SuperMOCA Device Modeling

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June 3, 1997

Introduction

- Background
- Approach
- Testbed Demonstration

Background: SuperMOCA Operational Scenario

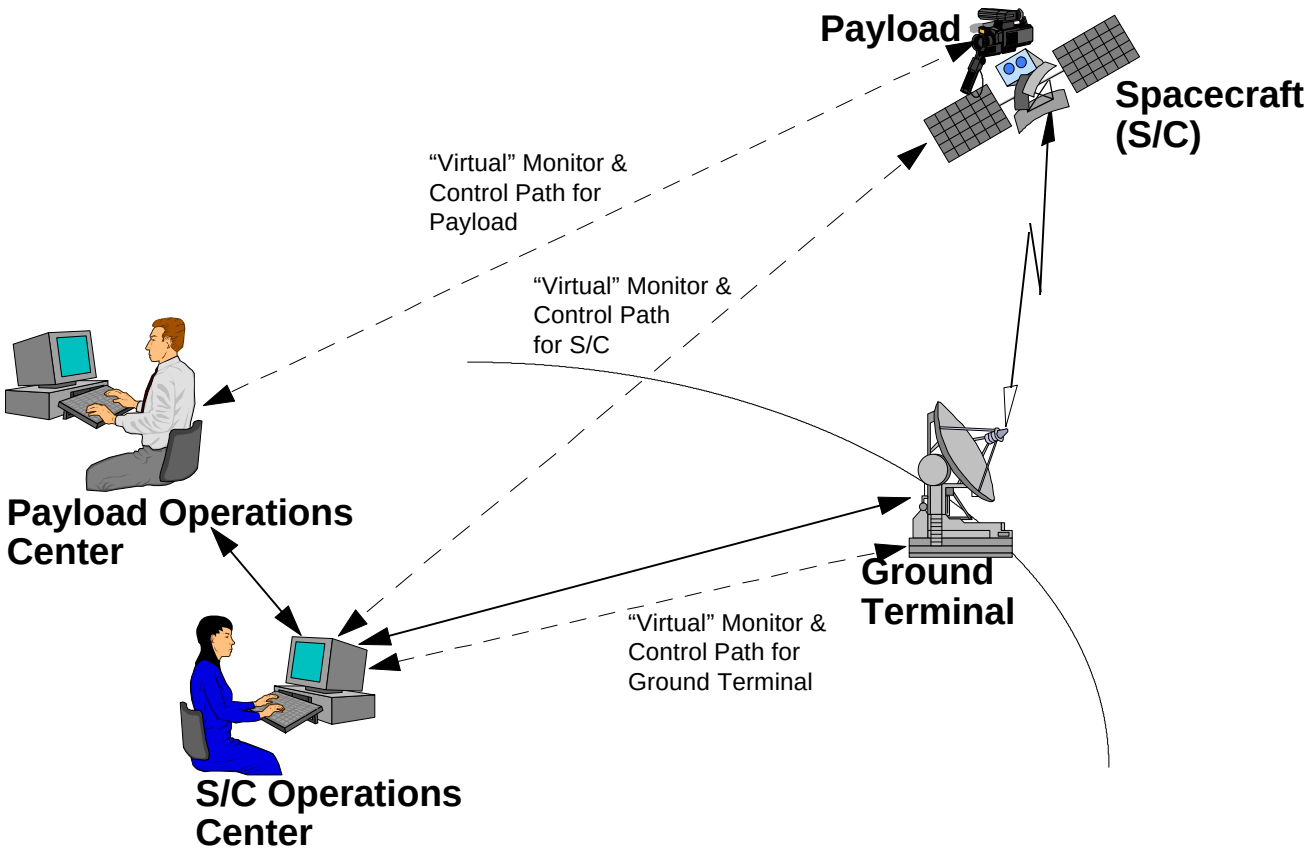
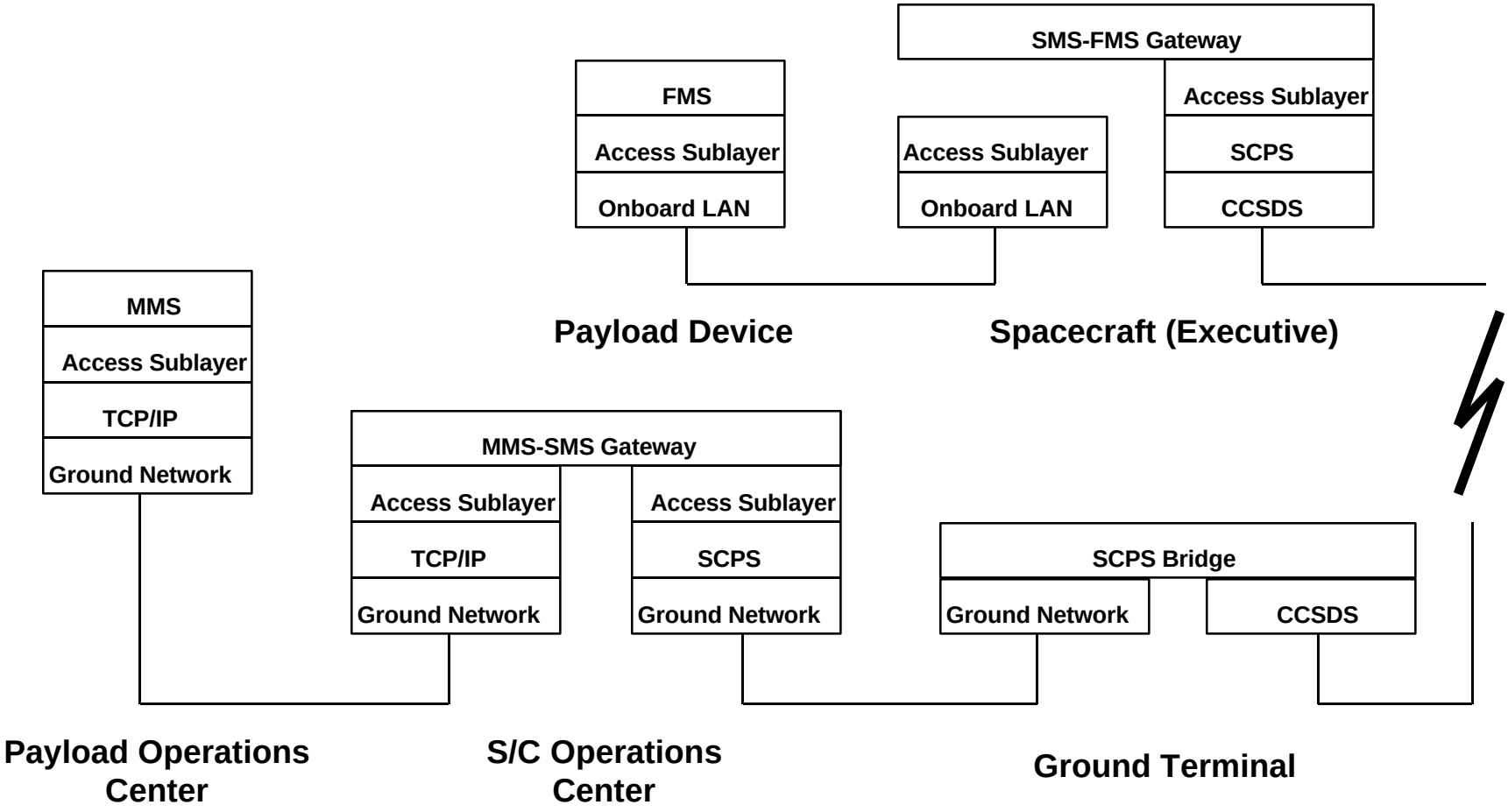
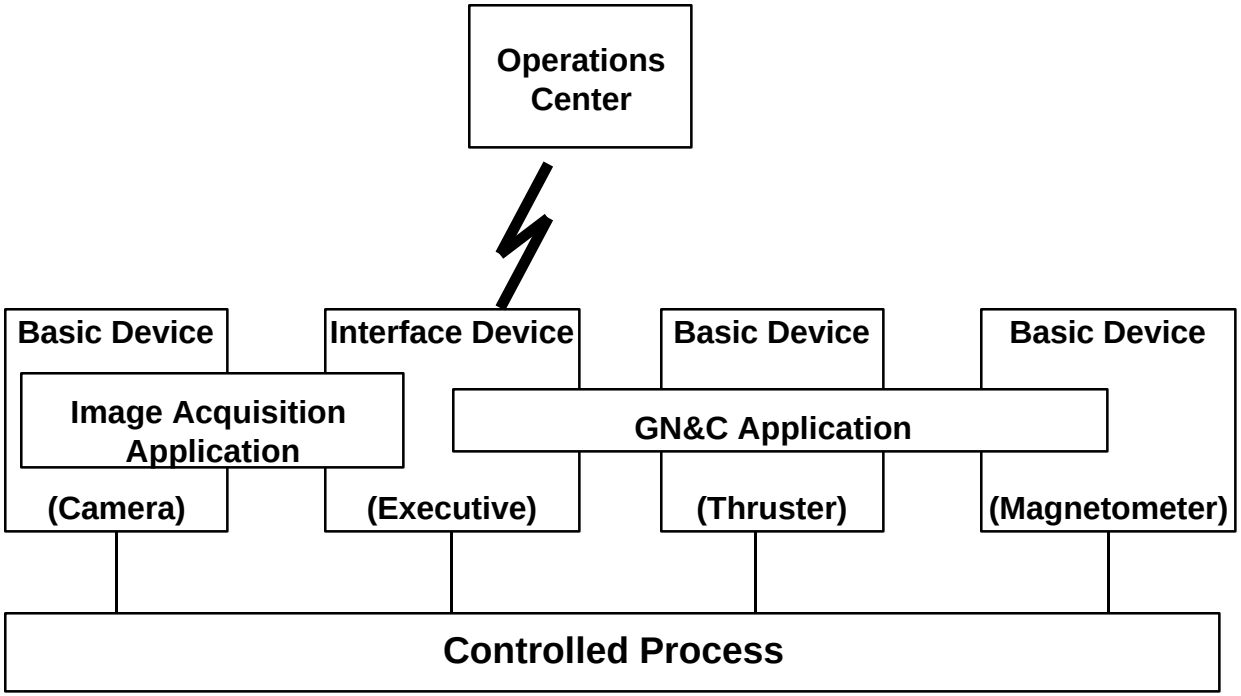


Figure # 7: Space Mission Monitor and Control

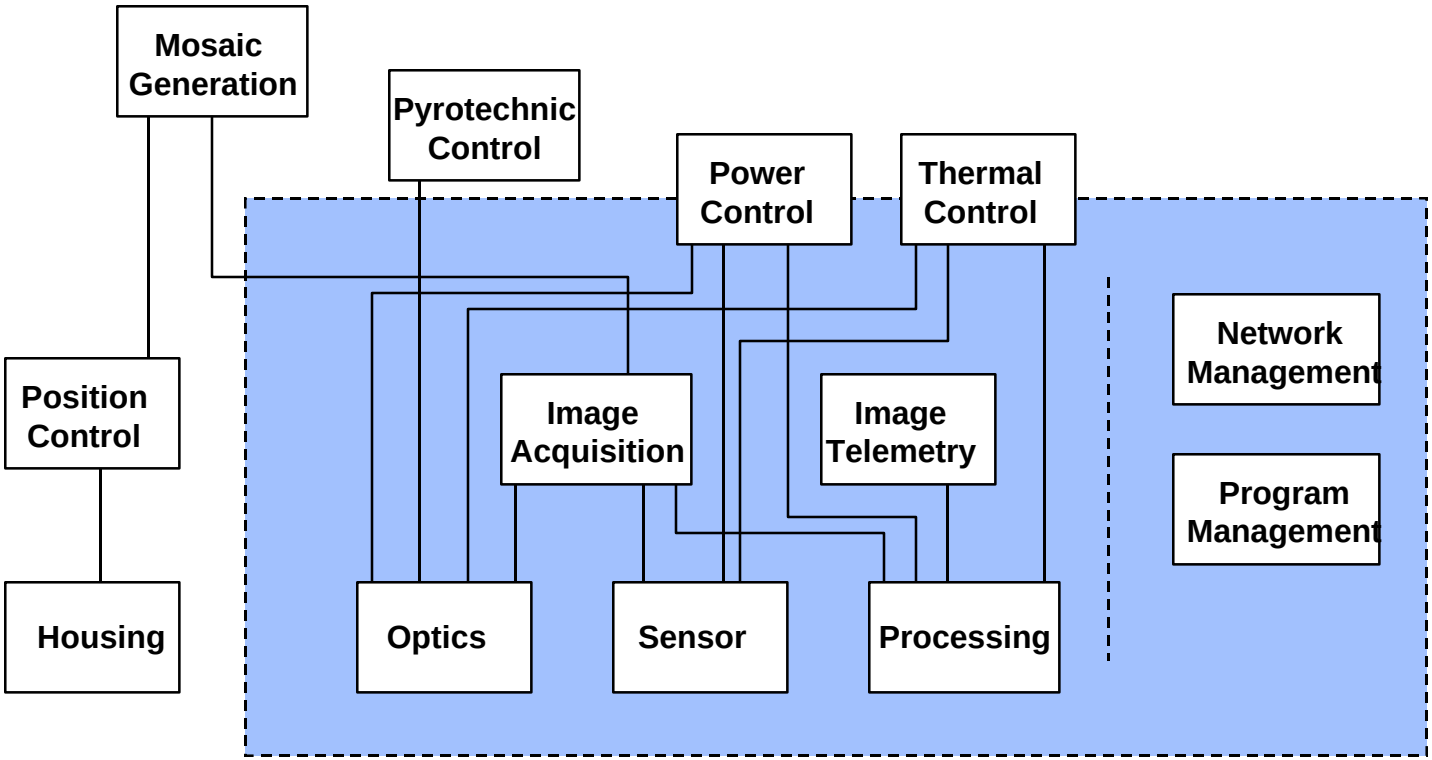
SuperMOCA Communications Profile



Virtual Devices and Control Applications



Imaging Camera Subsystem and Resources



Cassini Orbiter Imaging Science Instrument

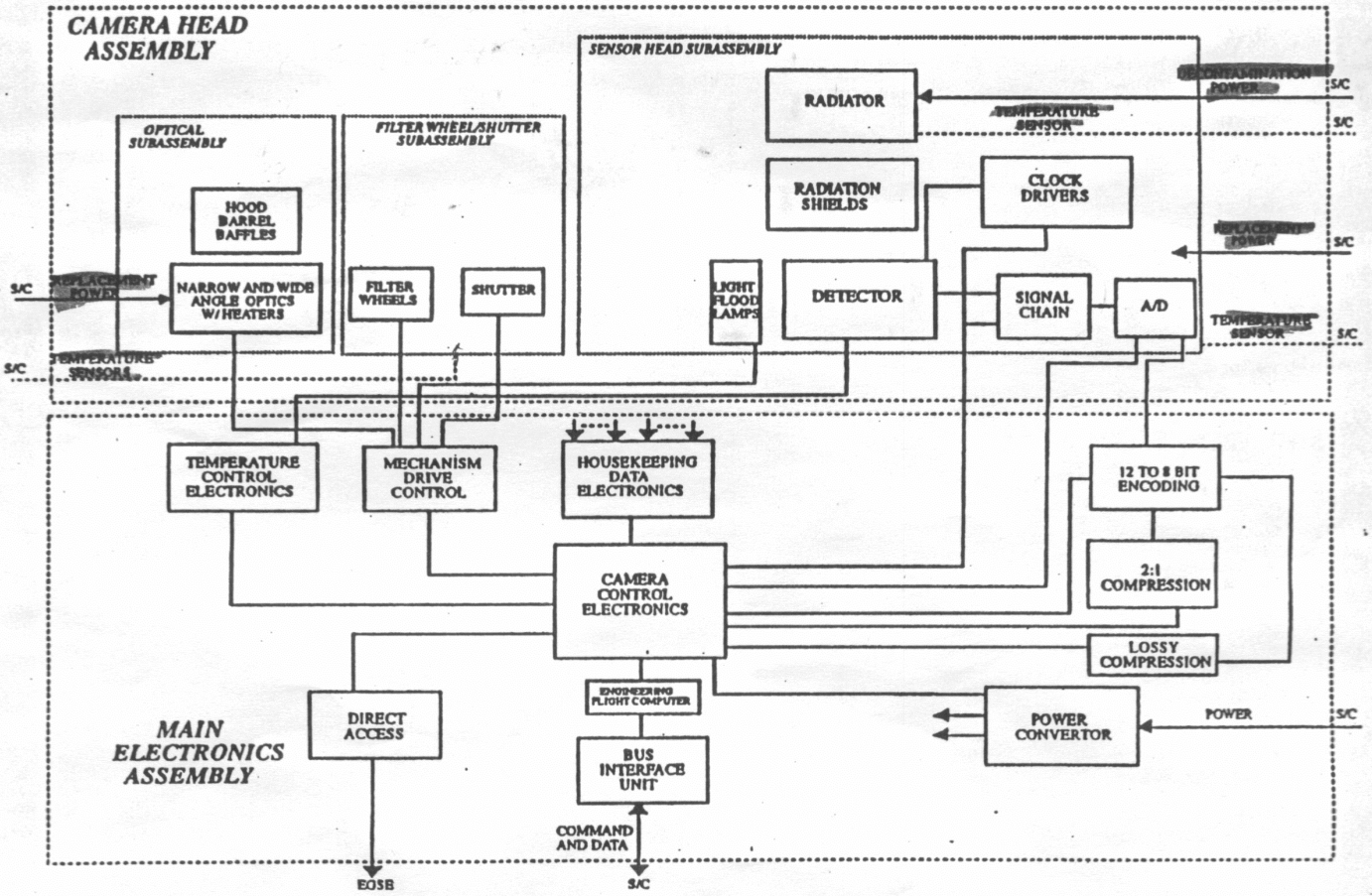


FIGURE 4-2036:-04 ISS Functional Block Diagram (August 13, 1993)

Galileo Solid State Imaging Instrument

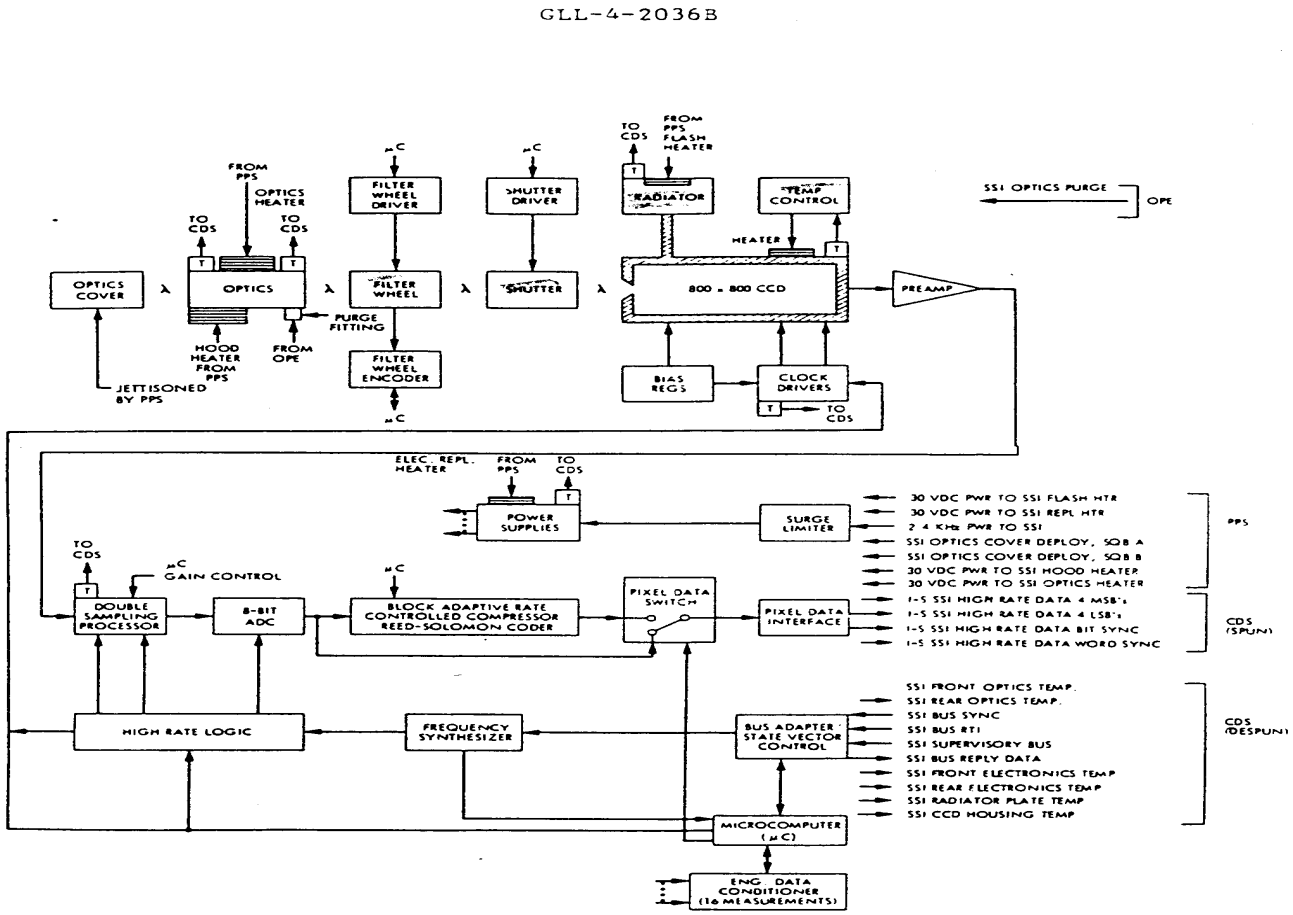
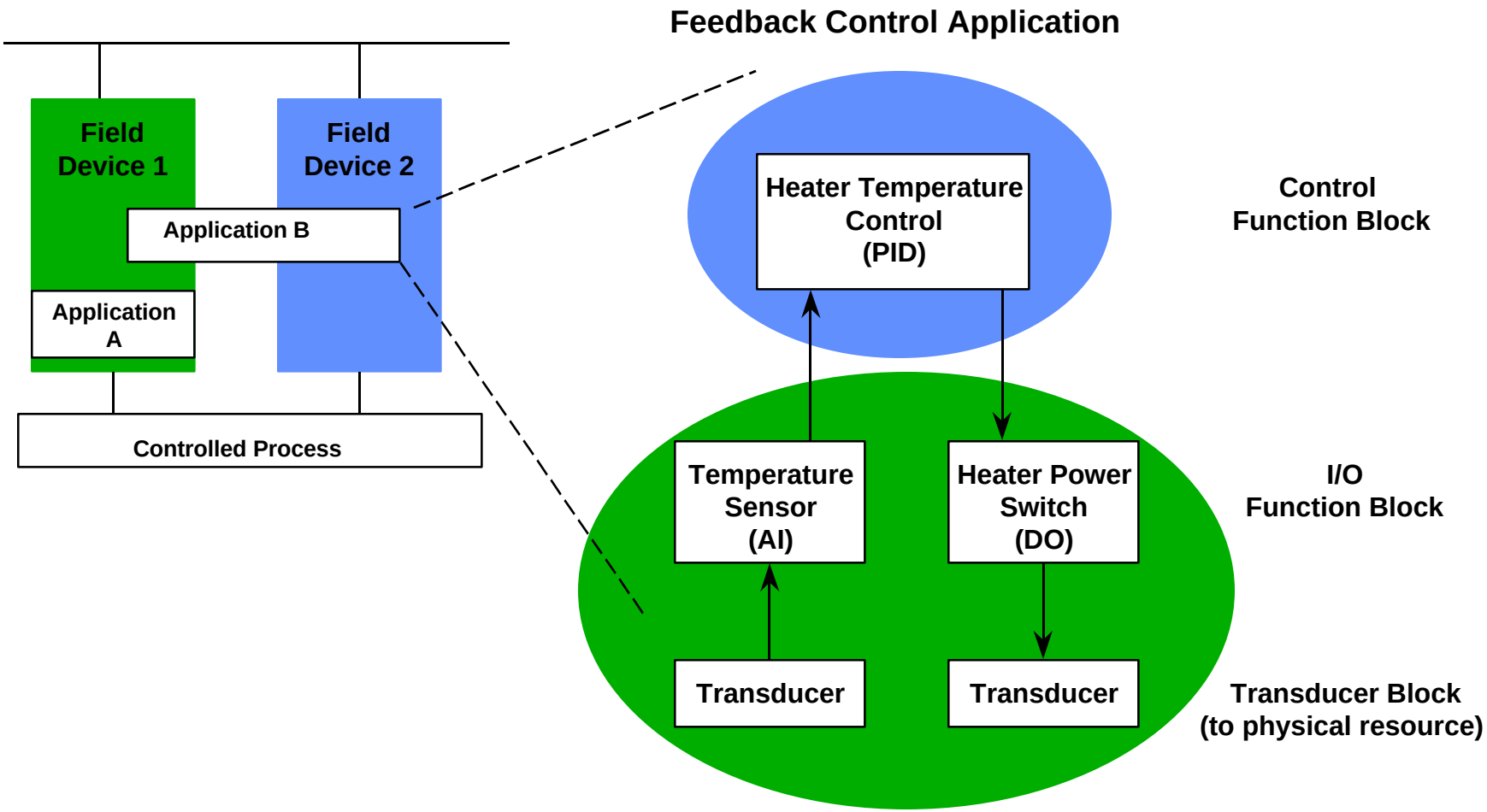
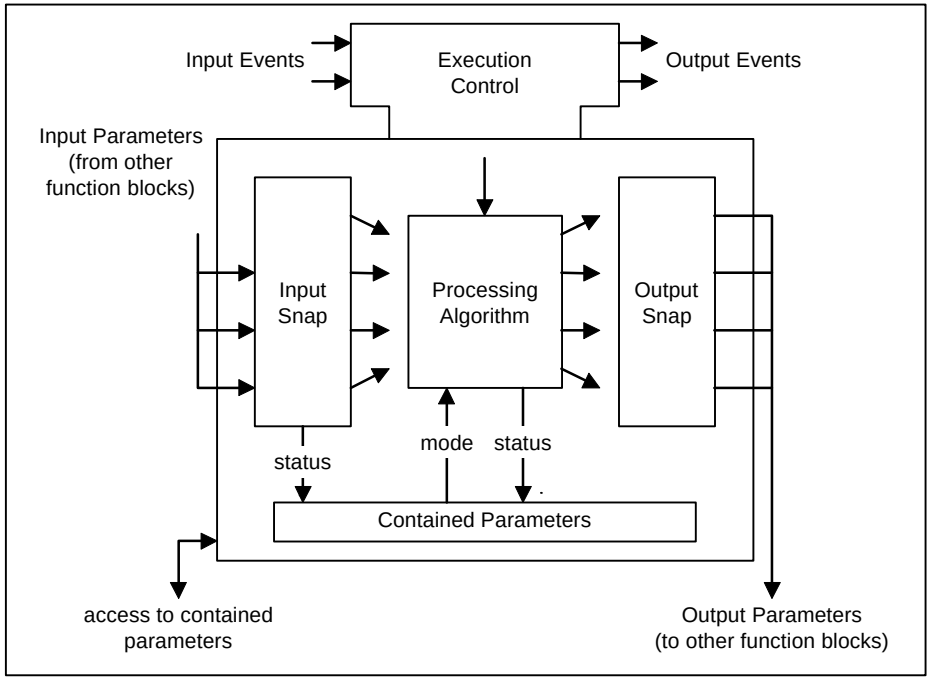


Figure 1. SSI Functional Block Diagram

Approach:
Function Block Control Applications

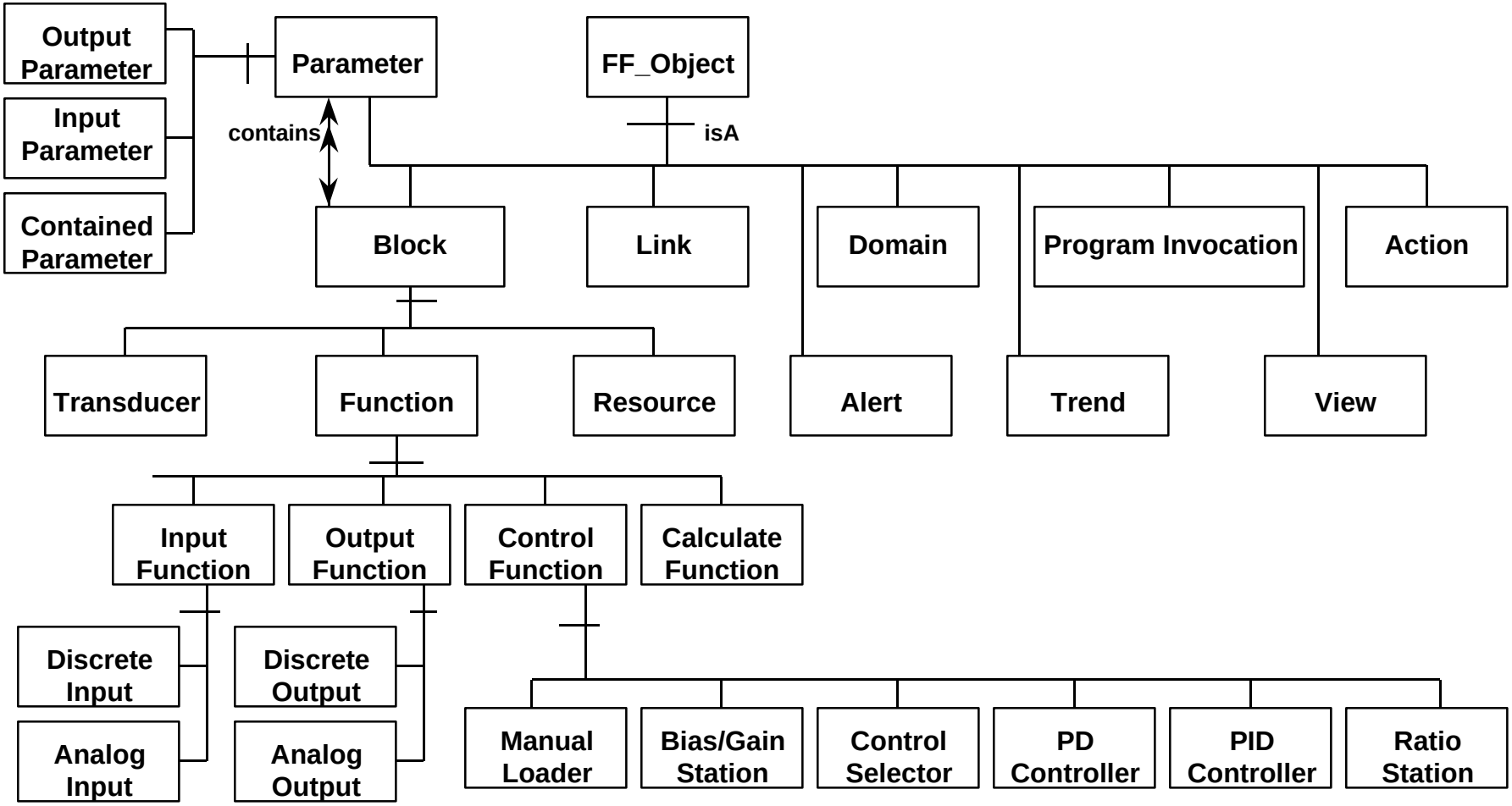


Function Block Model*

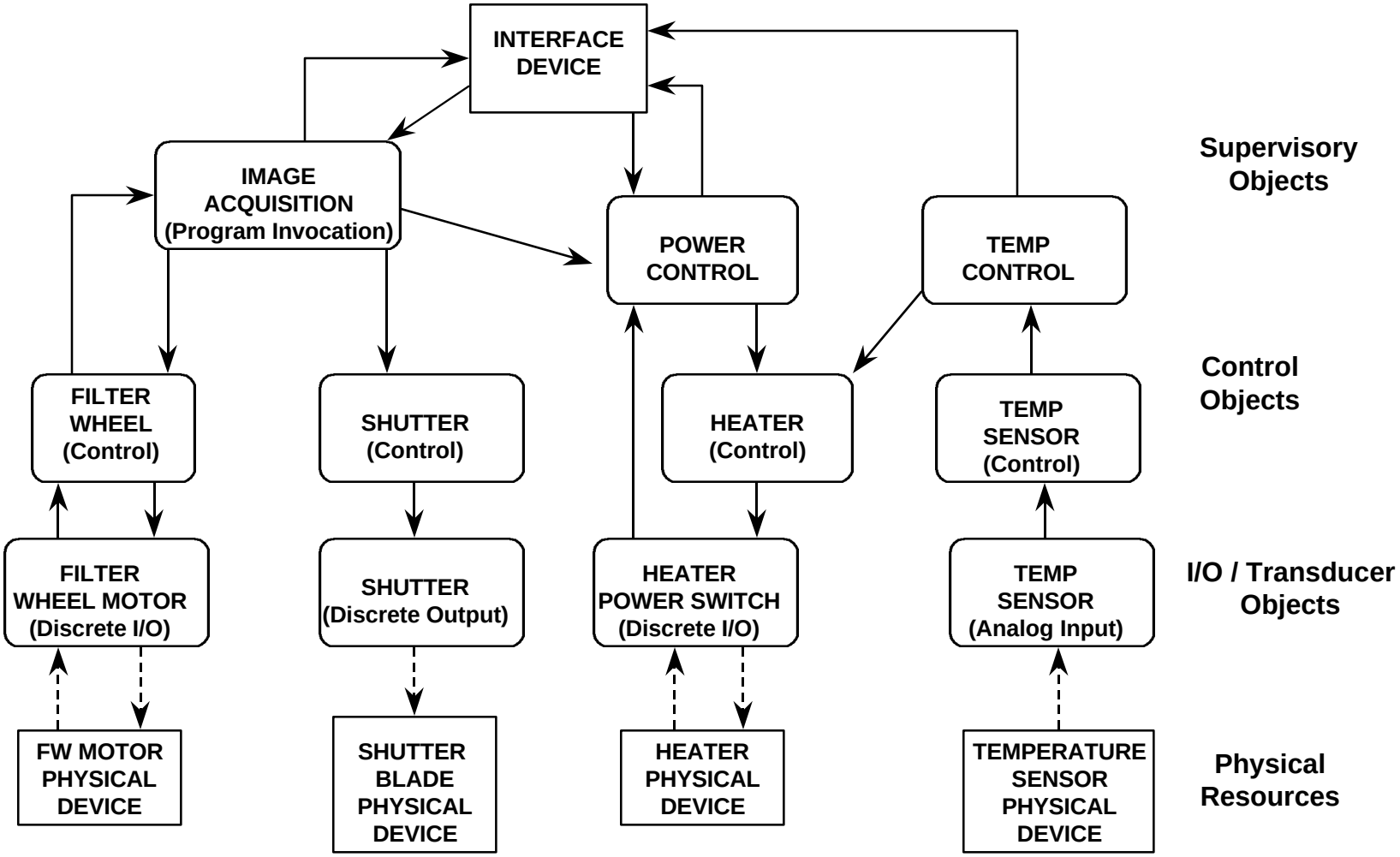


***FOUNDATION Specification, Function Block Application Process, Part 1, pg19**

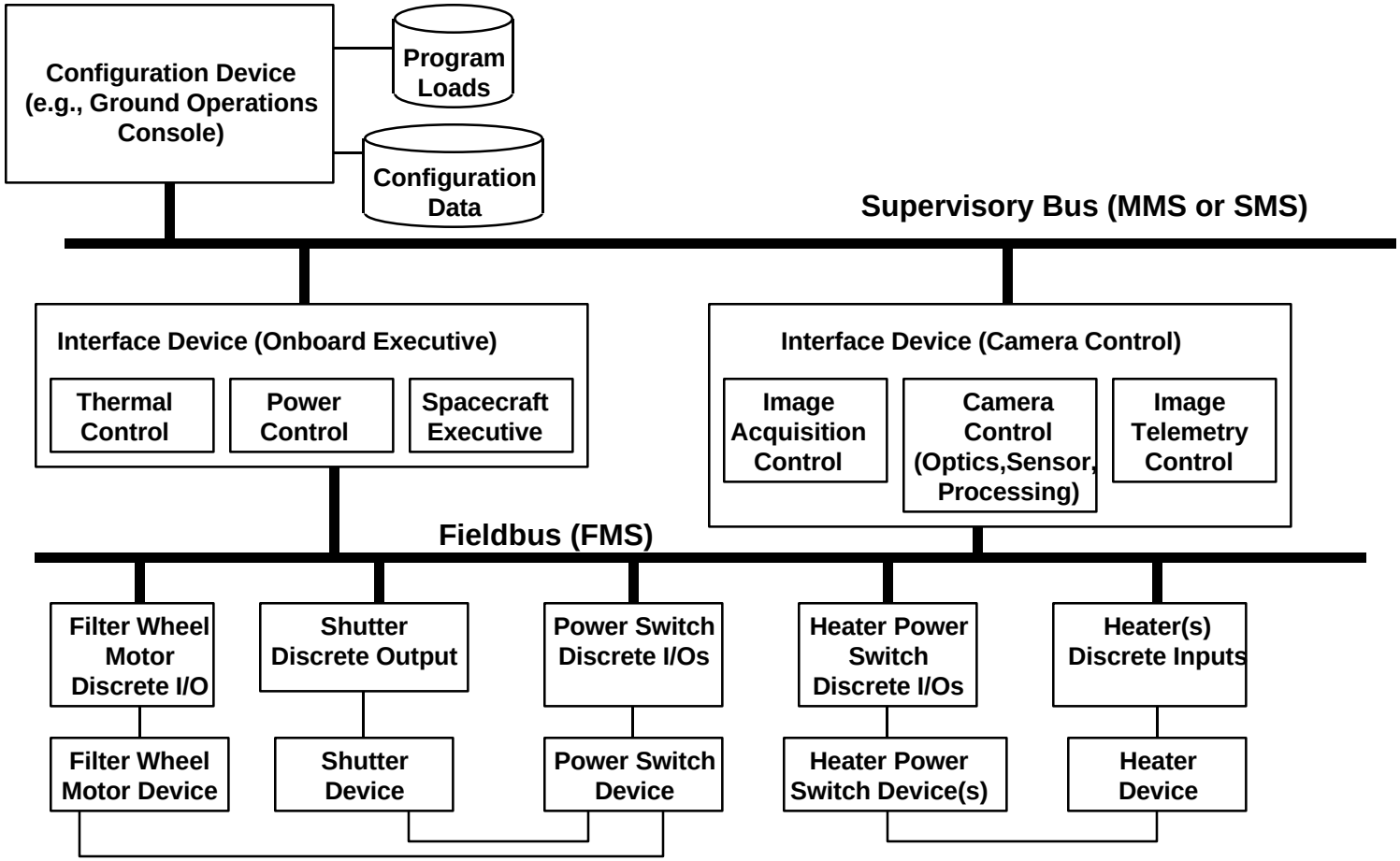
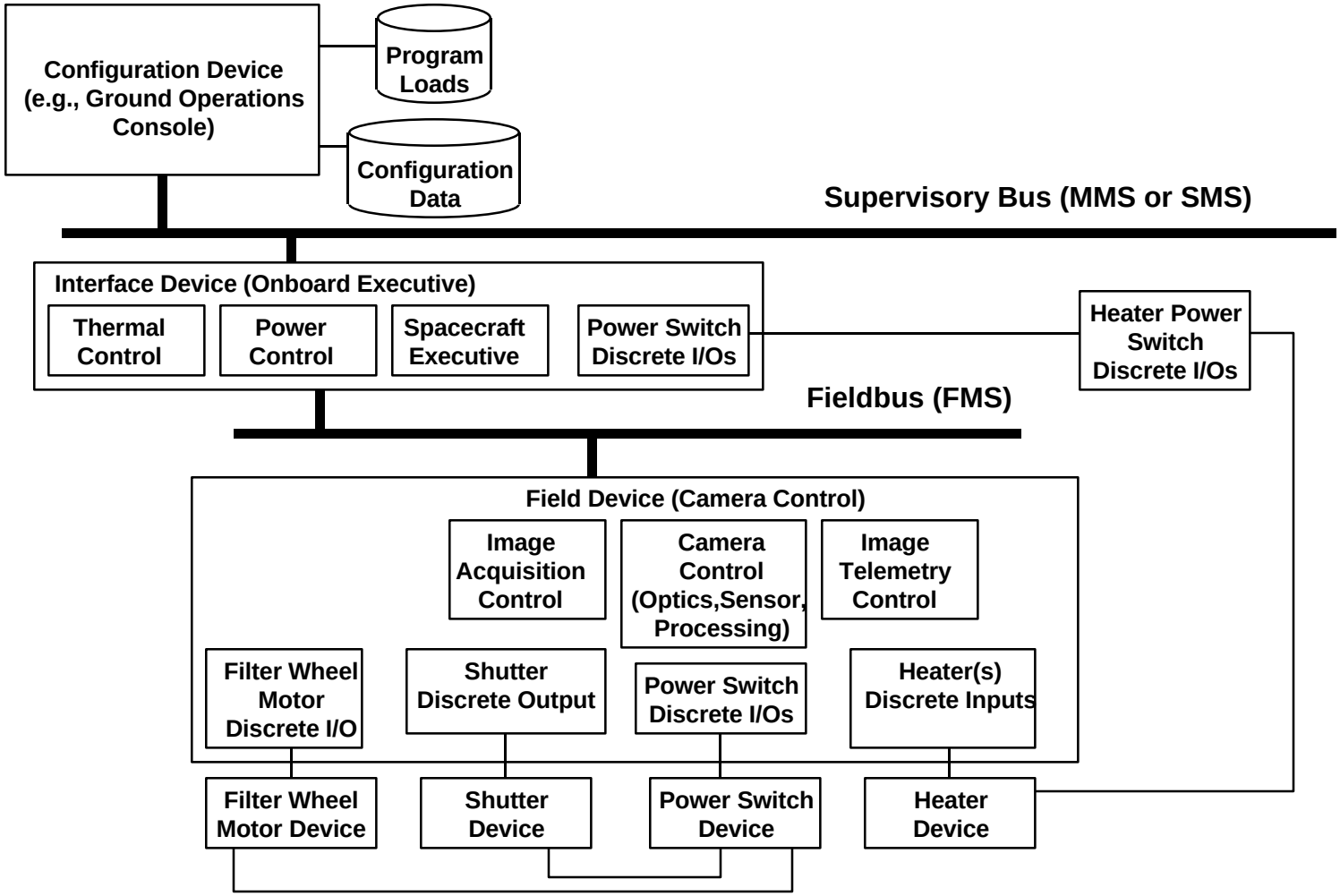
FOUNDATION Fieldbus Object Model (partial)



Camera Control and Signal Interfaces



Implementation Options:
Connect Smart Devices to Controller



Implementation Option:
Direct Connections to Simple Devices