



UiB – 1. april 04

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Sun Microsystems

Agenda

- Java Desktop System (JDS)
 - StarOffice / OpenOffice
 - Videre utvikling
- Java Enterprise System (JES)
- Konsept for fremtidens desktop

A dark, atmospheric hallway with a grid ceiling. A bright light source at the end of the hallway creates a strong, wide beam of light that illuminates the floor and walls, casting long shadows. The overall mood is mysterious and futuristic.

JDS – Java Desktop System

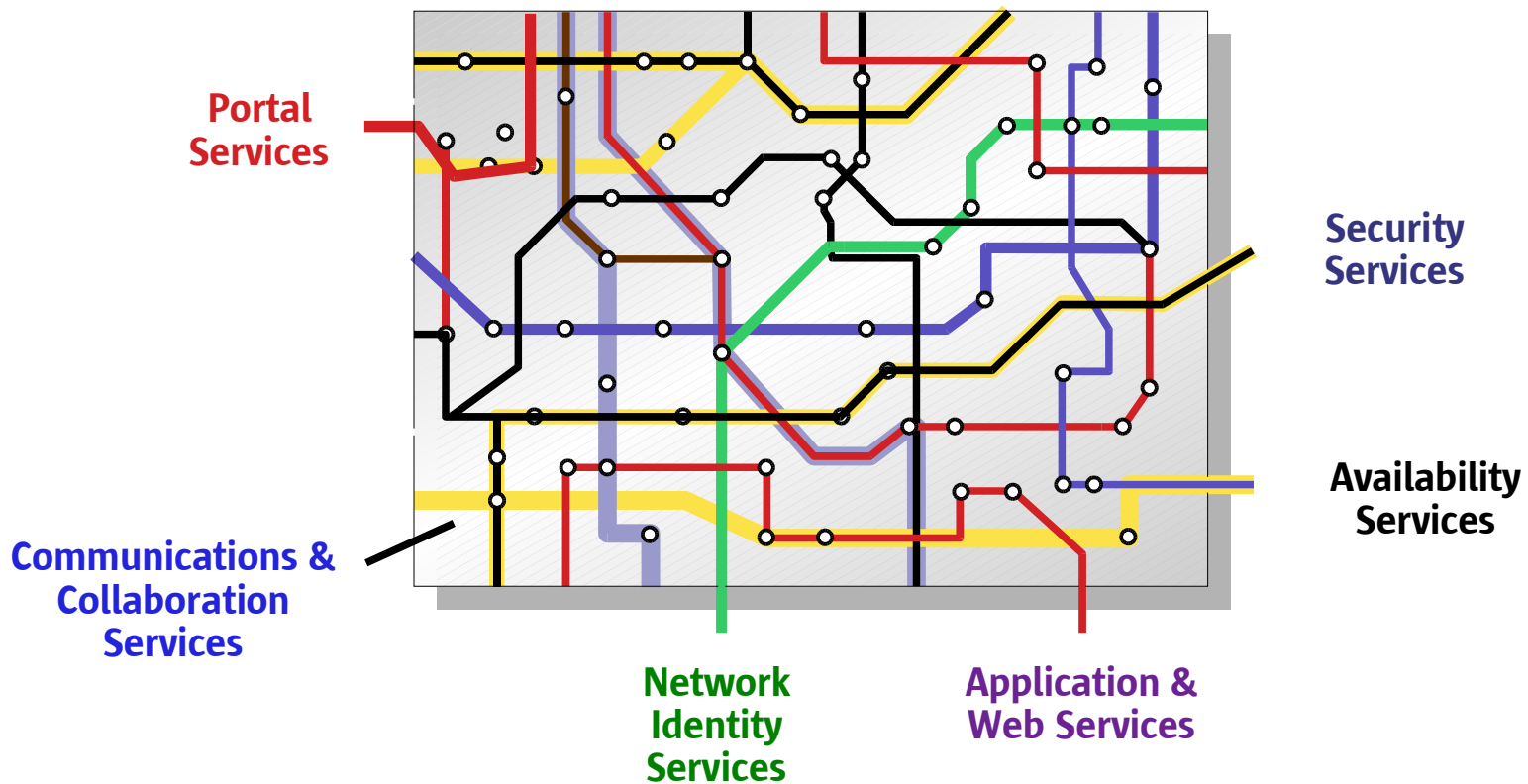
Java Desktop System

- Linux Operating system
- Familiar look and feel
- Office, email, messaging, browser and more
- Enterprise version to follow shortly ...

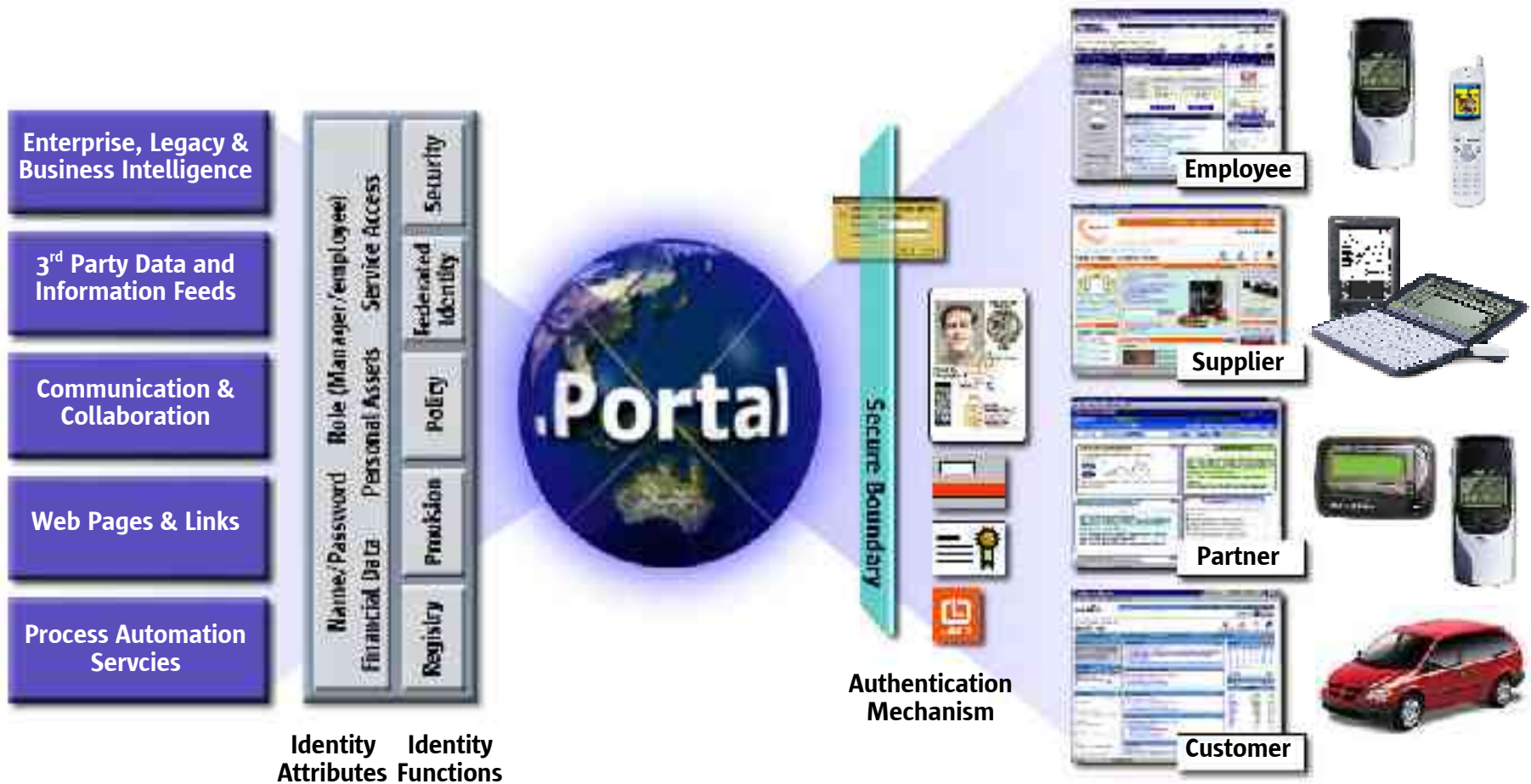
A dark, atmospheric hallway with a bright light source at the end, casting long shadows. The scene is dimly lit, with a strong blue and white glow emanating from an open doorway or window at the far end of the corridor. The walls and ceiling are dark, and the floor reflects the light from the opening. The overall mood is mysterious and futuristic.

JES – Java Enterprise System

Agenda



Introduction



Key Features

- Common installation framework
- Common schema across all services

Committed to Standards

Developer

JSR 168

J2EE

XML

JCA

JSP

HTML

RSS

Java Servlets

Web Services*

*WSDL

*WSRP

*SOAP

*UDDI

Security

SSL2/3

TLS

JSSE

Radius

RSA

SecureID

LDAP

X.509 certificates

CryptoCard

Java Card

SmartCard

RC4

DES

3DES

AES

Liberty

Mobile Access

J2ME

xHTML

cHTML

HDML

HTML

WML

JSR 188

voiceXML

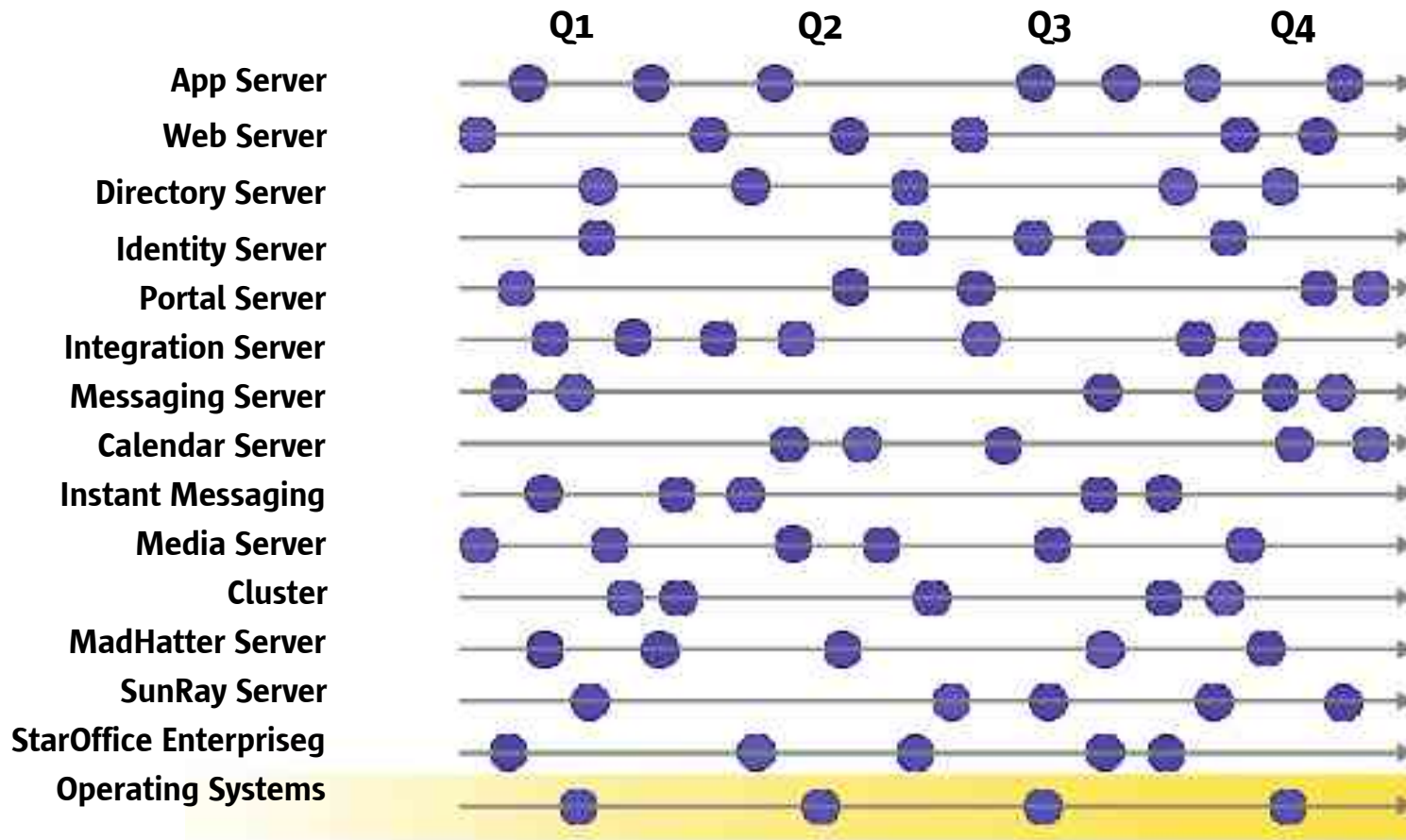
WAP 2.0

OS Support Roadmap

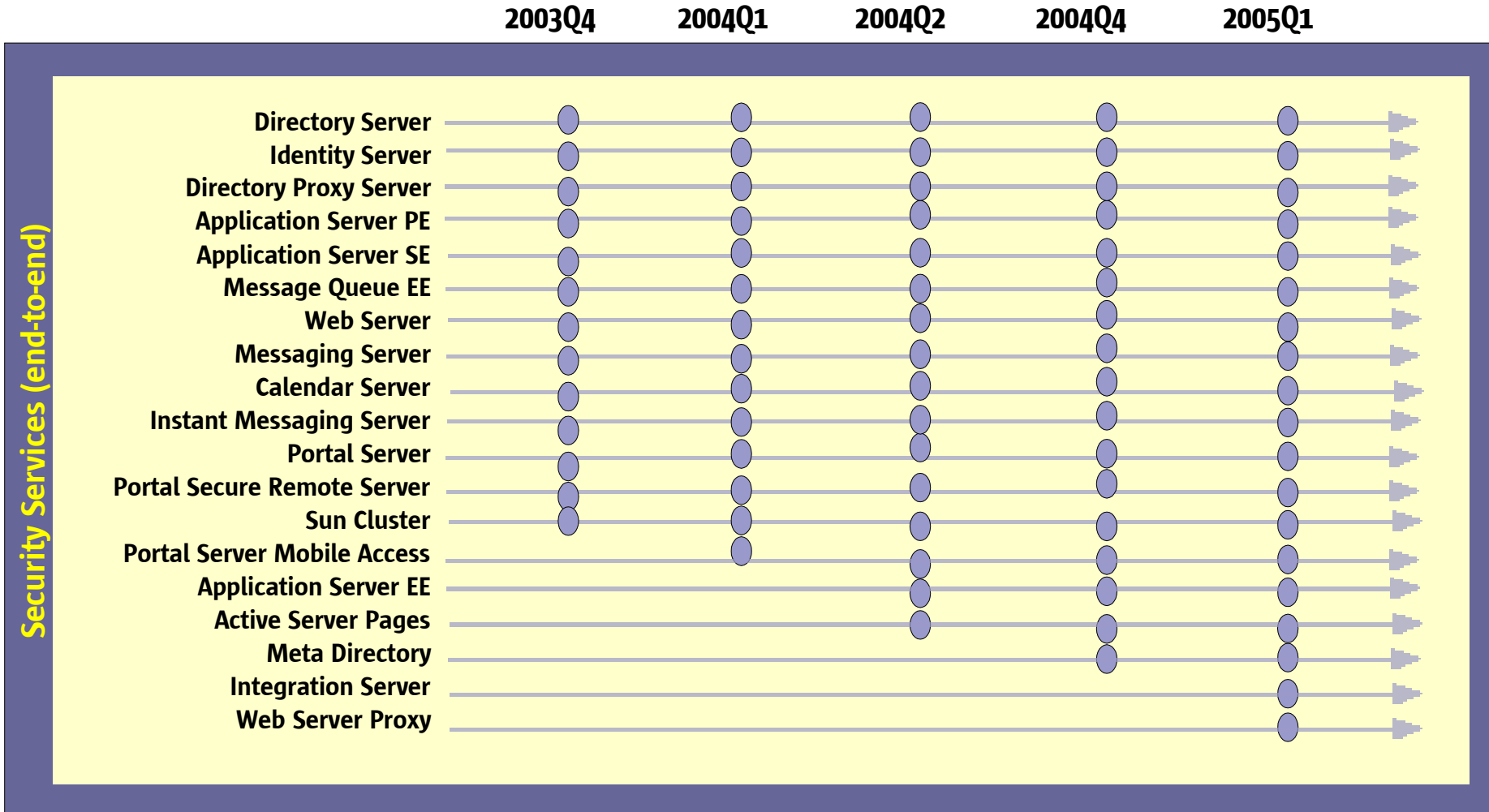
Roadmap for OS Support	Release 1	Release 2	Release 3	Release 4	Release 5
Solaris™ SPARC® Processor	✓	✓	✓	✓	✓
Solaris™ X86	✓	✓	✓	✓	✓
Trusted Solaris™ (SPARC®/X86)					✓
Linux		✓	✓	✓	✓



Old “Systematic” Approach



Sun Java™ Enterprise System Delivery



Security Services (end-to-end)

New Licensing Model

... single price and single
license for software,
support and services ...

Single Pricing

\$/Employee/Year

\$100

YOU CAN DEPLOY TO **ALL** YOUR CUSTOMERS
WITH NO ADDITIONAL CHARGE

EDU Pricing

\$/faculty
employee/Year

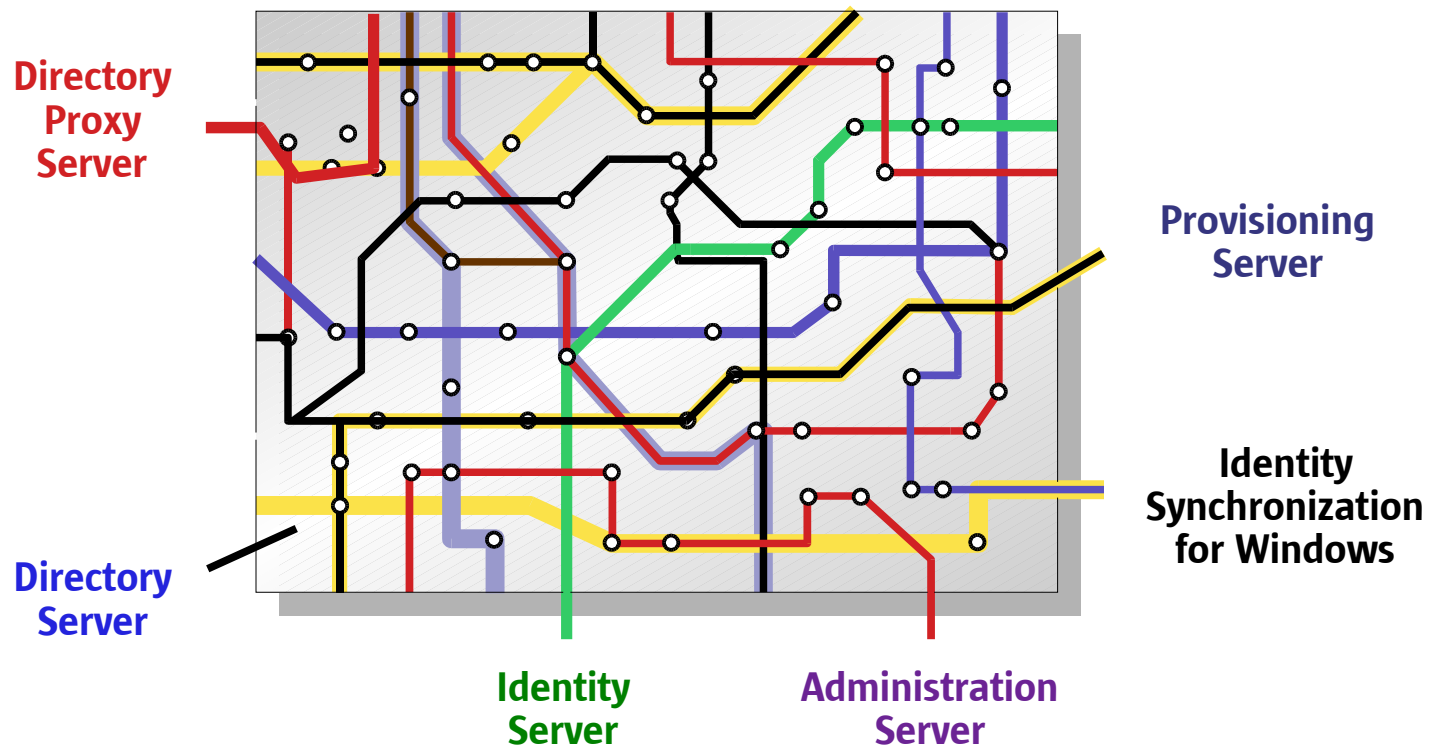
\$50

YOU CAN DEPLOY TO **ALL** YOUR USERS/STUDENTS
WITH NO ADDITIONAL CHARGE

A dark, atmospheric hallway with a bright light source at the end, casting long shadows and a blue glow. The scene is dimly lit, with a strong blue light emanating from the end of the hallway, creating a dramatic and futuristic feel. The walls and ceiling are dark, and the floor is also dark, with the light source creating a strong contrast and casting long, dark shadows.

Network Identity Services

Network Identity Services



Directory Server

- 64-bit addressing and linear scalability up to 12 CPUs enables data center consolidation
- 4-way multi-master replication enables high availability, reliability and disaster mgmt initiatives
- Enhanced replication protocol (asynchronous, compression) enabling WAN replication
- Attribute encryption, fractional replication, multiple password policies help address government regulatory compliance, privacy issues
- Multi-protocol front end design – LDAP, DSML, futures

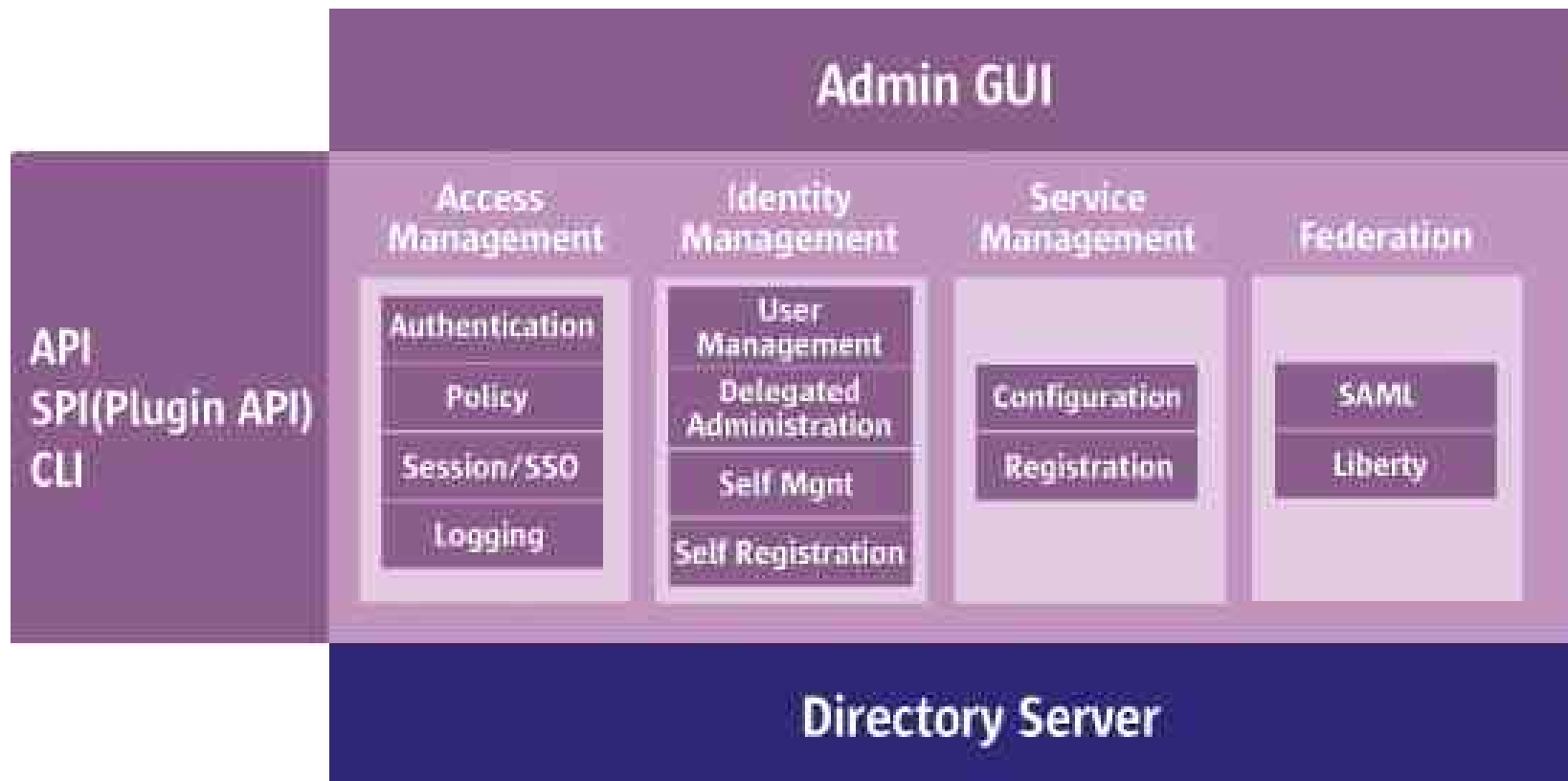
Directory Proxy Server

- Provides firewall-like protection for directory
- Protects against DoS attacks
- Load-balancing, high-availability support
- Schema mapping

Identity Server

- Directory Proxy Server
- Directory Server
- Identity Server
- Administration Server
- Identity Synchronization for Windows
- Provisioning Server

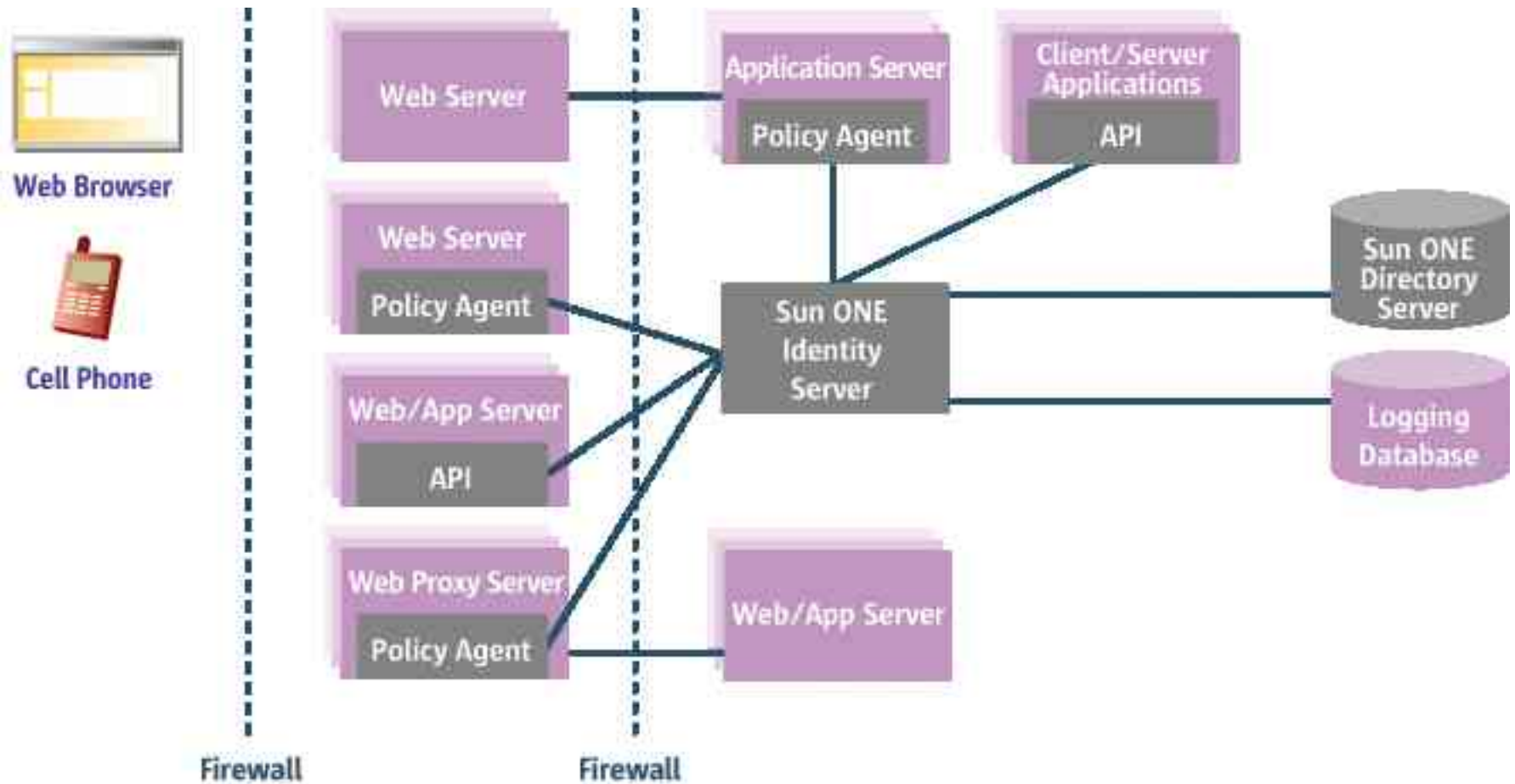
Identity Server Core Components



Multiple Authentication Methodes



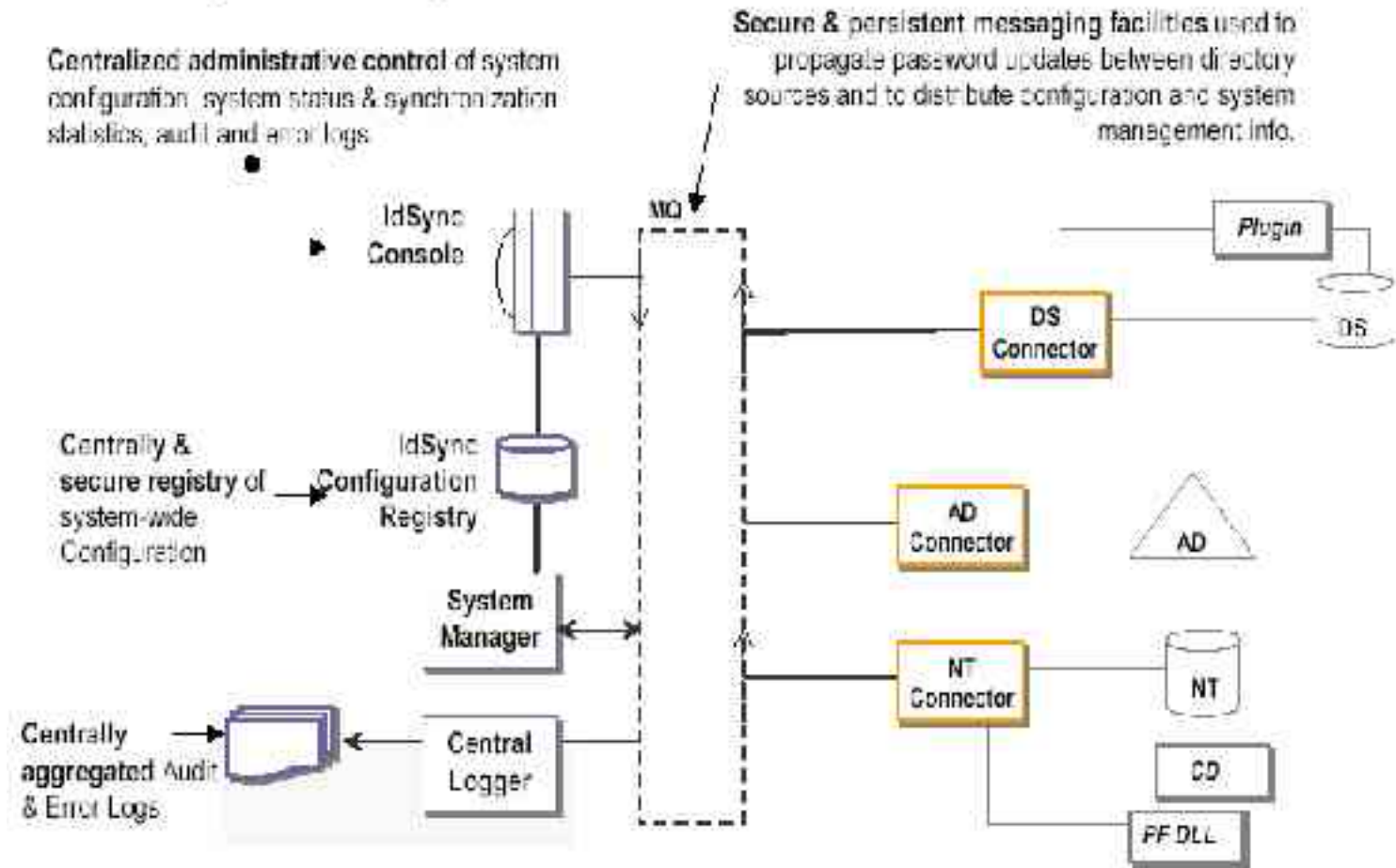
Identity Server Deployment Architecture



Identity Synchronization for Windows

- Bi-directional Password Synchronization
- Bi-directional User Entry creation Synchronization
- Users can change passwords either
 - In the Windows environment using the Ctrl-Alt-Delete
 - Using any LDAP enabled password changing application
- Synchronize attributes other than passwords
- Configure Synchronization User Lists
 - Interactively select which users in a directory or directory domain are synchronized

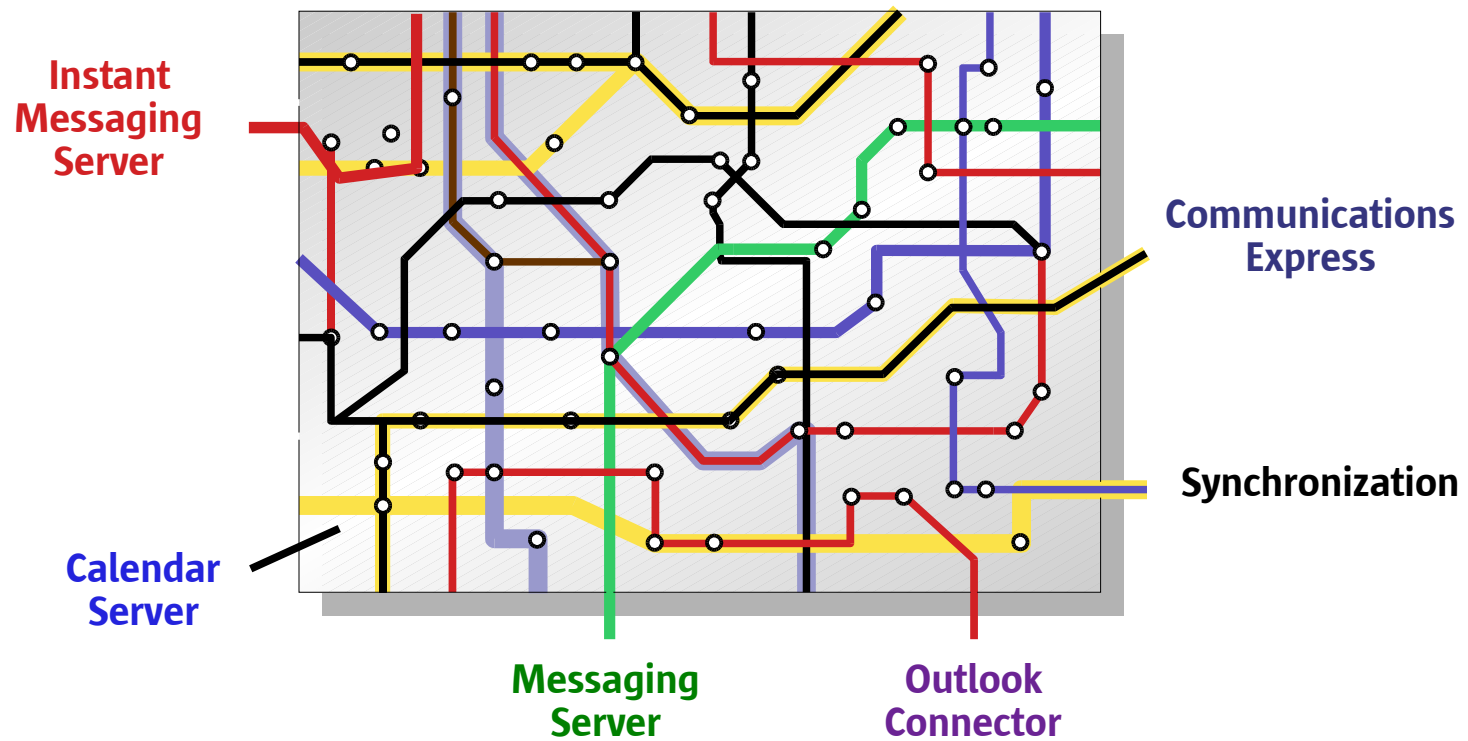
Identity Sync Architecture



A dark, atmospheric hallway with a grid ceiling. A bright doorway at the end of the hallway casts a long, glowing beam of light across the floor, creating a strong contrast with the surrounding shadows. The walls are dark and textured, and the overall mood is mysterious and focused.

Communications & Collaboration Services

Communications & Collaboration Services



Instant Messaging Server

- Virtual Domain

Calendar Server

- Virtual Domain
- Outlook and Evolution support
- SSL

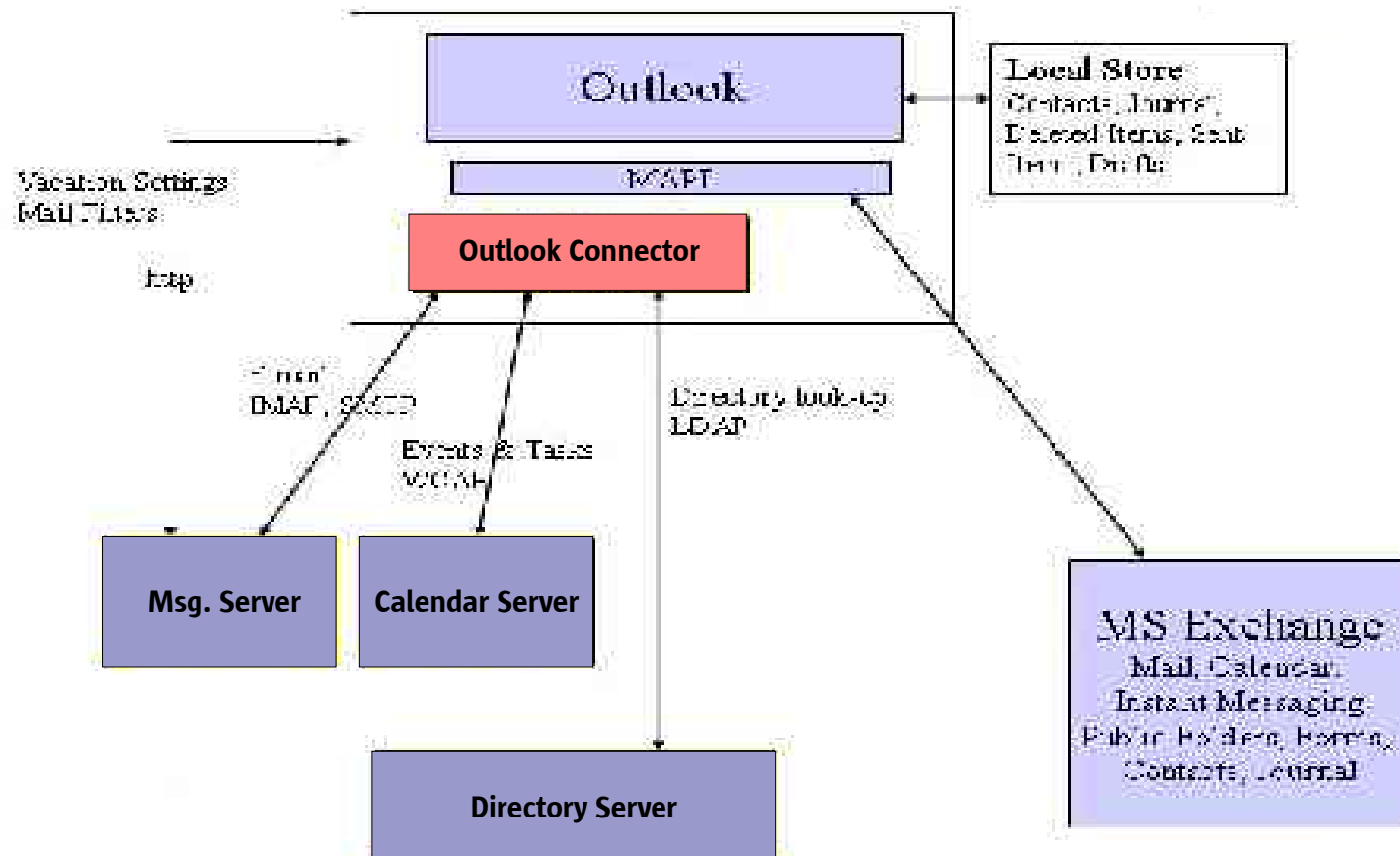
Messaging Server

- Anti-spam and virus protection via Brightmail and SpamAssassin
- Improved message processing and performance with LMTP support
- Outlook and Evolution support

Outlook Connector

- Instant Messaging Server
- Calendar Server
- Messaging Server
- Outlook Connector
- Synchronization
- Communications Express

Outlook Connector Architecture



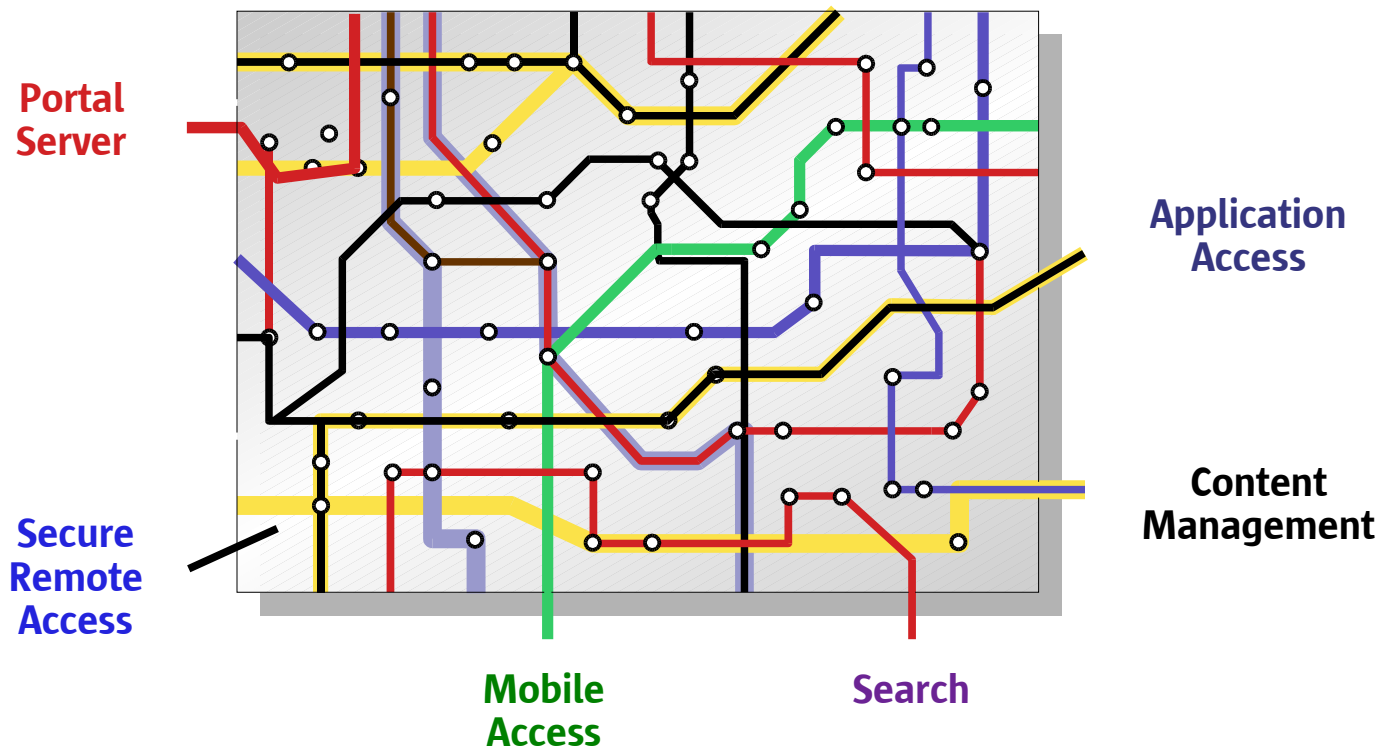
Communications Express

- Instant Messaging Server
- Calendar Server
- Messaging Server
- Outlook Connector
- Synchronization
- Communications Express
- Demo

A dark, atmospheric hallway with a grid ceiling. At the far end, a doorway is brightly lit, casting a long, sharp beam of light across the dark floor. The walls are dark and textured, and the overall mood is mysterious and focused.

Portal Services

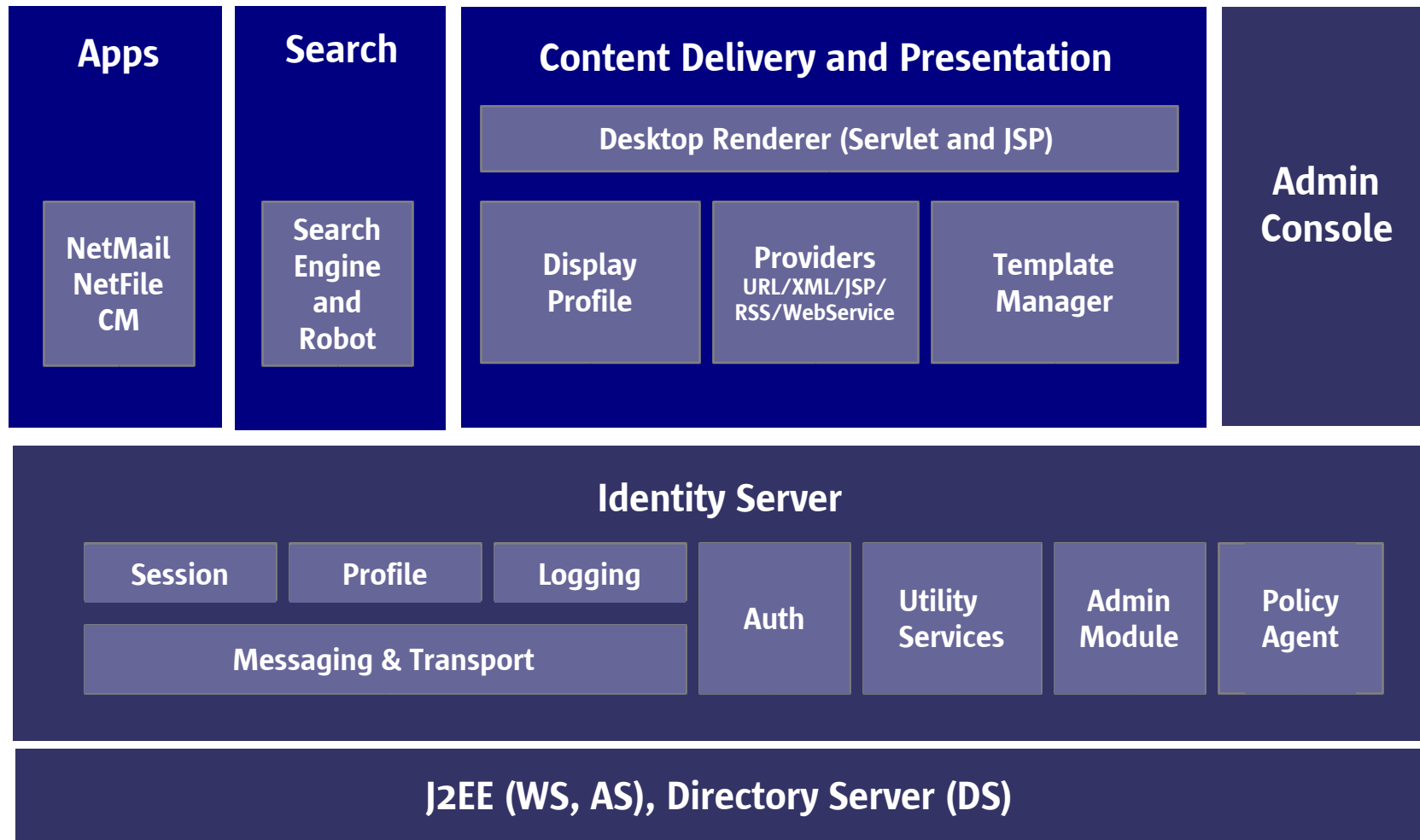
Portal Services



Portal Server

- Portal support for collaboration suites from MS and Lotus
- Multi-application server support
- Standards based – JSR 168, 188, WSRP, Liberty
- Multi-platform support – Linux, Solaris x86, Solaris, Windows

Portal Server Architecture



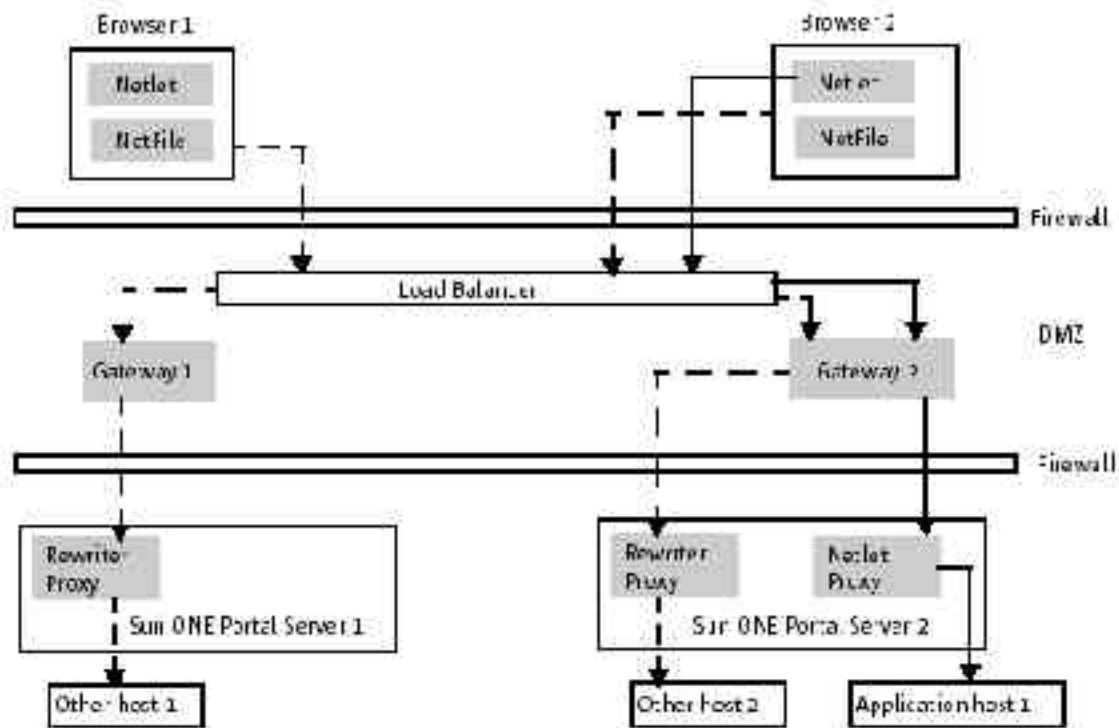
Secure Remote Access Key Features

- Universal Web Access
- VPN-on-Demand
- No Client Software
- Multiple Encryption Methods
-

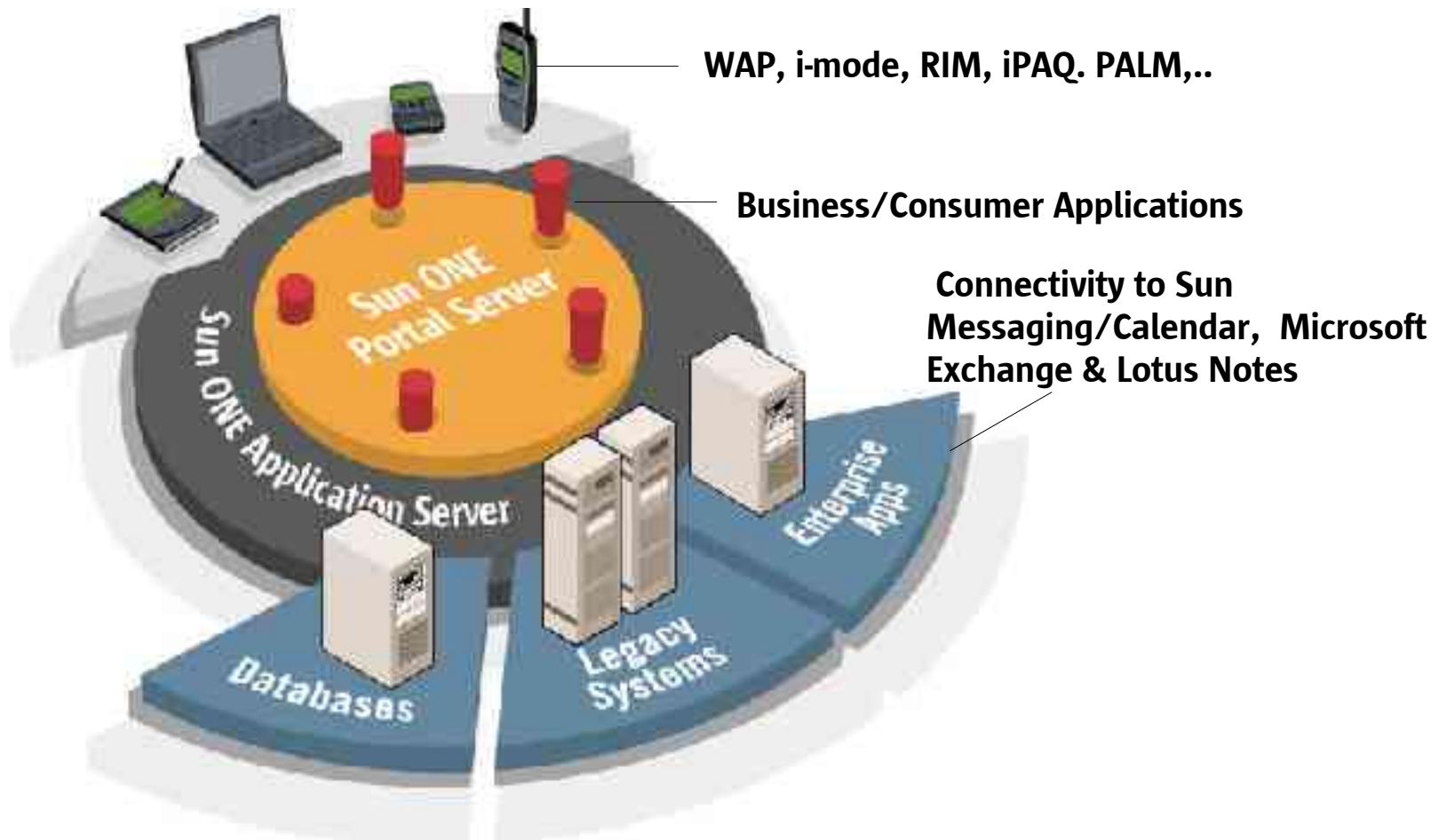
Secure Remote Access Components

- Gateway
- Netlet
- Netlet Proxy
- NetFile
- Rewriter
- Rewriter Proxy

Secure Remote Access Architecture



Mobile Access



Mobile Access

- Intelligent Rendering for Any Device Access
- Support for , HDML, xHTML, cHTML, WML and HTML
- WAP 2.0 and JSR 188 Support
- J2ME Application Generation
- VoiceXML
- Mobile Groupware Connectivity
- Synchronization for Offline Use

Mobile Application Builder Tool

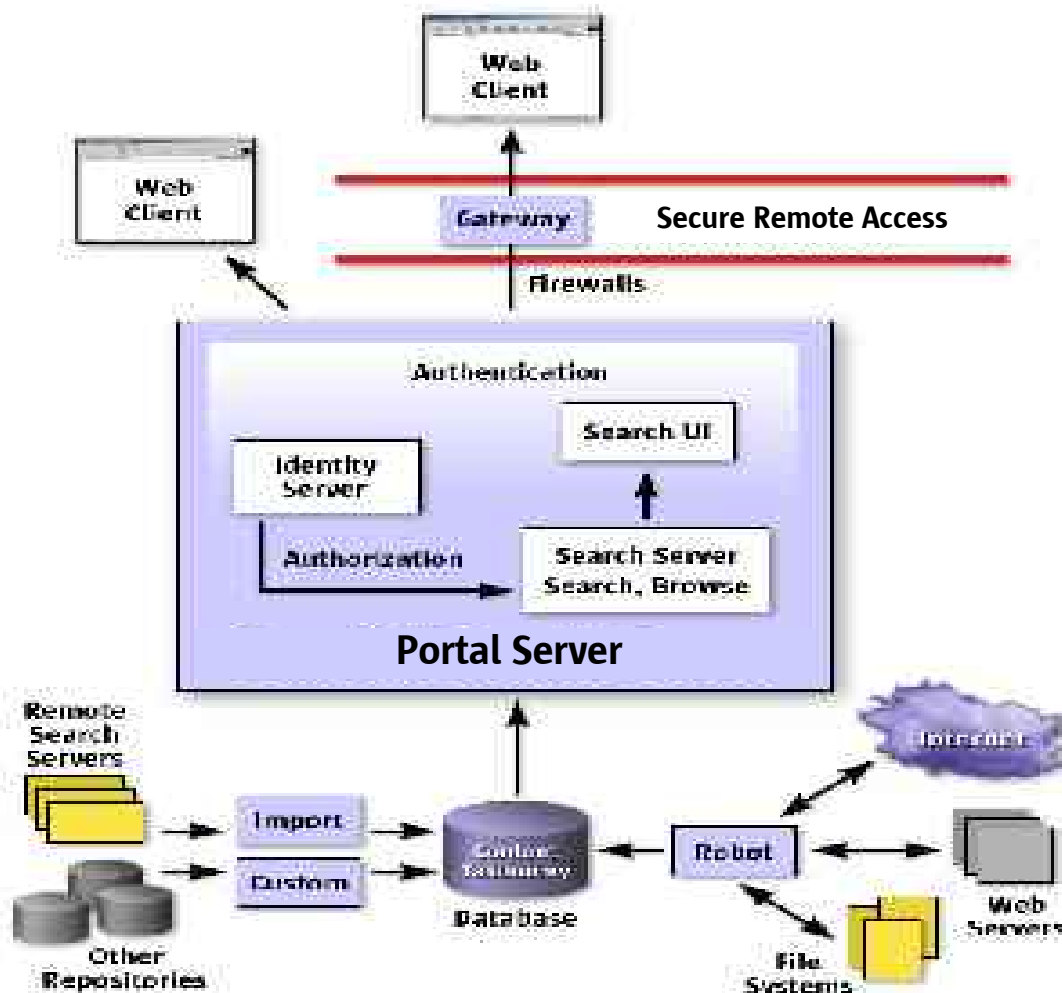
- Point and click with intuitive UI
- Extensive APIs
- Emulator plug-in capable
- Based on Netbeans standard
- Write application once, deploy to thin (HTML), or thick (J2ME) clients, or portal (portlets)
- Builds J2ME apps with sync capabilities for connected or disconnected use.



Search

- Portal Server
- Secure Remote Access
- Mobile Access
- Search
- Content Management
- Application Access

Search Architecture



Content Management

- First CMS purpose-built for use in portals
- To Do List
- Workflow with approve / reject
- Check in/out, rollback, search
- WYSIWYG tool for content authoring
- Preview content in portlet display
- Metadata tagging
- Creation of new content portlets



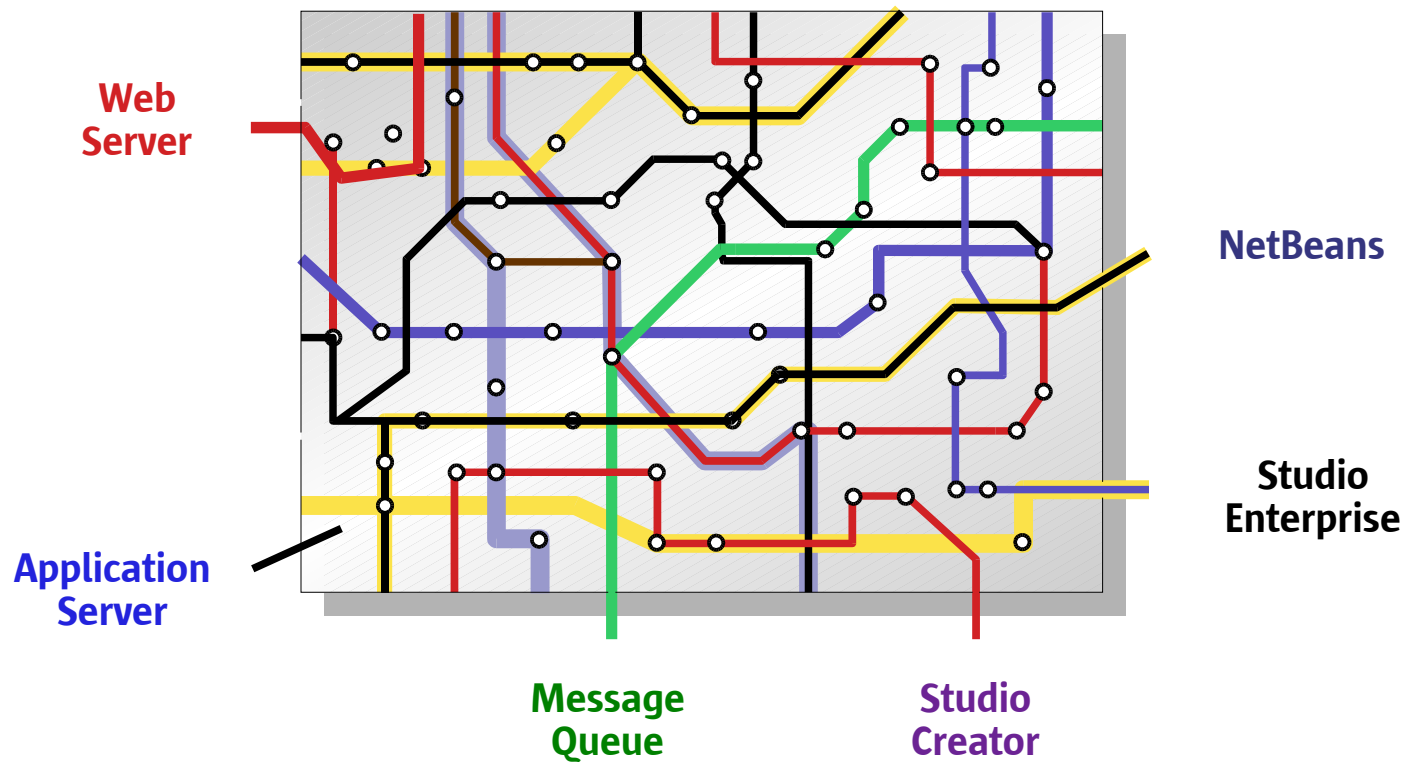
Application Access

- Citrix
- Tarantella

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Application & Web Services

Application & Web Services



Web Server

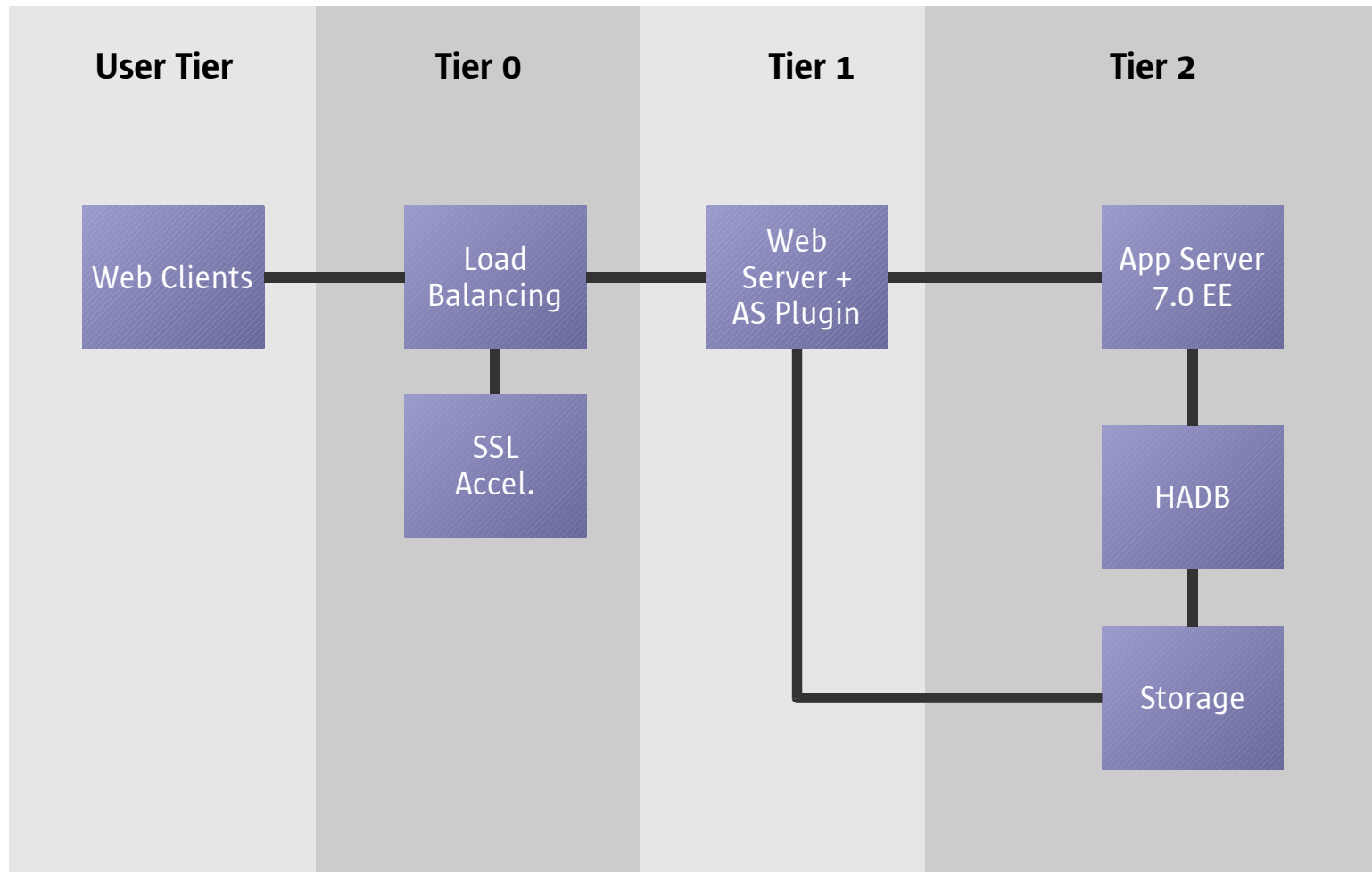
- HTTP compression, content filters, optimized caching

Application Server

- Platform Edition
 - J2EE 1.3 compatible
 - Complete Web Services support
- Standard Edition
 - Adds multi-server management
- Enterprise Edition
 - Adds HA, LB, failover



Application Server Deployment Architecture



A dark, atmospheric photograph of a hallway. A bright light source at the end of the hallway casts a long, sharp beam of light across the floor, creating a strong contrast with the surrounding darkness. The ceiling is visible in the upper left corner, showing a grid pattern. The overall mood is mysterious and focused.

Availability Services

Availability Services

- Cluster Server
- N1 Provisioning Server



Cluster Server

- Cluster Server
- Agents for Web Server, Application Server, Message Queue, Directory Server, Messaging Server and Calendar Server

N1 Provisioning Server

- Cluster Server
- N1 Provisioning Server

A dark, atmospheric photograph of a hallway. The scene is dimly lit, with a bright light source at the end of the hallway casting long, sharp shadows across the floor. The ceiling is a grid pattern, and the walls are dark. The overall mood is mysterious and secure.

Security Services

Security Services

- End-to-end Security

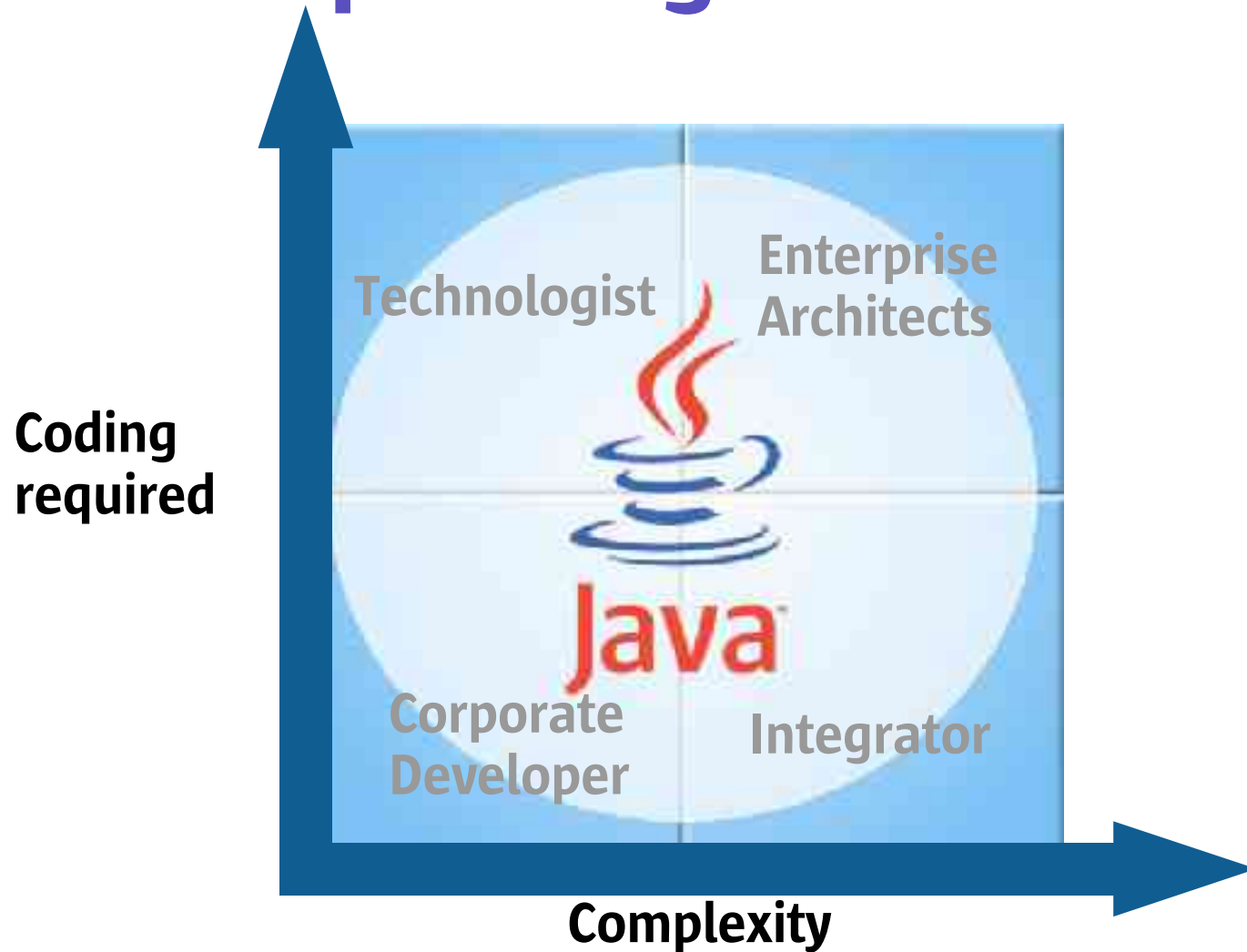


Development & Program News

Studio Enterprise



Developer Segmentation





What Is Sun Java Studio Creator?

- 1st 100% Java-standard visual environment
 - For Corporate Developers who code, but don't need to know J2EE complexity just to do their job
- Complete develop & deploy solution
 - Tool, Servers, & more
- Complete solution for learning and developing
 - Examples, tutorials, Website, forums, training, & more
- The power of an IDE, the simplicity of visual development

Looks like:



Programs & URLs

- <http://java.sun.com>
- Sun Developer Connection -
<http://developer.sun.com/>
- <http://www.sun.com/jscreator>
- <http://www.sun.com/products-n-solutions/edu/programs/>
 - Sun Student Developer Program
 - Sun EduSoft Portfolio
 - Sun Academic Initiative