

NASA SBIR/STTR Technologies

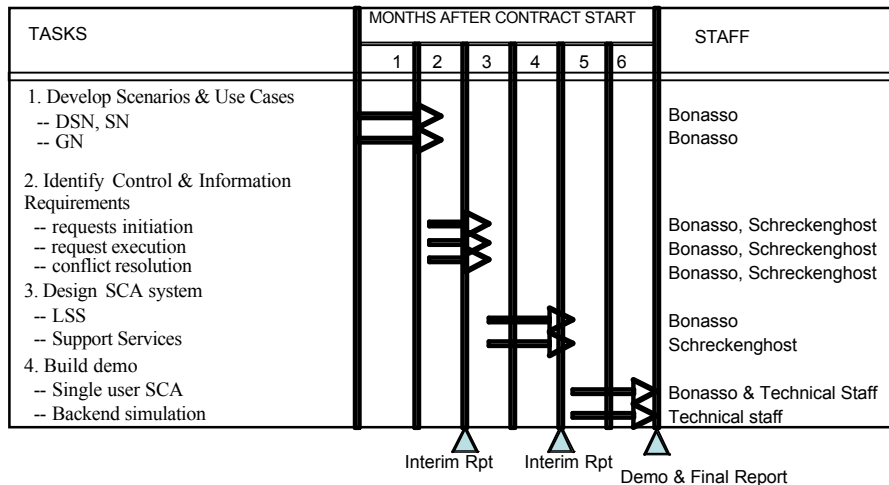
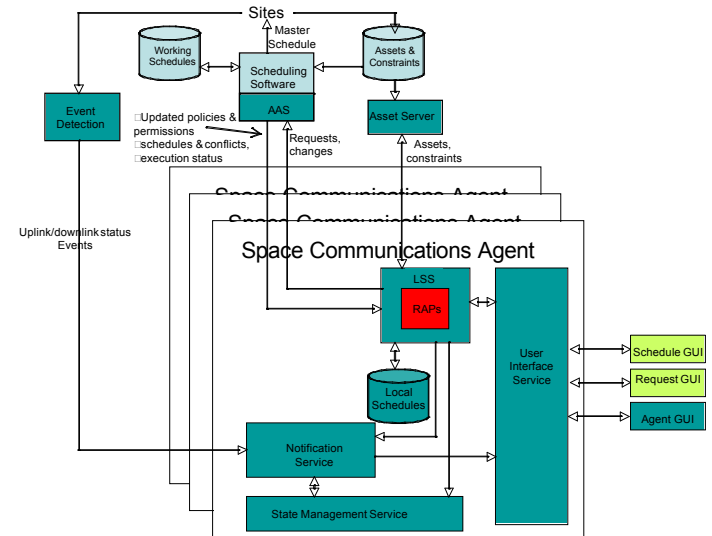
Intelligent Agents for Space Communications

PI: Pete Bonasso, TRAC Labs Inc., Houston Texas
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Identification and Significance of Innovation

The exploration initiative will increase the number of missions supported by the NASA Space Communications infrastructure. The future infrastructure will need a radically new user interface paradigm that must allow space communications missions to both unequivocally specify their requests and integrate them with those of other users in increasingly crowded bandwidths. We propose to design and develop software scheduling agents to interface with existing space communications scheduling engines, that will use models of user preferences for communications requests, conflict resolution and notifications, and will provide the capability for planful interactions for peer-to-peer resolution of schedule conflicts.



NASA and Non-NASA Applications

•NASA

- Space communications
- Telescope scheduling
- Mission operations

•Non-NASA

- Military unmanned surveillance vehicles
- Military command and control
- Airport and factory scheduling

Firm Contacts

PI: Pete Bonasso, bonasso@traclabs.com, 281 461 7884
Official: Jim Anderson, janderson@traclabs.com, 281 461 7886