**All Processes:**

* All processes will communicate over TCP/IP non blocking sockets
* All processes will attempt to fix themselves when they become sick. If they cannot fix themselves, they will exit and be restarted.

**WatchDog:**

Input Messages:

Output Messages:

Functionality:

Notes

**S/C Comms:**

Input Messages:

* OSPRE Status
* Data Request
* Pointing Request
* Solution Message
* Spacecraft Data Message
* Spacecraft Status

Output Messages:

* OSPRE Status
* Data Request
* Pointing Request
* Solution Message
* Spacecraft Data Message
* Spacecraft Status

Functionality:

Notes

**Camera Control:**

Input Messages:

* Spacecraft Status Message

Output Messages:

* Data Request
* Image Message

Functionality:

Notes

**Image Processing:**

Input Messages:

* Image Message

Output Messages:

* Image Adjustment Message
* Processed Image Message

Functionality:

Notes

**GNC:**

Input Messages:

* Processed Image Message
* Spacecraft Data Message

Output Messages:

* Pointing Request
* Solution Message

Functionality:

Notes

**S/C:**

Input Messages:

* OSPRE Status
* Data Request
* Solution Message
* Pointing Request

Output Messages:

* Spacecraft Data Message
* Spacecraft Status

Functionality:

Notes