



IBM Software Group

WebSphere Application Server for Telecom

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Lead Architect – Offerings for Service Providers

Chair – Web Services Working Group for The Parlay Group

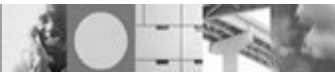
WebSphere. software



 **e-business software**

Promise of Parlay/OSA

- **Third party application access**
 - Enterprise applications – Web Services
 - Telecom services – Java / CORBA
- **Network neutrality**
 - Wireline, wireless, emerging networks
- **Ecosystem for delivery**
 - Best-of-breed components for each part of solution
 - Network integration, core network gateway, application server, Web Services gateway, applications

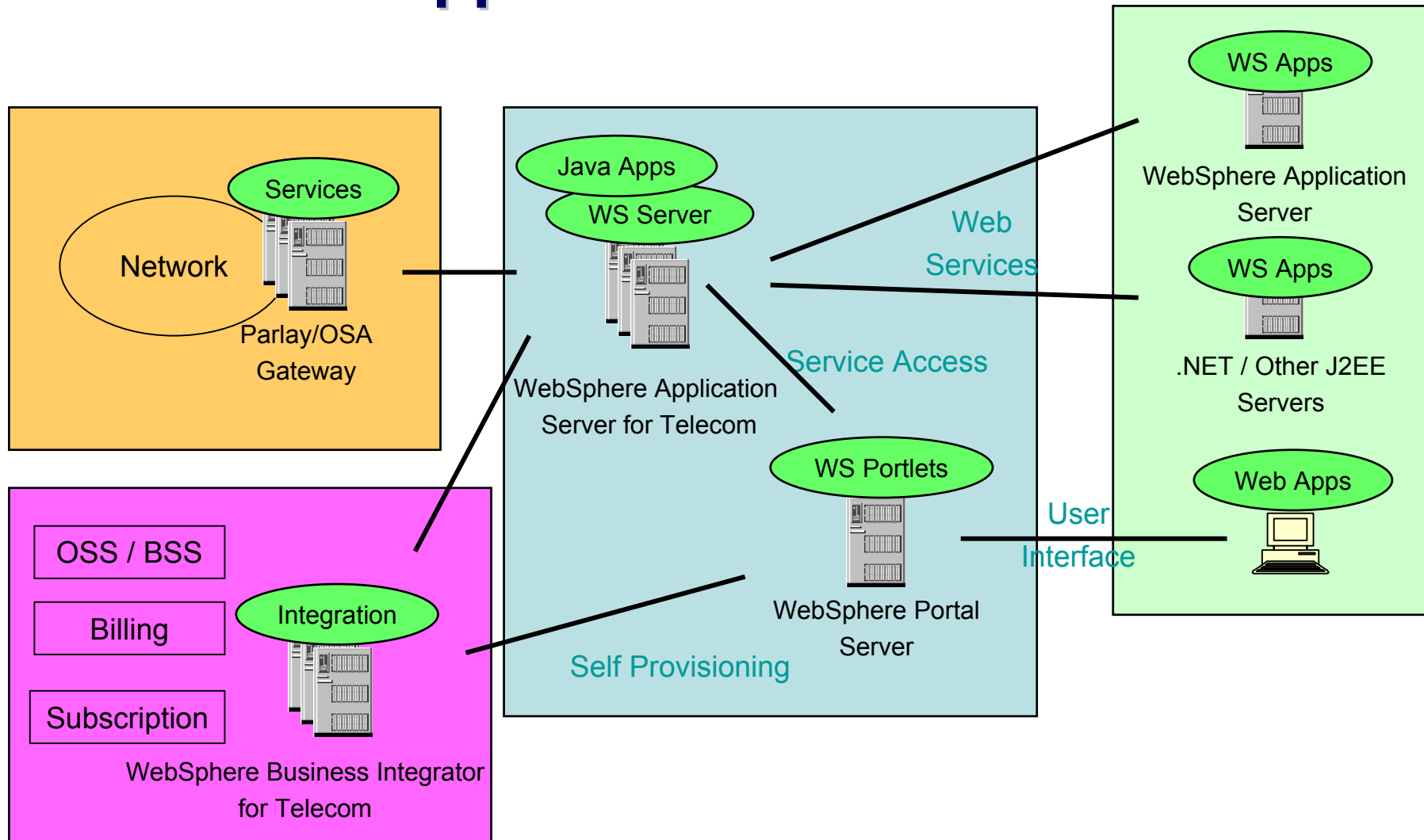


Service Provider Delivery Environment

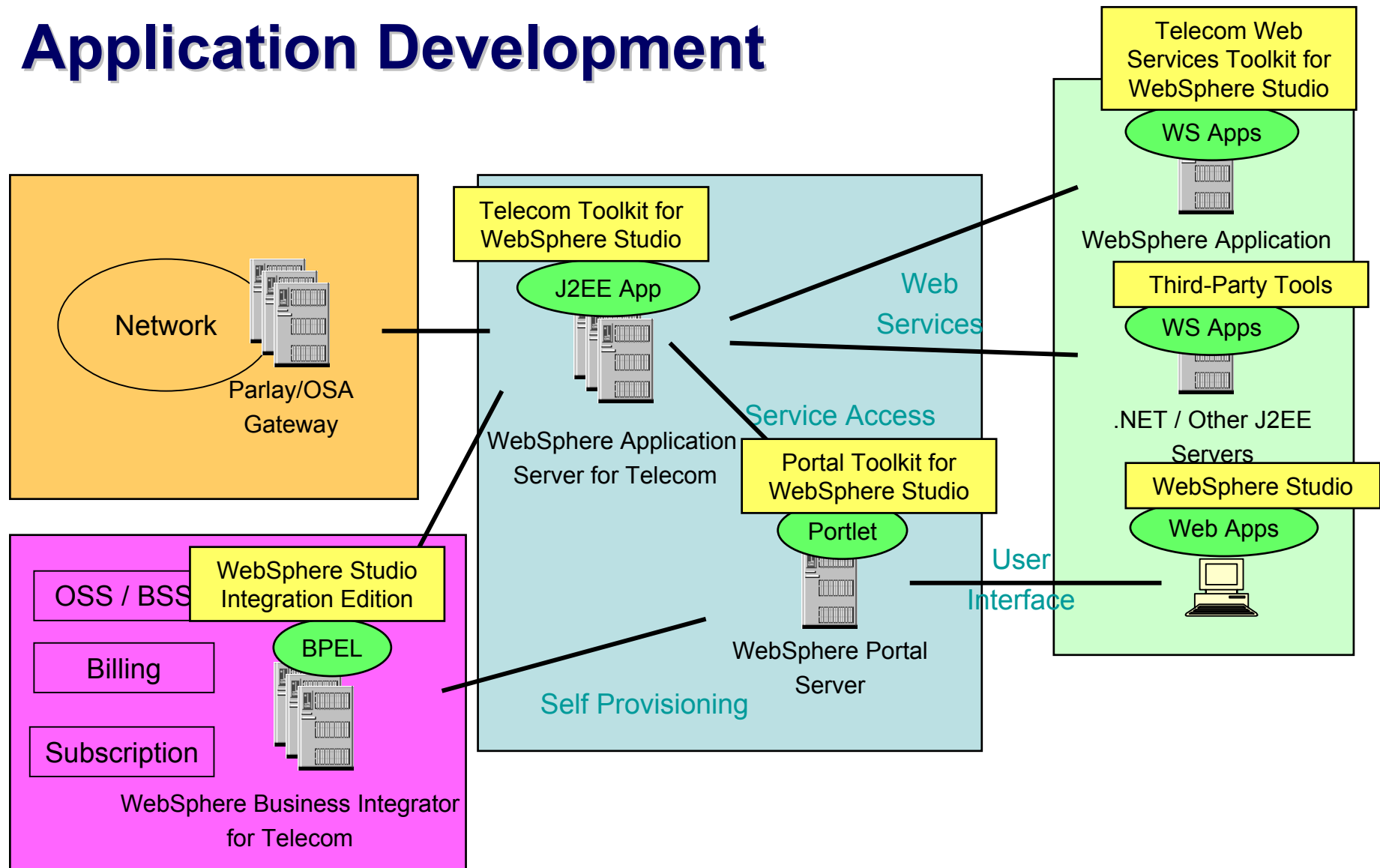
- **IBM Service Delivery Platform offering**
 - Deployed at Tier 1 operators in Europe and North America
 - Third party access – content and applications
 - Web Services interfaces, with robust edge of network capabilities (including Parlay X Web Services)
 - Network integration (including Parlay/OSA)
 - OSS/BSS integration
- **Ecosystem**
 - Partners providing applications, services and integration
- **Business Relationships**
 - Go to market and developer relationships



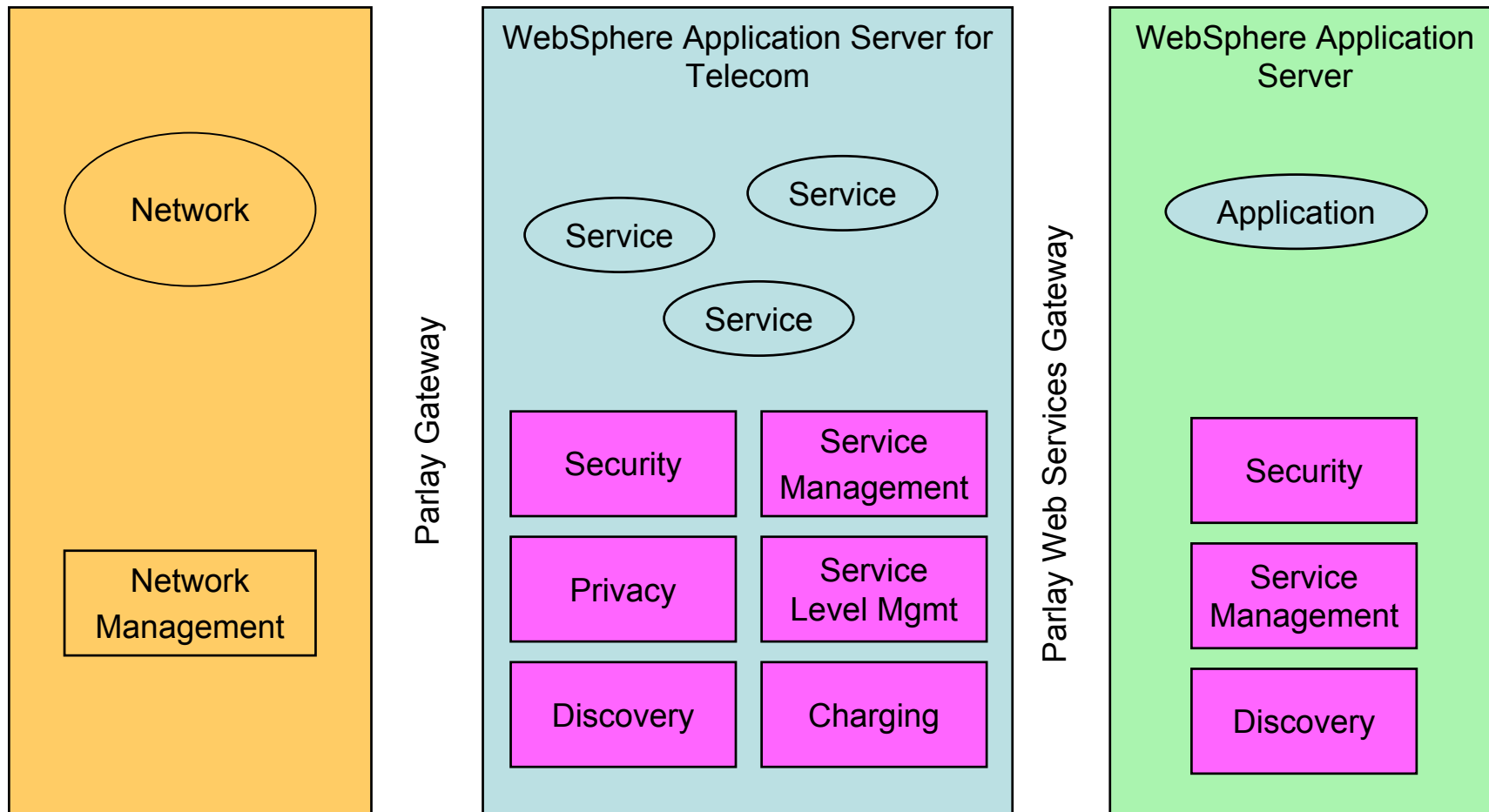
Distributed Application Model



Application Development



Web Services Deployment Requirements



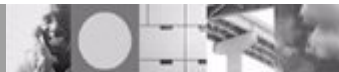
Application Interfaces

- **Web Services Developer**
 - Parlay X and higher level Parlay/OSA interfaces
 - Web Services infrastructure
 - Rich function, without telecom environment knowledge
- **Java Developer**
 - Parlay/OSA interfaces
 - Parlay/OSA Framework implementation
 - High function execution environment
 - Knowledge of interfaces and environment



For the Web Services Developer

- **Create and deploy applications**
 - Outside the Service Provider network
 - Attached to a Web Services Gateway at the edge of the Service Provider network
- **WebSphere Application Server for Telecom and Telecom Web Services Toolkit for WebSphere Studio**
 - **Edge of network capabilities**
 - ✓ Security, service management capabilities
 - **Toolkit provides easy-to-use environment**
 - ✓ Web Services application creation support
 - ✓ Built in simulation capabilities



For the Java Developer

- **Create and deploy applications to,**
 - **Service Provider network (SP created or SP hosted third party applications)**
 - **Third party network (Third party hosted applications)**
- **WebSphere Application Server for Telecom and Telecom Toolkit for WebSphere Studio**
 - **Full support for Parlay/OSA Services**
 - **Application side Framework implementation**
 - **High availability and telecom features**



Conclusion

- **Web Services deployments will be a natural extension of Application Server middleware**
 - Web Services are integrated with applications hosted on Application Servers
 - Robust infrastructure requirements of Web Services will be met by Application Servers
 - ✓ Security, monitoring, routing, billing, etc
 - ✓ Deployment will follow Application Server models
- **WebSphere Application Server for Telecom is a natural host for Parlay/OSA and Parlay X Web Services**
 - Full Parlay/OSA coverage to gateway
 - Integrated Web Services support for applications
 - Leading platform with integrated scalability, availability and management

