



# Framework For AQOS

1 June 2003

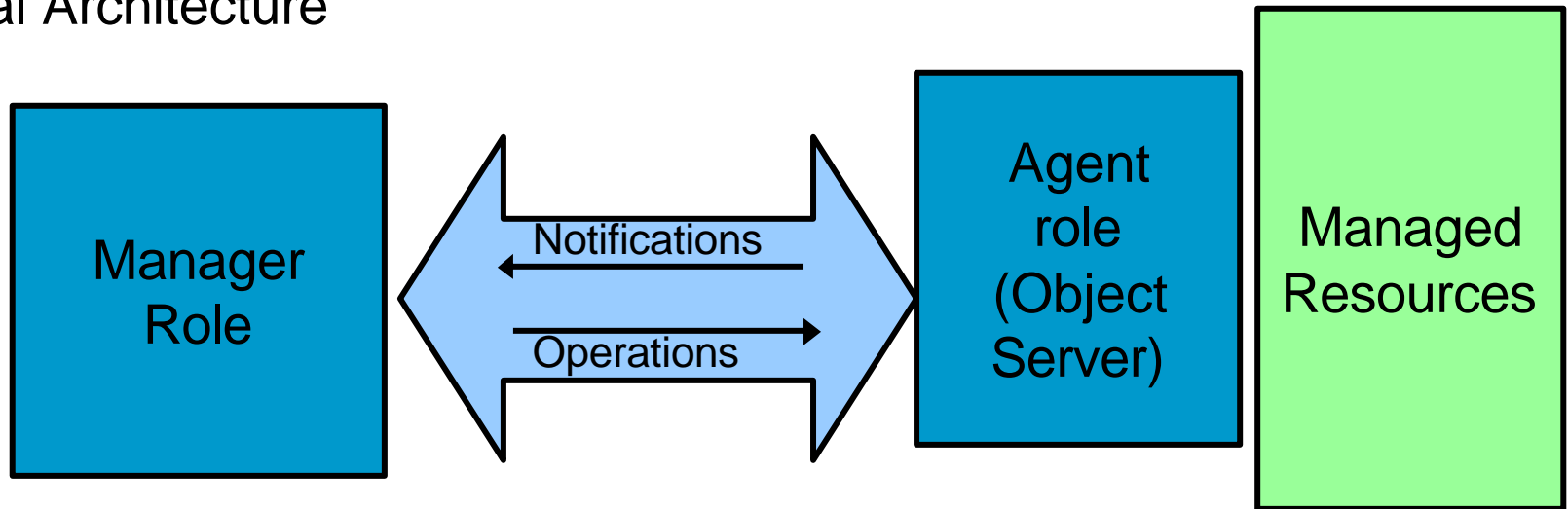
Karl Schopmeyer

Notes from AQOS framework discussion 24 July 2003)

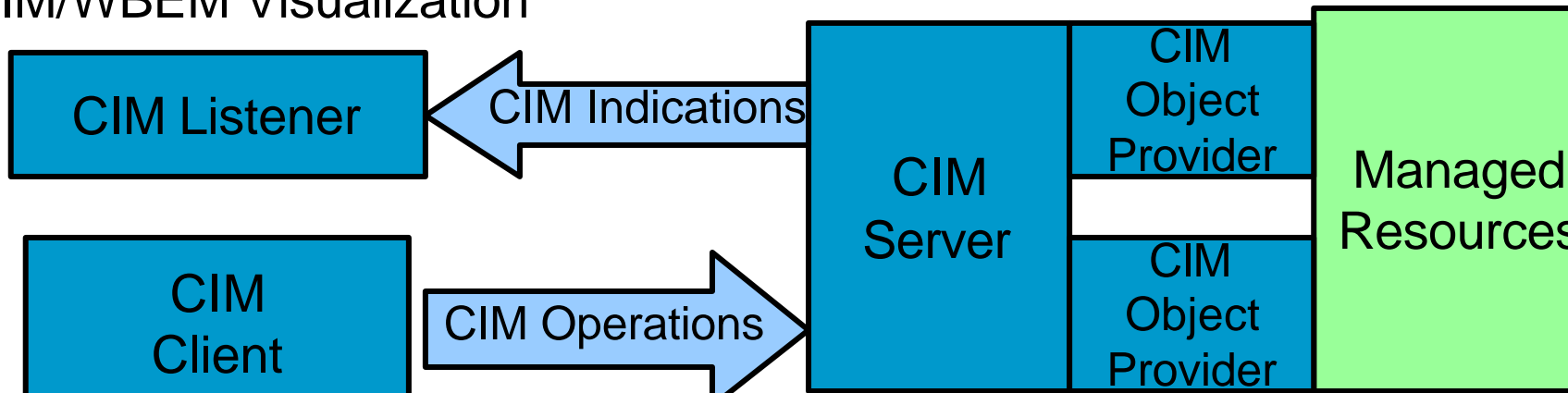
# The Communications/ Interoperability model

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## General Architecture



## The CIM/WBEM Visualization



# Communication Model

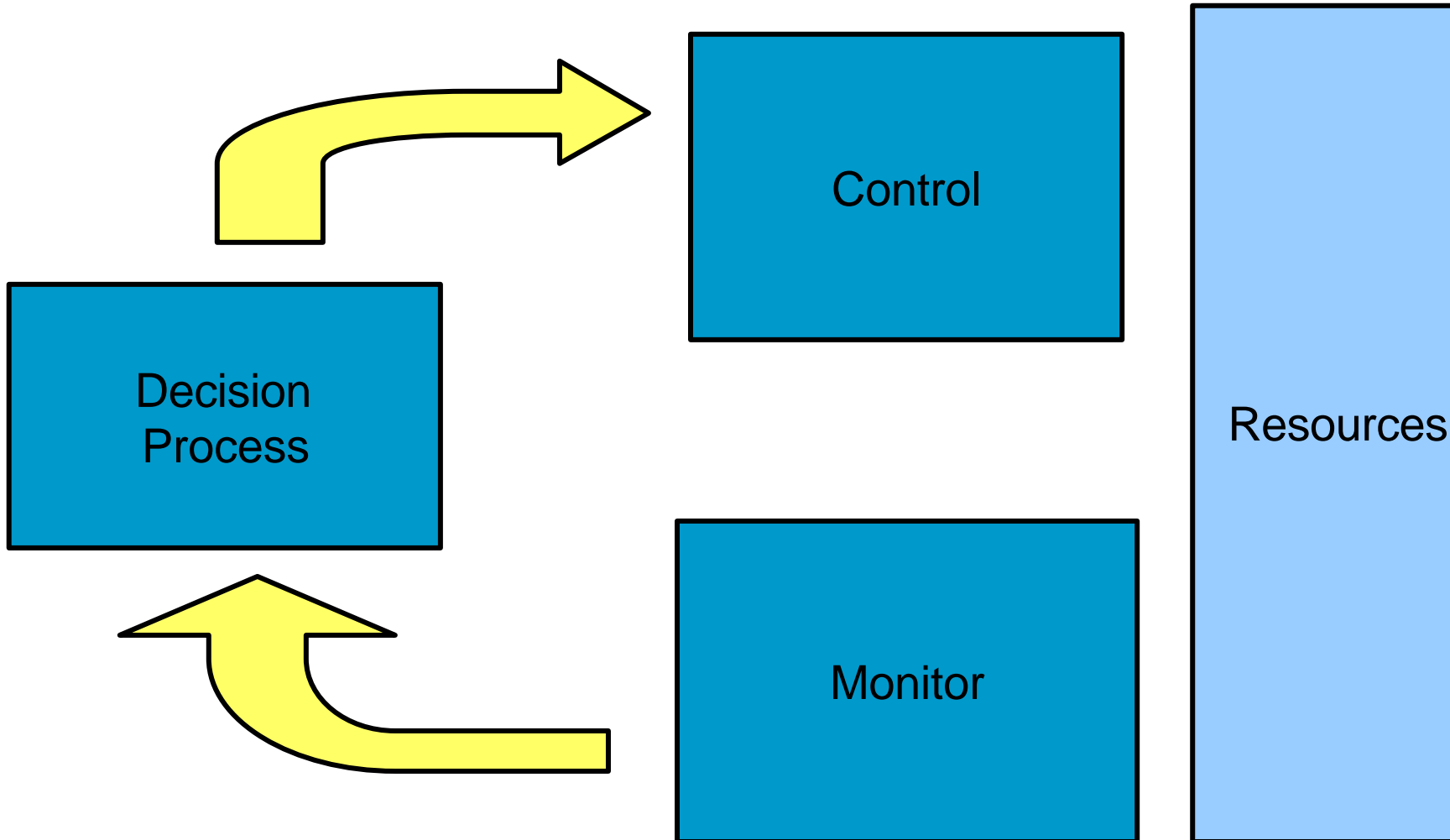
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- Provides interoperable communication between manager and agent.

# The Function Model

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# The Information Model

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- ❑ Must be based on an Object Model
  - Provides extensibility, encapsulation, etc.
  - Common semantic
- ❑ Must be a model that includes relationships between objects as core function.
- ❑ Based on a model used for management
- ❑ Base on model that already has a rich set of defined objects.

# Growth of the Information model to a Management model

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## Managed Services

From Information model  
To information and behavior  
model

Managed  
Services  
Model

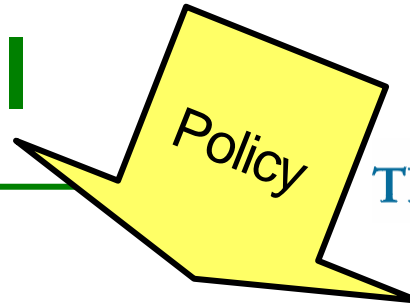
Manageability  
Model

Management Services

Managed Services Model  
(tomorrow)

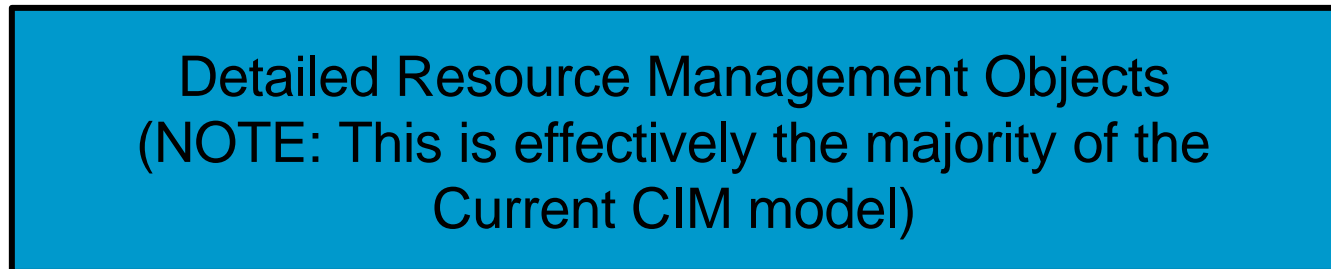
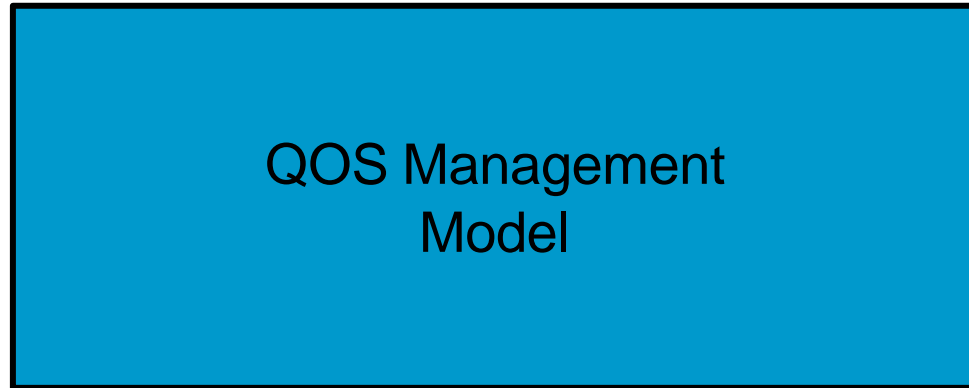
Manageability Objects  
(Today)

# The Object Model



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This will be a  
Key interface  
Between the  
QOS objects  
And the resource  
Objects. Typically  
The resource  
Objects will be  
Dynamically  
Created and deleted  
And the QOS  
Objects must  
Support this.



# The Object Model

Policy

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Decision Process

QOS Monitors

QOS Control

Resource Management Objects  
(NOTE: This is effectively the majority of the  
Current CIM model)

Resources (System, Network, Applications, etc.)

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# Decision Making

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- The Decision making should be based largely on abstractions that support the QOS concepts and define policies that operate on the controls based on the monitors.
  - Policy Objects
  - Scripts
  - State management

# The App QOS Objects

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- Represent concepts like;
  - Capacity
  - Throughput
  - Latency
  - Queue Length.
- In effect a network of queues
- Every step up through the model we are abstracting the information required for QOS. Note that the relationships is the way this is accomplished.