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# Pilot 2.0 Project Guidelines

# Introduction

This document outlines the guidelines for the Pilot 2.0 project, to be followed by all contributors.

# Guidelines

## How will the coordination and cooperation be achieved?

- Have frequent meetings (preferably face-to-face, otherwise video conference) both in smaller groups and larger Pilot Dev meetings
- Use the Pilot Developer e-group mailing list (atlas-ads-pilot) for (internal) technical discussions. Caution: to avoid mail overflow, try to be concise but do not cut away previous replies in the thread.
- Use activity and milestone plans and reports

## How to write documentation?

- Keep documentation on a professional level, i.e. use formal, well written English
- Use UML when appropriate (major algorithms, workflows, models, class diagrams)

## Which versioning scheme should we use?

- 2.major revision.minor revision (optional label)
- E.g. 2.0.0 [initial release], 2.1.1beta

## What to work on?

- Consult the Milestone Plan to be located within the project wiki
- Subprojects should be coordinated so ask before starting something new

## Which coding convention to follow? (As implemented in the testing framework)

- PEP8: <https://www.python.org/dev/peps/pep-0008/>
- In addition to PEP8, we enforce a complexity not higher than 10 for any function, and we restrict broad exceptions, lambda assignments, broad importing and other ambiguous coding practices

## Which naming convention to follow?

- Follow the naming convention of PEP8 (see above)
- Keep it in line with Rucio conventions for simplicity (there are two Rucio developers in the Pilot team as of August 2016)
- Lower spinal case (snake case with underscore(s)) for function/method/variable names, e.g. `my_method()`, `variable_name = ..`
- Try to stick to single word in module names (short lower case only use underscore if absolutely necessary), e.g. `module.py`, `rucio_sitemover.py`

## How to do indentation?

- Preferably use 4 explicit spaces per indentation level
- Tip: use python option `tt` to disallow mixed cases

## Maximum line length?

- Stick to 120 characters

## How to add new code?

- As of August 2016, use private forks until final Pilot 2 repository is in place - at that point:
- Create pull request into dev branch, triggering test suite, manager approves, new dev pilot will run rc test jobs

## The Pilot 2.0 repository will be public but any external contributions must be properly motivated and clearly explained

- An external pull request with the motivation this might be useful (and similar) is not acceptable and will be rejected/ignored unless it is further explained

## Avoid condensed perl like python programming

- Yes, you have proven that you are smart but it makes it difficult for other people that might need to update your code at a later time unless there is a proper explanation of the code
- Code will not be accepted if it trades clarity for space

## Any significant Pilot 1.0 request that arrives during the Pilot 2.0 project should be added to the todo/wishlist wiki page until it has been implemented in Pilot 2.0 (if required)

- <https://twiki.cern.ch/twiki/bin/view/PanDA/Pilot2WishList>

-- PaulNilsson - 2016-08-29

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This topic: PanDA > Pilot2Guidelines

Topic revision: r3 - 2016-10-10 - PaulNilsson



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