

Technical Architecture
XYZ Application Architecture V17.vsd

Created January 15, 2010 by IS&T Enterprise Architecture • Last Updated on March 17, 2010 at 11:37 AM

System Identification: TimeKeeping
Vendor Name: XYZ
Vendor Web: <http://www.XYZ.com/>
IAM Application Name: ZXY
Also Known As: ZXY
Related Architecture Documents:

Who uses this application? employees except at international sites.

What does this application/system do? Study underway to determine functions of this application.

Related Applications: HAL HR

Ver	Date	Revised By	Revision Description
15	01.15.10	Earl McGehee	creation from ZYX Project v14.vsd – upgrade to XYZ ver 2.1
16	01.29.10	Earl McGehee	update with feedback from architecture review meeting, added additional info about load balancing options, AD integration options.
17	02.12.10	Earl McGehee	update per XYZ Hardware Recommendations Report, add advanced reporting module which requires SSRS server
-	01.01.01		submitted for approval
-	01.01.01		approved by

Itemized Infrastructure Capital Costs Estimates for AFE

Description	Vendor + Model	Qty	Unit Cost	Material Amt	Install Amt
Visual Studio 2008 Standard – for reports development		1	300	300	0
Microsoft SQL 2005 Standard edition, 1 CPU (virtual server) – extra licenses available		4	4,100	4,100	0
AFE SUBTOTAL				\$ 4,400	0
Freight					
Taxes				352	
Contingency %					
AFE TOTAL				\$ 4,752	

Environments

Production environment as shown in this document.

QA environment like production with the following exceptions:

- Only one web/app server + 1 SQL/SSRS reporting server

Development environment like production with the following exceptions:

- All apps and SQL/SSRS on one server

Technical Notes

Software **licensing** restrictions:

Special **storage** configuration:

Special **network** configuration:

PacketShaper configuration:

Disaster Recovery strategy:

Project Information

PlanView ID: 15476

Team Room URL: <http://insidetin.templeinland.com/internal/projects/XYZupgrade/Shared%20Documents/Forms/WebFldr.aspx>

Overall Project Manager: Santa Clause

Technical Lead: Rudolph (no last name)

Project Scope: Upgrade XYZ TimeKeeper to version 6.1. This requires installation/upgrade for these components: XYZ Entry, XYZ Reports

Assumptions

- Maximum of 120 sites
- Server names will not contain any special characters like underscore.

Issues

- XYZ not certified for Windows 7 (only XP and Vista). We should test on both XP and Win 7 PCs to verify there are no problems.
- SSL (HTTPS) encryption between the browser and the web server results in a significant performance penalty but is required to prevent passing user's network passwords in clear text across the network.
- XYZ no longer supports Crystal Reports. Any existing reports will have to be converted to Microsoft SSRS.

Risks

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Business Requirements

Milestone Dates:

- Development environment required:
- QA environment required:
- Production environment required:
- Go Live (production for users): June, 2010

Estimated total users by type:

- Employees on network via WEB: 2,000
- Remote employees (Citrix): >250
- Customers (Internet): none
- Vendors: none

Estimated concurrent users by type:

- Employees on network: 150
- Remote employees (Citrix): 15 (~10%)
- Customers (Internet): 0
- Vendors (VPN/Citrix): 0

Estimated total users in 2 years: no change

Other Requirements:

Connections to other internal systems: HAL HR

Connections to 3rd party systems: none

Hours of availability: 24 x 7 x 365

Requested % uptime: 98%

Scheduled outage window: std monthly

Special Backup Requirements: none

Reporting: 100 reports included with XYZ, 4 custom reports make up 50% of reporting run - 500 reports run every Monday morning.

Storage

Retain history for 36 months

Non Public Information in database? no

Purge & Archive Strategy: use Record Manager archive tool included with XYZ

Disaster Recovery Requirements

Desired recovery time after major building disaster: low priority – 72 hr

Business Requirements provided by

Name: Grinch (last name withheld)

Title: HR

Date: various Jan, 2010 meetings

Technical Questions for Vendor/Developer

Authentication Method: AD

Server Requirements:

- VMware support? yes

- Middleware requirements: JBoss J2EE

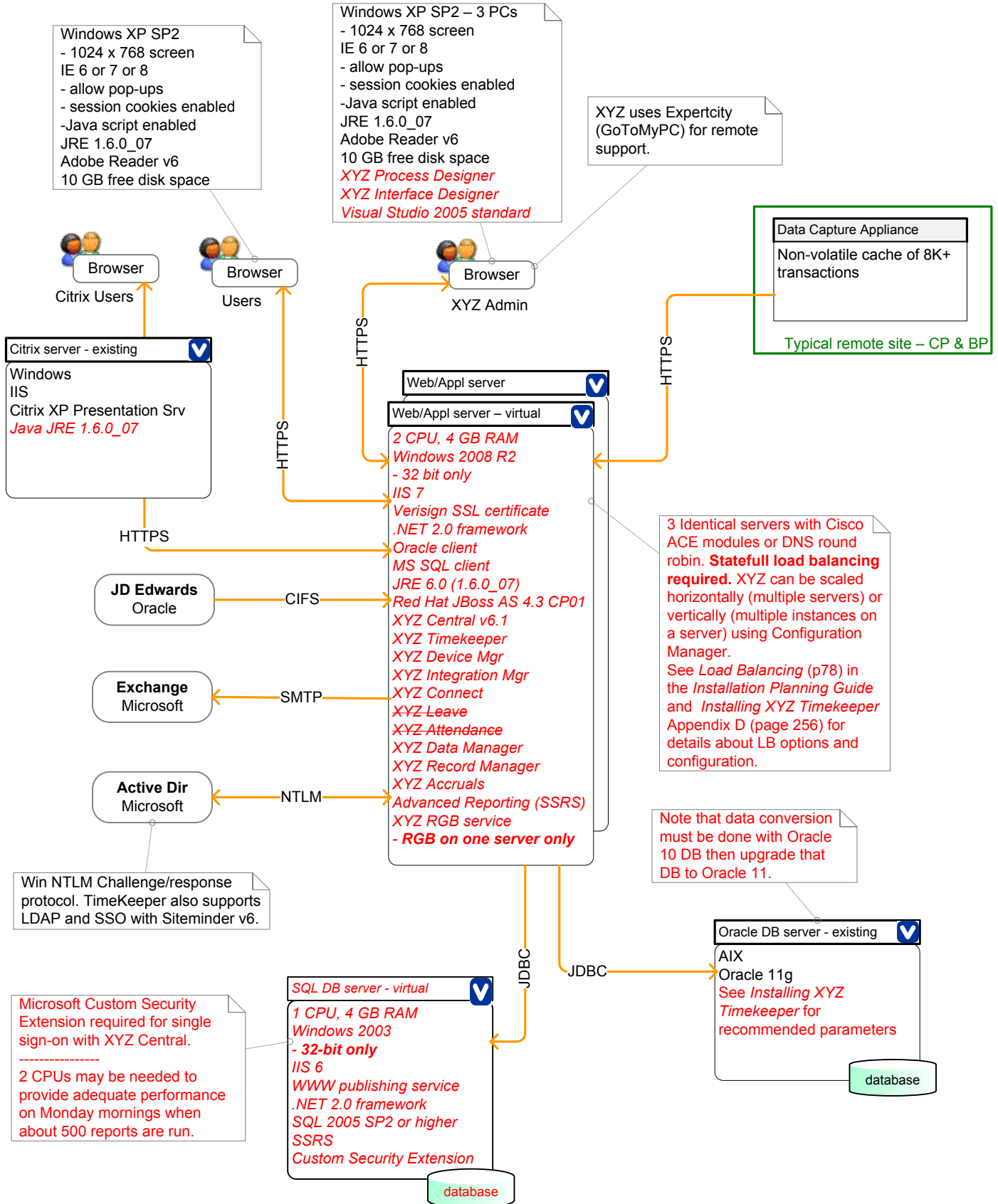
Database requirements: Oracle 11 and SQL 2005

- Database Connection: JDBC from J2EE server

- Client direct DB connection required? no

Client requirements: IE 7 or 8 (no Win 7)

Licensing restrictions: server based



Graphics Conventions:

- Internal Application
- External Application
- Task or process
- Hardware device
- Virtual device
- Real-time data move
- Batch data movement
- Red, italics=new/changed item

Note: This application view provides an overview of the application for infrastructure staff and may not completely reflect the actual application functionality. Physical connections may not resemble these logical connections.

Name Changes from ver 5:

- XYZ Scheduler is now XYZ Forecast Manager
- XYZ Connect is now XYZ Integration Manager
- Data Collection Manager is now XYZ Device Manager