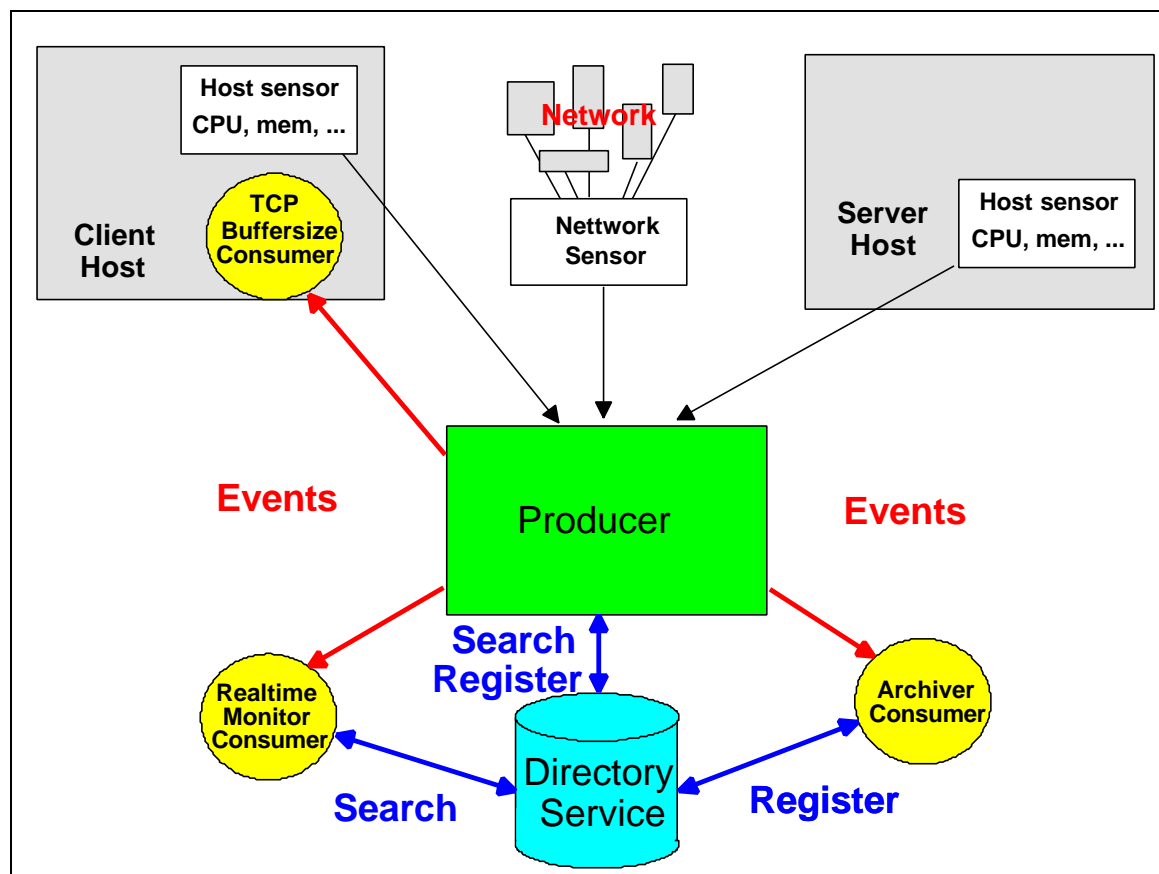


## Comparison GMA vs. CIM

The following picture is transcribed from the GMA document. It shows major components in monitored environment.



In a CIM Environment will find similar functions but organized differently. A one-to-one mapping would not be useful but the following paragraphs shows how equivalent function can be mapped.

### Sensors.

Sensors are best comparable with CIM providers, though CIM provider can do more depending on the behavior defined by a class. For example, a provider can monitor utilization but it can also respond to method calls. So a `UnitarySystem`<sup>1</sup> class can be asked to monitor for certain threshold violations but it can also be instructed to reboot the system or activate a different SLA.

### Producer

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<sup>1</sup>UnitarySystem in this document is a class representing an system.

A producer is best comparable with a CIM Object Manager. It drives sensors and accepts indications (events) from providers acting as sensors. The CIMOM also keeps track of who has subscribed to specific events and will forward them to subscribers.

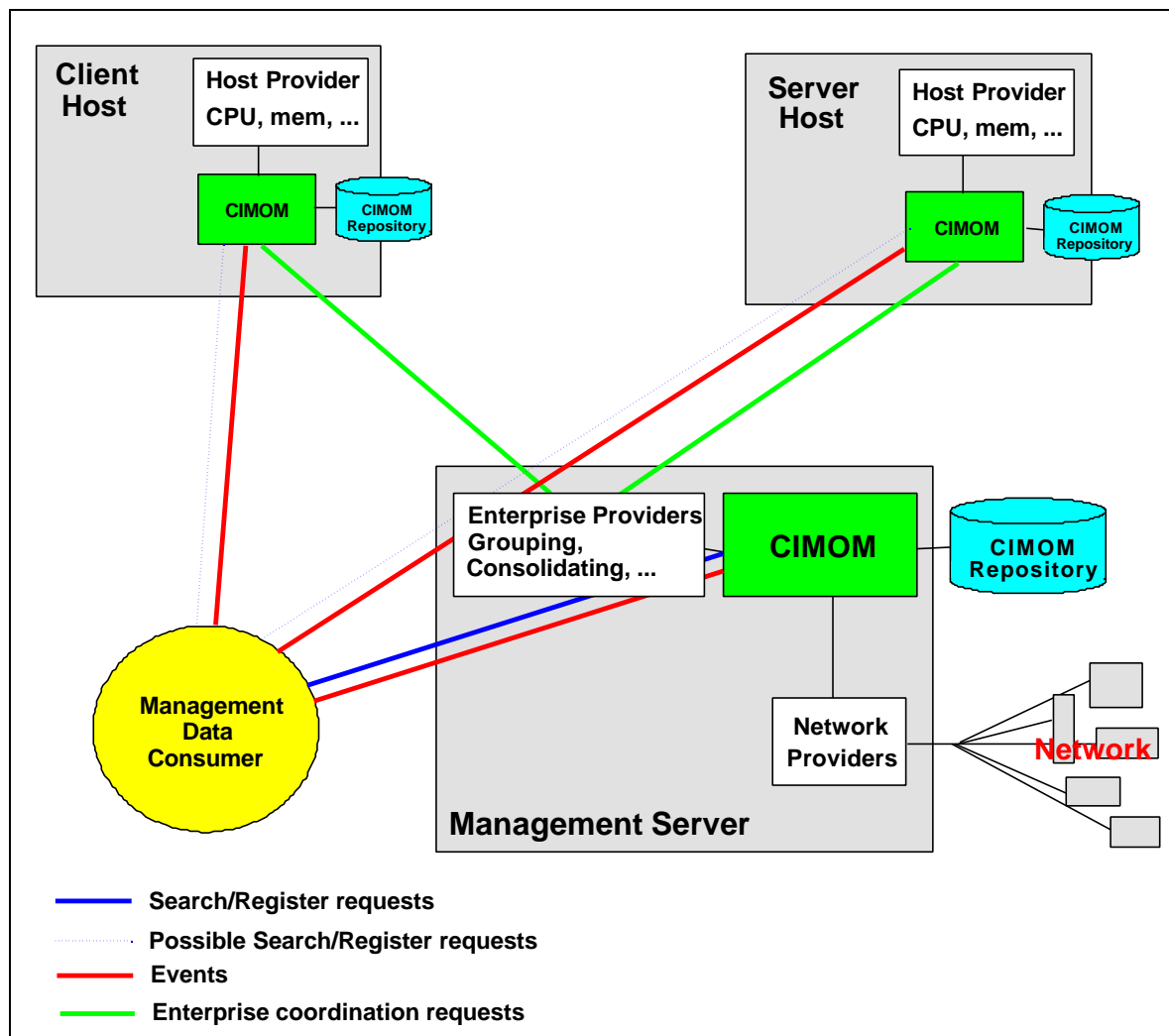
### Directory Service

This service is built-in in a CIM Object Manager. The CIMOM maintain a class model of which individual classes can be instantiated by anybody having the right authorization. All usual operations like create, delete, modify and query are supported. The terms Search and Register have equivalent concepts in a CIMOM. A consumer (client) can enumerate all occurrences of UnitarySystem (search) and subscribe to specific change. A host on the other hand can create an instance of UnitarySystem representing itself (register). A consumer could of course have subscribed to be notified when a UnitarySystem instance is created.

### Consumer

A consumer in WBEM term is called a client. Client can use all services provided by a CI Object Manager. It can ask / search for data stored in the CIMOM's repository, modify and/or create this data and subscribe to changes on every resource known to the CIMOM.

The same environment using WBEM technology would look like this:



Essentially, all systems will have a management infrastructure and providers acting as sensors. A set of Enterprise Providers will hide the topology complexity and enable Management Data Consumers (a.k.a. Management Applications) to use one single point of contact will still have dedicated event connections.

Our goal is to have topology data discovered automatically, we will integrate with and use SLP protocols to get this data.

The green connecting lines are normal carry normal WBEM protocols and operations. They are used to delegate request to the applicable subordinate management servers. The blue dotted lines can be used by any application but then require topology knowledge.

The picture also shows how the compound Producer/Consumer paradigm is supported.

It should be noted that the infrastructure can be used by virtually all Systems Management disciplines, including configuration, security admin, problem determination and load balancing, just to mention a few.