

# Provenance data model

Working status

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# Contexte



- CTA
  - Projet de grand réseau de télescopes Cherenkov
  - Observatoire ouvert pour ses données de haut niveau
- Groupe « metadata » encadré par C. Boisson

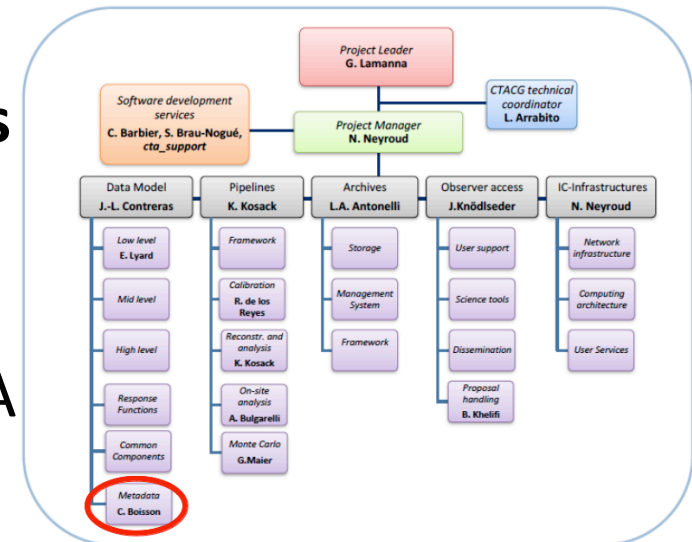
Données des hautes énergies

=> Besoin de **définir des standards**

=> Besoin d'identifier

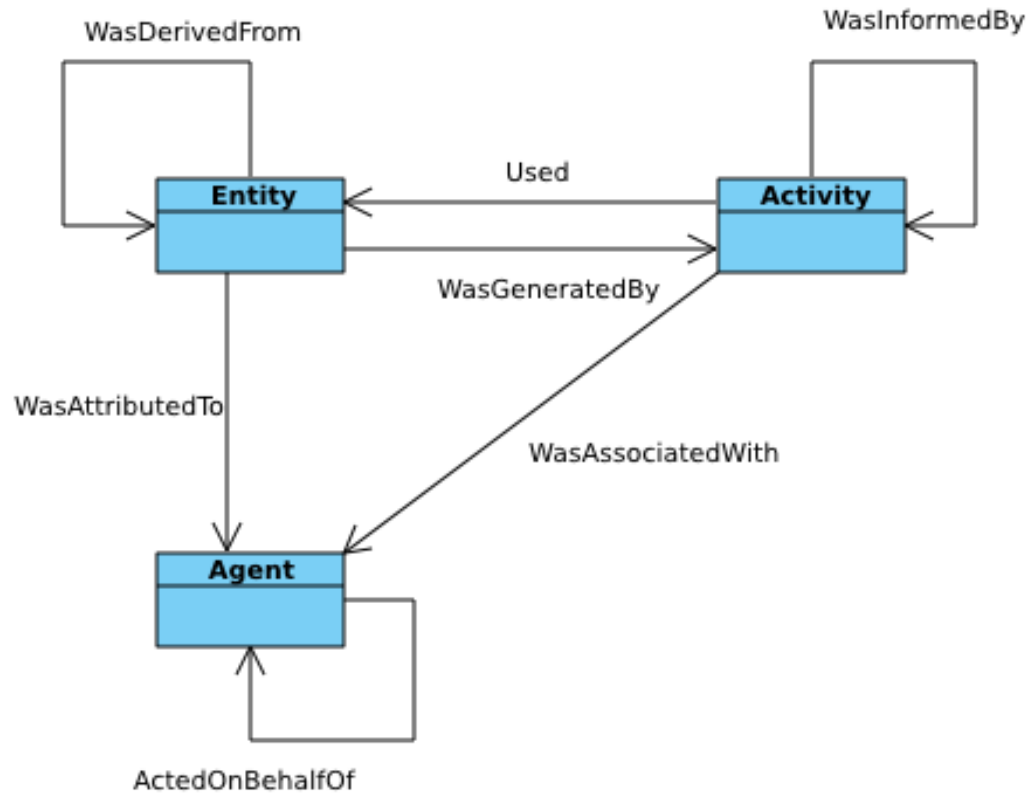
la **provenance** des données

=> Groupe de travail membres CTA  
et experts OV



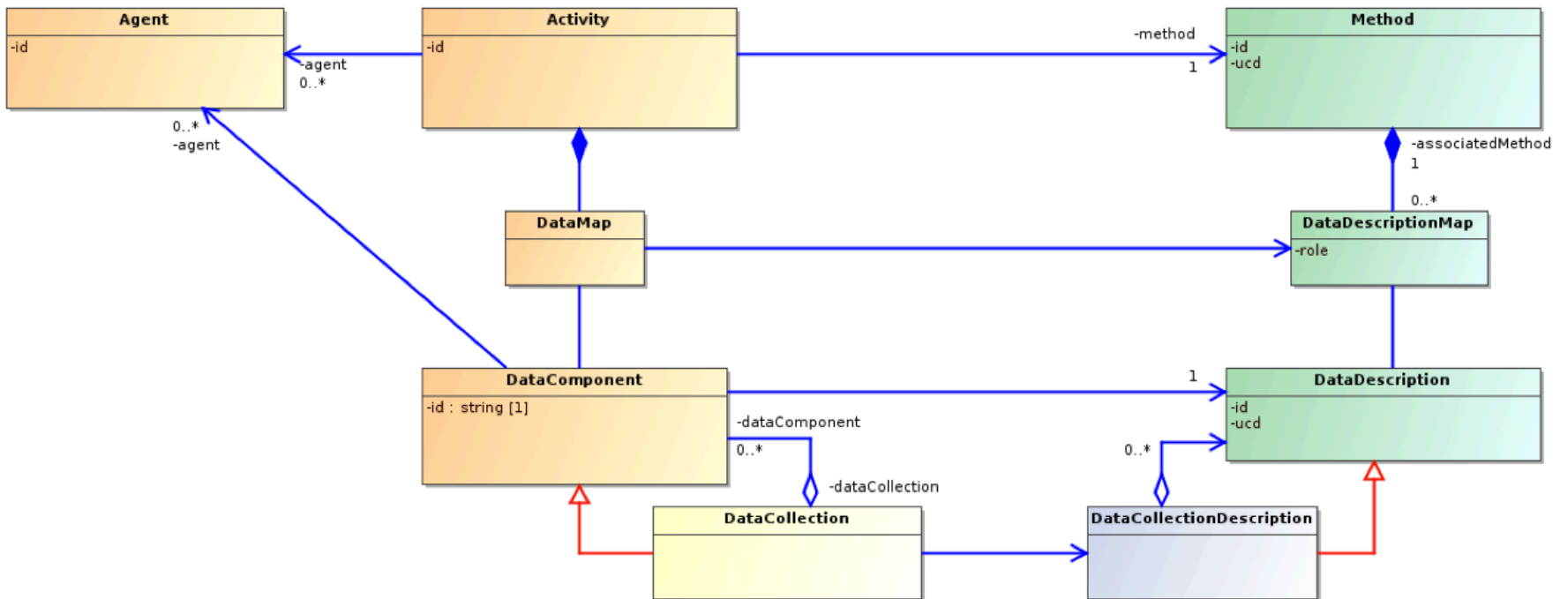
# W3C PROV-DM

W3C Recommendation 30 April 2013



# VO Prov-DM

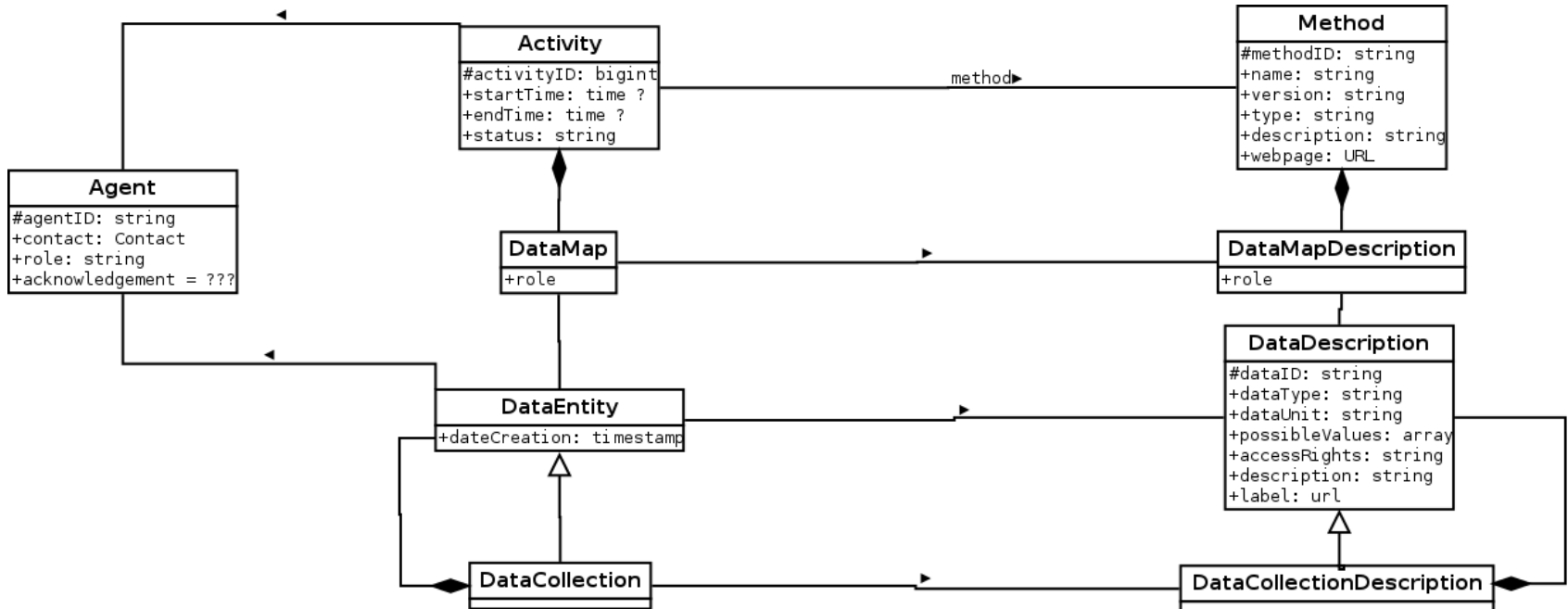
IVOA Working Draft 7 May 2014



# CTA Provenance

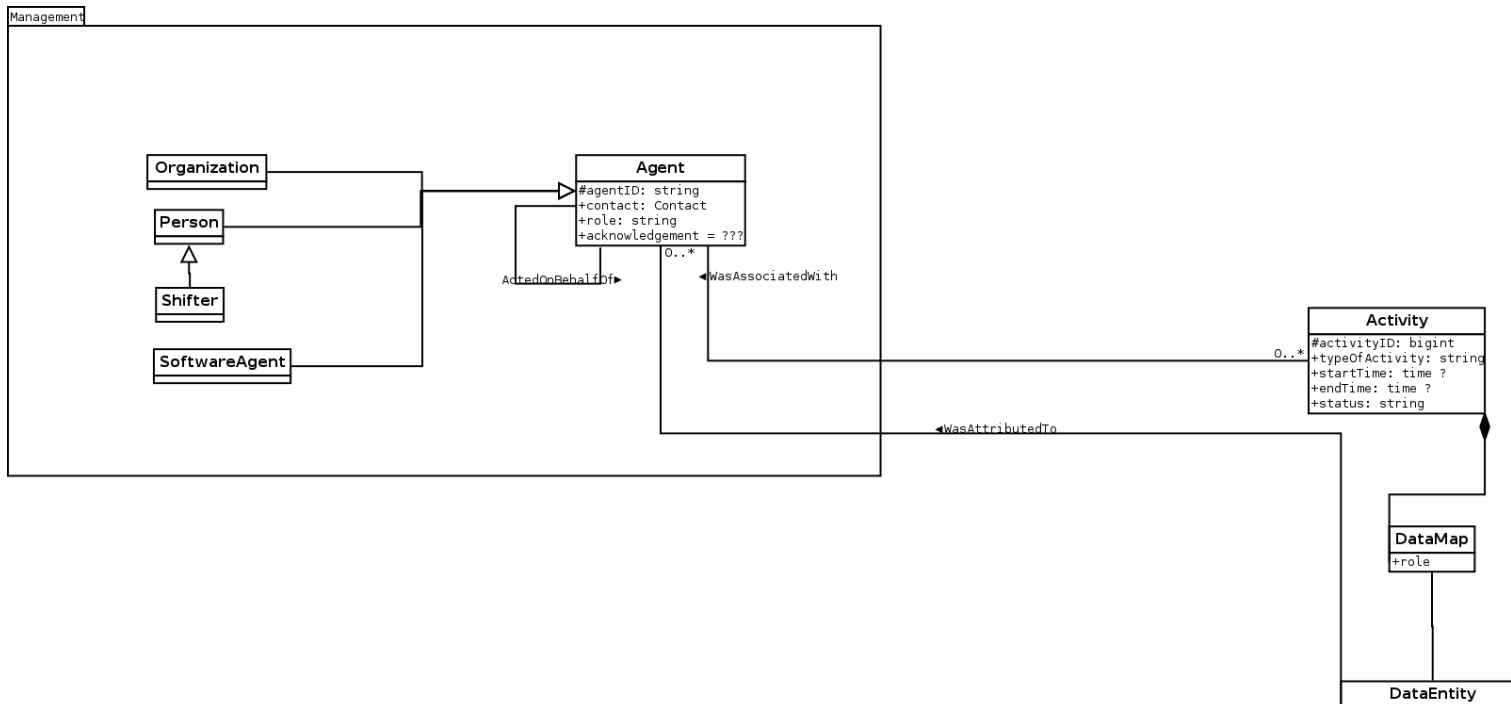


## Core



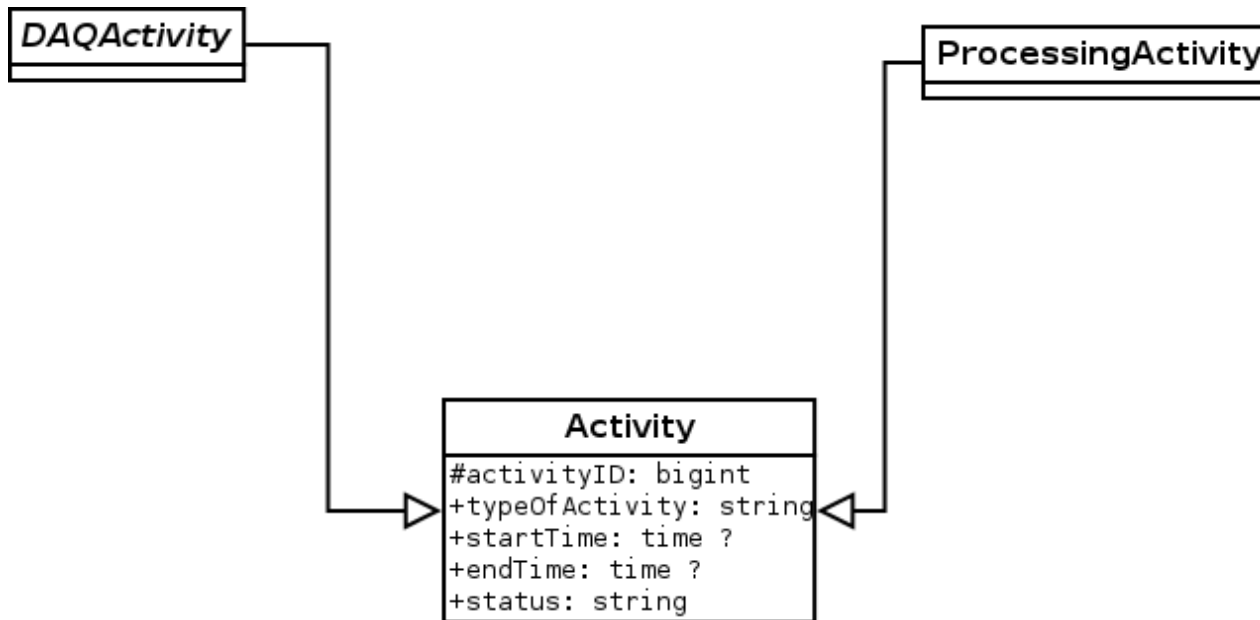
# CTA Provenance

## Agent



# CTA Provenance

## Activity

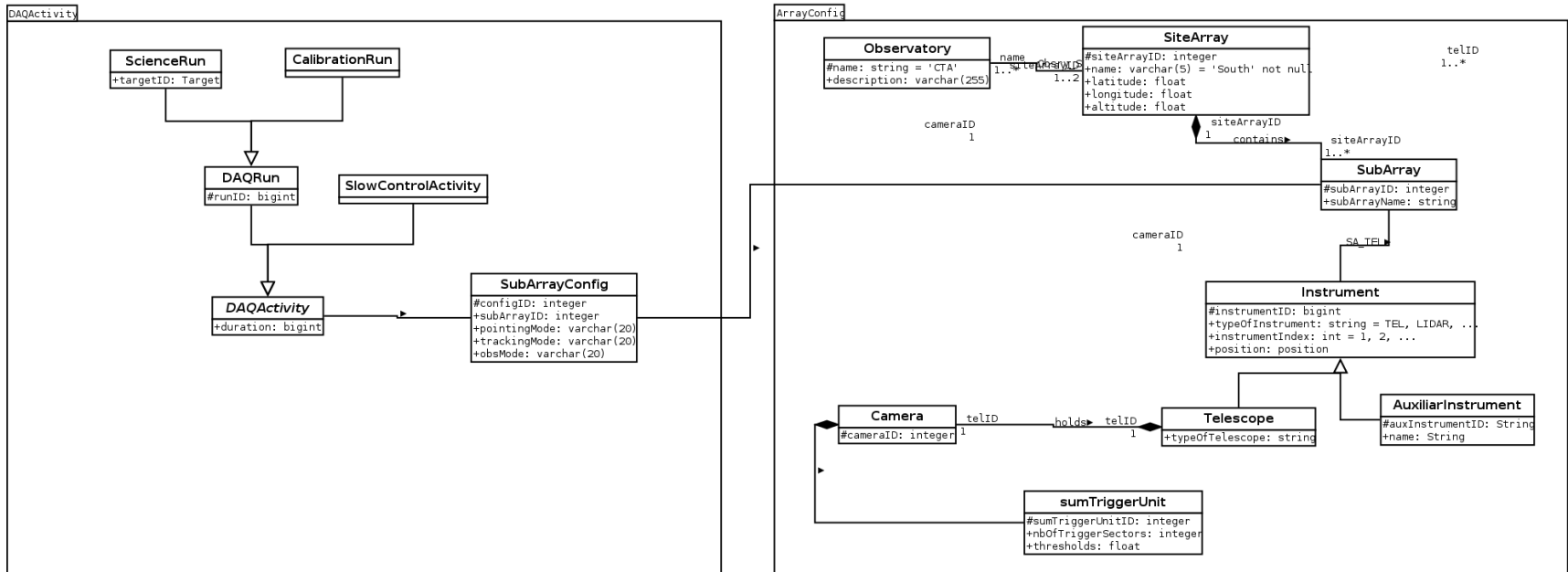


# CTA Provenance

## DAQ Activities



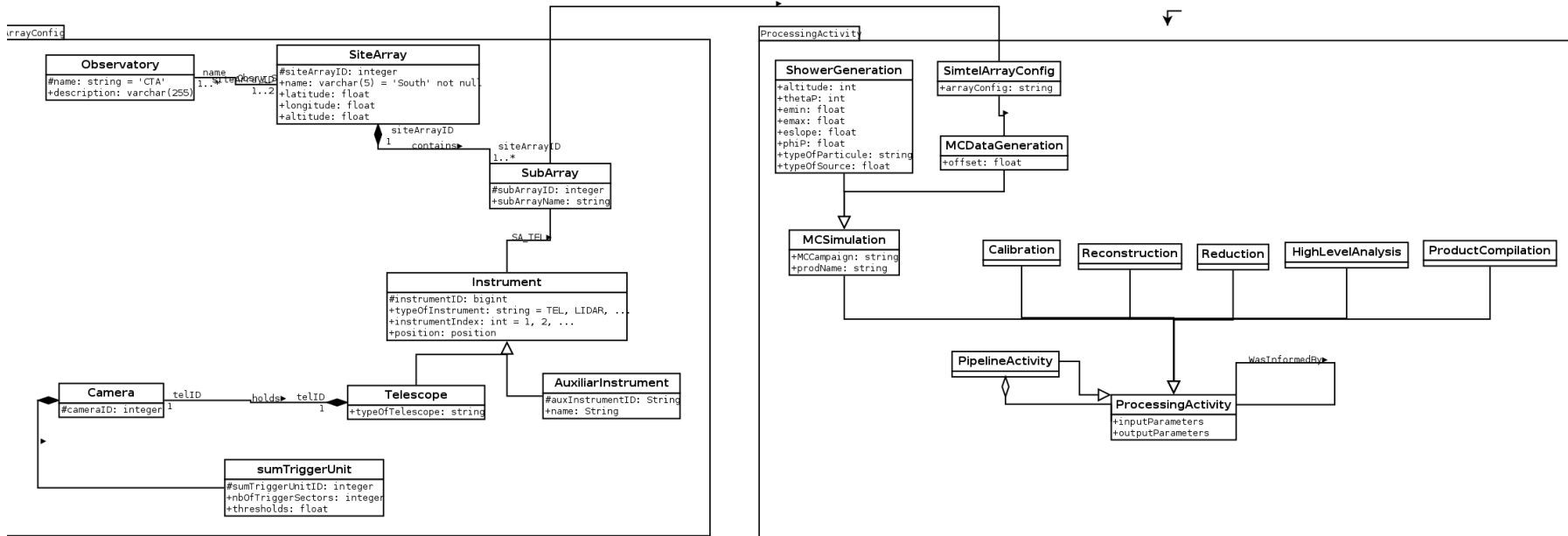
subArrayID  
1..\*





# CTA Provenance

## Processing Activities



# CTA Provenance



File version	string	Provenance	-	from DAQ	yes	yes	Data file format version		
Data_Type	string	Provenance	-	no	yes	yes	-	EVT, CAL, MC, AUX, ENG, + high level (spectrum, catalog ...)	Mpt Jan. 2015
Data_Level	int	Provenance	-	no	yes	yes	-	0, 1,2, 3, 4, 5	Mpt Jan. 2015
Activity_Id	int	Provenance	-	no	yes	yes	Activity or program id	Ids of DAQ, CAL, RECO...	Mpt Jan. 2015
Activity_Agent_Id	int	Provenance	-	no	yes	yes	Agent id	Ids of the agent, responsible person, software module...	Mpt Jan. 2015
Activity_Start	timestamp	Provenance	-	no	yes	yes	Activity start time	-	Mpt Jan. 2015
Activity_Stop	timestamp	Provenance	-	no	yes	yes	Activity stop time	-	Mpt Jan. 2015
Activity_Elapsed	duration	-	seconds	no	yes	yes	Activity duration	-	Mpt Jan. 2015
Activity_Status	string	Provenance	-	no	yes	yes	Activity status, anything gone wrong ?	-	Mpt Jan. 2015
Method_Id	int	Provenance	-	no	yes	yes	method id	type of calibration or science acquisition	Mpt Jan. 2015
File_Check_Sum	string	Provenance	-	no	yes	no	File check sum	e.g. f.verify	Mpt Jan. 2015



**Merci pour votre attention**