

The SyncML Road Ahead –

Application Development and Device Management

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Outline

- SyncML today
- SyncML as a key enabler in application development
- SyncML Device Management

Story Sofar...

- SyncML Initiative founded by key industry players with focus to develop an open technology for universal data synchronization
- Incorporation and a more flexible organization structure in 200
- Active contribution of Sponsor and Promoter members has focused on delivering
 - Specifications for data synchronization
 - Interoperability testing tools and events
 - Reference implementations

... And Deliverables

• 1.01 Specifications out in 2000, version 1.1 to be out in 1Q2002

- SyncML 1.01 specifications supported by key industry forums
- Commercial interoperable products exist: Over 21 servers, and 36 clients
- By end 2001, there were over 650 companies worldwide in the SyncML community
- This year, there will be millions of SyncML enabled devices in the market

Next Frontiers

- Application development
 - What comes after PIM?
 - Role of SyncML
- Device Management
 - A natural application area of SyncML technology
 - Enables direct and indirect benefits
- Further projects



Key Interaction Modes of the Applications in the Mobile Internet

- Browsing
 - WAP content
 - Internet content, ...
- Call
 - Voice and video calls, ...
- Messaging
 - Short messaging
 - Instant messaging
 - Chatting, ...
- Synchronization
 - Personal information management
 - Corporate applications, ...



Why Synchronization?

 Local databases and operations on them are coming commonplace

SyncM

- Having your data always updated is (becoming) a competitive advantage
- Cooperation of networked parties/applications sets a direct demand for a seamless solution
- Handsets are not "always on"
 - Constant connections are expensive
 - Network coverage is not universal
 - User experience can be unsatisfactory



Synchronization is a key enabler for interactive networked applications

Why SyncML?

- Open technology benefits all stakeholders
 - Application developers
 - Operators and service providers
 - Handset manufacturers
 - Customers
- Correct qualities
 - Robustness
 - Expandability
 - Transport independency
 - Security
- Wide enough industry backing
 - True interoperability
 - Sufficient device volumes

Further Development

 Reference implementations enable convenient kick-start of vertical applications

- Further cooperation with client and server manufacturers will enable advanced service concepts
 - New content types
 - Vertical applications with generic SyncML engines
- SyncML Initiative is a natural forum for discussion
 - Relevant parties participating
 - New content types in Objects group
 - Interoperability requirements in SIC

Device Management

- Networked devices' internal complexity will increase along with their increased functionality.
 - Example: WAP settings in a device
- The complexity can be alleviated by somebody remotely carrying out the difficult tasks on behalf of the enduser
- These remote actions are loosely called Device Management



SyncML Device Management

The next application area of SyncML technology

- SyncML technology will enable remote
 - Parameter manipulation
 - Configuration
 - Content delivery
- SyncML takes into account market requirements for interoperability and security

User Scenario Examples

- New device or service purchase
- Advertising
- Helpdesk problem configuration
- Backup / Restore
- High volume configuration

Beneficiaries of SyncML Device Management

- Operators and service
 providers
 - Only one solution needed
 - Enhanced service level
 - Increased service uptake
 - Decreased customer care costs
- Corporations
 - Improved management of mobile devices
 - Enhanced mobile working efficiency

SyncML

- Application developers
 - A standardized tool for application configuration and content delivery
- Handset manufacturers
 - Only one solution to be supported in the handsets
- Customers
 - More functioning devices, applications, and services
 - Enhanced customer experience

All parties benefit from an open solution.

Call for Action

- SyncML 1.1 specifications include SyncML Device Management, and are public in 1Q2002
- Start planning and implementing SyncML Device Management in your
 - Handsets, PDAs
 - Device management servers
 - Network infrastructure
 - Service offerings
 - Customer care interfaces

Summary

- SyncML is the protocol of choice for data synchronization
- SyncML serves as a key enabler in development of interactive networked applications
- Market demand for SyncML Device Management exists. You must start implementation ramp-up now in order not to miss the train.



For further information –

www.syncml.org