



# VIVALDI Meta-Architecture

Flexible QoS Provisioning for SIP  
over DVB-RCS Satellite

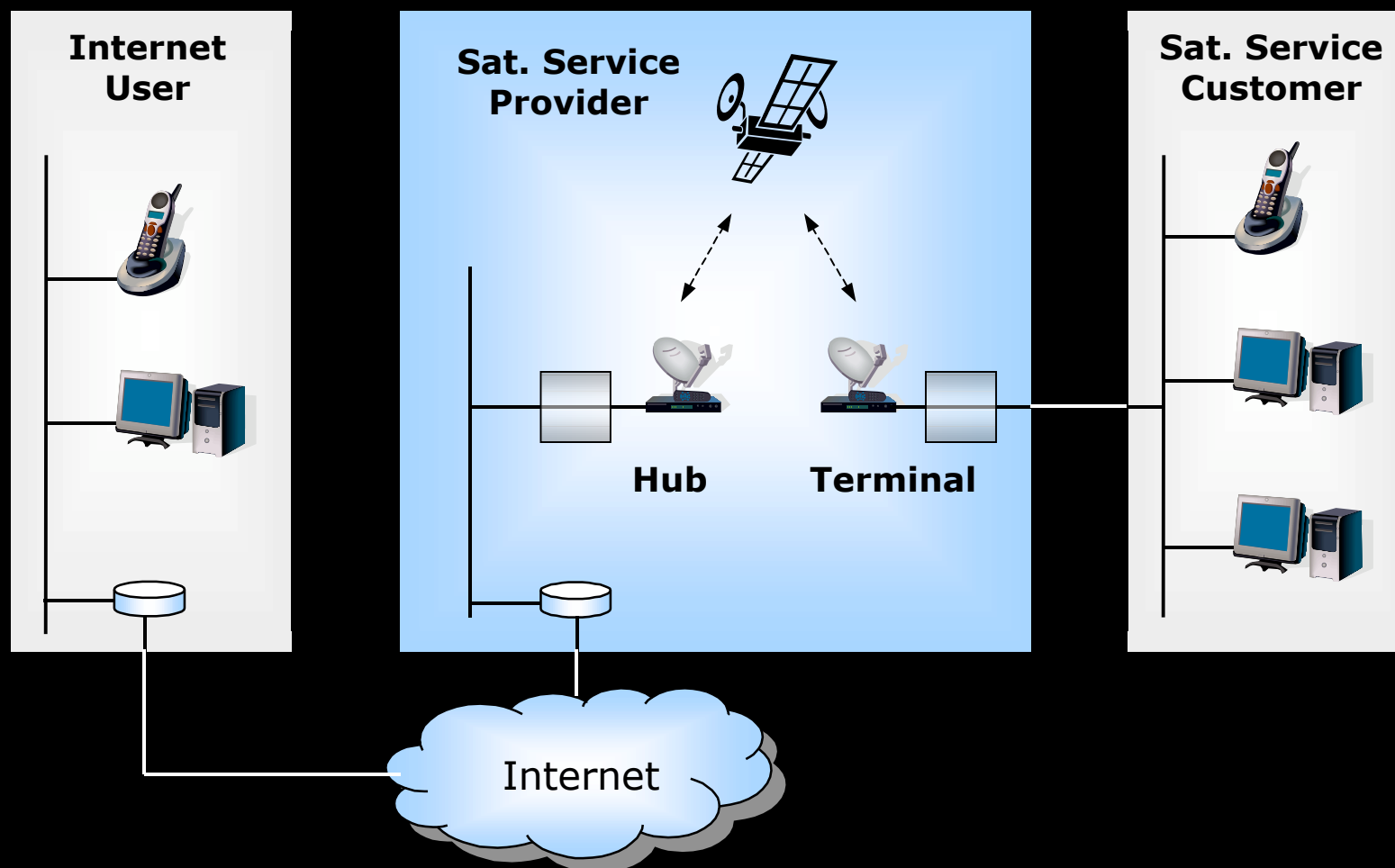


# Agenda

- The problem: Real-time media over DVB-RCS
- Different solution approaches
- VIVALDI Meta-Architecture
- Implementations

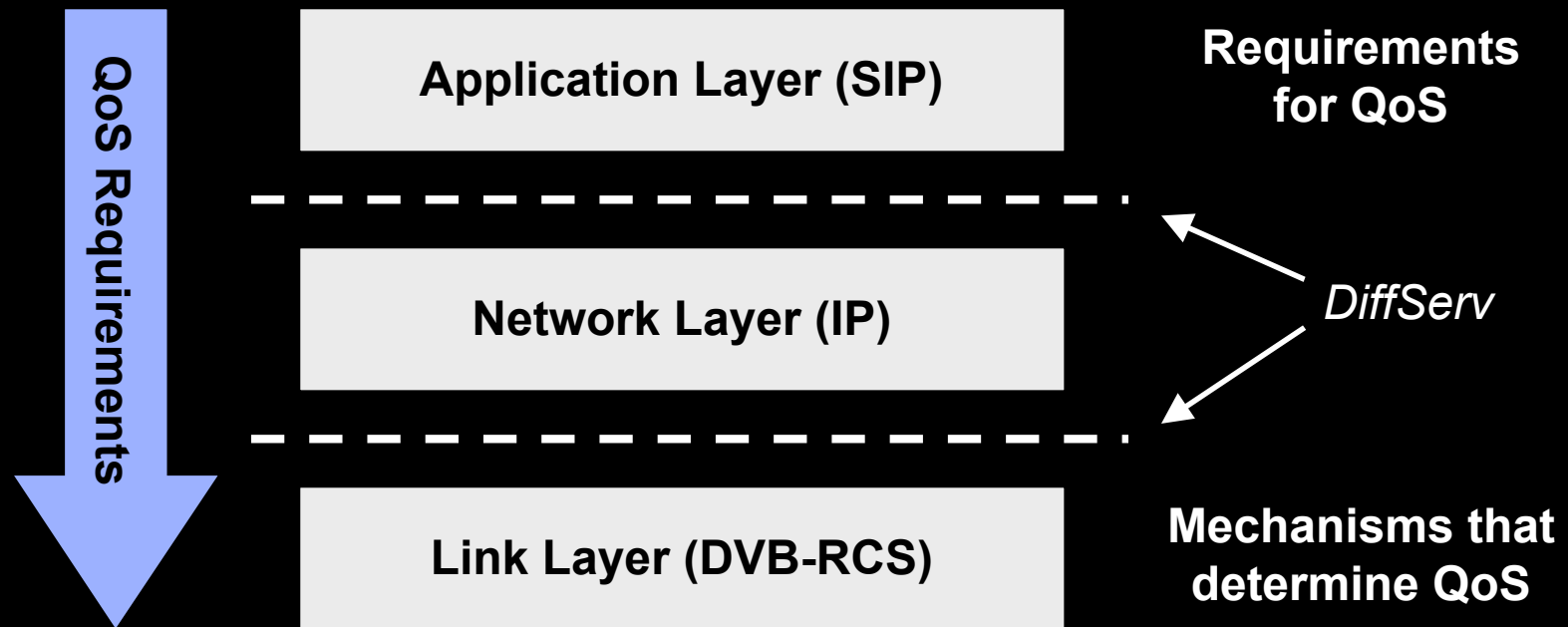


# The Practical Problem





# The Conceptual Problem



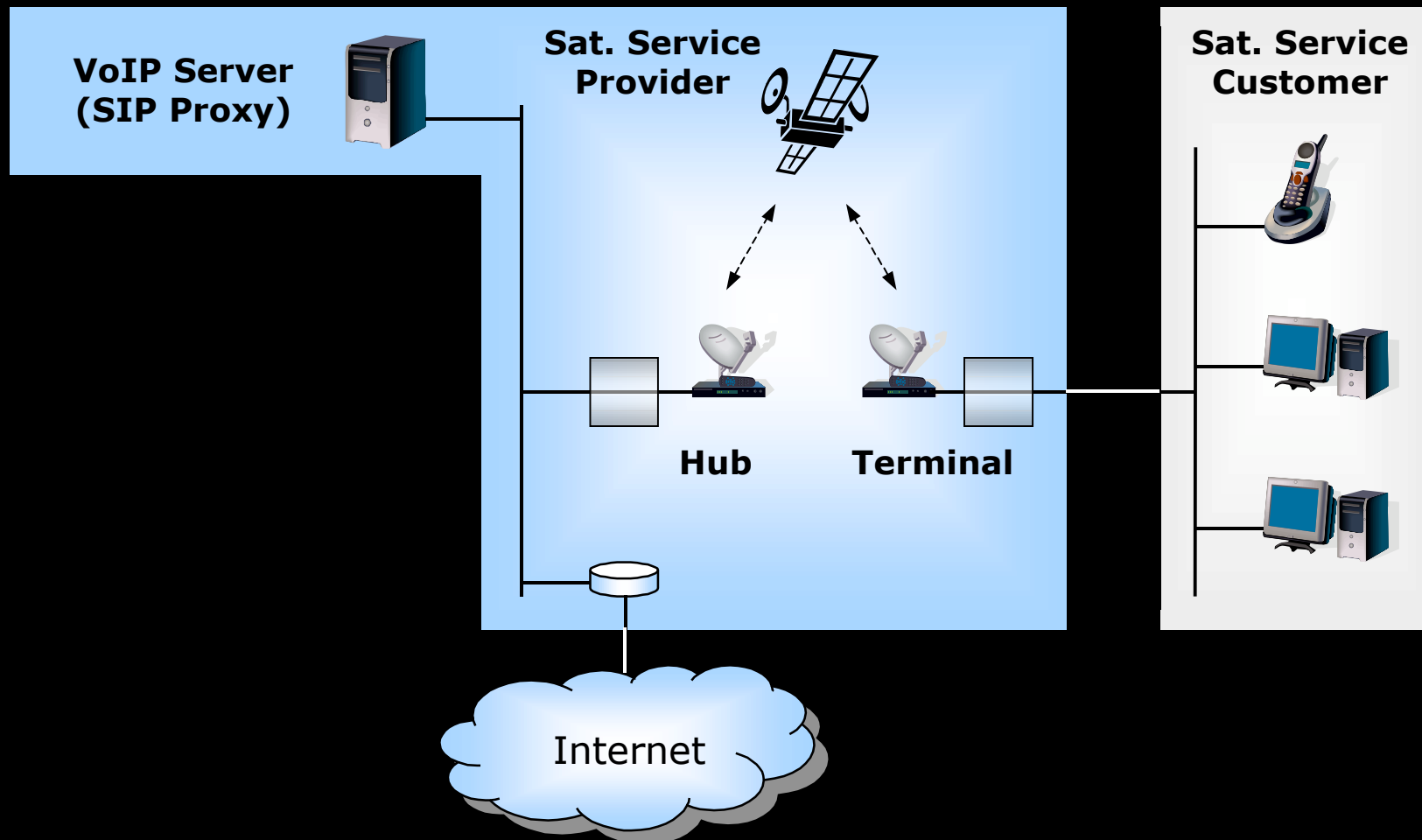


# The Functional Problem

- Detection of real-time traffic
- Designation of traffic flows into QoS classes
- Call admission control
- Busy condition handling

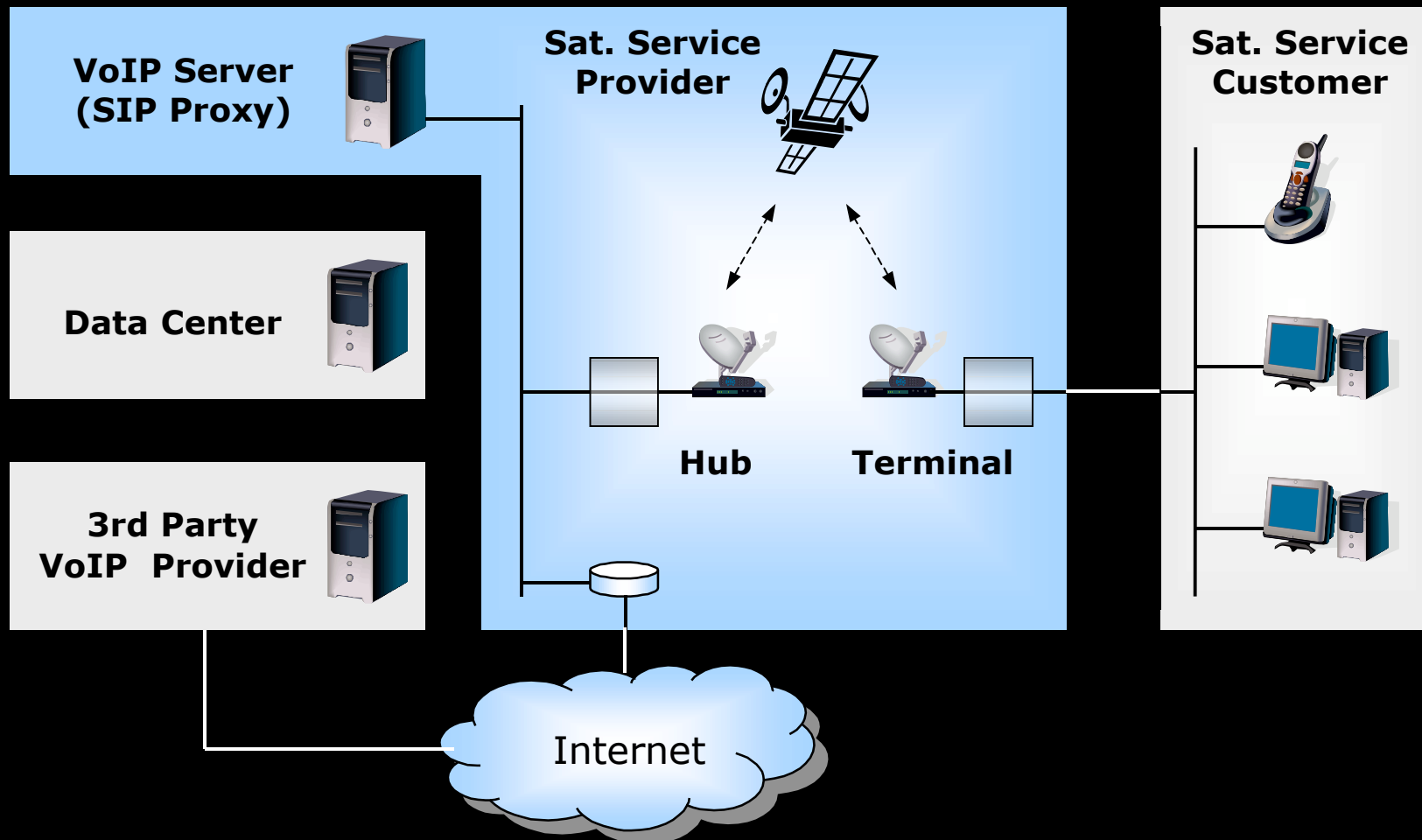


# Approach 1: Centralized Control



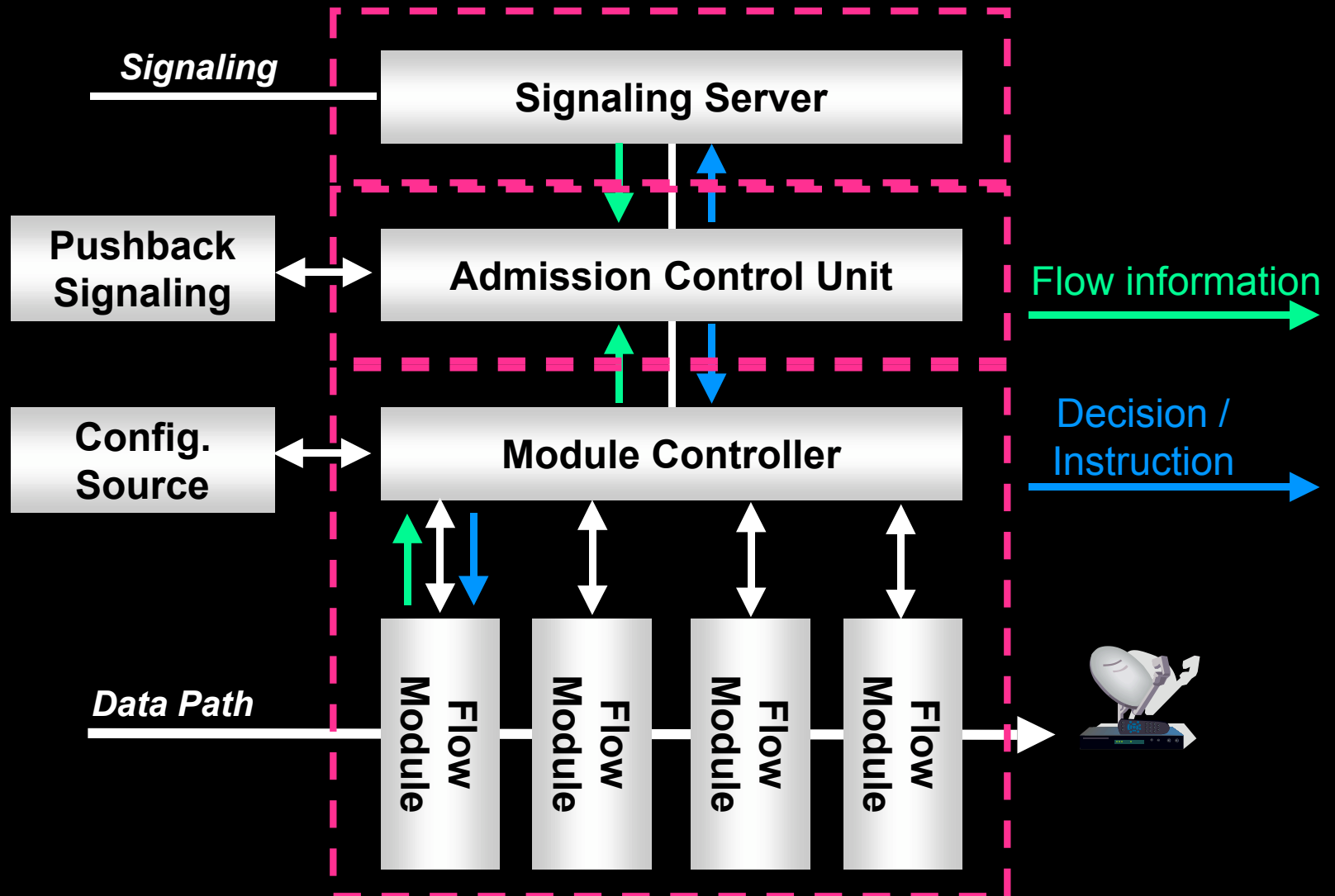


# Approach 2: Transparent Operation



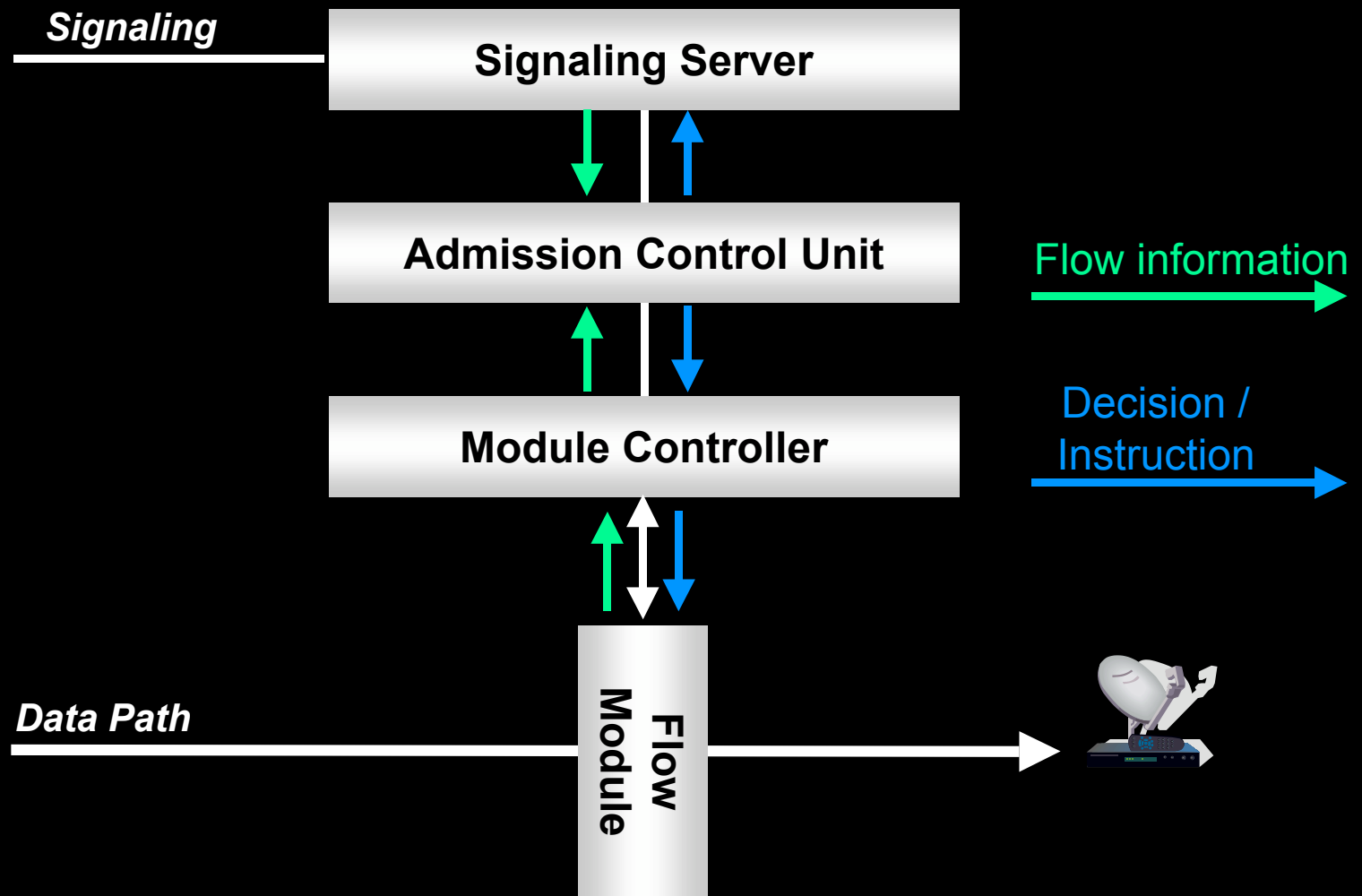


# Meta-Architecture



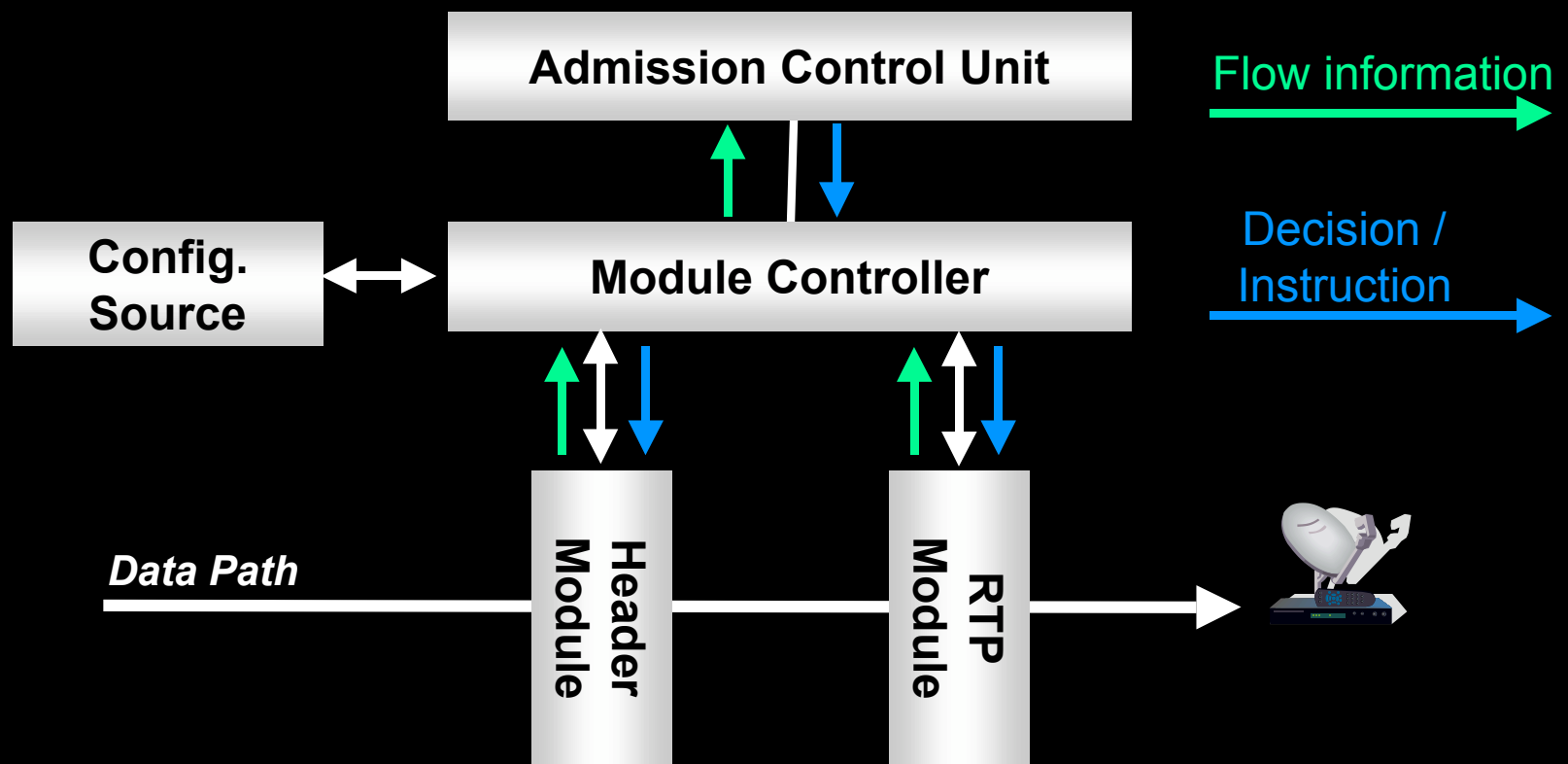


# Implementation 1: Centralized



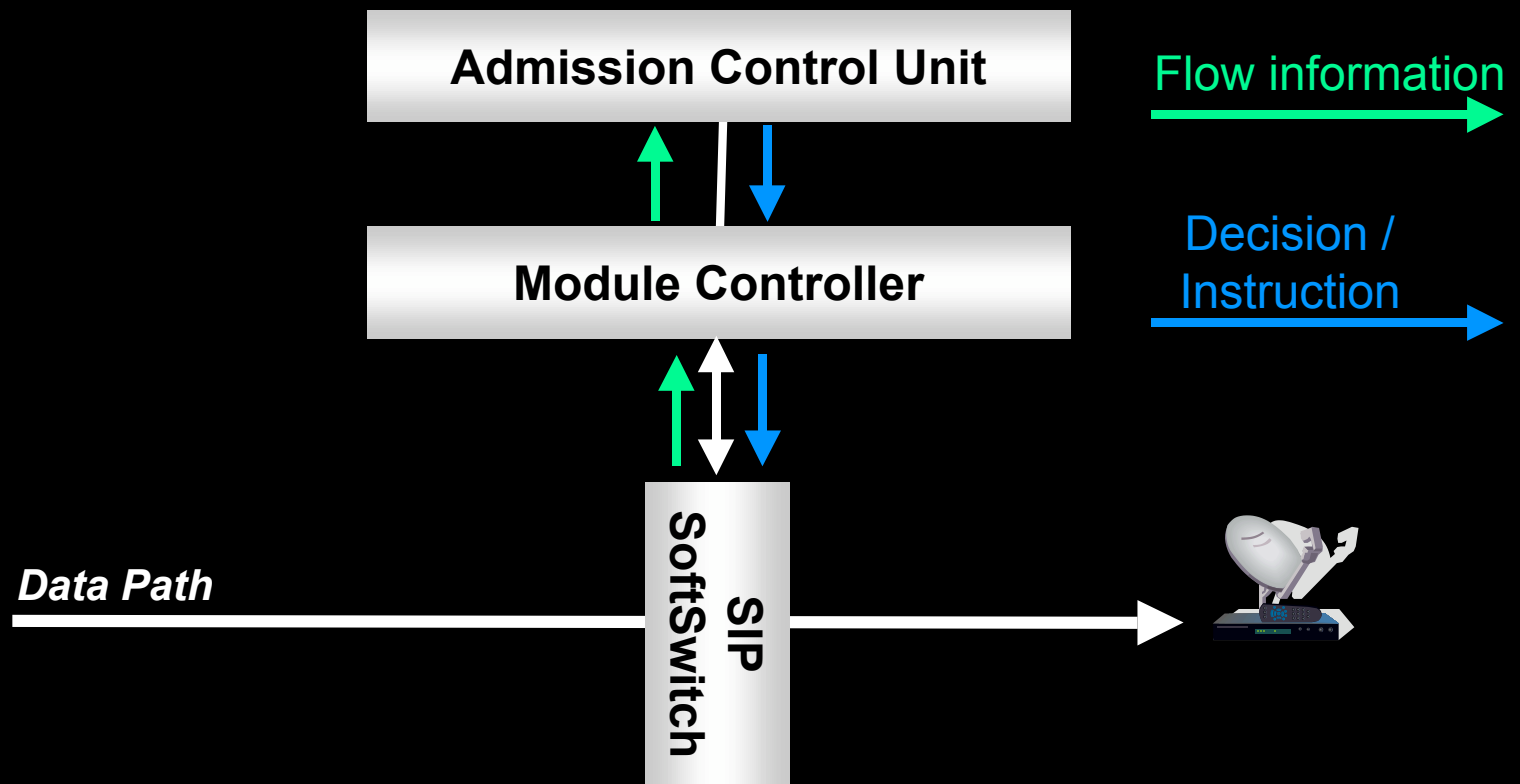


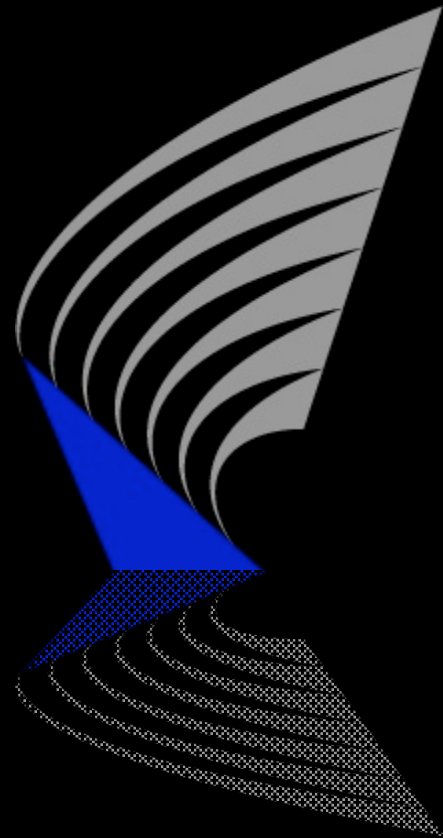
# Implementation 2: Fully Transparent





# Implementation 3: SIP “SoftSwitch”





Thank You!

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