



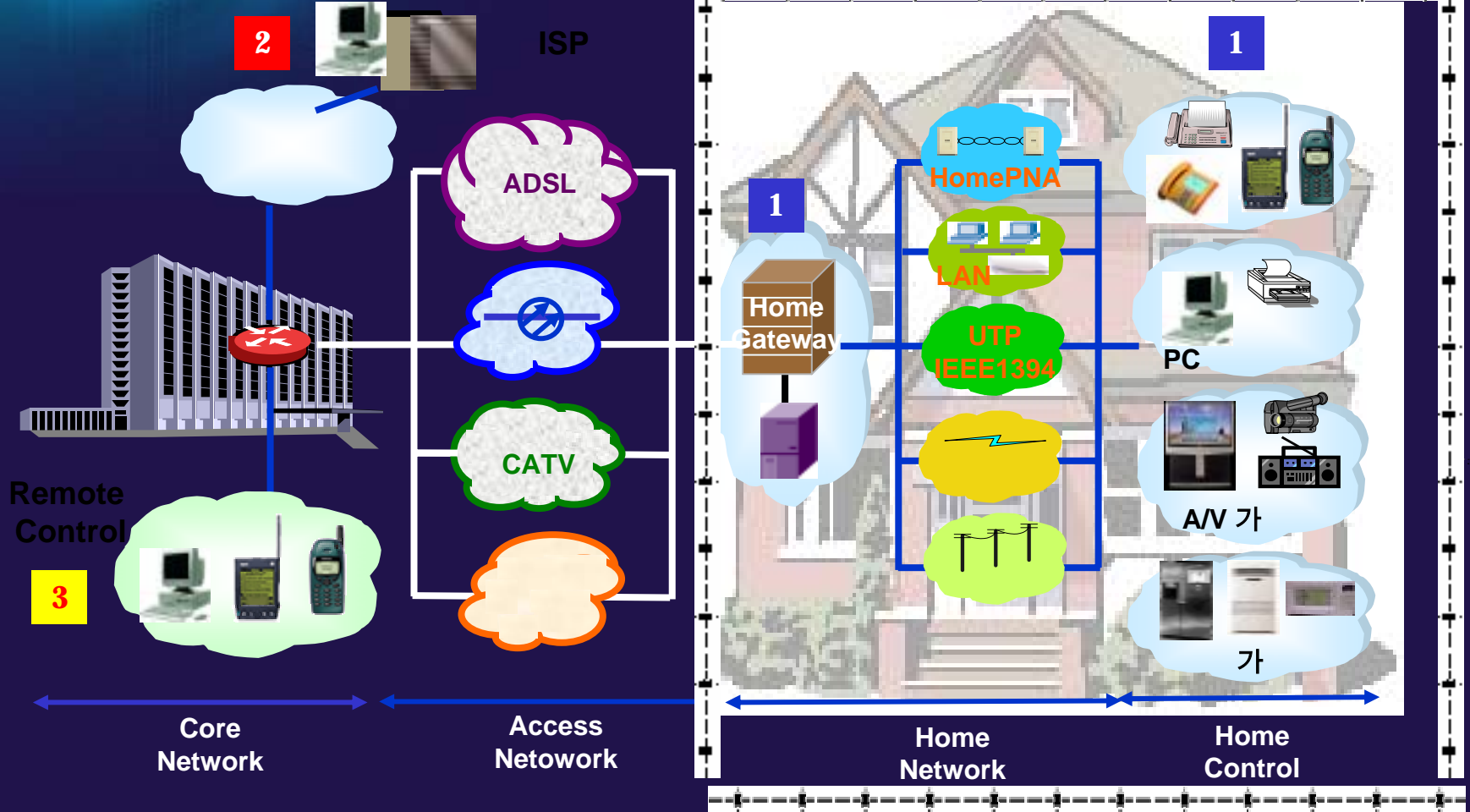
By iBridge Inc.

2003.09.20



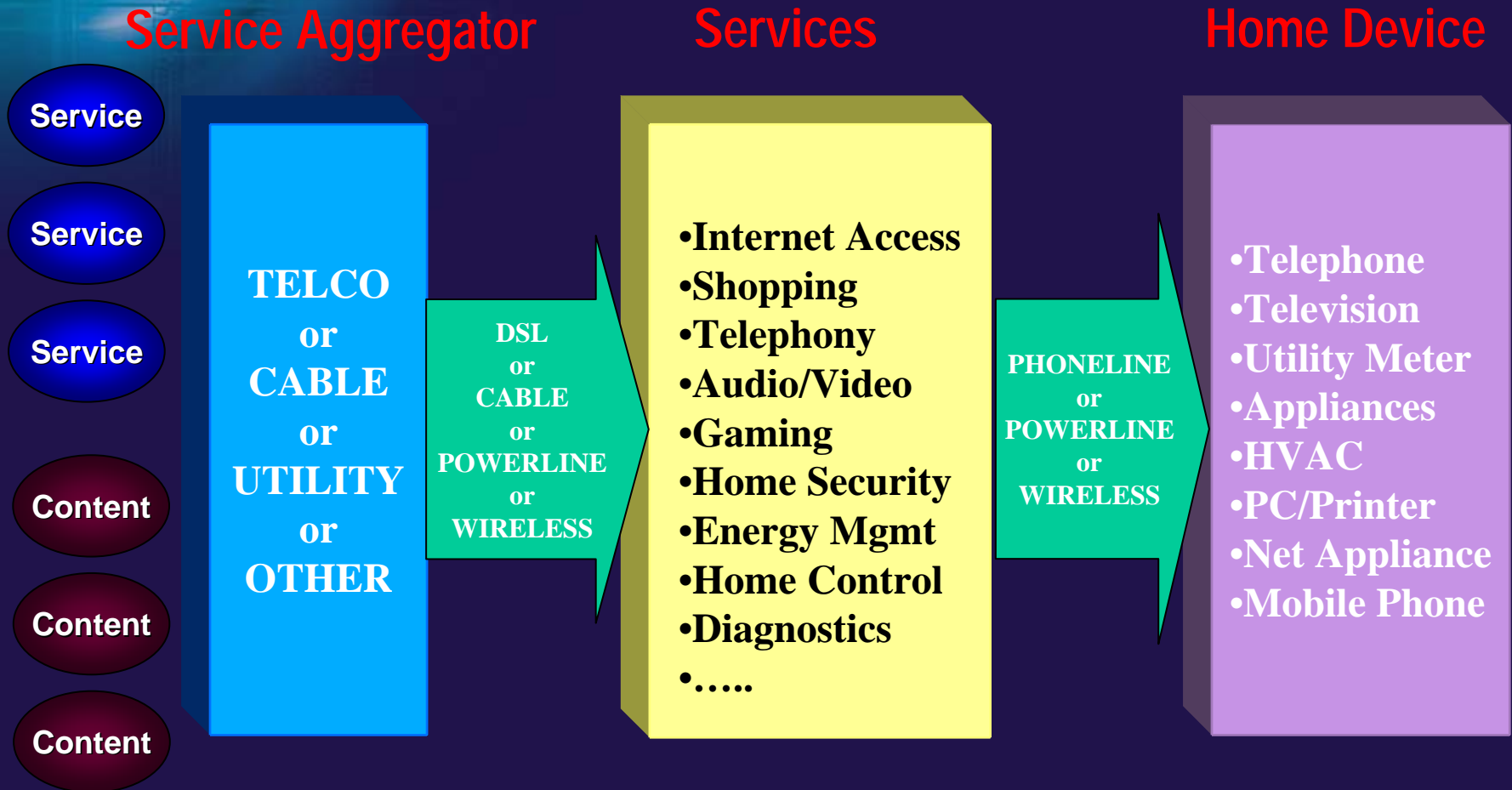
1. Introductions of HomeNetwork

- 1 Gateway (Optical Fence), (, ,)
- 2 Matrix-CP, Solution, Web Book
- 3 Mobile Phone, Web Phone, Mobile Contents(game), PDA
- 4 Security - Optical Fence



1. Introductions of HomeNetwork

1-1 Services



1. Introductions of HomeNetwork

1-2 Issue

/

Plug and Play

Killer Application

가

2. Business Performances

2-1 Korea Telecom

“The Development & Test of Service Gateway for IMT-2000 Virtual Home & Office”



2. Business Performances

2-2 Samsung Electronics Corporation

“Development of Internet Appliance using LonWorks-based Power line Communication”

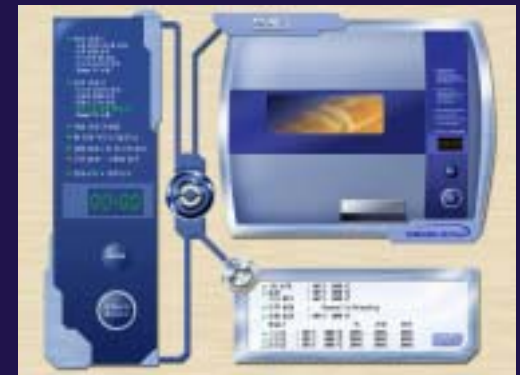
(Demonstrated Internet Appliance at LonWorld 2000 Exhibition)



Microwave Oven

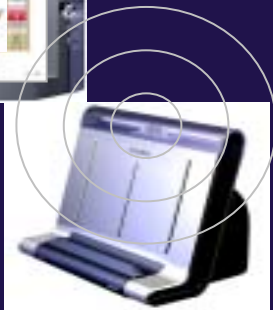


Washing Machine



2. Business Performances

2-3 The INTEGER Hong Kong Pavilion



1N的家
INTEGER
INTELLIGENT & GREEN

2. Business Performances

2-4 CONNECTIONS 2001 Seminar (USA. SEATTLE)
(The International Home Networking And Gateway Showcase)



HBrain's SolyGate (RG)



2. Business Performances

2-5 Vanke E-Home Demo House (China. Shenzhen)



2. Business Performances

2-6 Samsung Electronics

**“Development of Internet Appliance(Refrigerator) using LonWorks
-based Power line Communication” (2001.12)**



Refrigerator



2. Business Performances

2-7 Rinnai Korea

“Development of Internet Appliance(Gas Oven, Boiler) using LonWorks-based Power line Communication” (2002.3)



Gas Oven Range



Boiler

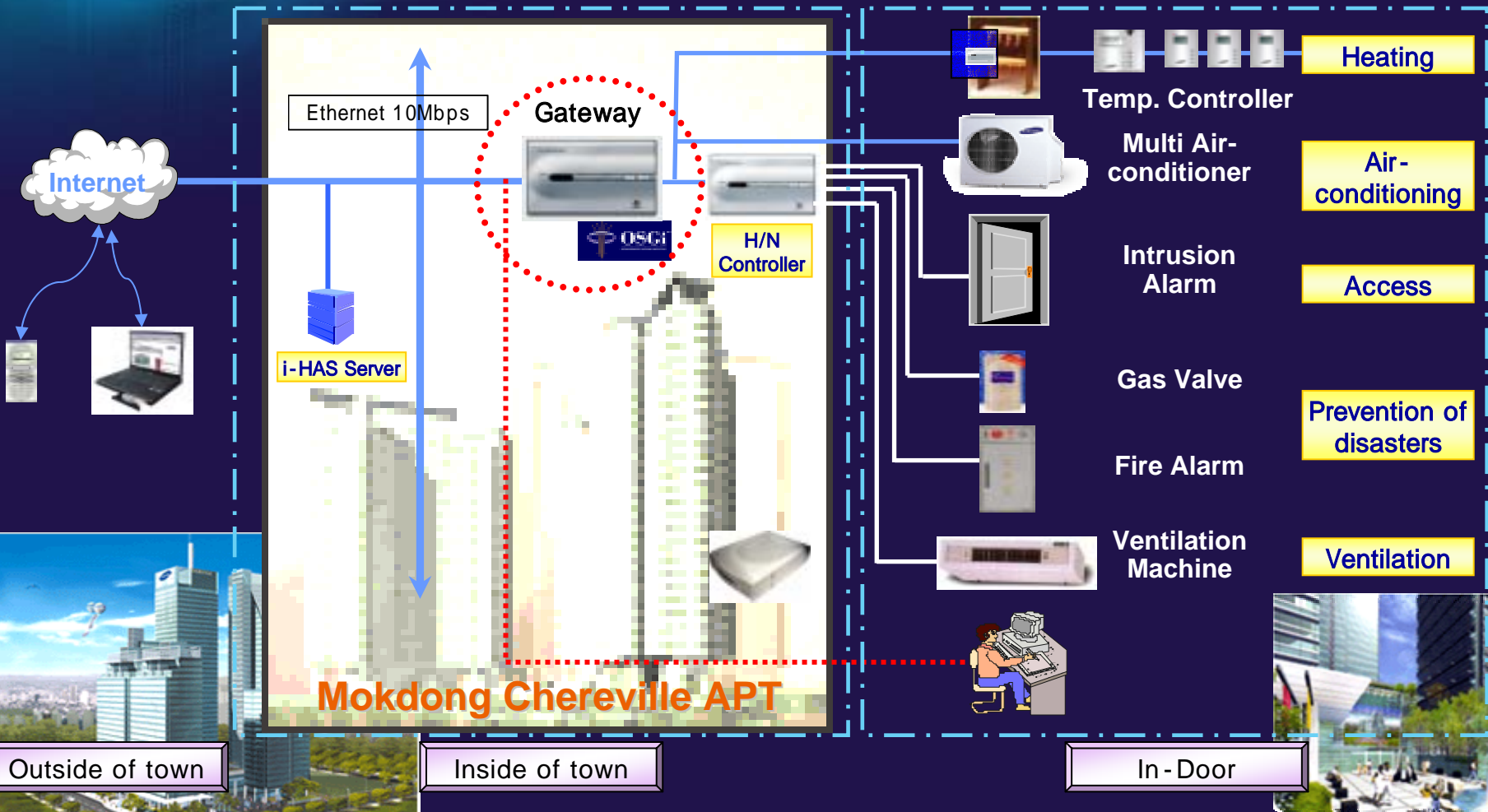


2. Business Performances

2-8 Samsung Heavy Industry

Home Network System of Mokdong Chereville APT (2002. 3)

- Mokdong Chereville APT 1 : a building with 39 stories above ground and 5 beneath ground level, 312 households.
- Mokdong Chereville APT 2 : a building with 24 stories above ground and 5 beneath ground level, 170 households.

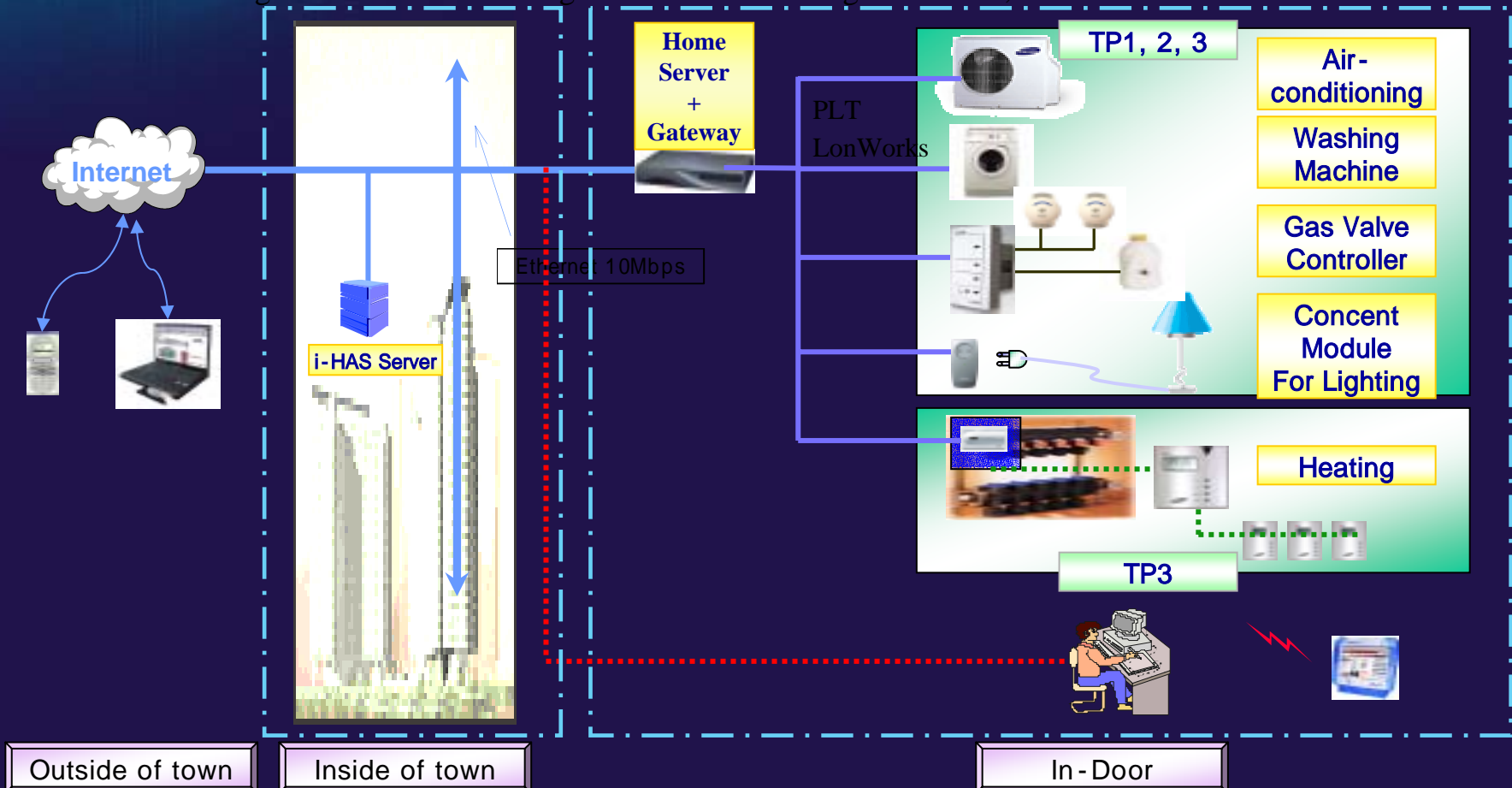


2. Business Performances

2-9 Samsung Heavy Industry

Home Network System of Tower Palace APT (2003. 1)

- TP1 : 4 building with 66 stories above ground and 5 beneath ground level, 1,499 households.
- TP2 : 1 building with 62 stories above ground and 5 beneath ground level, 990 households.
- TP3 : 1 building with 58 stories above ground and 5 beneath ground level, 850 households.



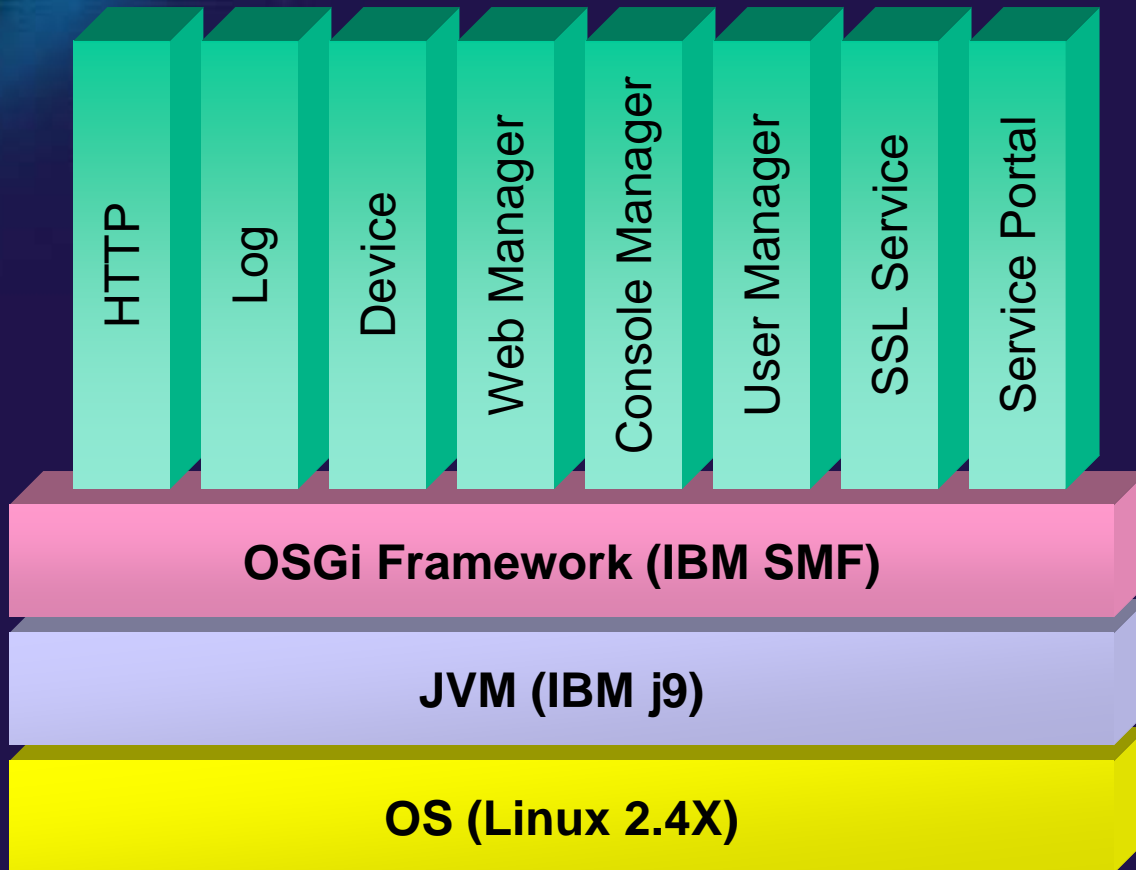
II. 3 Types of SolyGate (OSGi RG)

- 1. White SolyGate**
- 2. Embedded SolyGate**
- 3. Variation Type of SolyGate**
- 4. Software**



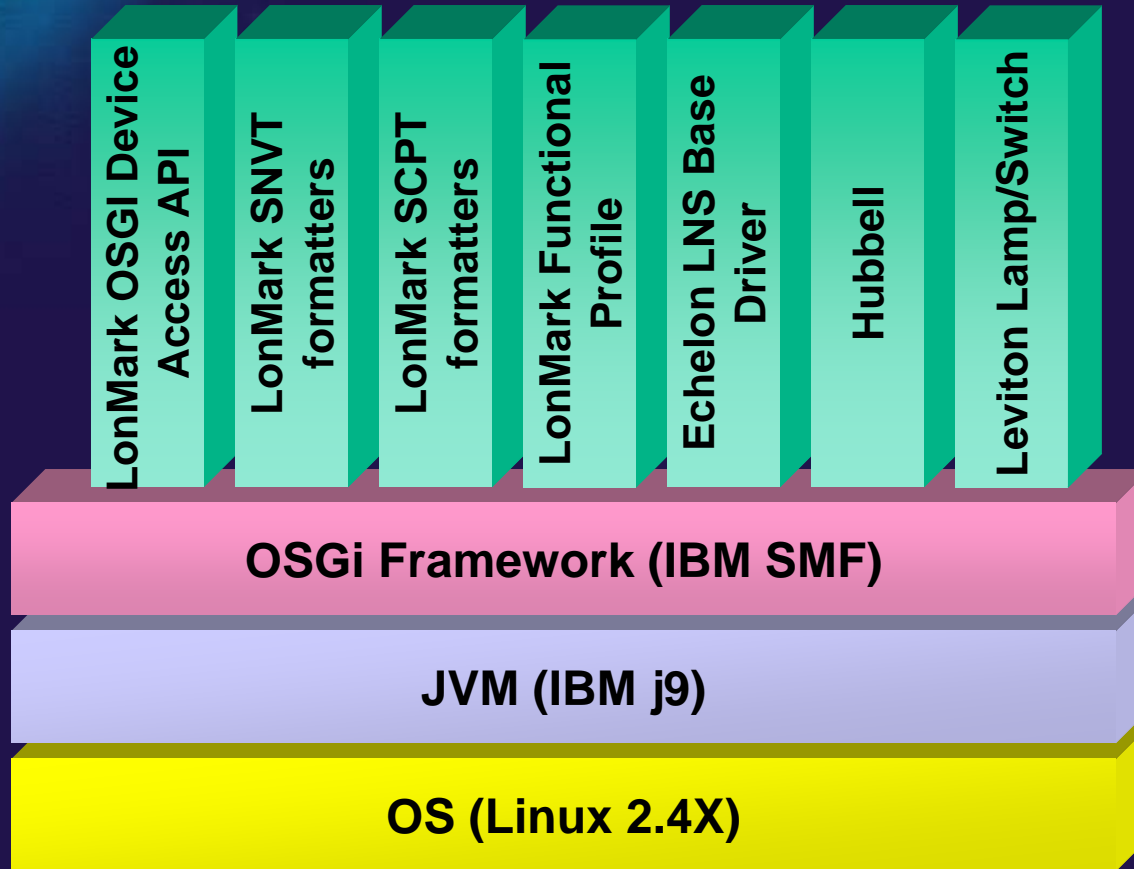
4. Software

4-1. Basic Structure



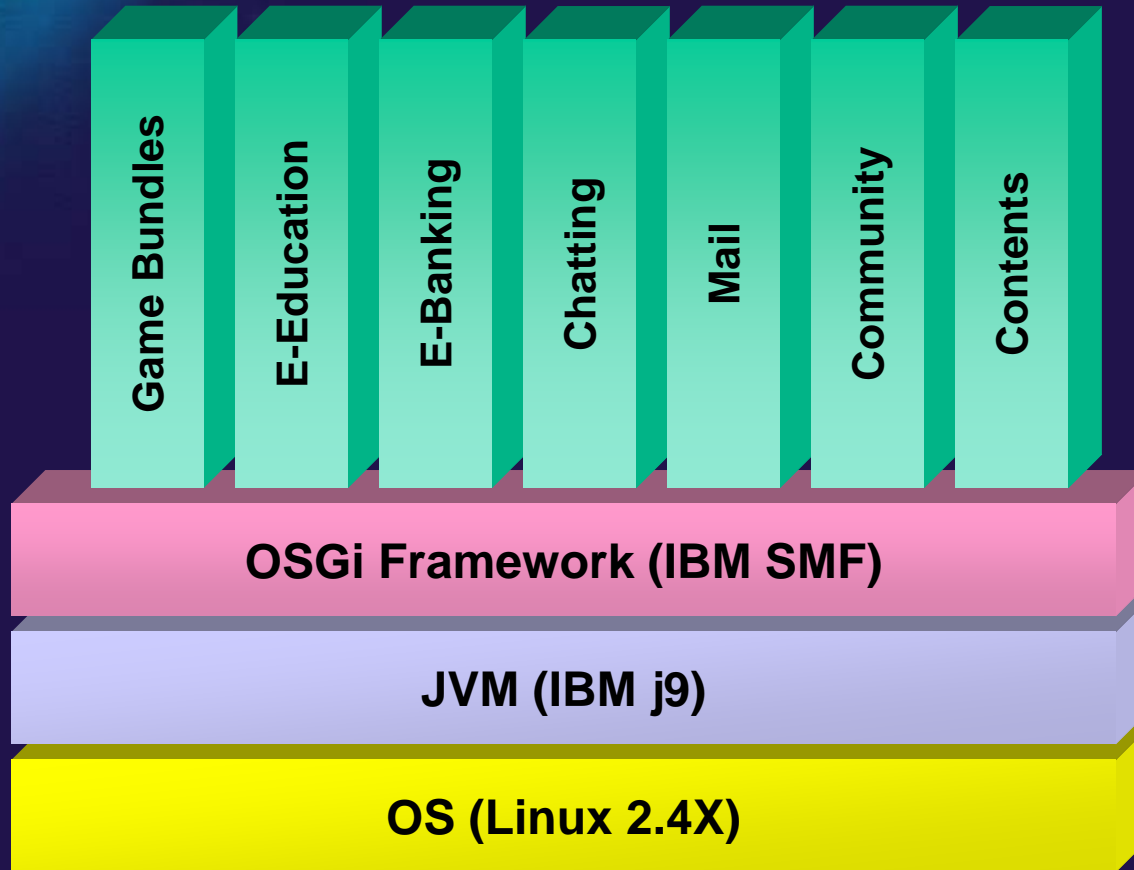
4. Software

4-2. Control Network (LonWorks)



4. Software

4-3. Cooperation of Contents Companies

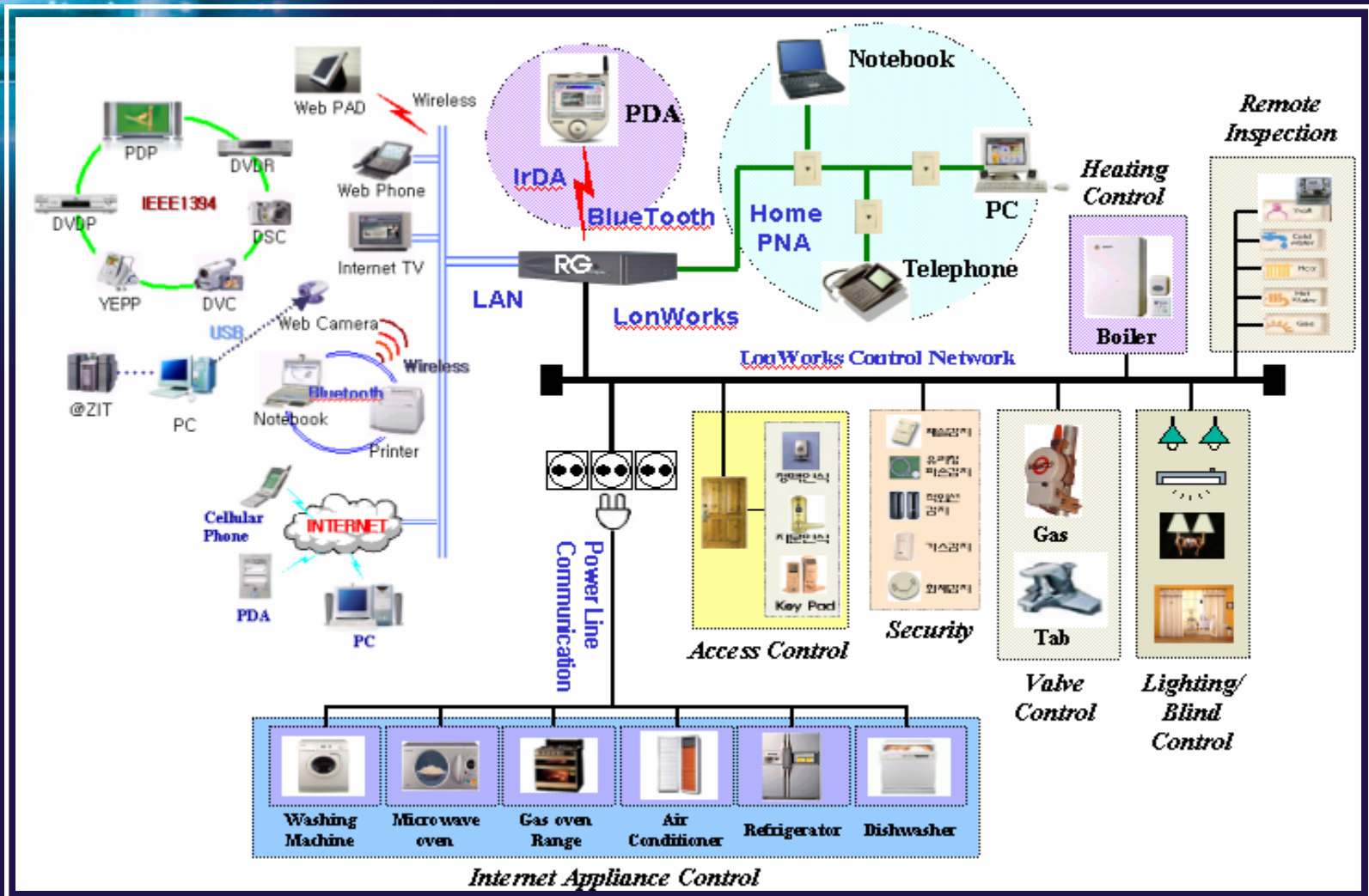


III. Services of OSGi Gateway

- 1. System Configuration**
- 2. Device Installation**
- 3. Example of Possible Services**
- 4. Contents Provide**
- 5. RMS
(Remote Management System)**

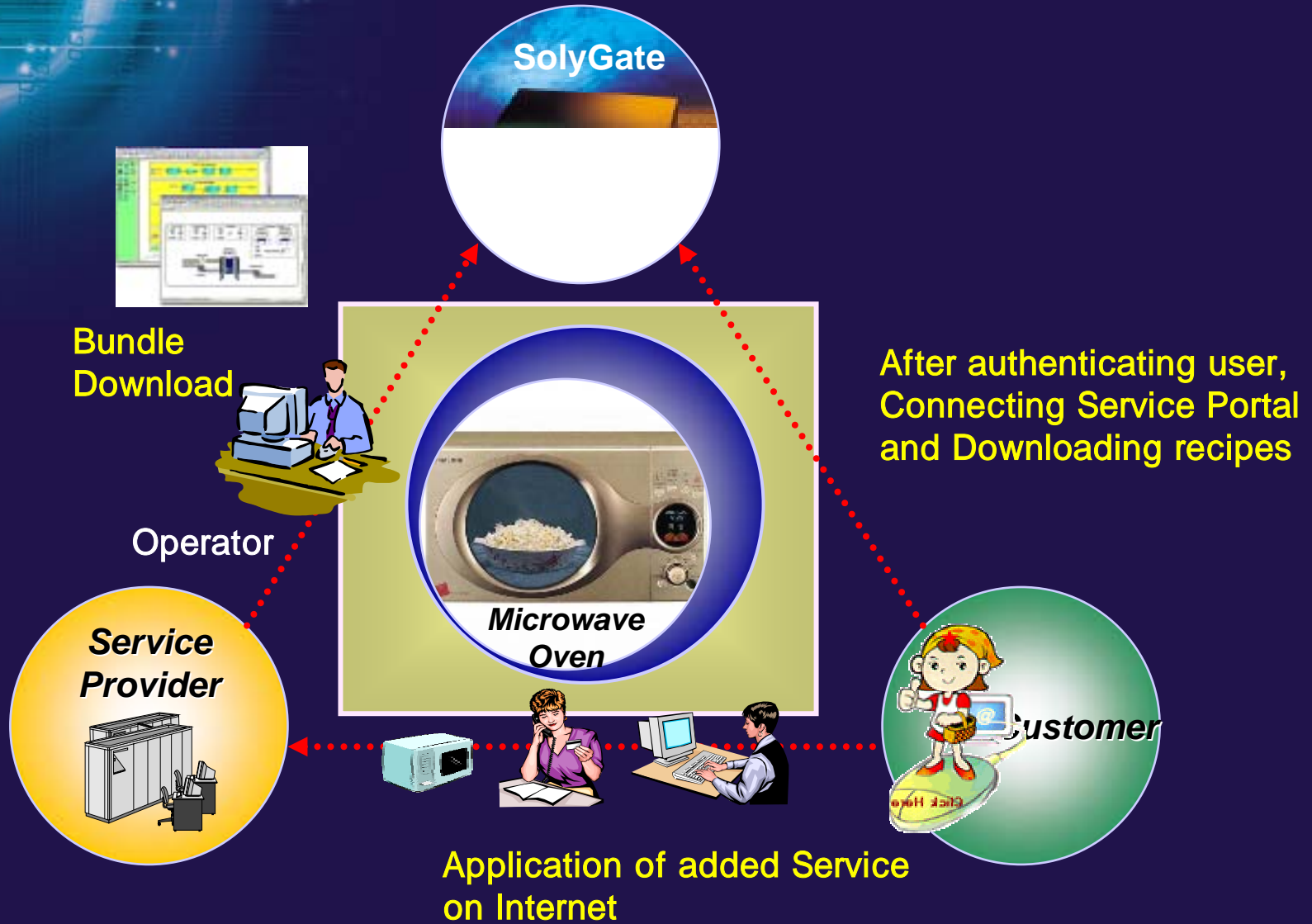


1. System Configuration



2. Device Installation

(Ex : Microwave Oven)



2. Device Installation

1) Installation in Home, After Purchasing Microwave Oven



2. Device Installation

2) When the customer applies for Microwave Service, the ISP's Operator downloads bundles for Microwave to SolyGate



19	Micro-Wave device driver	ACTIVE	start stop update uninstall
20	Washer device driver	ACTIVE	start stop update uninstall
21	Echelon LNS Base Driver	ACTIVE	start stop update uninstall
22	MicroWaveOven Control Bundle	ACTIVE	start stop update uninstall

2. Device Installation

4) Using Internet Microwave



Control using Internet
Downloading new cooking course



3. Example of Possible Service

3-1. Home Device Control



Web PAD



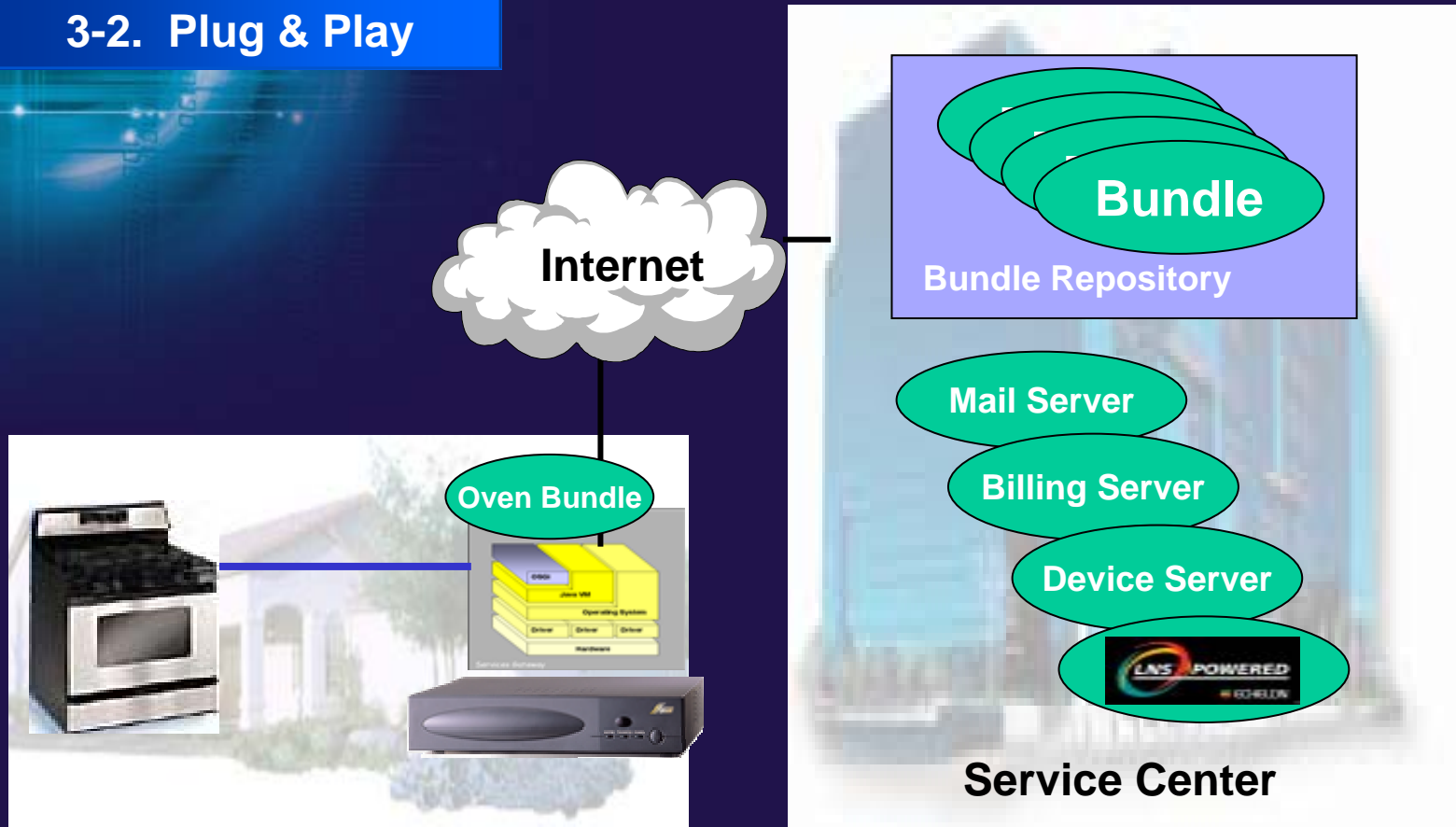
PDA



Mobile (WAP)

3. Example of Possible Service

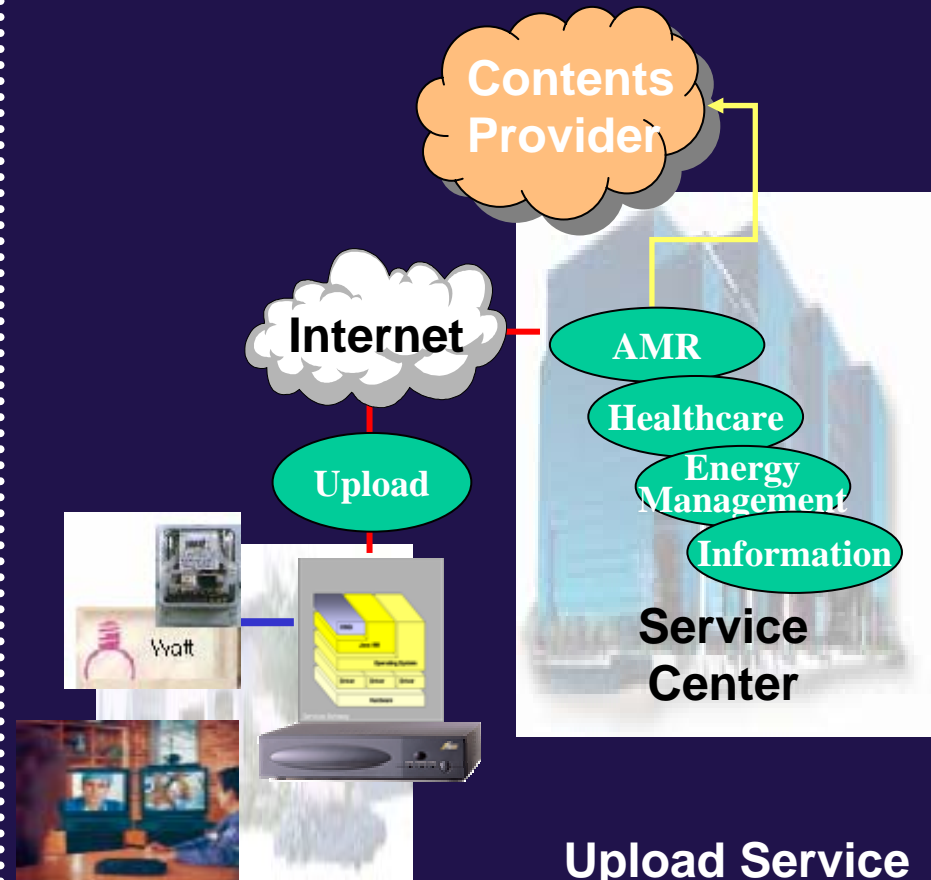
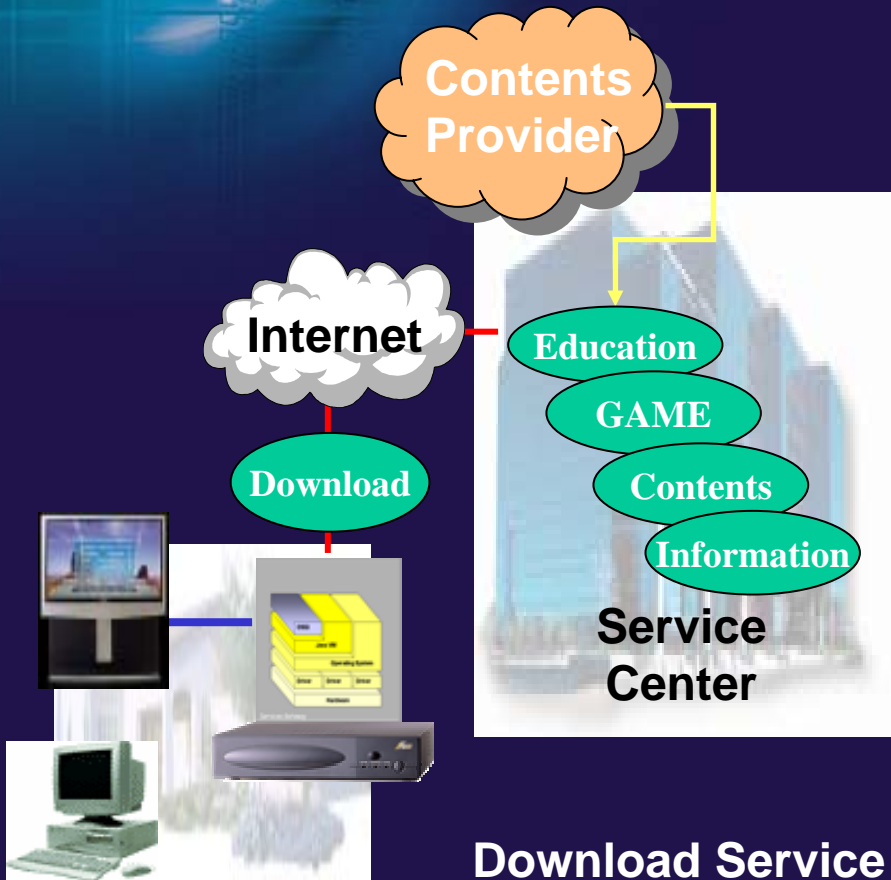
3-2. Plug & Play



- If new devices are added within home, SolyGate automatically downloads new service bundle after finding the appropriate device bundle from service center.

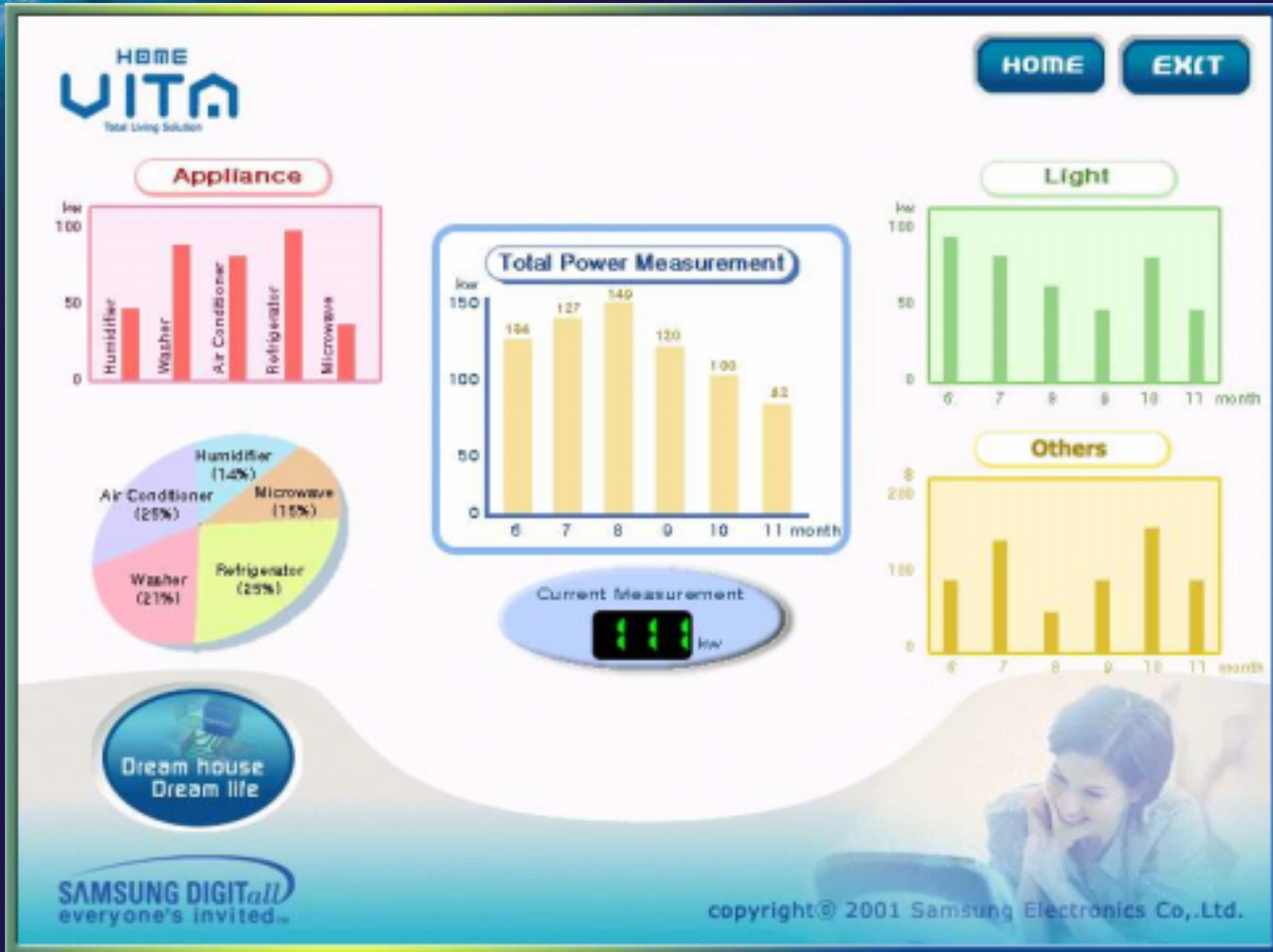
3. Example of Possible Service

3-3. Download / upload Service



3. Example of Possible Service

3-4. Energy Management



3. Example of Possible Service

3-5. AMR Service

Home



Operator



Approval



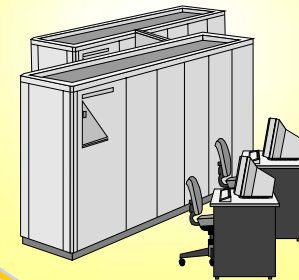
Request

(Automatic & Remote Meter Reading Service)

- Electric
- Gas
- Water



Service Provider



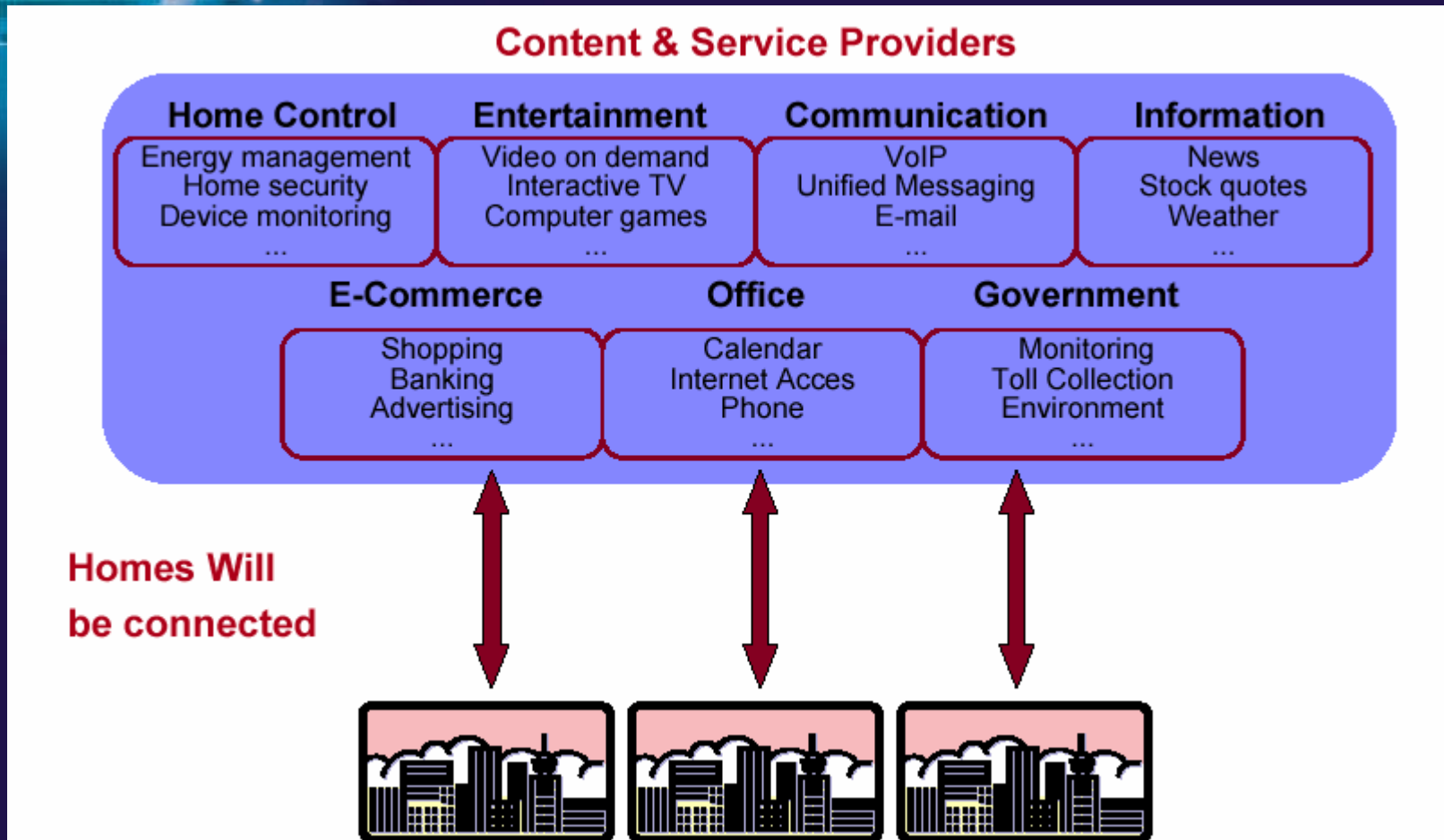
3. Example of Possible Service

3-6. Addition Service

(ADSL, VOD, Network Game, AMR)



4. Contents Provider

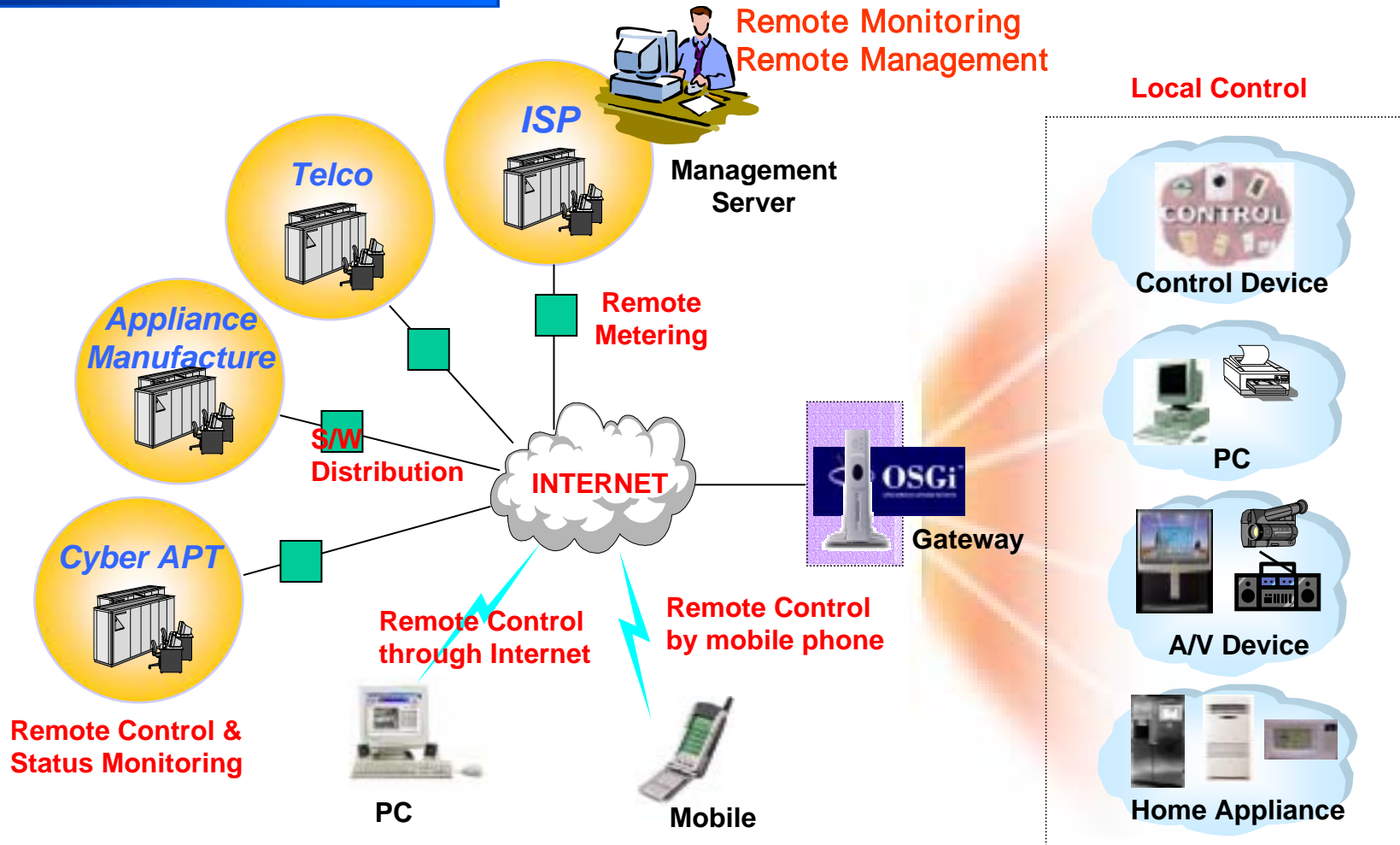


5. RMS (Remote Management System)

5-1. Overall View of RMS

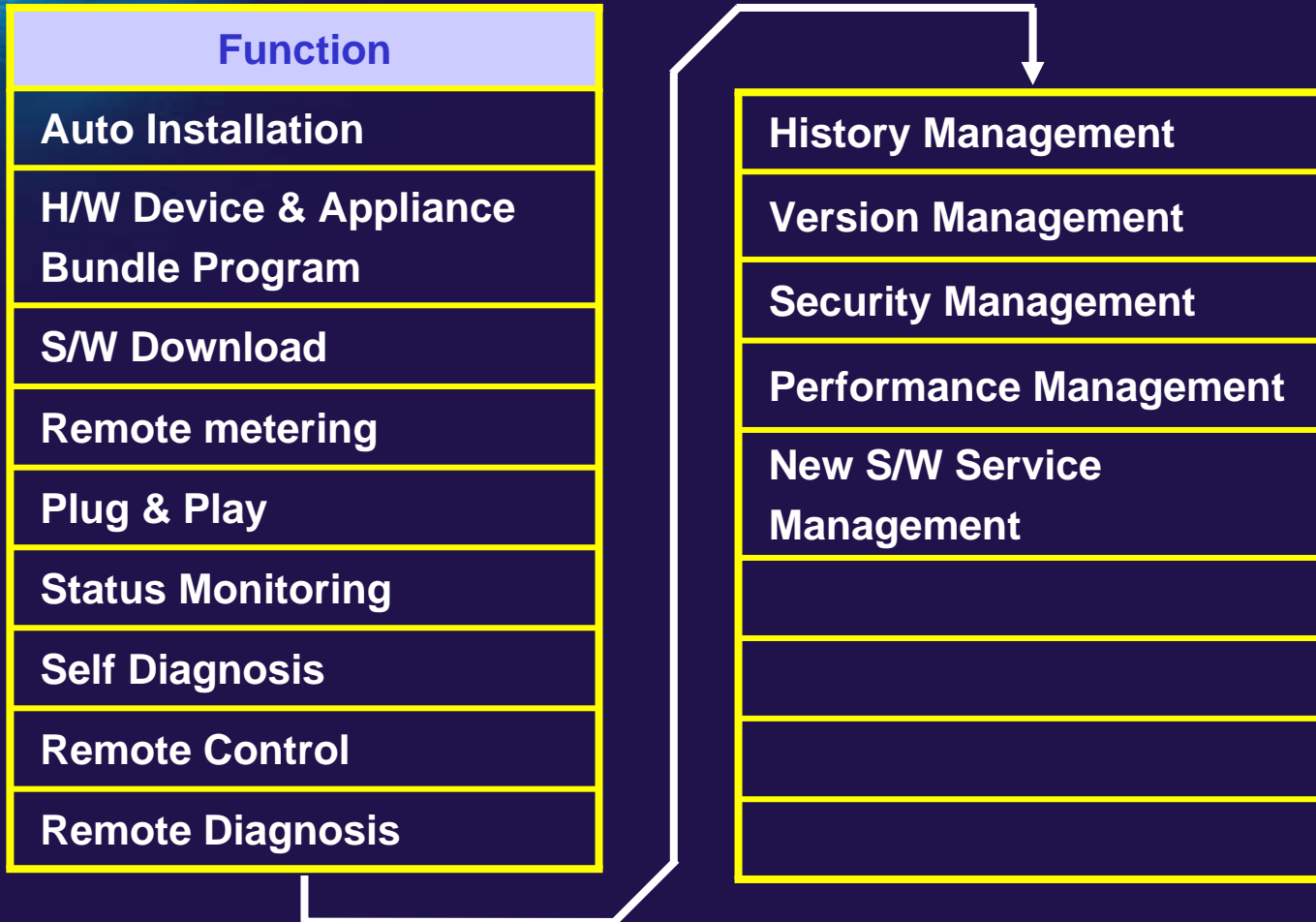
Remote Control
Remote Monitoring
Remote Management

Local Control



5. RMS (Remote Management System)

5-2. Remote Management Solution



5. RMS (Remote Management System)

5-3. RMS of Integer House

HBrain Inc. (Korea)



Gateway

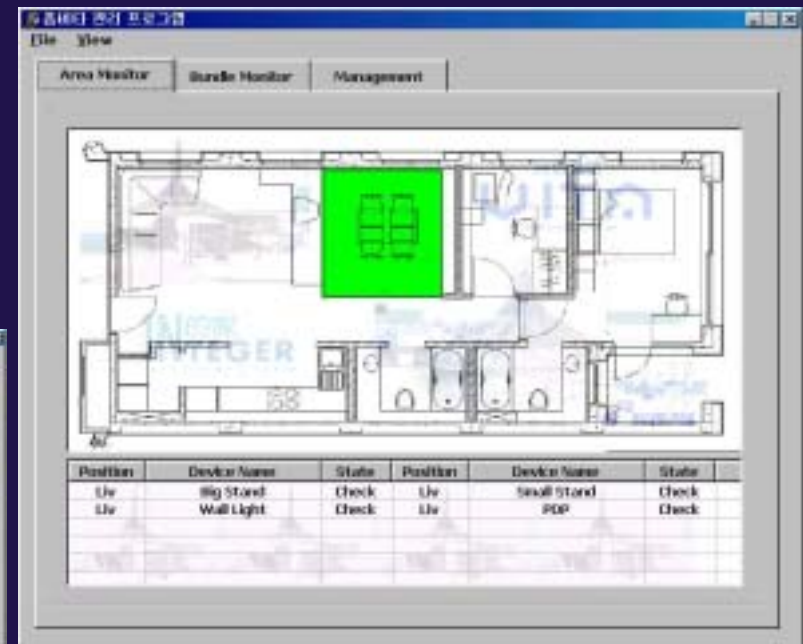


Management Server

Remote Management Through Internet

Integer House
(Hong Kong)

Device Status Monitoring



Position	Device Name	State	Position	Device Name	State
1/e	Big Stand	Check	1/e	Small Stand	Check
1/e	Wall Light	Check	1/e	POP	Check

5. RMS (Remote Management System)



1) Zone Monitoring

- Device current status report by zone
- Error report and treatment description

2) Bundle status monitoring & control history and error Log

- Bundle status report : Resolved / Active
- control history and error log

3) Management Display

- Reboot control
- download new bundle
- update existing bundle



5. RMS (Remote Management System)



4) Error Reporting

- error report by period (day/week/month/year)

5) Web Camera control

- Web camera is controlled as well



ELECTRONICS