

Architecture

Architecture Components

- **Application Server**

- BankSoft has been developed using .Net/C# which is hosted on MS Windows Server

- **Native browser application**

- BankSoft has been designed and developed for the browser. It can be accessed through any device which supports Internet Explorer (Tablets, Desktops, Laptops etc)

- **Database Server**

- BankSoft is developed on Microsoft SQL Server and supports clustering

Technology Mandate

The technology mandate was governed by the following imperatives:

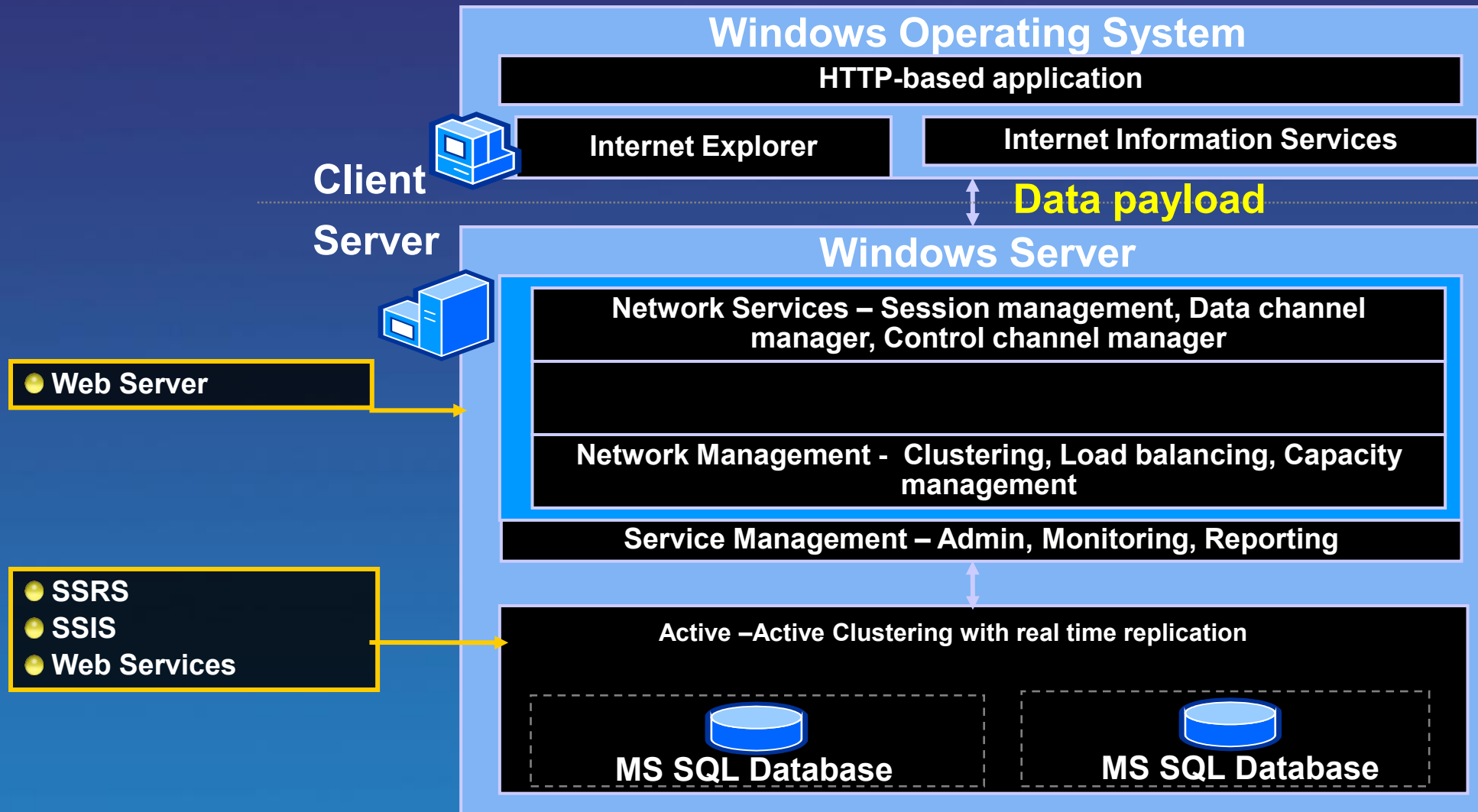
- **Utilization of open, extensible standards/protocols**
 - HTTP
- **Wide coverage**
 - Internet Explorer 7 and above Browser versions work on Windows Server
 - The data payload is completely HTTP-based
- **Server-side optimization**
 - Server can run on commodity hardware
 - Clustering support
- **Bandwidth/network traffic optimization**
 - Modeled to allow functioning under low-bandwidth connectivity (64 kbps)
 - Minimal data exchange – no superfluous data exchange mechanisms
- **Optimized in terms of install cycle and usage**
 - No IT overhead needed (no need to open specialized ports)
 - Low system requirements

Security Considerations

BankSoft has incorporated the required security measures to ensure the integrity of data

- **Data transferred on the browser is designed to go through 128-bit SSL (https)**
- **Database Security**
 - Uses encrypted connections to database engine
 - Critical elements in the database are stored in an encrypted format
- **Server-side optimization**
 - IP level filtering ensures processing requests from authenticated sources
- **Bandwidth/network traffic optimization**
 - Bulk of the business logic is incorporated in Stored Procedures, thus reducing the traffic
- **Role based access control**
 - BankSoft provides role based access control, which is the control of the end user. Administrator can provide restricted access to users based on their role in the organization

Technology Architecture



Server architecture (physical)

