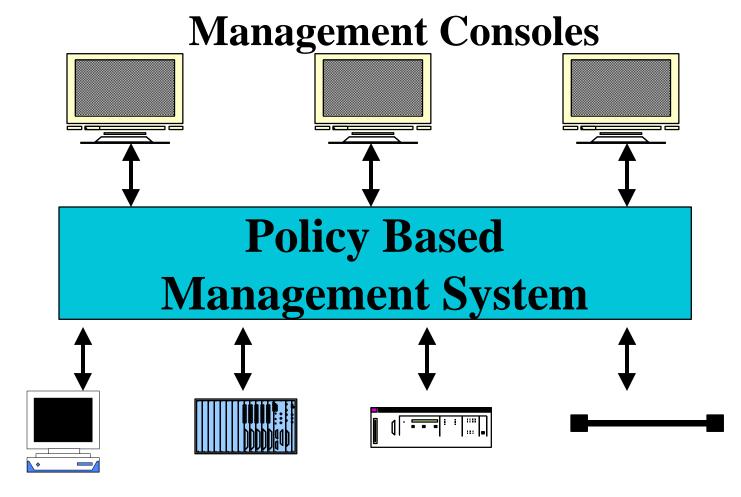
Generalized Policy Framework Architecture

draft-blight-gen-poli-rev-0.1.txt

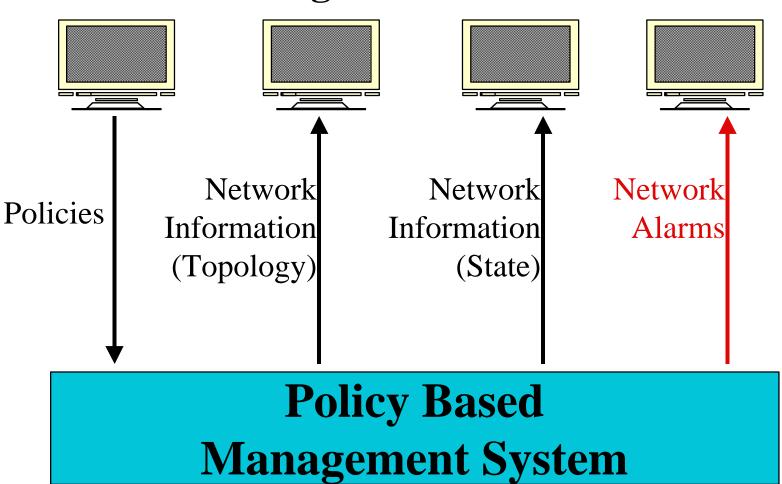
http://www.ee.umanitoba.ca/~blight/talks/pbn-arch.pdf

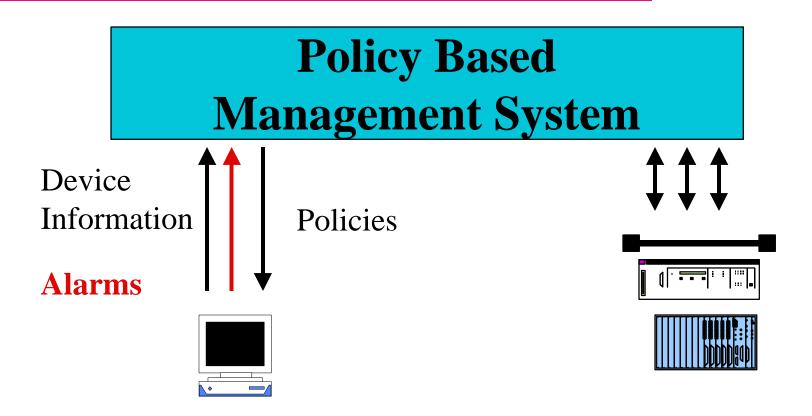
David C Blight
Fujitsu Labs of America
Sunnyvale, California
dblight@fla.fujitsu.com



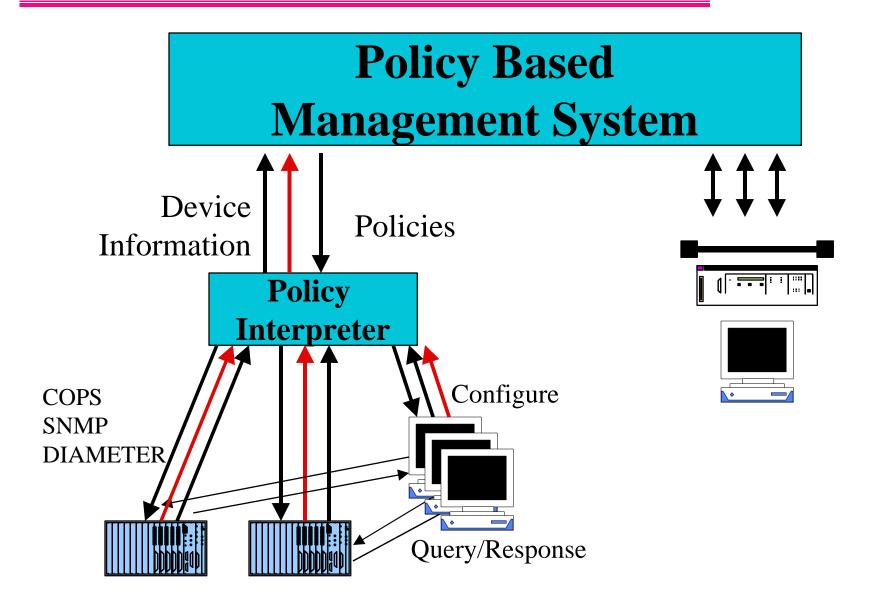
Managed Devices

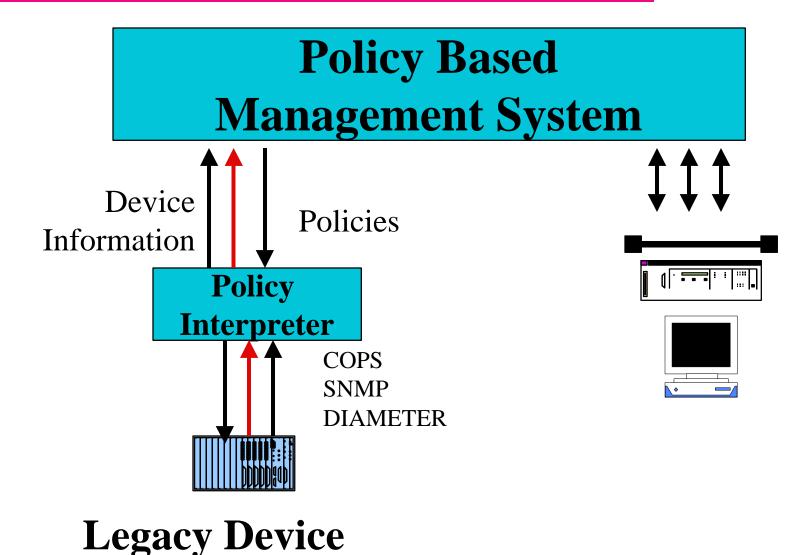
Management Consoles

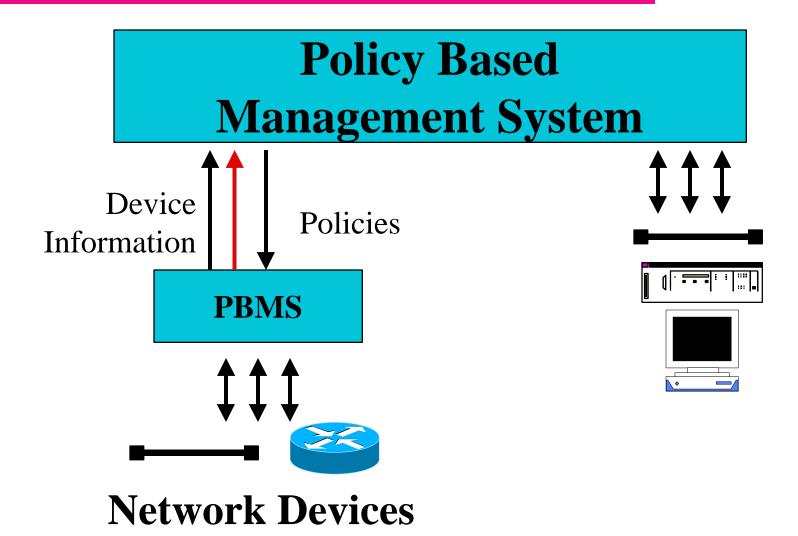


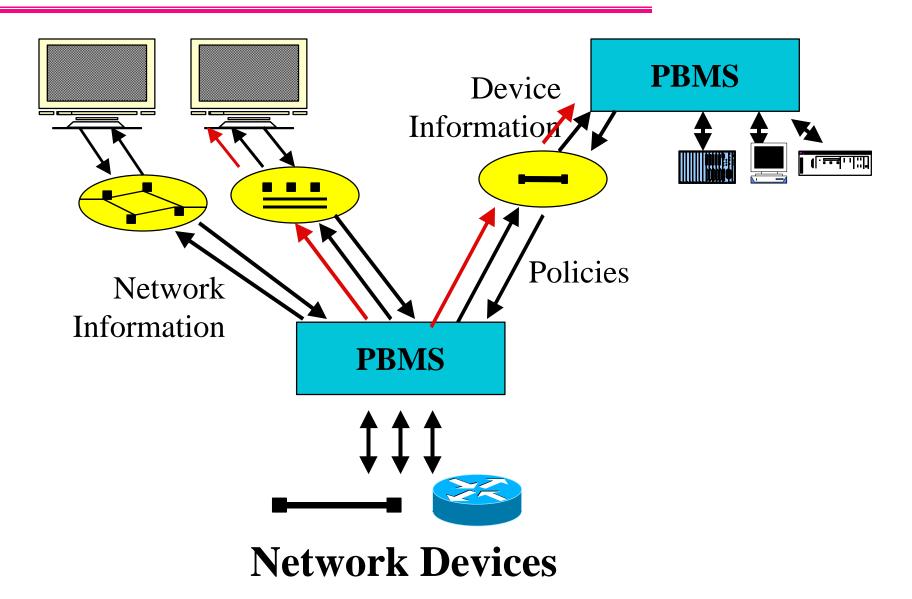


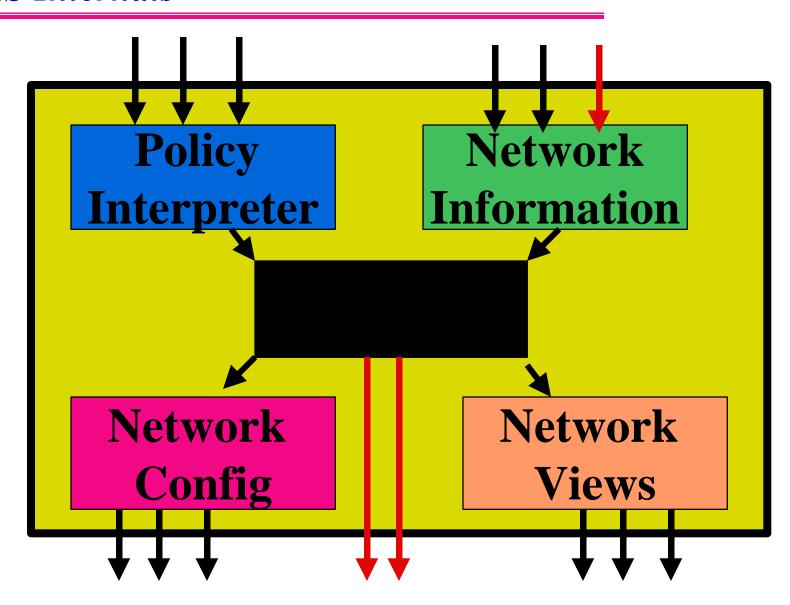
Managed Devices



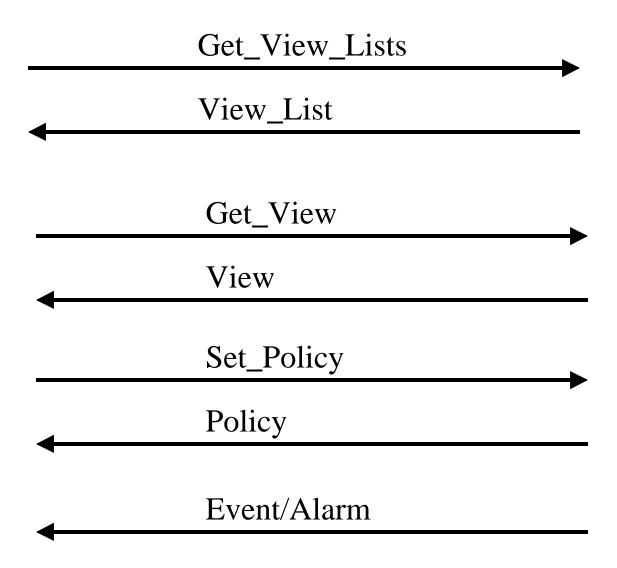








Protocol Requirement



LDAP Compatibility

- **LDAP** is not the ideal protocol
 - synchronous
- LDAP entries are not ideal to hold network info and policies
 - simple data structure
- **■** We must still provide functionality through LDAP
 - LDAP compatible directory could be provided at each interface
 - One LDAP compatible directory with all info
 - » access control controls views

Example: Managing Services in Network

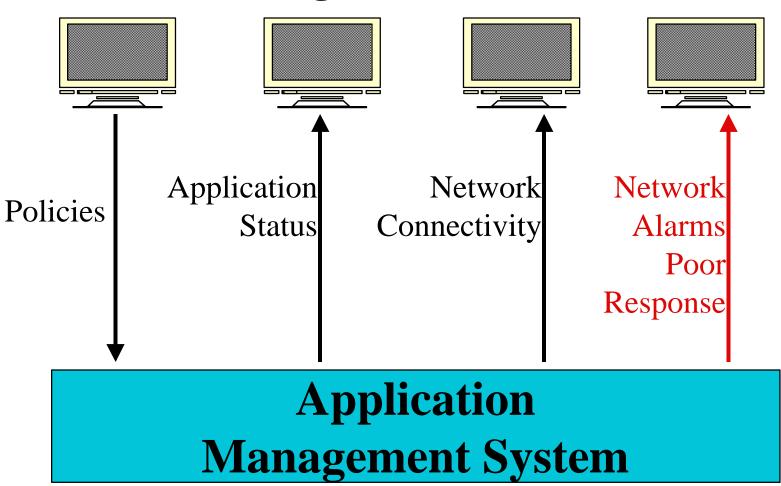
■ Assume an E-commerce based enterprise

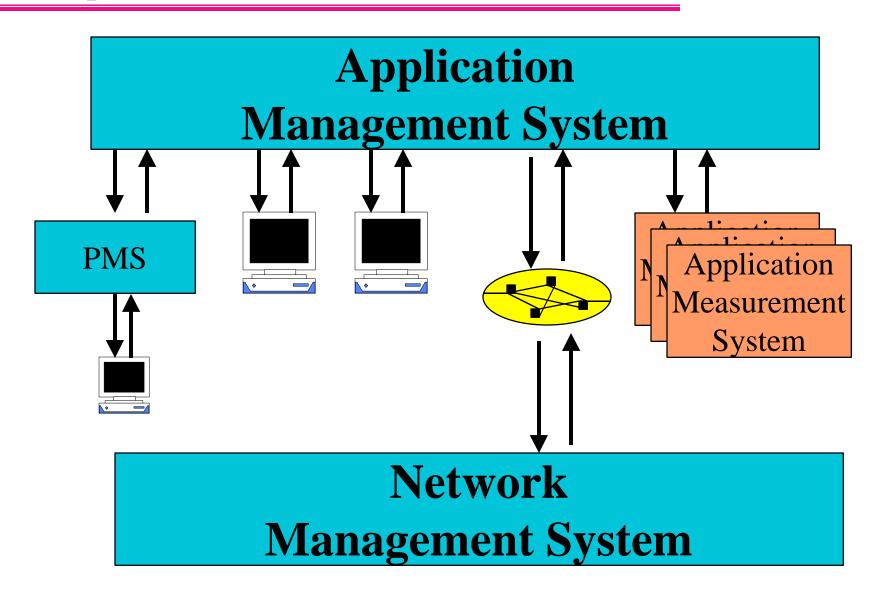
- Distributed transaction system
 - » customer access through Internet
 - » VPNs between servers, multiple ISPs
- Email, web, and all the other standard stuff
- IP Telephony

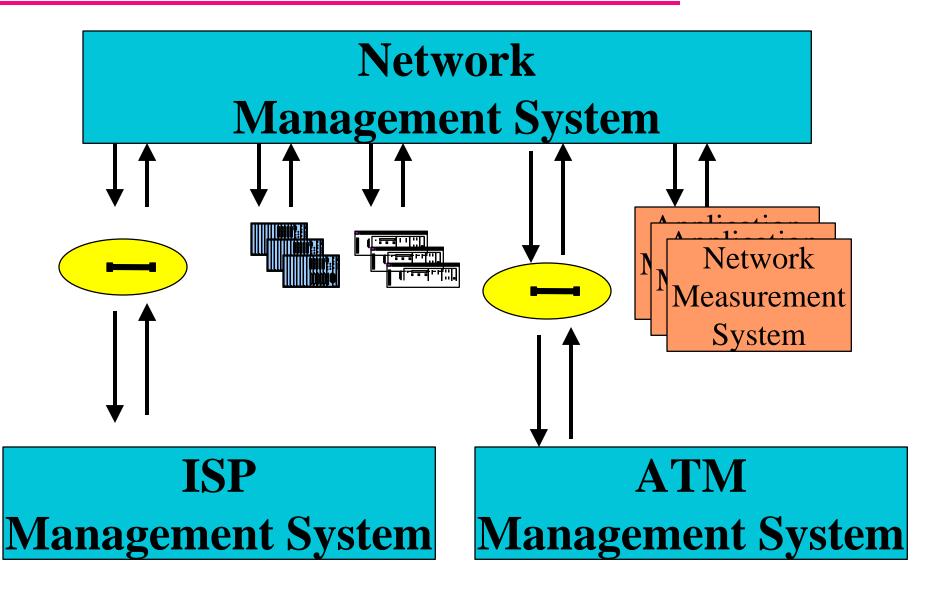
Policies

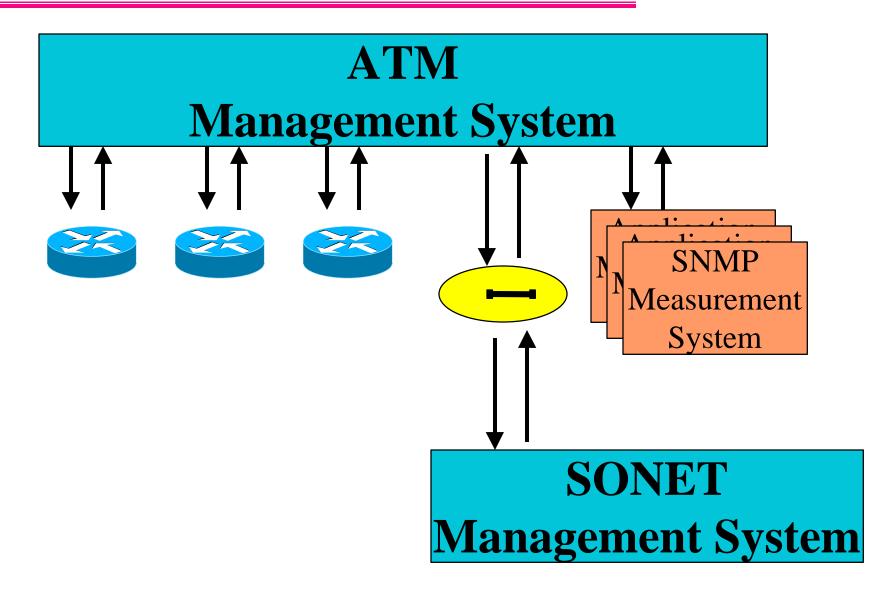
- customer directed to "best" server
- ISPs selected by best performance
- Application QoS requirements
 - » transaction response < 1sec</pre>
- IP Telephony requirements
- decent web response

Management Consoles









Summary

Conflicts

- impossible to completely detect/avoid
- not all policy problems will produce conflicts
- still worth while to check

Caching

- not needed, use multiple PMS
- services may need caching

■ Multiple Views

- smart directory, simple clients

Protocols

- LDAP insufficient, but useable