

SyncML

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Design and Implementation of SyncML Synchronization Engine

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SyncML SyncML SyncML SyncML
Sync Engine SyncML Sync Engine Sync Engine
Sync Engine SyncML Sync Engine
가

1.

PDA(Personal Data Assistant), SyncML[1]
Data Assistant), Sync Engine[6] SyncML
가 가
(PIMS : Personal Information Management Service)
SyncML SyncML
가 Sync Engine

2. SyncML (Synchronization Markup Language) (Data Synchronization)

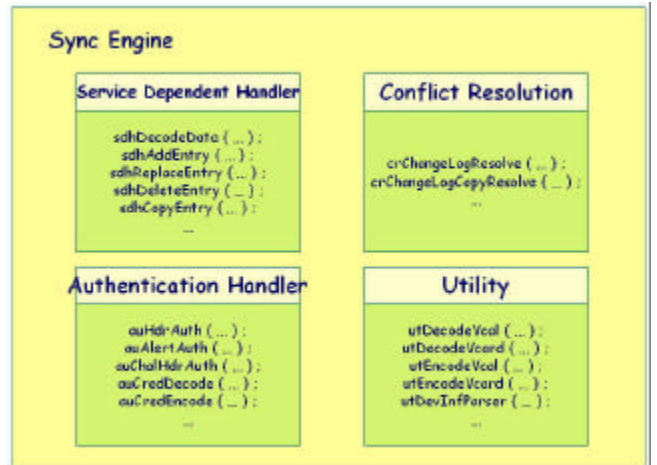
가
[1,2]. SyncML
2000 4 , IBM,
8 [3]. SyncML ,
가 SyncML(Synchronization Markup Language) HTTP, WSP, OBEX
[1]
1.0.1[3,4,5] PIMS 가

BK21

XML DTD
XML WBXML

[2,7,8].

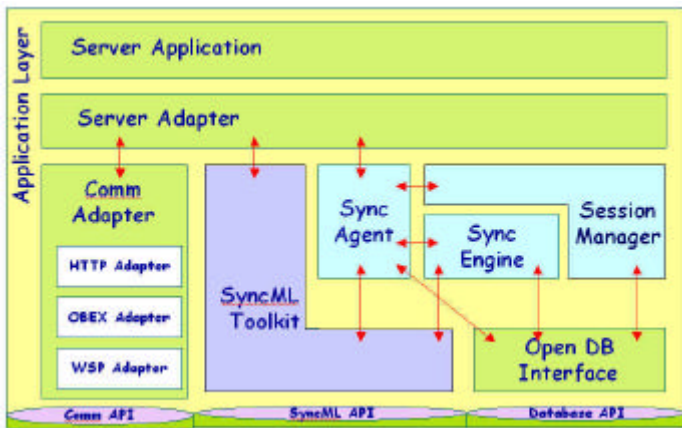
3. SyncML
 1. SyncML
 Server Application
 SyncML Adapter가 SyncML Toolkit
 Sync Agent SyncML
 Sync Engine



2. Sync Engine

. Session Manager
 , Open DB Interface
 DB Interface
 DLL , DLL
 JNI .[5,6]

SyncML 가
 SyncML



1. SyncML

2 Conflict Resolution
 Sync Engine 가

4. Sync Engine

Sync Engine SyncML

[6].

4.1 Sync Engine

Sync Engine Service Dependent Handler,
 Conflict Resolution, Authentication Handler, Utility 4

2 Sync Engine

1 Service Dependent Handler

SyncML , Email, 가

가
 가
 가
 , 가
 , 가
 1, 2가
 1 A
 , A가 , 2 A가
 2
 A 가 가
 2가 A B
 , A
 2 , B 가 ,
 1 B 가

3 Authentication Handler

SyncML

. SyncML

Basic MD5

4 Utility

Utility

3 가

SyncML

Tomcat 3.0

Sync Agent

Java Class

JNI

[9]

6.

SyncML

SyncML

SyncML

SyncML

Sync Engine

SyncML

Sync Engine

Sync Engine

[3,4].



3.

()

5.

SyncML

2000,

8i

Visual C++ 6.0

6 DLL

HTTP

1.3.12

가

8.

[1] SyncML Initiative, <http://www.syncml.org>

[2] SyncML Initiative, Building an Industry-Wide Mobile Data Synchronization Protocol, SyncML White Paper, Mar. 30, 2000.

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[4] SyncML Initiative, SyncML Representation Protocol, version 1.0.1, May 30, 2001.

[5] SyncML Initiative, SyncML HTTP Binding, version 1.0.1, May 30, 2001.

[6] SyncML Initiative, SyncML Architecture, version 0.2, May 10, 2001.

[7] , , , “ SyncML ”, 2001 5 , pp.330-340, May 2001.

[8] , , , “SyncML ”, 2001 7 , pp.324-336, Jul. 2001.

[9] SyncML Initiative, SDA2 Specification, version 0.2, Aug. 21, 2000.

