Gemini UK Link Performance Reporting

Measurements Currently Possible
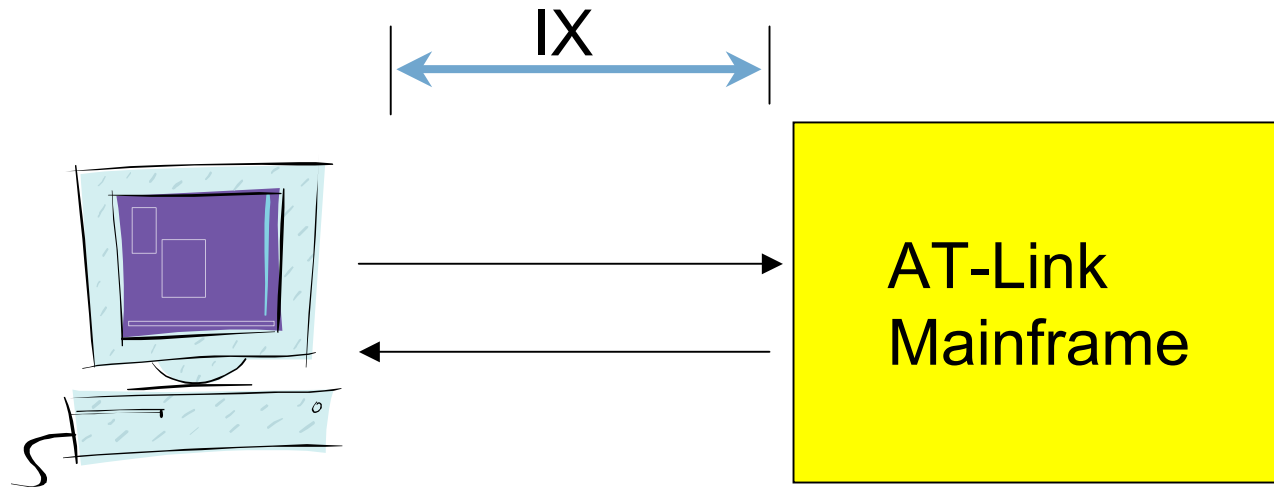
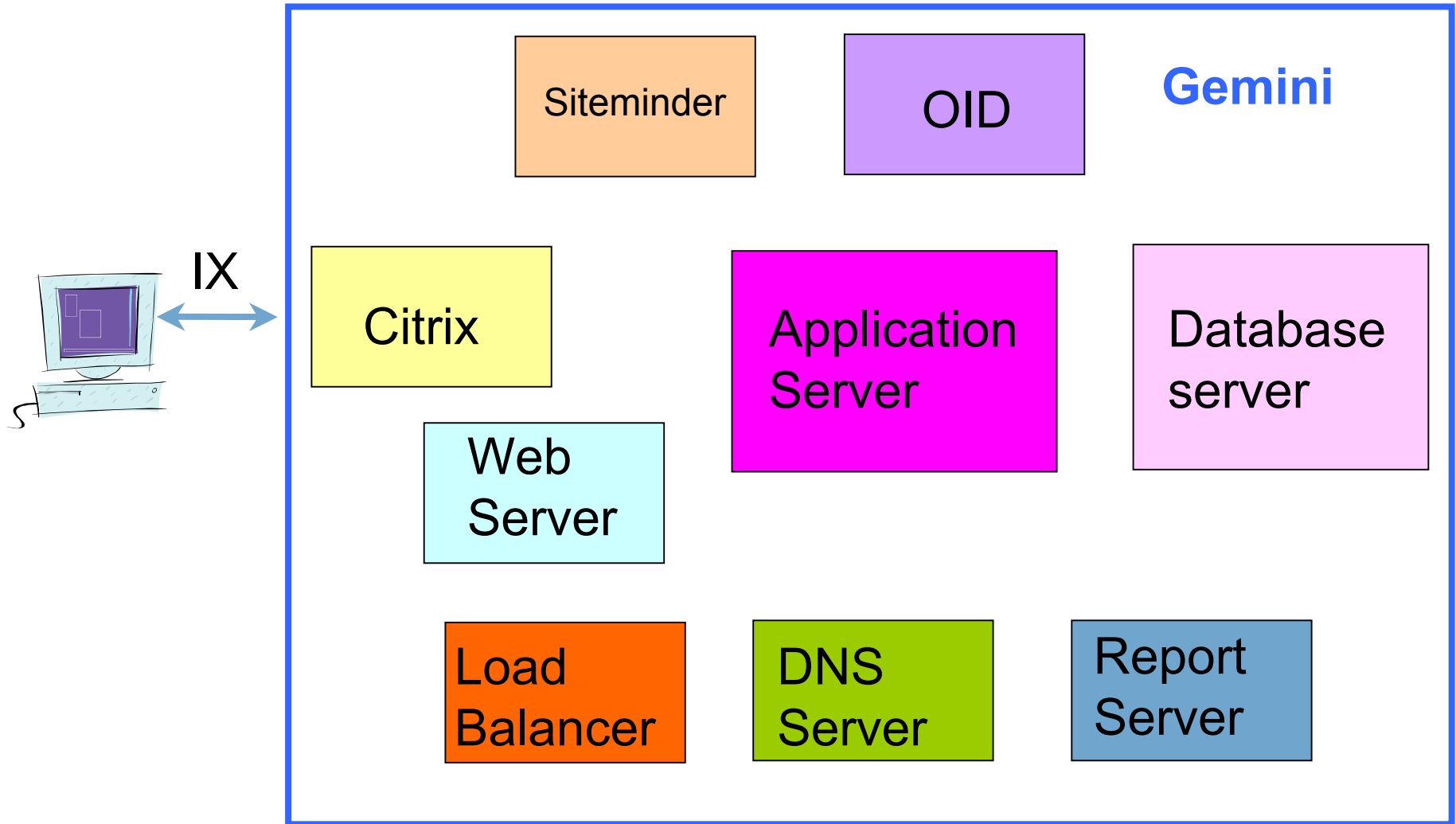| Performance Measure	Target/Max	AT-Link	Gemini
Service	99%	Yes	Yes
Access (IX)	99%	Yes	Yes
SIS	99%	Yes	Yes
Routers	99%	Yes	Yes
Nominations Per Day	8,300	Yes	Yes
Renominations Per Day	4,200	Yes	Yes
% of Transactions <4 Secs	95%	Yes	No
Transaction Response Time	N/A	Yes	No
Transactions per day	N/A	Yes	No
% Transaction change	N/A	Yes	No

xoserve

Additional Measures - Proposed

- Bulk Uploads per day

- Bulk Downloads per day

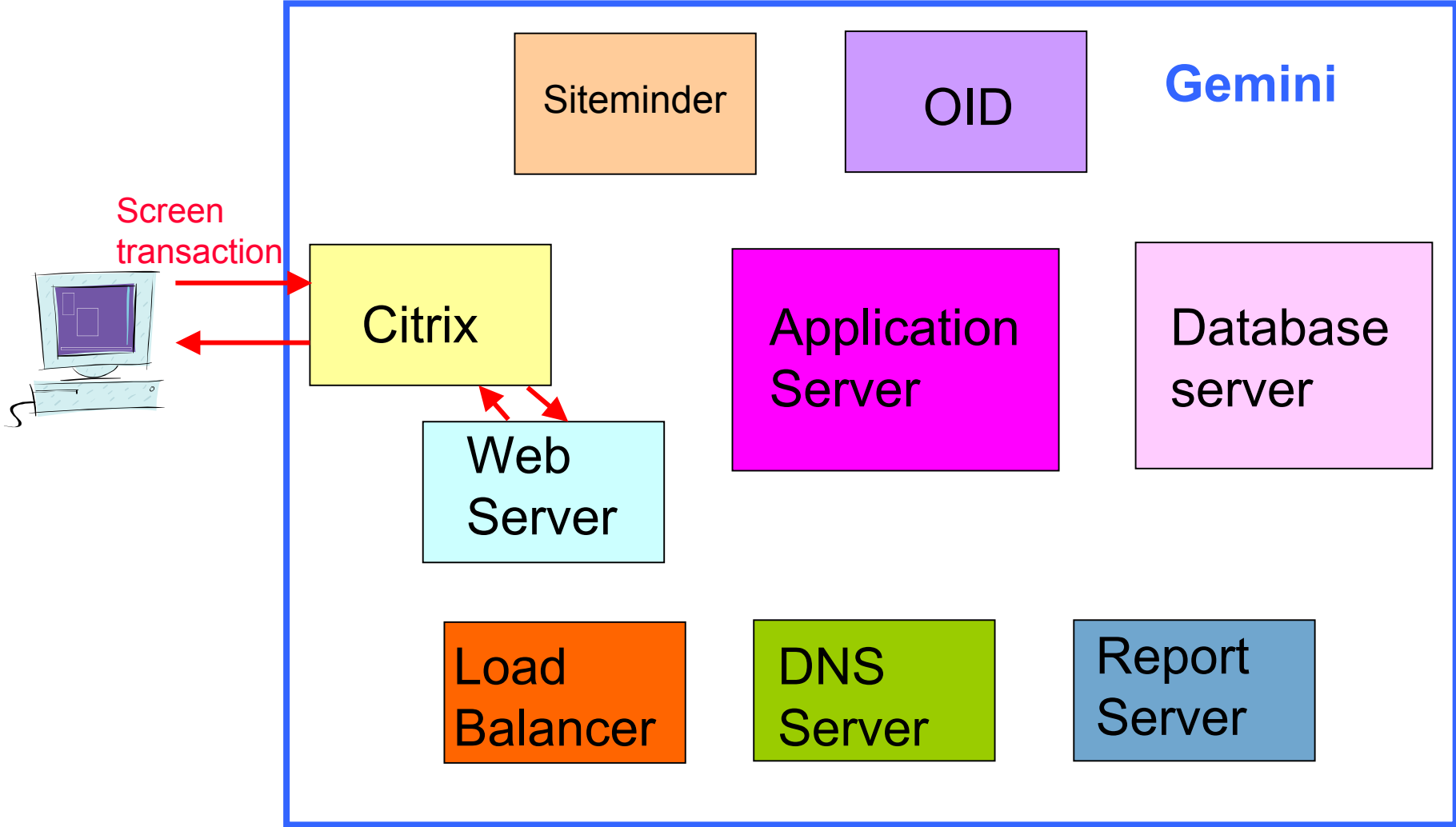- Average Shipper MPLS usage

- Average Transporters' MPLS usage
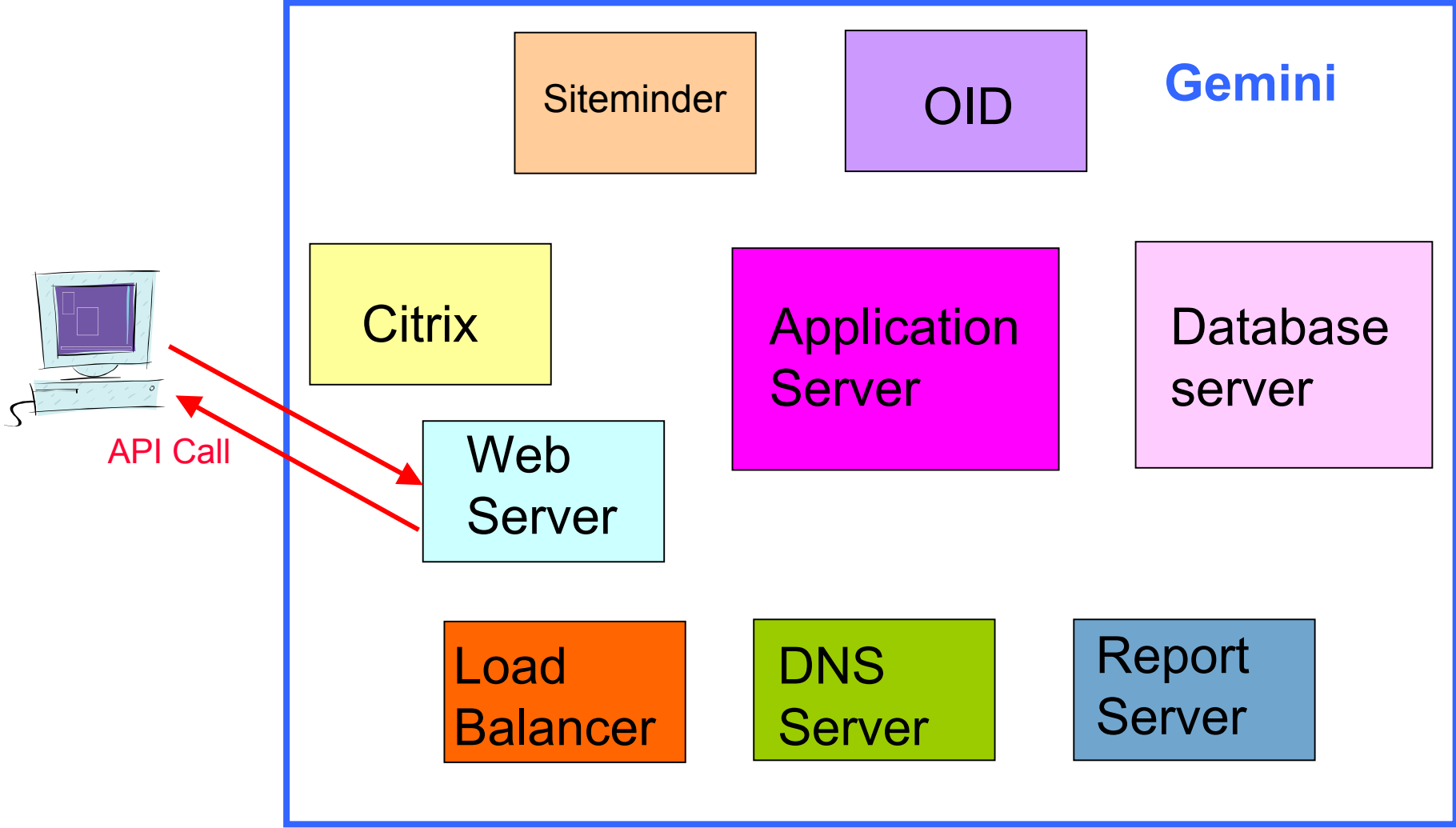
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AT-Link Architecture

IX

AT-Link
Mainframe

Gemini Architecture (simplified)

IX

Gemini

Siteminder

OID

Citrix

Application Server

Database server

Web Server

Load Balancer

DNS Server

Report Server

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Gemini Transaction Path 1

Screen transaction

Siteminder

OID

Gemini

Citrix

Web Server

Application Server

Database server

Load Balancer

DNS Server

Report Server

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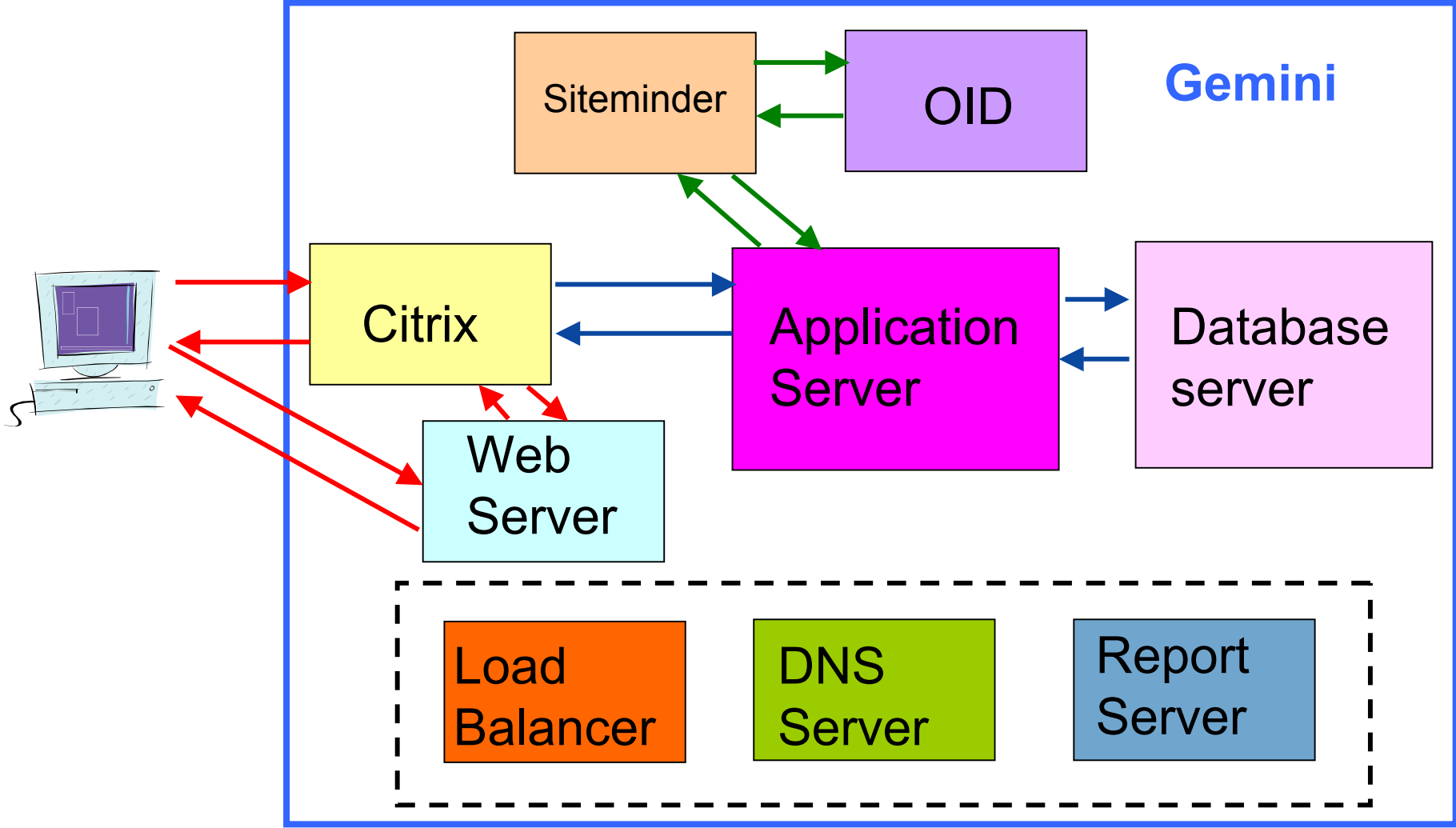
Gemini Transaction Path 2

Gemini Transaction Path 3

Elapsed Transaction Time

Examples

- **Time** =User Screen + Citrix + web server(cache) + Citrix + return to User Screen

- **Time** =API + web server (cache) + return

- **Time** =User Screen + Citrix + web server + Application Server + Siteminder server + OID + Siteminder + Application Server + Database Server + Application Server + Web Server +Citrix + return to User Screen

- Each transaction could require multiple requests for graphic files, java scripts and http redirects etc.