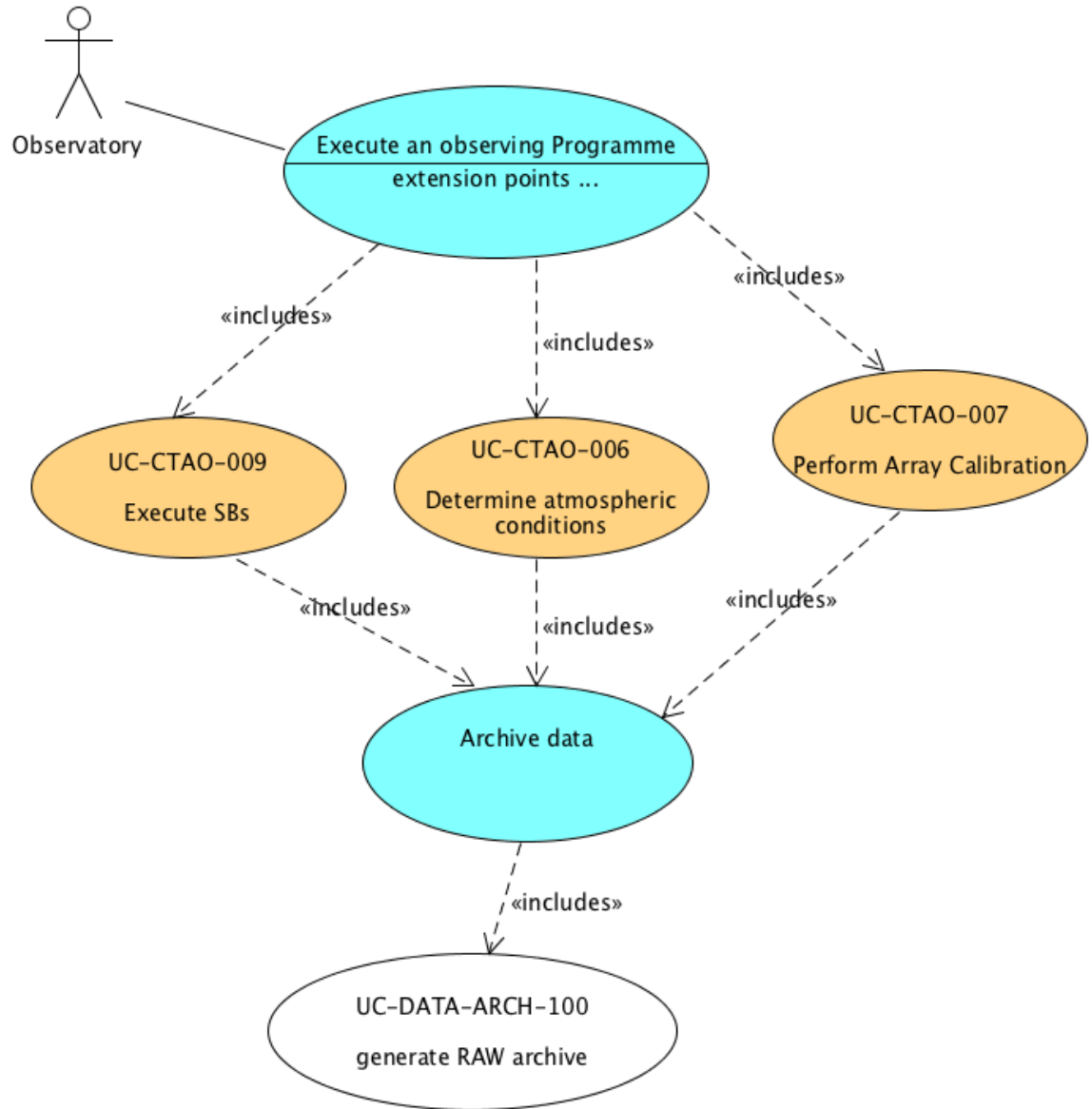


Top Level Archive UCs

Lucarelli, Carosi

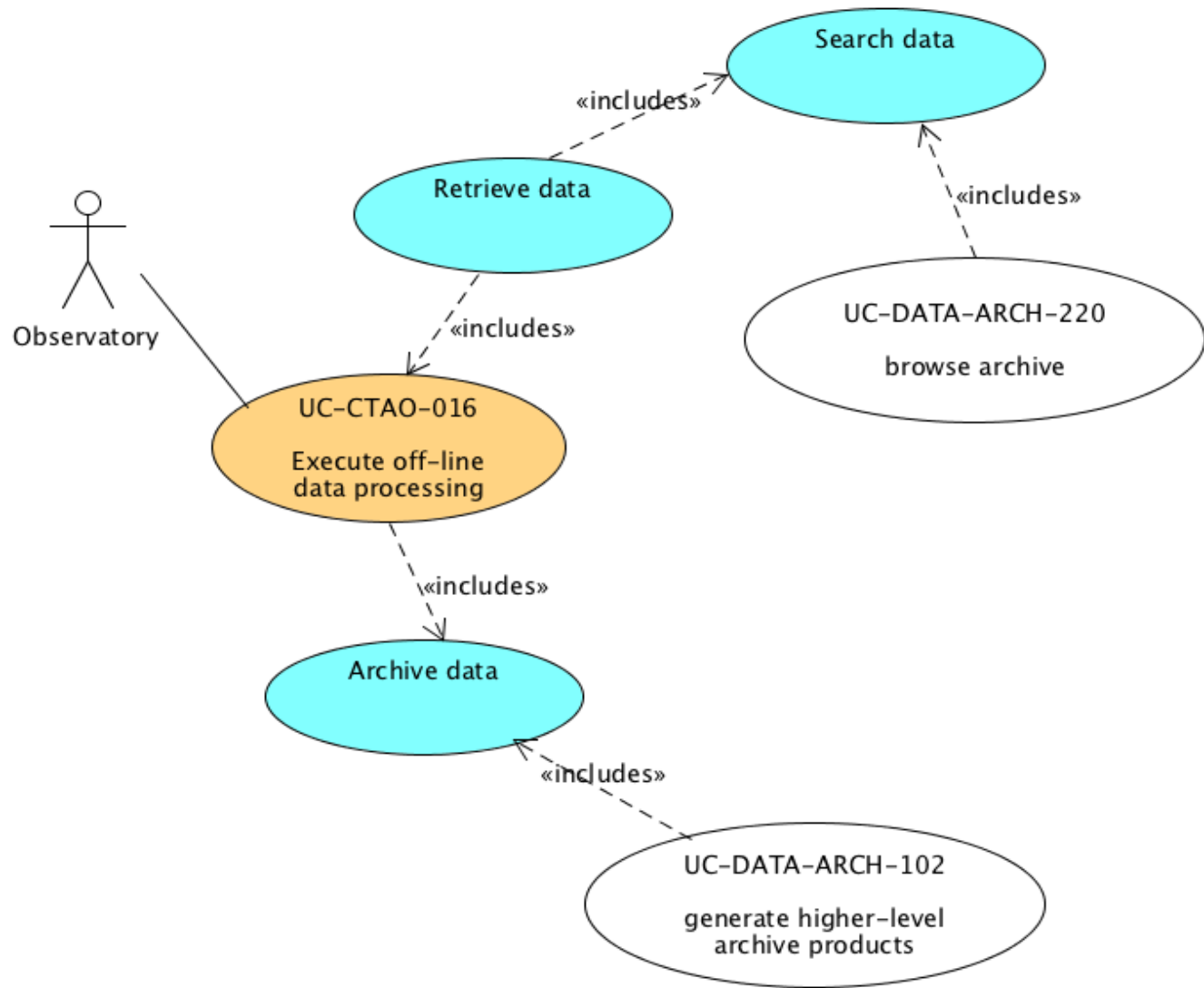
UC-CTAO-023: Archive data



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| ID | UC-CTAO-023 |
| Title | Archive Data |
| Scope | This Use Case is common to several Top Level UCs. The Observatory archives data (and metadata) at each step of the Observatory workflow. (data generated during an observing Program and from Monte Carlo simulations). |
| Level | Top Level |
| Actors | Observatory, Observer, CTA Telescopes, CTA Auxiliary Items, CTA Software |
| Affected system | CTA Telescopes, CTA Software, CTA Auxiliary Items |
| Preconditions | The Observatory is performing an observation with CTA. CTA Software prepare a <i>Programme</i> (UC-CTAO-005). CTA Telescopes and Auxiliary Items are (<i>have acquired?</i>) acquiring data (UC-CTAO-009, UC-CTAO-011). CTA Software is executing on-line and off-line data processing (UC-CTAO-015 and UC-CTAO-016). CTA Software is executing off-line Monte Carlo simulations (UC-???) |
| Postconditions | Data generated during the observing <i>Programme</i> are successfully archived. ... |

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| <p>Main success scenario</p> | <ol style="list-style-type: none"> 1. The Observatory archives all the observation proposals submitted to the TAC. <i>Alternative: 1.a</i> 2. The Observatory archives all the information needed to execute the approved observing Programme (target info, type and duration of the scheduling blocks, breakpoints, ...) approved by CTAC. 3. The Observatory archives RAW data (scientific, calibration and technical) generated during the execution of the observing Programme. <i>Alternative: 3.a</i> |
| | <ol style="list-style-type: none"> 4. The Observatory archives data, data products (scientific results), data quality and monitoring information produced during the online data processing and analysis. 5. The Observatory archives (reduced) data, data products, data quality and monitoring information produced during the off-line data processing and analysis. 6. The Observatory archives data and data products needed for data processing and analysis generated from Monte Carlo simulations. 7. The Observatory verify the successful data archiving, it guarantees the Archive Integrity and long-term preservation of CTA data. 8. ... |
| <p>Alternative path</p> | <p>1.a The Observatory archives only the proposal approved by the TAC.</p> <p>3.a Use calibration and technical data taken previously and already archived.</p> |

UC-CTAO-024/025: Search and Retrieve data



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| ID | UC-CTAO-024 |
| Title | Search (Browse??) Data |
| Scope | This Use Case outlines the basic process of browsing CTA archived data (Archive). It is common to other Top Level Use Cases. |
| Level | Top Level |

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|------------------------------|---|
| Actors | Observer (Guest Observer, CTA Consortium Observer), Observatory, Archive User |
| Affected system | CTA Software |
| Preconditions | The Observatory will provide the necessary metadata and queries to explore the whole Archive content. |
| Postconditions | ... |
| Main success scenario | <ol style="list-style-type: none"> 1. The Observatory can browse <u>all CTA data</u> and data products generated during Programme execution. 2. During Programme execution, the Observer of the associated Proposal can access only high-level results, for science monitoring and for display. 3. After the proprietary period, the Archive User can browse non-proprietary data and data products available from the public CTA Archive. 4. ... |