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Topologies for Implementing End -end Solutions

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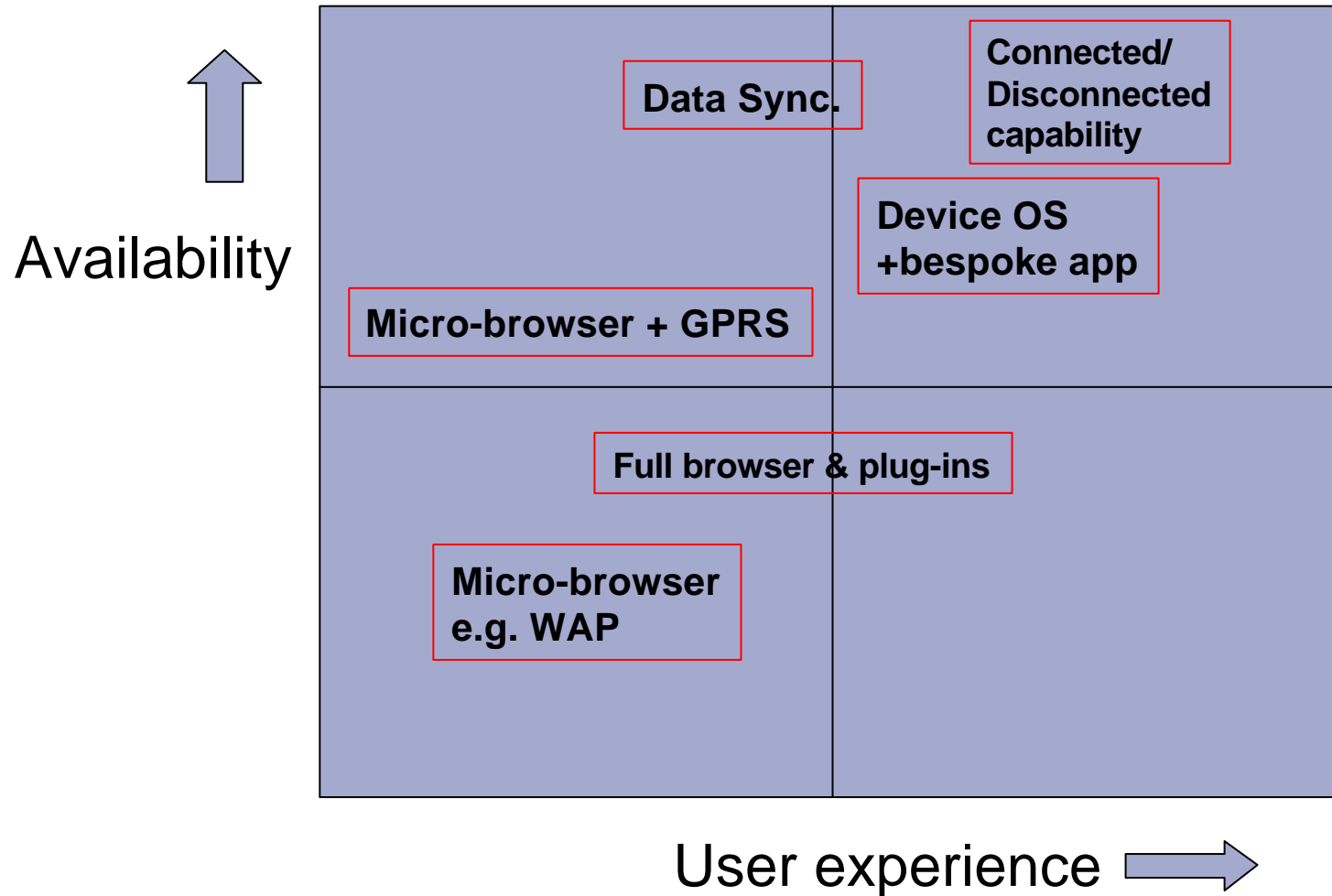
Trends in devices and networks

- **WAP phones**
 - Bad experience to date
 - Slow connection, limited browser capability
 - Limited data push capability, (SMS, WAP push)
- **GPRS>UMTS**
 - Overcomes some access & speed problems
 - 'always' on
 - Still limited to browser model, but multi-media
- **PDA/Communicator**
 - Intelligent device
 - Superior user experience
 - Disconnected/connected capability
 - Business applications



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How to extend e business applications





Connectivity models

- **Connected**

- User is connected and uses an on-line application
 - e.g. desktop PC on LAN
 - Data push and pull.
- Connected on-demand.
 - Dial-up (wireline)
 - Wireless connection

- **Intermittently Connected**

- User works both off-line and on-line
- Probably needs a device OS and application
- User occasionally “connects” to the hosts system to exchange data
- May incorporate push (alerts)



Application models

● Browser-based

- Uses the web paradigm (HTTP, HTML subsets)
- Server-based distribution of application
- Low distribution costs
- More dependent on bandwidth
- Typically connected applications
- less functionality available in browser than in C/S systems

● Client/Server

- Traditional model distributes logic between client and server
- Applications written for the specific devices
- Enables a more robust user interface with client processing and validation of data before transmission
- Typically intermittently-connected applications



Designing the solution

Not just the device – how will it connect

- **What interaction does the application need?**
 - Simple data sync.
 - Alerting, data push
 - Always available
 - Locally stored data
- **User interface**
 - Browser like
 - Database tables
 - Advanced graphic UI
- **Screen, keyboard, Voice**