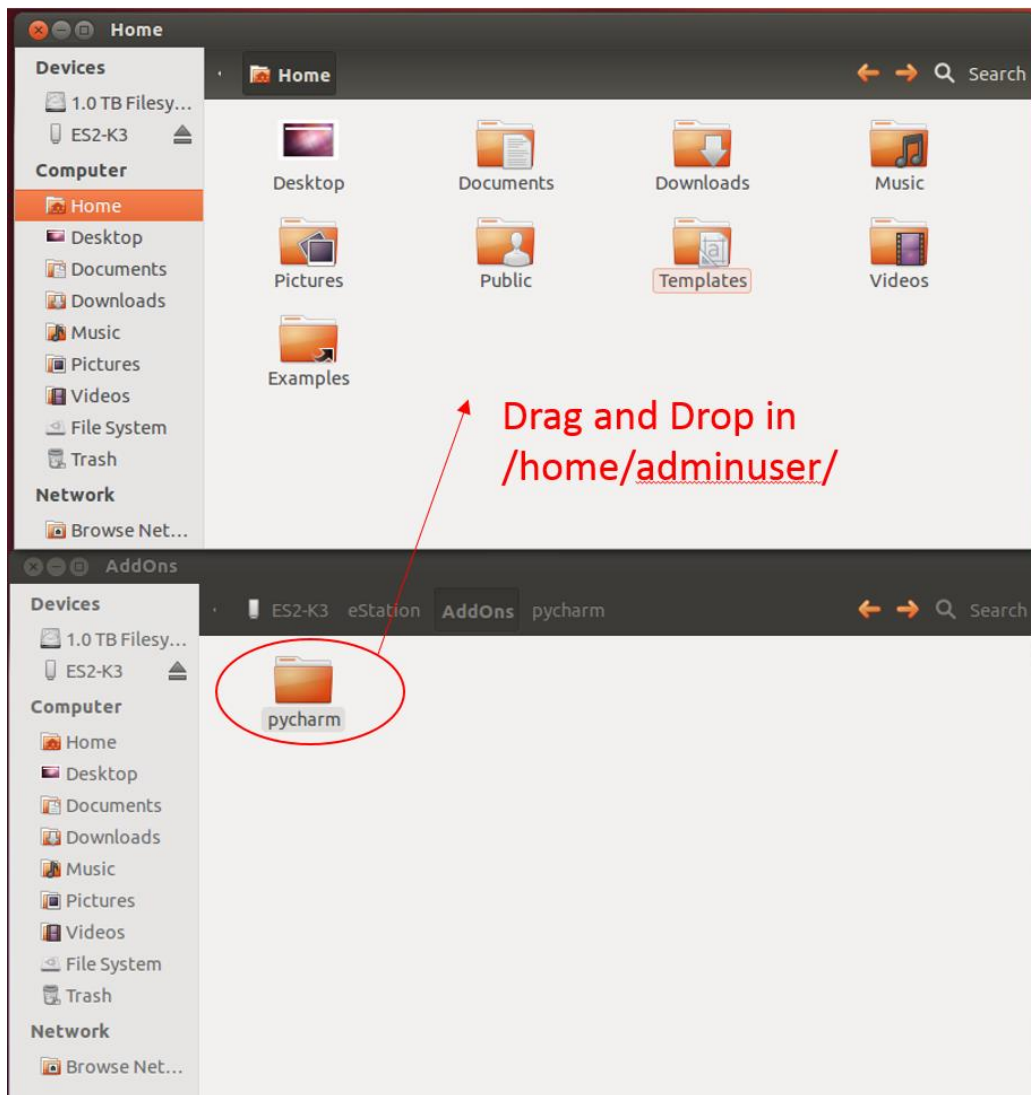


Figure 1. Drag and Drop directory pycharm (from USB key) to /home/adminuser/ on your computer.

2. Open a terminal and go to directory “/home/adminuser/pycharm/” by typing the command (fig.2):

**cd pycharm**

Then change the permissions to the pycharm-community-4.0.5.tar.gz file. Type the command (fig. 2):

**chmod 777 pycharm-community-4.0.5.tar.gz**

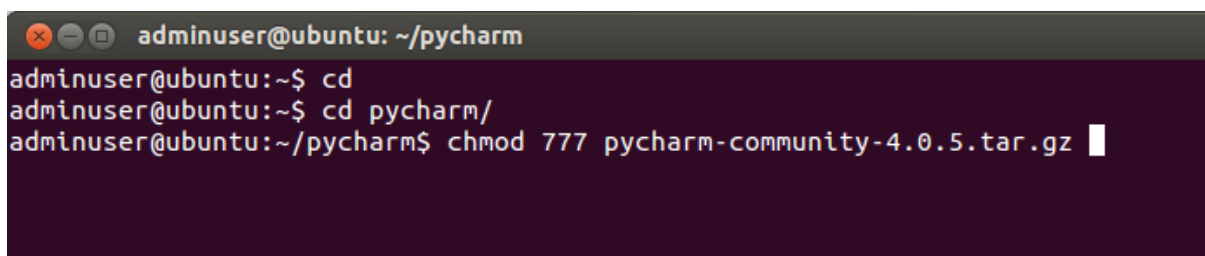
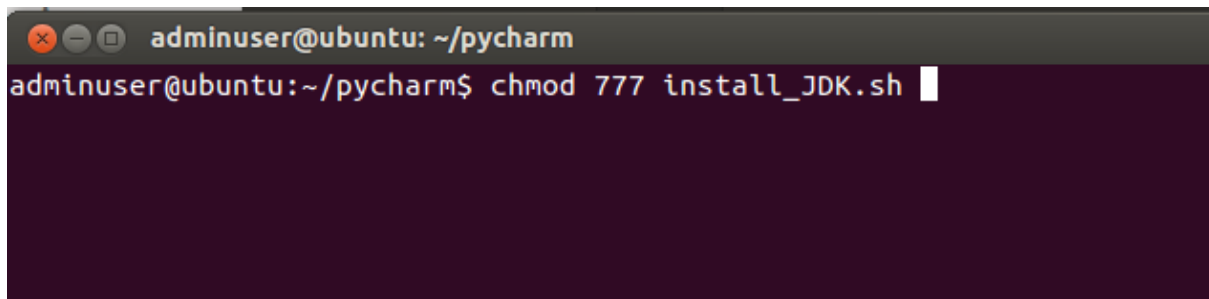


Figure 2. Change the permissions to the pycharm-community-4.0.5.tar.gz file.

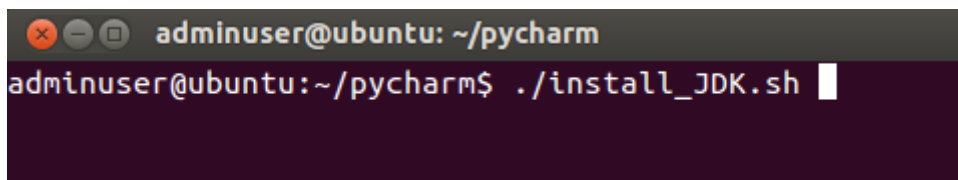
3. Change the permissions to the script **install\_JDK.sh** by typing the command (fig. 3):  
**chmod 777 install\_JDK.sh**

A terminal window with a dark purple background. The title bar shows 'adminuser@ubuntu: ~/pycharm'. The prompt is 'adminuser@ubuntu:~/pycharm\$'. The command 'chmod 777 install\_JDK.sh' has been entered, and a white cursor is at the end of the line.

```
adminuser@ubuntu: ~/pycharm
adminuser@ubuntu:~/pycharm$ chmod 777 install_JDK.sh
```

Figure 3. Change the permissions to script install\_JDK.sh.

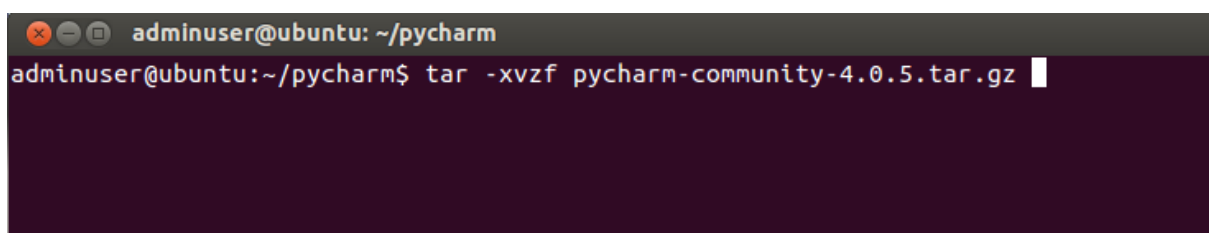
4. Run the script by typing the command from fig. 4:  
**./install\_JDK.sh**

A terminal window with a dark purple background. The title bar shows 'adminuser@ubuntu: ~/pycharm'. The prompt is 'adminuser@ubuntu:~/pycharm\$'. The command './install\_JDK.sh' has been entered, and a white cursor is at the end of the line.

```
adminuser@ubuntu: ~/pycharm
adminuser@ubuntu:~/pycharm$ ./install_JDK.sh
```

Figure 4. Run the script install\_JDK.sh

5. Then unzip the file **pycharm-community-4.0.5.tar.gz** by typing the command (fig. 5):  
**tar -xvzf pycharm-community-4.0.5.tar.gz**

A terminal window with a dark purple background. The title bar shows 'adminuser@ubuntu: ~/pycharm'. The prompt is 'adminuser@ubuntu:~/pycharm\$'. The command 'tar -xvzf pycharm-community-4.0.5.tar.gz' has been entered, and a white cursor is at the end of the line.

```
adminuser@ubuntu: ~/pycharm
adminuser@ubuntu:~/pycharm$ tar -xvzf pycharm-community-4.0.5.tar.gz
```

Figure 5. Unzip the file.

6. In Linux, PyCharm doesn't create shortcuts on your desktop, since there's actually no installer. In order to create the shortcuts, drag and drop **jetbrains-pycharm-ce.desktop** from directory **/home/adminuser/pycharm/** file (fig.6) to the launcher and window menu bar on your machine. Then the Pycharm icon is added here (fig.6).



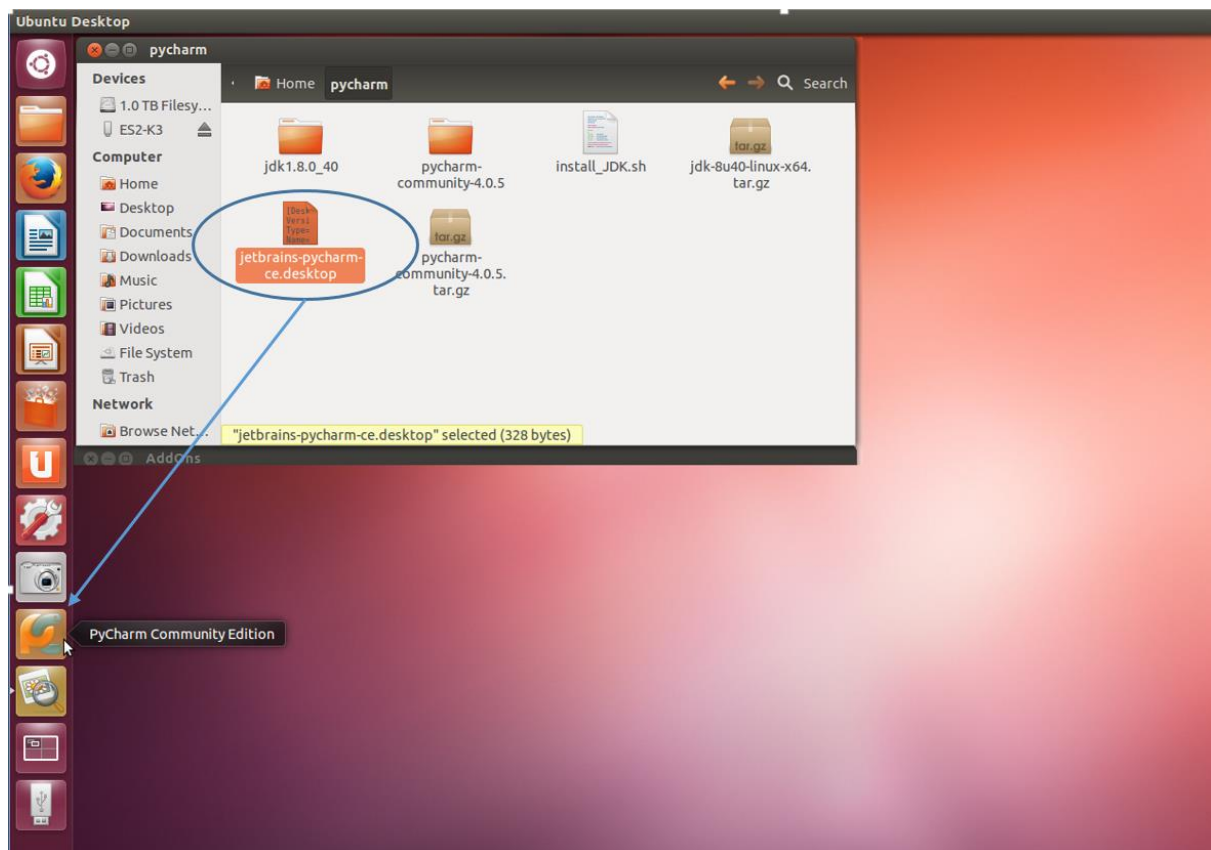


Figure 6. Drag and Drop the jetbrains-pycharm-ce.desktop file to the launcher and window menu bar on your machine.