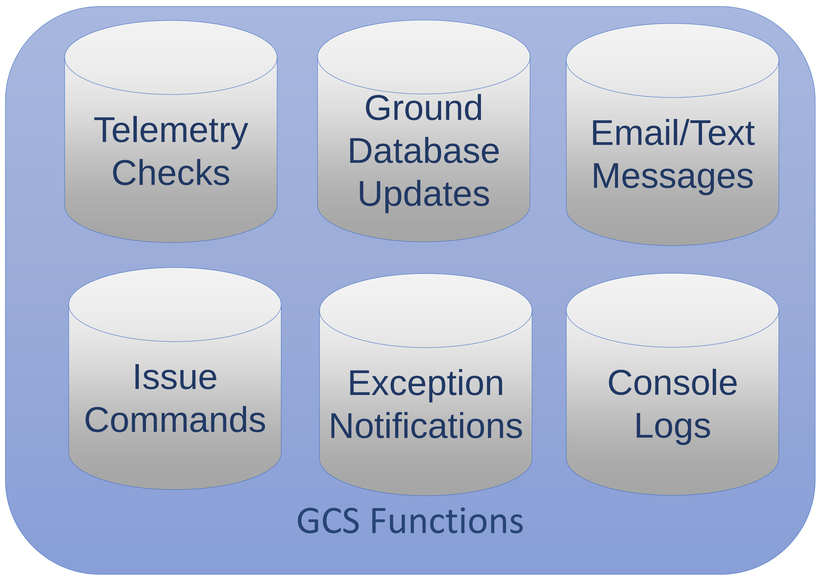
Timeline Assisted Commanding

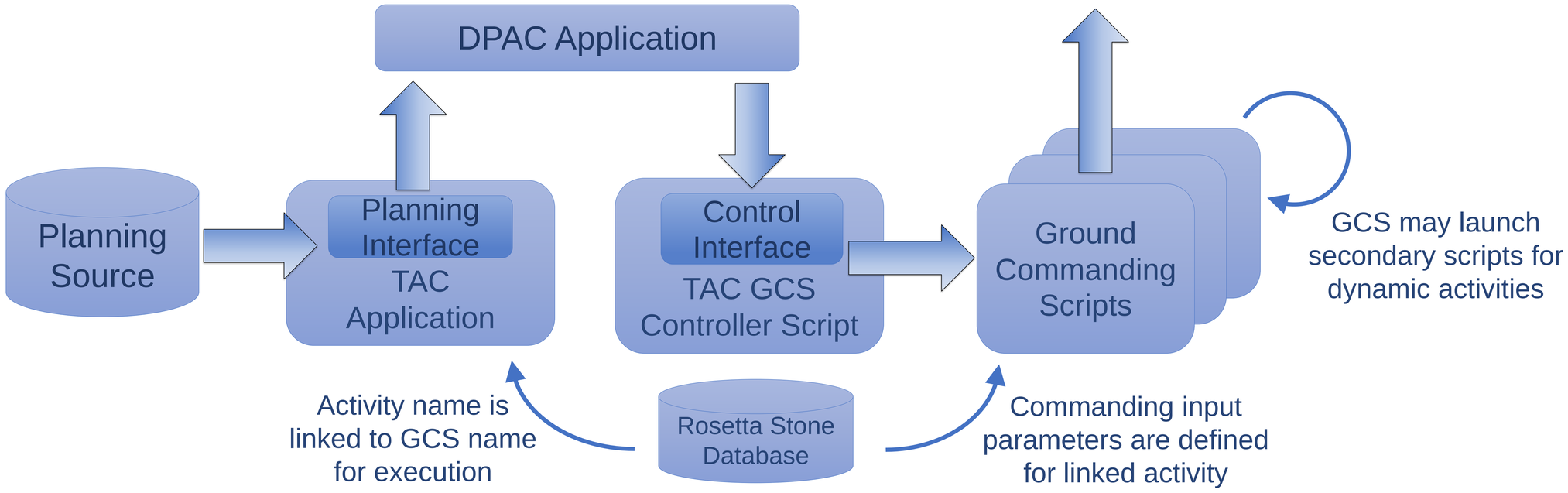
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INTRODUCTION

The Timeline Assisted Commanding (TAC) application automates the execution of Ground Commanding Scripts based (GCS) on a pre-defined schedule of activities.

It leverages the generic Data Planning and Control (DPAC) application for displaying planning events and scheduling their execution. TAC utilizes a database called Rosetta Stone to link scheduled activities with the required input parameters for commanding.





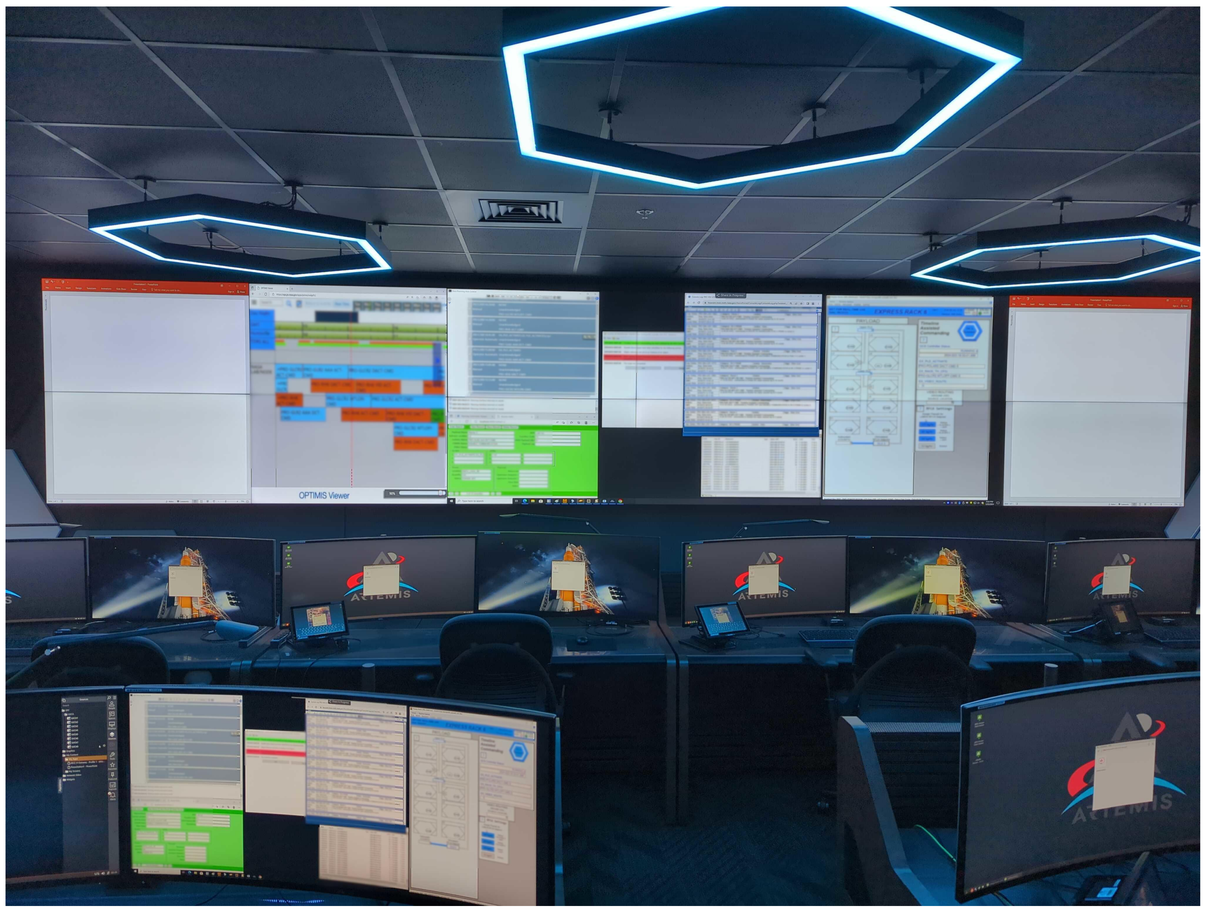
TAC OPERATIONAL MODES

TAC provides the capability to execute GCS using the following mode-mappings:

- **Manual Mode:**
  - The operator manually launches the GCS by selecting the activity in the DPAC interface
- **Semi-Automatic Mode:**
  - Similar to Manual Mode with an added reminder at the designated execution time
- **Operator Automatic Mode:**
  - The operator “acknowledges” approved activities to enable GCS to launch automatically at the designated execution time
- **Planned Automatic Mode:**
  - All activities of a given category launch automatically at the designated execution time

CURRENT & FUTURE USE CASES

For ISS operations, TAC leverages existing GCS to execute activities read from the OPTIMIS Viewer timeline. TAC is also capable of importing activity schedules in pre-built user input files to support generic planning products for future programs.



Timeline Assisted Commanding application demonstration presented in the Lander Engineering Support Area (LESA)