

Data Findability and Accessibility: tentative Use Cases

Gammapy Coding Sprint, 6 dec 2022

Bruno Khelifi

December 7, 2022

Contents

1	Context	1
2	Use Cases for an observatory, like CTAO	1
3	Use Cases for a user making the analysis	2

1 Context

These use cases were derived from the discussion on ObsCore. They explain how data are found and how data are accessed. Some are linked to CTAO and for them they are only suggestions.

This minute is a draft and any comment is welcome.

2 Use Cases for an observatory, like CTAO

1. Use of the Science Portal
 - Using the `obs_table`, rendre possible data selections (requirements to define)
2. Use of a TAP server
 - create an `obscore_table` for the server
 - tools to be written within Gammapy

3. Provide a web interface to the TAP server
 - At term, the UC 3 and 1 could be merged

3 Use Cases for a user making the analysis

1. from the science portal (default Use Case, because of proprietary data of PIs)
 - Selection of the data using a web form (requirements of the criteria to define)
 - Download the data on your computer (via links or a tar or etc)
 - If the observatory bandwidth is enough, users can read on-the-fly the data via network

PS: Gammapy needs an `hdutable`, but can re-build a local `hdutable` and `obstable`

1. from an observatory TAP server
 - Selection of the data using a VO tool (following the ObsCore format)
 - Download the data on your computer
 - If the observatory bandwidth is enough, users can read on-the-fly the data via network

PS: this use case can be realized either from a PC or from a remote interactive platform

1. (2 bis) from an observatory TAP server
 - Query the TAP server with tools embedded to Gammapy or the SAT
 - Download the data on your computer
 - If the observatory bandwidth is enough, users can read on-the-fly the data via network