

Catavolt Technology

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Goal: Ubiquitous Computing

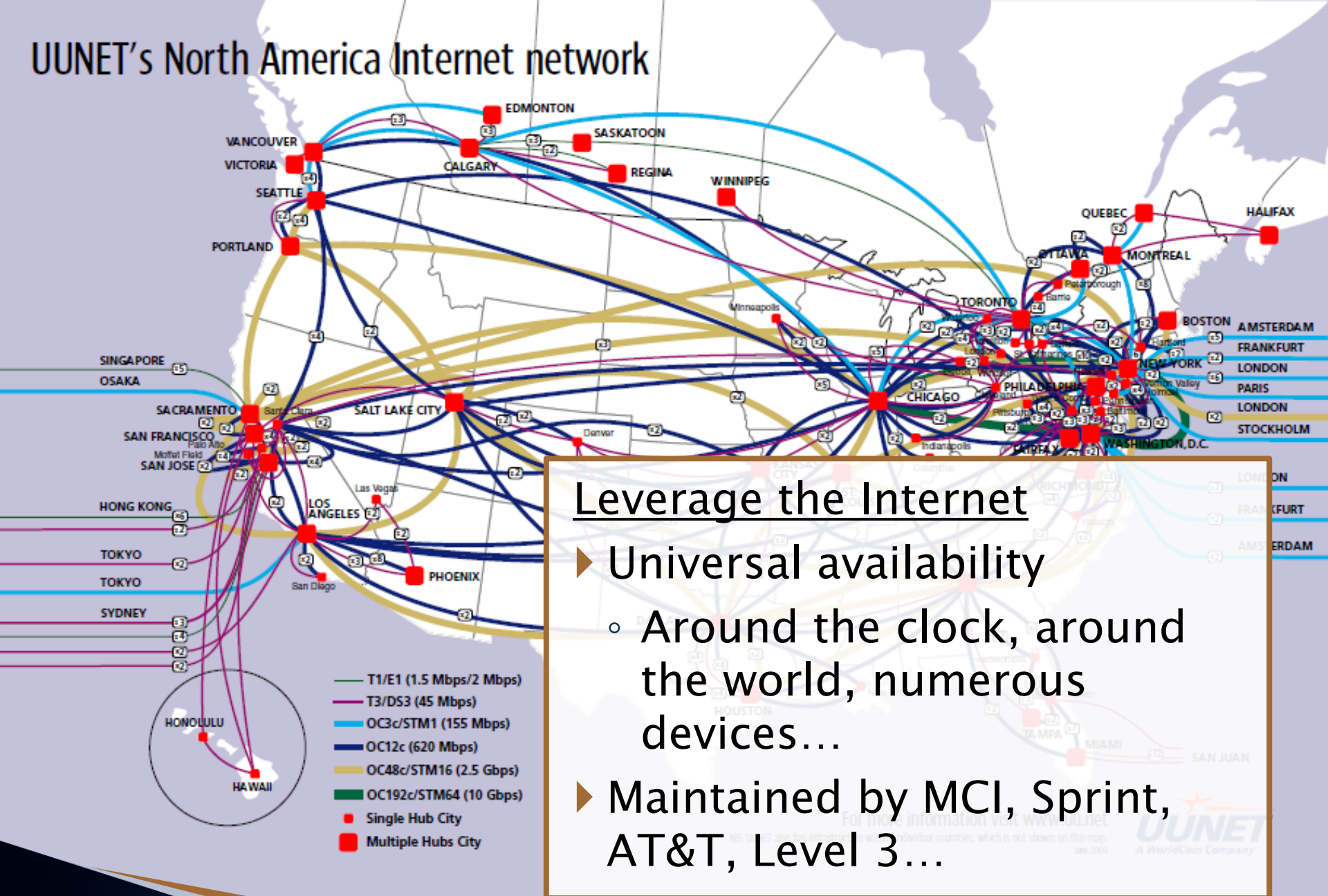


Get to the system...

- ▶ From anywhere
- ▶ At any time
- ▶ With any device



UUNET's North America Internet network



Leverage the Internet

- ▶ Universal availability
 - Around the clock, around the world, numerous devices...
- ▶ Maintained by MCI, Sprint, AT&T, Level 3...

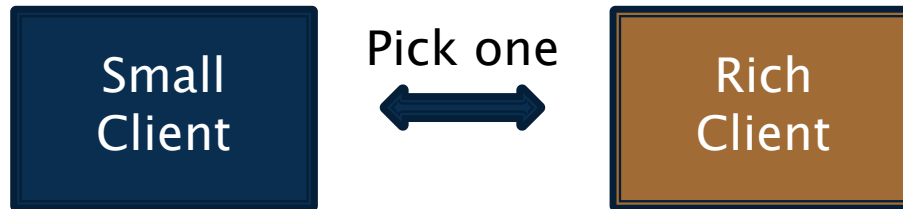


Don't worry about...

- ▶ Minimum hardware requirements
 - Memory, disk, processor speed, operating system
- ▶ Installing applications
 - Managing all the user PC's
- ▶ Fixes and upgrades
 - Distribute & apply to all user PC's at the same time
- ▶ Co-residence
 - This software with that driver on this OS...
- ▶ Bandwidth issues
 - Ensure adequate performance



State-of-the-Market



	Small	Rich
Deployment	Browser	Desktop
Characteristics	Simple Fast	Sophisticated Productive
Applications	Order an article (amazon.com) Fill out a form (Geico) Reserve a ticket (Expedia)	ERP – Highly interactive transactions



The best of both worlds

- ▶ Small, fast client
- ▶ Rich user experience



Small Rich

Deployment	Browser
Characteristics	Simple or Sophisticated Fast
Applications	ERP

*Let us
show
you...*



What you saw

- ▶ Modern user interface
 - Looks like desktop software
- ▶ Good performance
 - What's to explain?
- ▶ Easy access via URL
 - Nothing to install, no pass-through...



The Main Point

- ▶ Very lightweight client...
 - 1 MB, runs in Internet browser
 - Small and fast
- ▶ ...with a rich user experience
 - Feels like desktop software

How can the client be so dumb and act so smart?



Two concepts

SOA

Services Oriented Architecture

- ▶ A design model
 - Client communicates to server via web services
- ▶ Can be SOA without being SaaS

SaaS

Software as a Service

- ▶ A deployment model
 - Hosted software
 - Pay-as-you-go
- ▶ Can be SaaS without being SOA



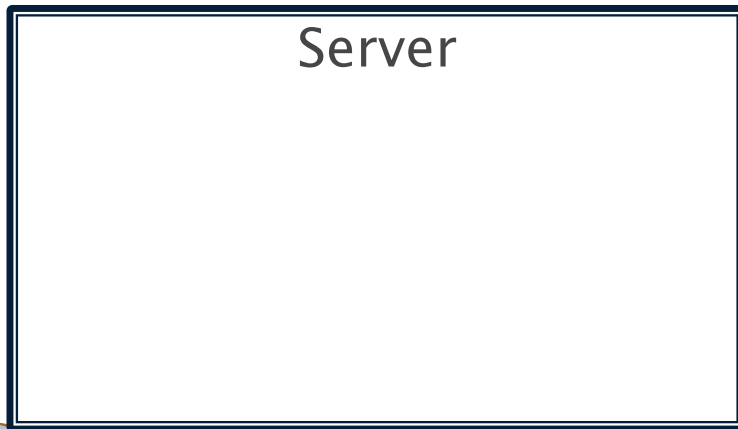
Architecture Highlights



- Very lightweight (1MB)
- Communicates to server
- Renders UI



- All communications between user and server
- We are totally SOA



- Complexity resides here
- Business applications
- UI meta data



User signs on

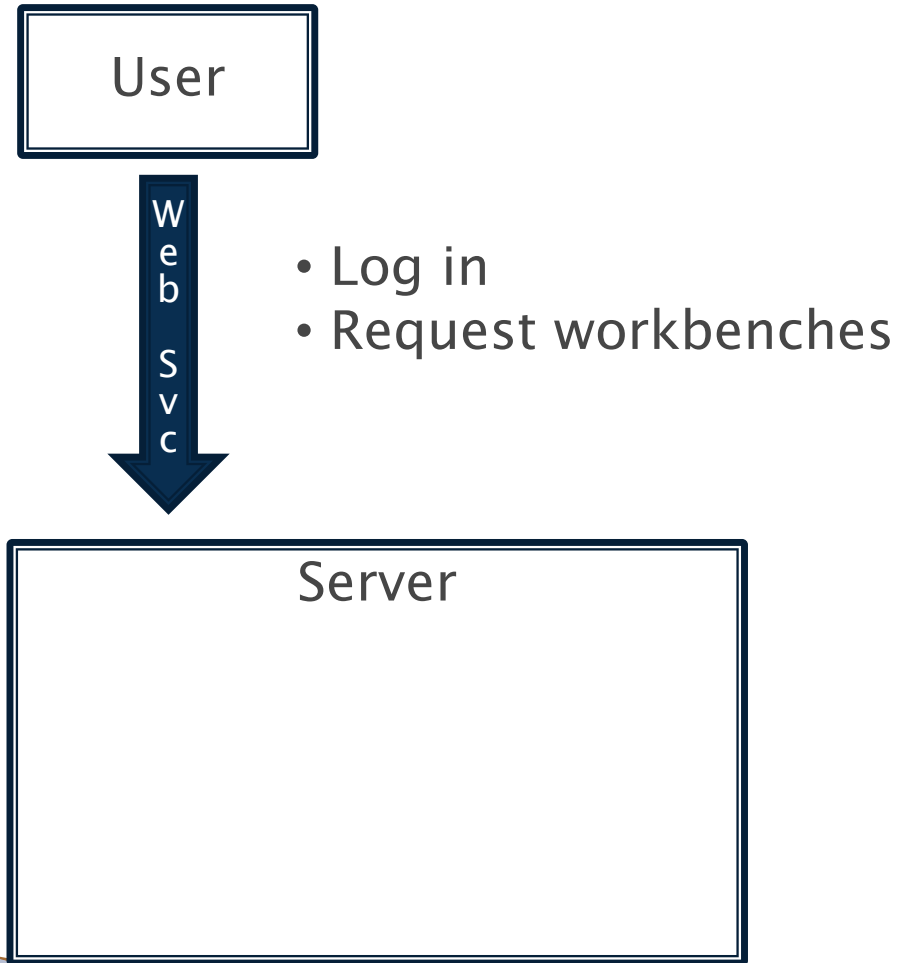
User

- Initial URL to get login screen

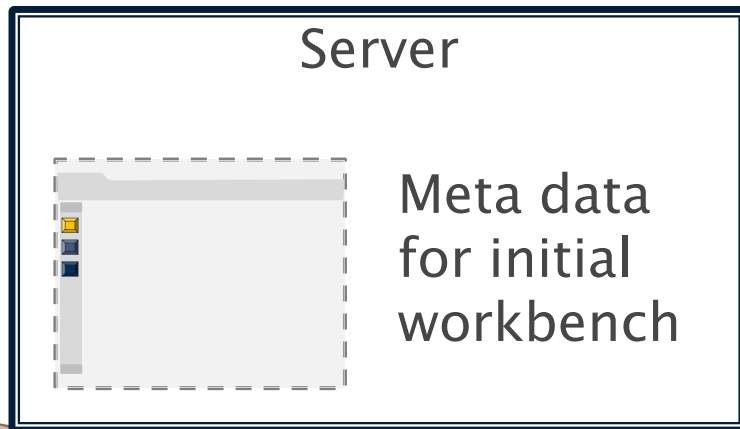
Server



User signs on



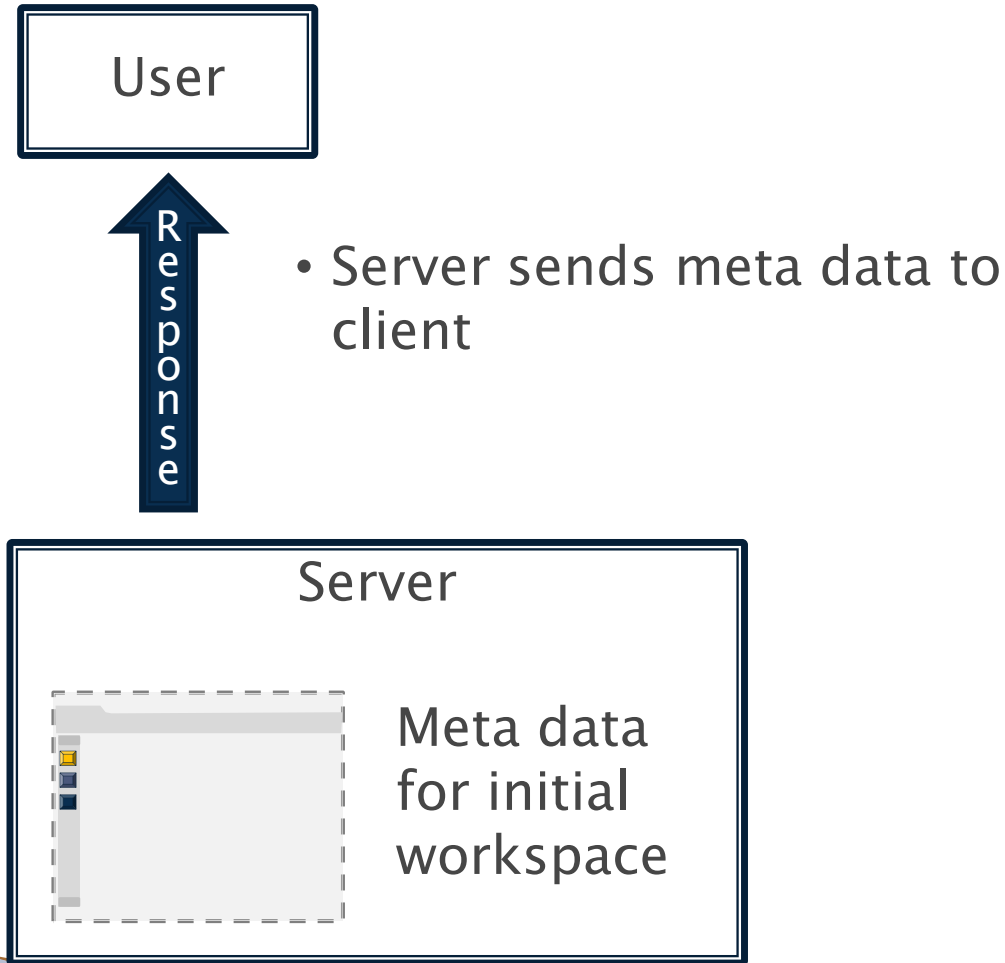
User signs on



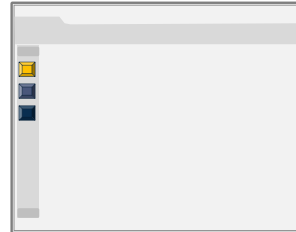
Server materializes initial workbenches



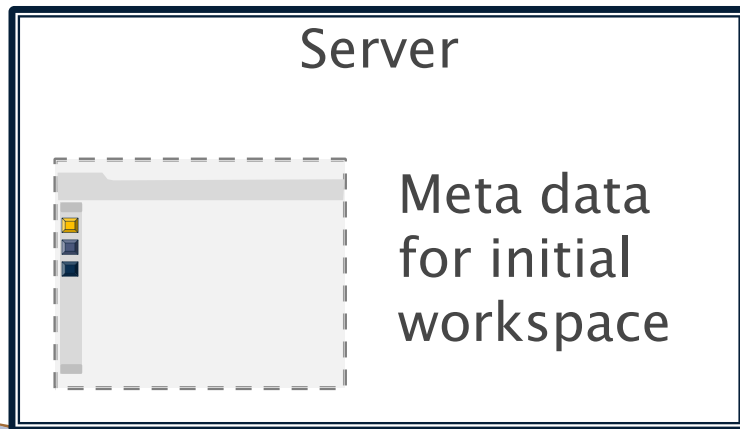
User signs on



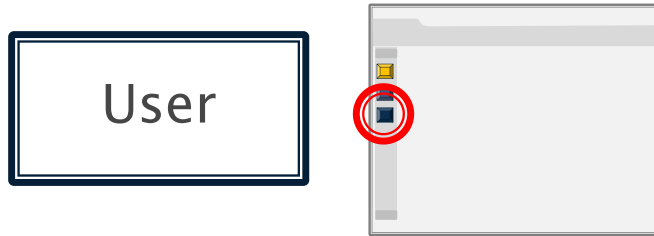
User signs on



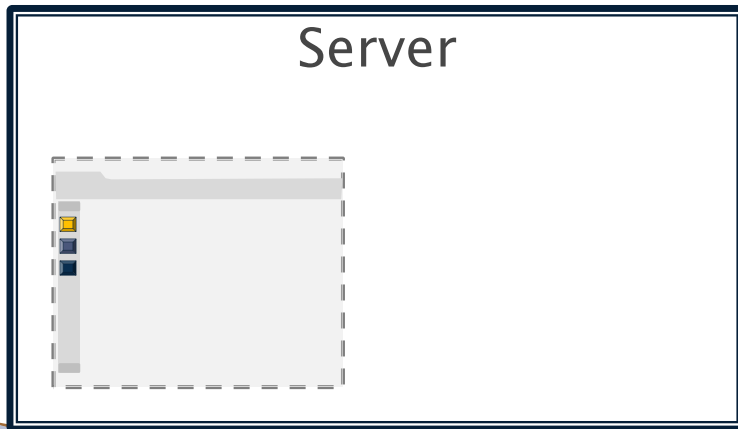
- Client renders the UI



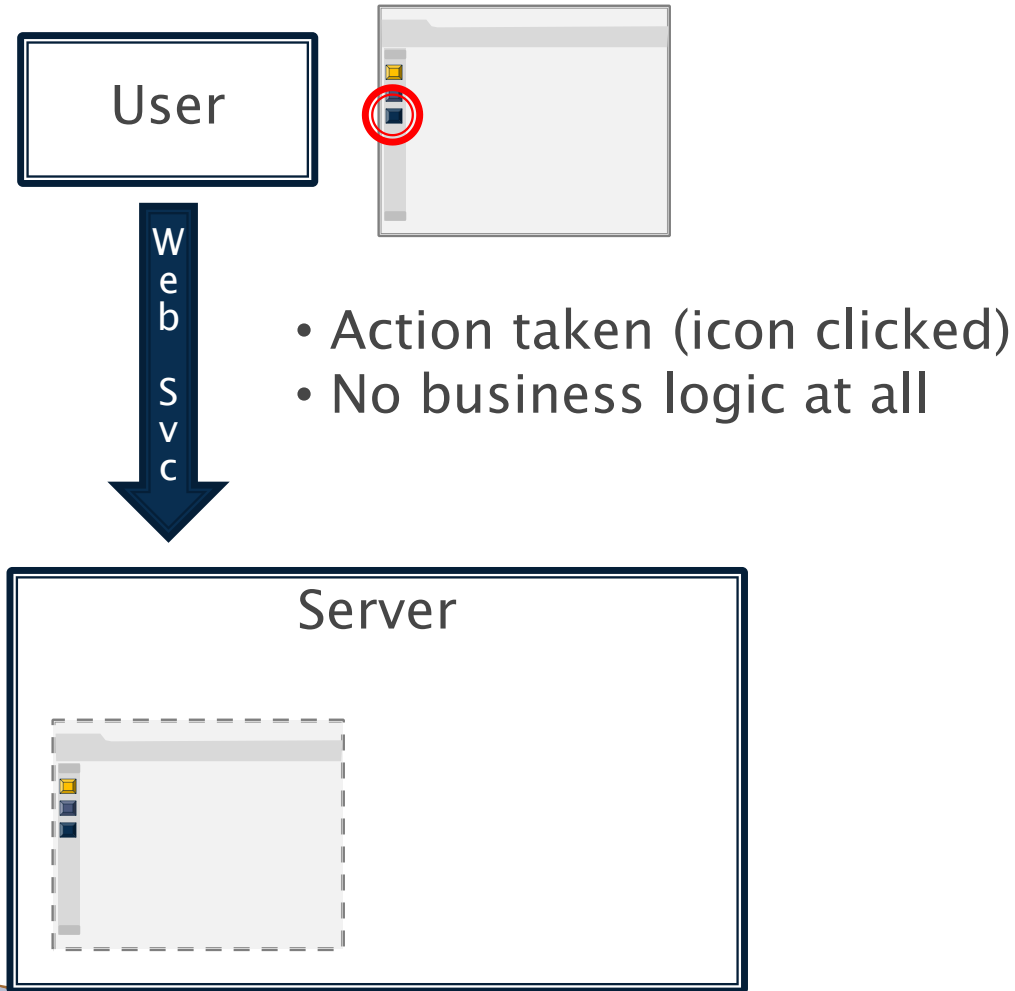
User clicks an icon



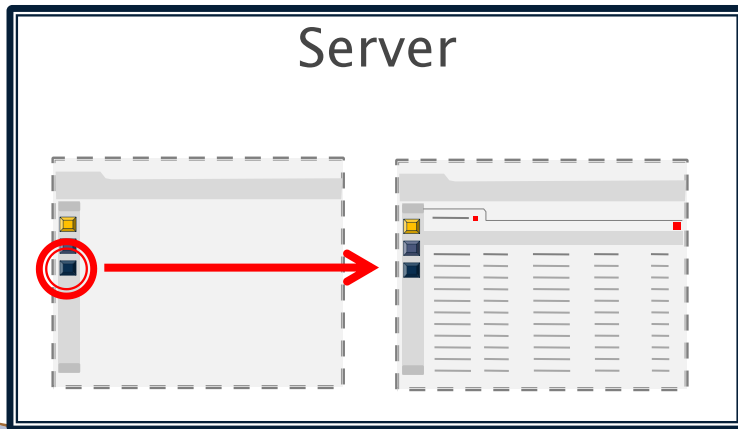
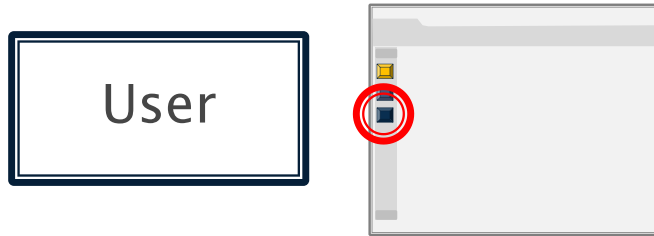
- User clicks an icon



User clicks an icon



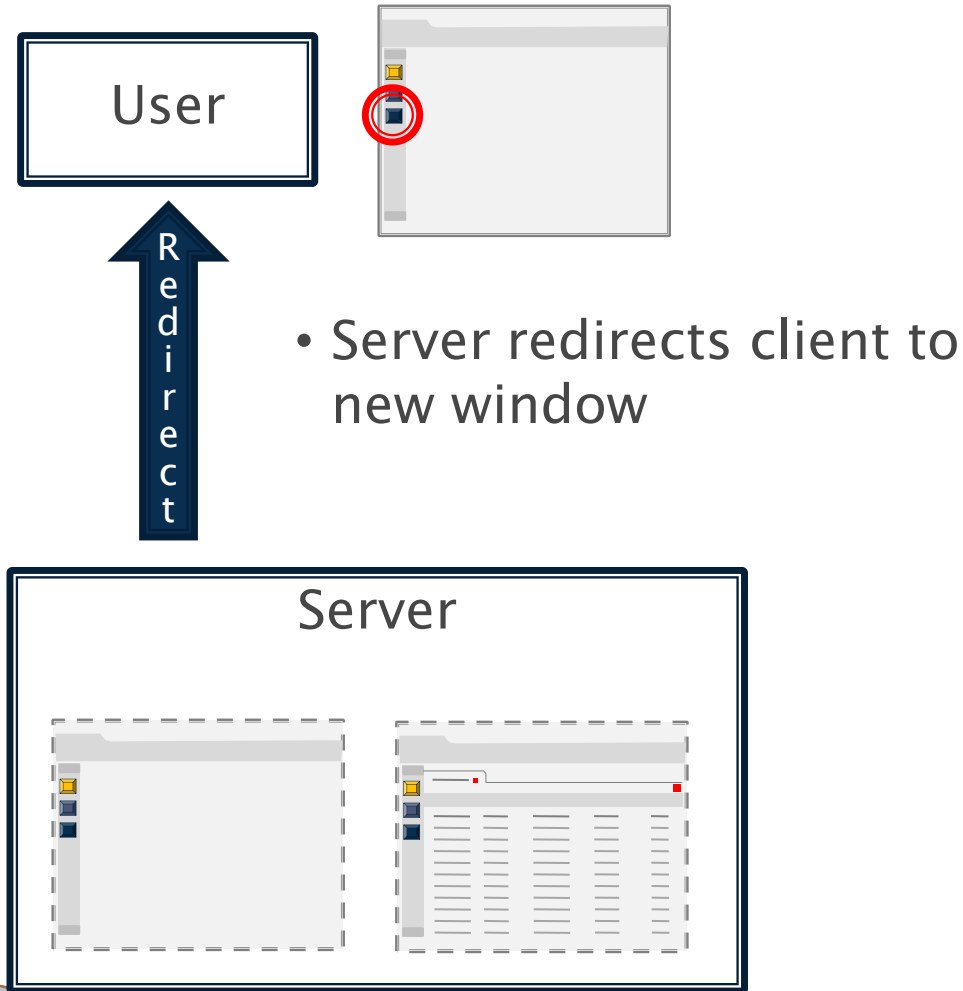
User clicks an icon



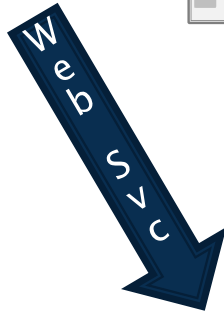
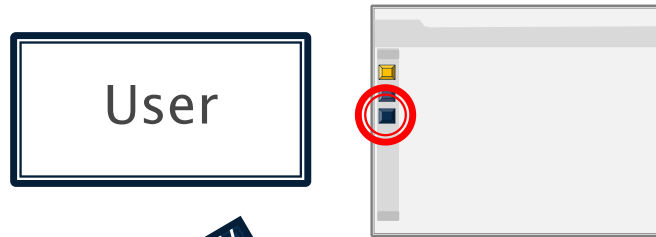
Server interprets action
Application logic: new
window



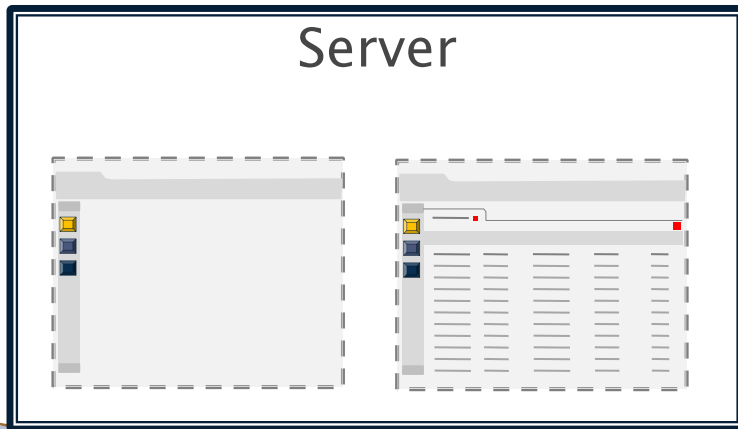
User clicks an icon



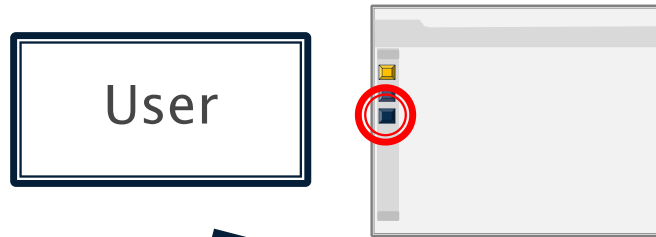
User clicks an icon



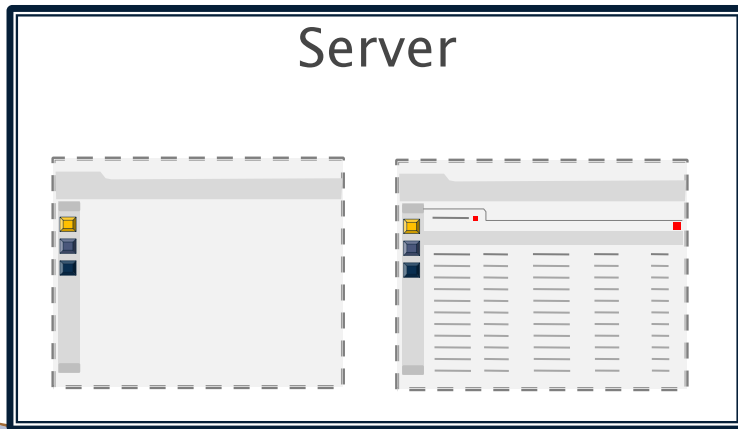
- Client responds to server
- Follows redirection
 - No business logic at all



User clicks an icon

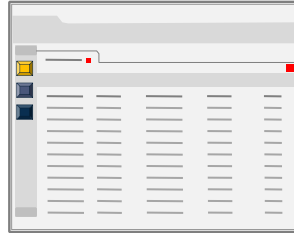


- Server sends meta data to client

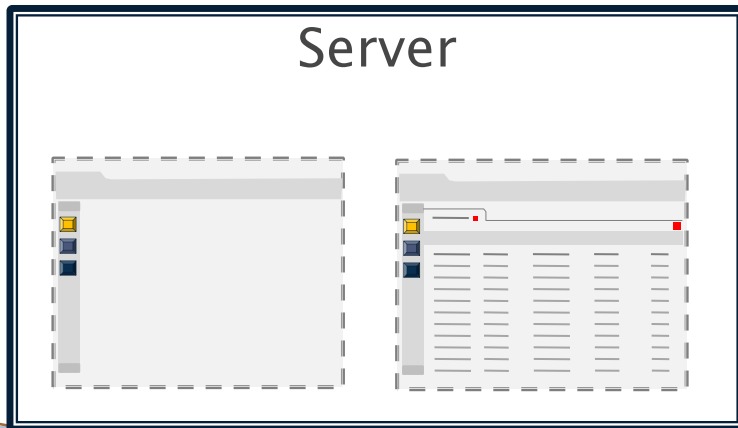


User clicks an icon

User



Client renders UI



When the Users Sign On...

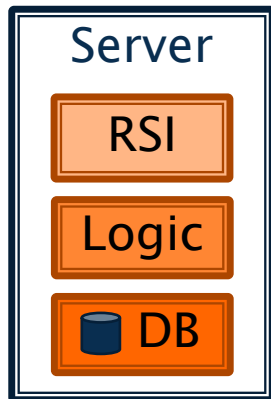
- ▶ First they notice it is *immediately available*
- ▶ Then they notice that it's *fast*
- ▶ Then they see that it works like *desktop software*
- ▶ Some users will notice the *security*
- ▶ Some will have it on their *iPhone* or *BlackBerry*



The new client/server



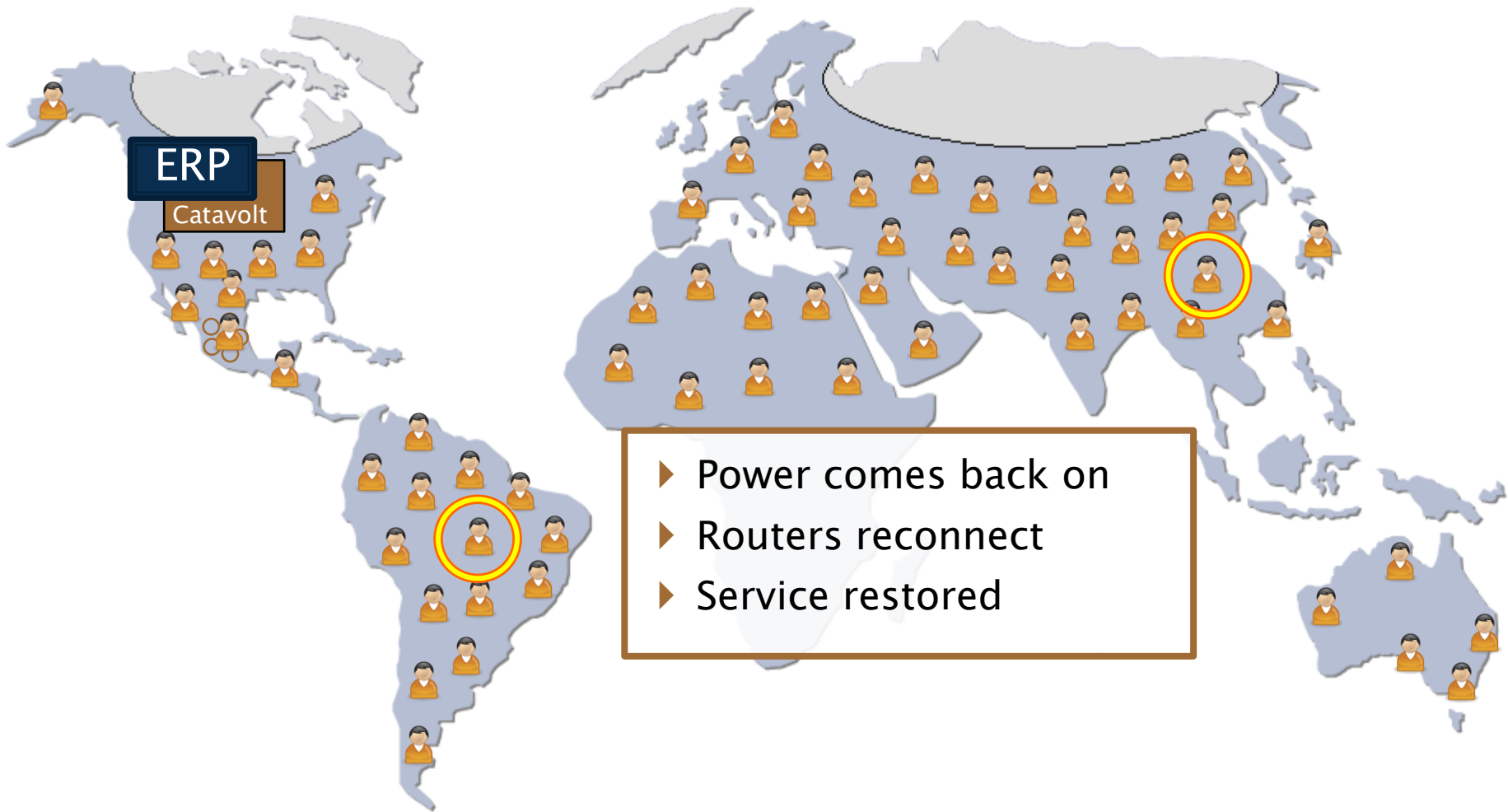
- ▶ Small
- ▶ Fast
- ▶ *Disconnected*



- ▶ Application runs here

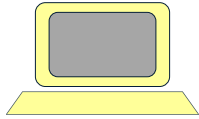


Disconnected client = Stability

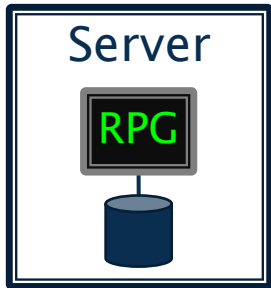


Computing Evolution

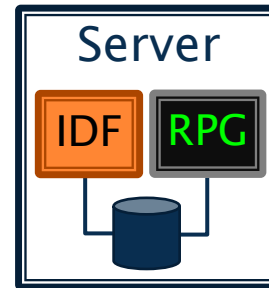
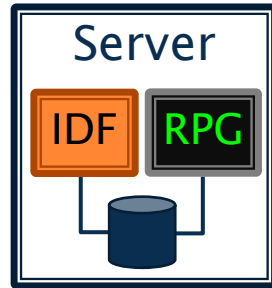
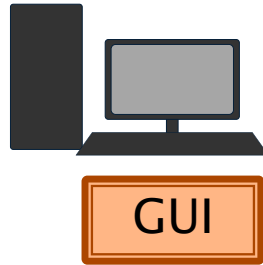
Green Screen



(No install)



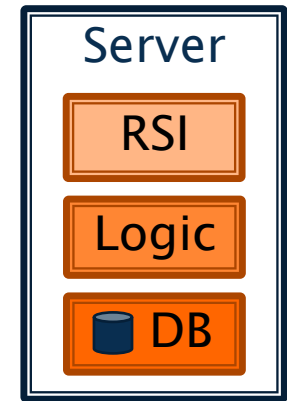
Client/Server



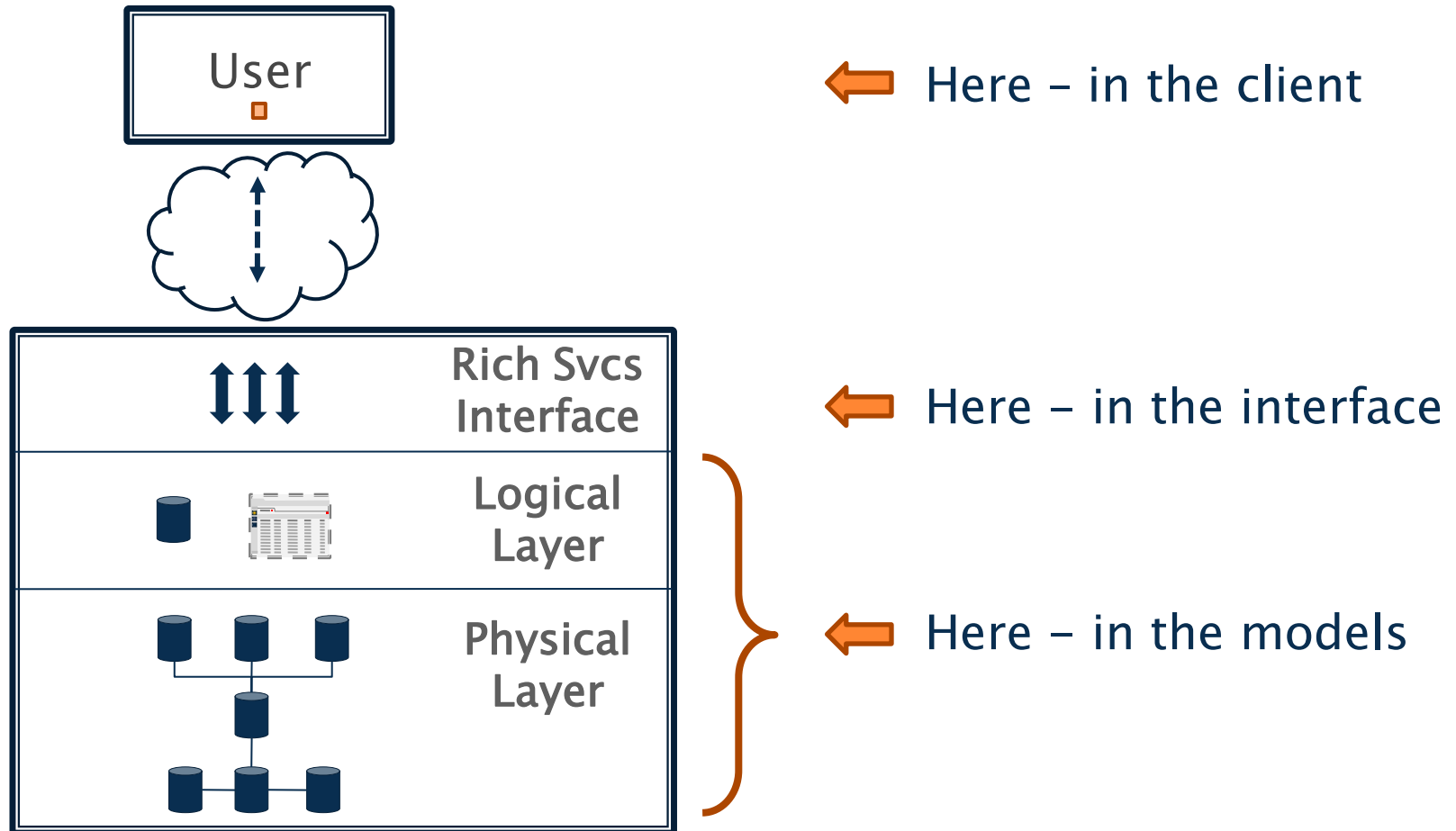
Browser





(No install)



Catavolt Innovation



Small Client

- ▶ We can write custom clients for different applications, devices, etc.
- ▶ Custom applications
 - Storefront 
 - Dashboards 
- ▶ Custom devices
 - iPhone
 - BlackBerry
- ▶ Other formats
 - Desktop widgets
 - PDF's



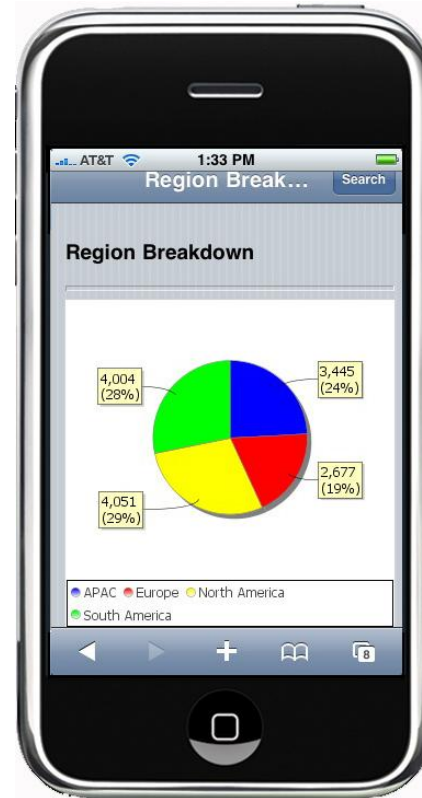
Catavolt technology on the iPhone



Sign-on



Menu



Business
Metric



Data entry



What we use

Database (JDBC-compliant)

PostgreSQL



Web Server



Apache

Servlet Container



Tomcat

Protocols

SOAP
HTTP
HTTPS
AMF

Libraries



Joda Time

Text Standards

XML



JSON

User Interface

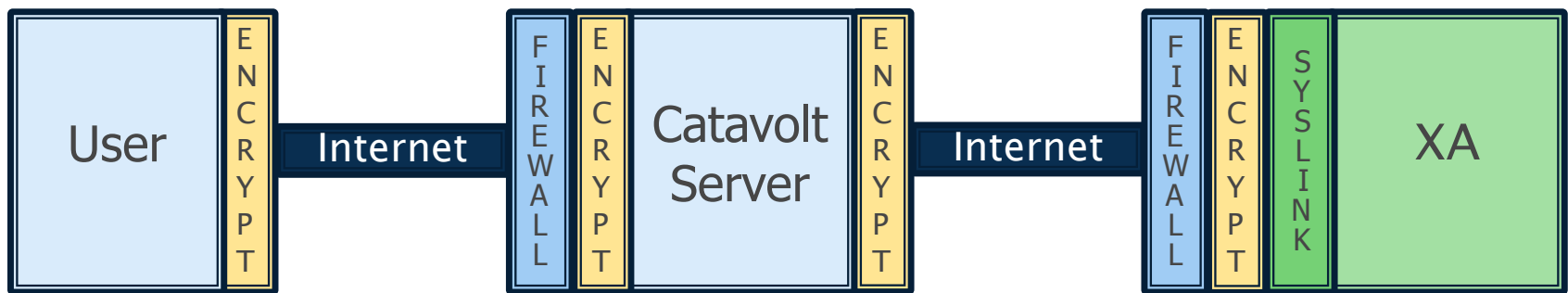


WICKET



Secure accessibility to XA

- ▶ SaaS applications communicating to ERP via public XML interface
- ▶ High performance, worldwide accessibility to XA data and functions

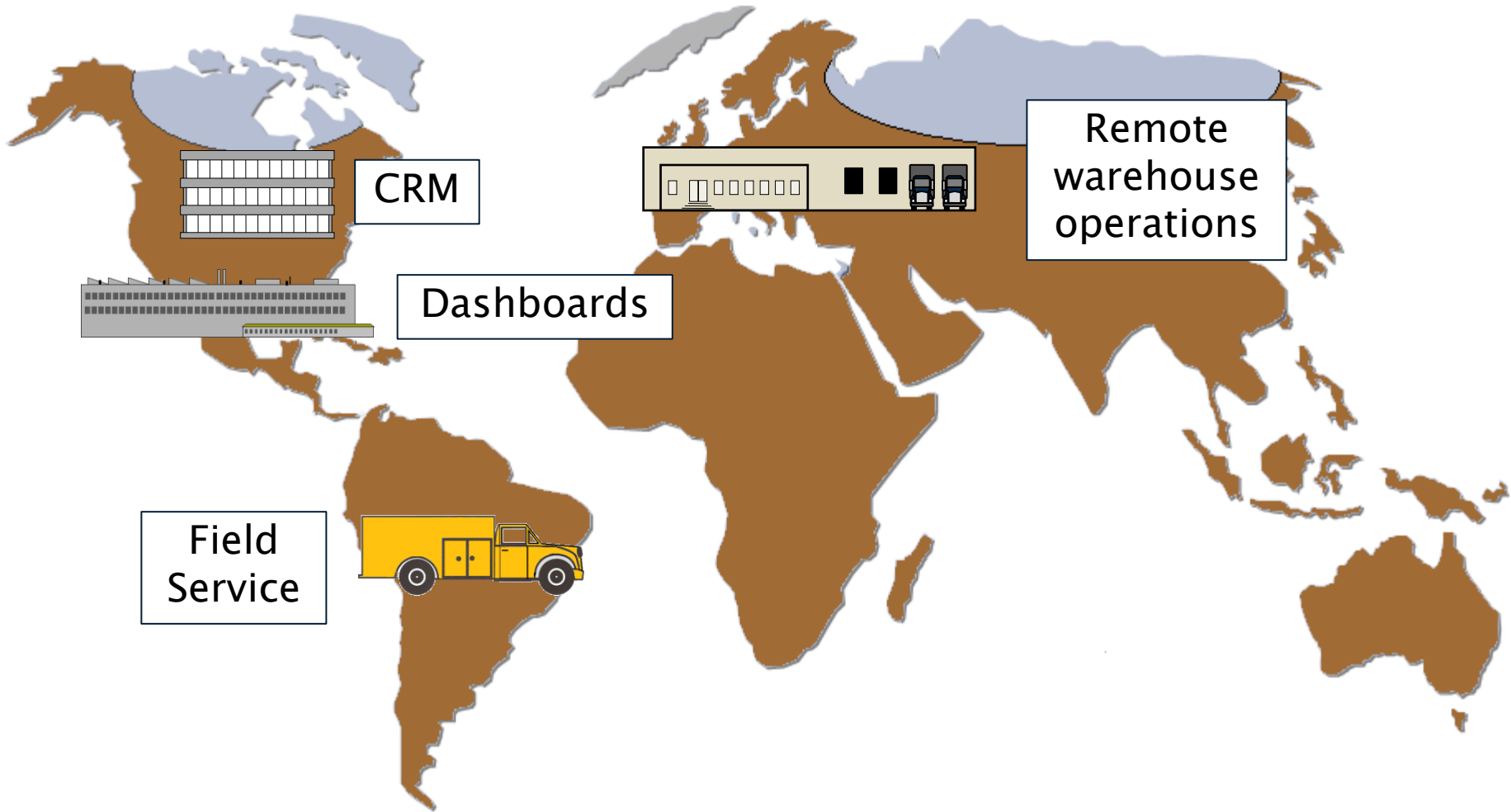


Supplier Web Portal

- ▶ Tighter communication with suppliers
- ▶ They can
 - Accept PO's
 - Propose changes, including split
 - Notify of shipment
 - See and add comments
 - See and upload attachments
- ▶ Interfaces
 - Web for supplier
 - Power-Link for you



What can you do with it?



More products

On Deck

- ▶ CISTECH offerings
 - Pick, Pack, Ship
 - Warranty tracking
- ▶ Business Intelligence

Future

- ▶ Integrator-like product



Summary

- ▶ Easy to deploy and maintain
- ▶ High performance
- ▶ Universally available
- ▶ On-demand or on-premise
- ▶ Interoperable with ERP

