

SyncML

Agent

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Design and Implementation of SyncML Server Agent

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**Neostpes, Inc.

1. Starfish Software
 SyncML(Synchronization Markup Language)
 . SyncML
 (Internet)
 (ISP, Internet Service Provider)
 가 . 2000 12
 (PIMS : Personal Information Management Service) SyncML 1.0 1.0.1
 SyncML
 2 SyncML , 3
 SyncML
 가 , SyncML
 Sync Agent 4
 5
 (Synchronization)가
 2. SyncML
 가 , (Synchronization) . SyncML
 2000 2 IBM, Lotus, Motorola, Nokia, Palm, Psion,

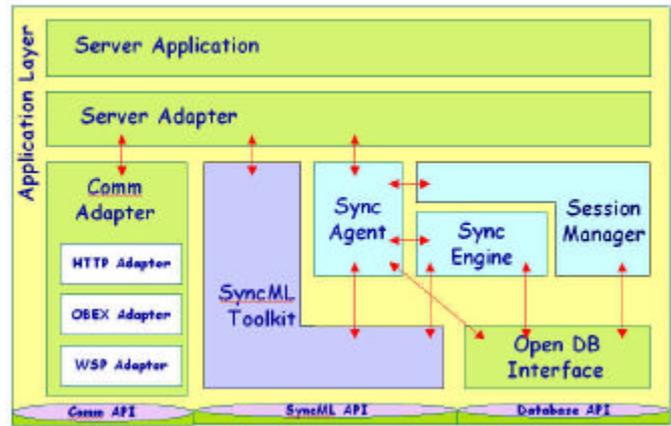
SyncML (Representation) (Synchronization) HTTP, WSP(Wireless Session Protocol), OBEX(Object EXchange Protocol)

SyncML 가 XML Request 가 HTTP , DLL (DLLs) JNI(Java Native Interface)가 SyncAgent SyncEngine C++ 6 DLL [4].

가 SyncML

XML(Extensible Markup Language) DTD(Document Type Definition) SyncML XML WAP WBXML(Wireless Binary XML) SyncML MIME MIME(Multi-purpose Internet Mail Extensions)

SyncML SyncML 가, SyncML 가 SyncML 가 SyncML 가 SyncML [1,2].

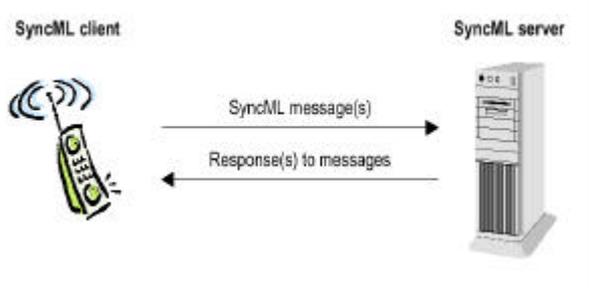


2. SyncML

2 SyncML 가 Server Application GUI Sync Agent Engine Request JNI Agent DLL Server Adapter Server Adapter SyncML Toolkit Sync Agent 가 SyncML Toolkit Sync Adapter SycML DTD XML , SyncML SyncML Sync Agent Sync Engine Conflict Engine, Sync Open DB Interface

3. SyncML

3.1 SyncML 1.3.12, 8i



1. SyncML

Session Manager 가

4. Sync Agent

Sync Agent

가 가

Sync Agent

가

가

, Command Handler

. Sync Agent
4.1 4.2

4.1 Sync Agent

SyncML
SyncBody
SyncML
(Target)

SyncHdr

SyncML 가

, SyncML

SyncML (Command)

.[9]

Sync Agent

Toolkit

가(Add),

(Replace),

(Delete)

SyncML

Atomic, Search

Alert, Sequence, Sync, Add, Replace, Delete

SyncML

가

가

Sync Agent

4.2 Sync Agent

Sync Agent

Command Handler,

Command Builder, Message Handler 3

. Command Handler

, Command Builder

. Message Handler

3 Agent

4 Sync Agent

1) Command Handler

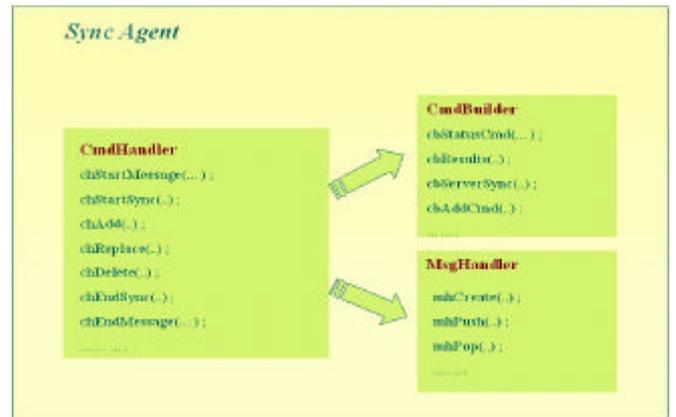
Command Handler Toolkit

SyncEngine Open

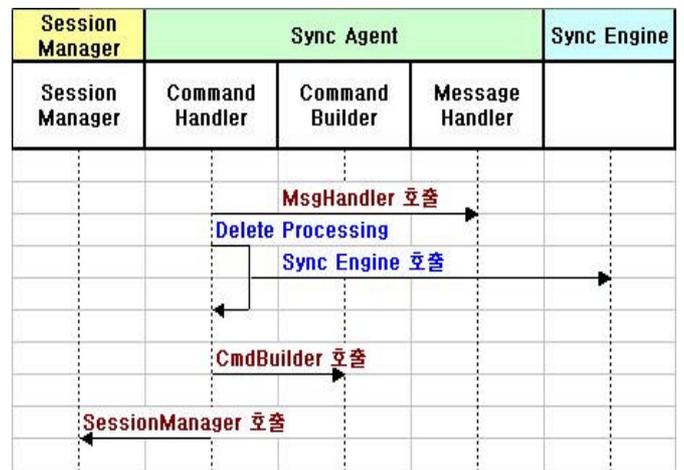
DB Interfac, Session Manager

DLL

Command Handler



3. Sync Agent



4. Sync Agent

2) Command Builder
Command Builder

Toolkit

Command Handler

Toolkit

Open DB Interface

가

3) Message Handler
Message Handler

C++

Global

Global

Add, Replace, Delete
Sync, Atomic, Sequence

Parent Command

Message Handler

Request

가

Command

Handler SyncML
Message Handler

SyncBody

가

가

5.

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- [2] SyncML Initiative, Building an Industry-Wide MobileData Synchronization Protocol, SyncML White Paper, Mar. 20, 2000
- [3] SyncML Initiative, SyncML Architecture Version 0.2, May 10, 2000
- [4] SyncML Initiative, SDA2 Specification Version 0.2, Aug. 21,2000
- [5] SyncML Initiative, SyncML Representation Protocol, version 1.0.1, June 15,2001
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SyncML

SyncML

600

SyncML

가 20

가

SyncML

SyncML

SyncML

Sync Agent

SyncML

Sync Engine

Sync Agent

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가

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SyncML

MIME

가

SyncML

가