

2ND Stage SLH International Pilot Project Architecture & API

AFACT Plenary, Tehran

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Morris H. Hsiao

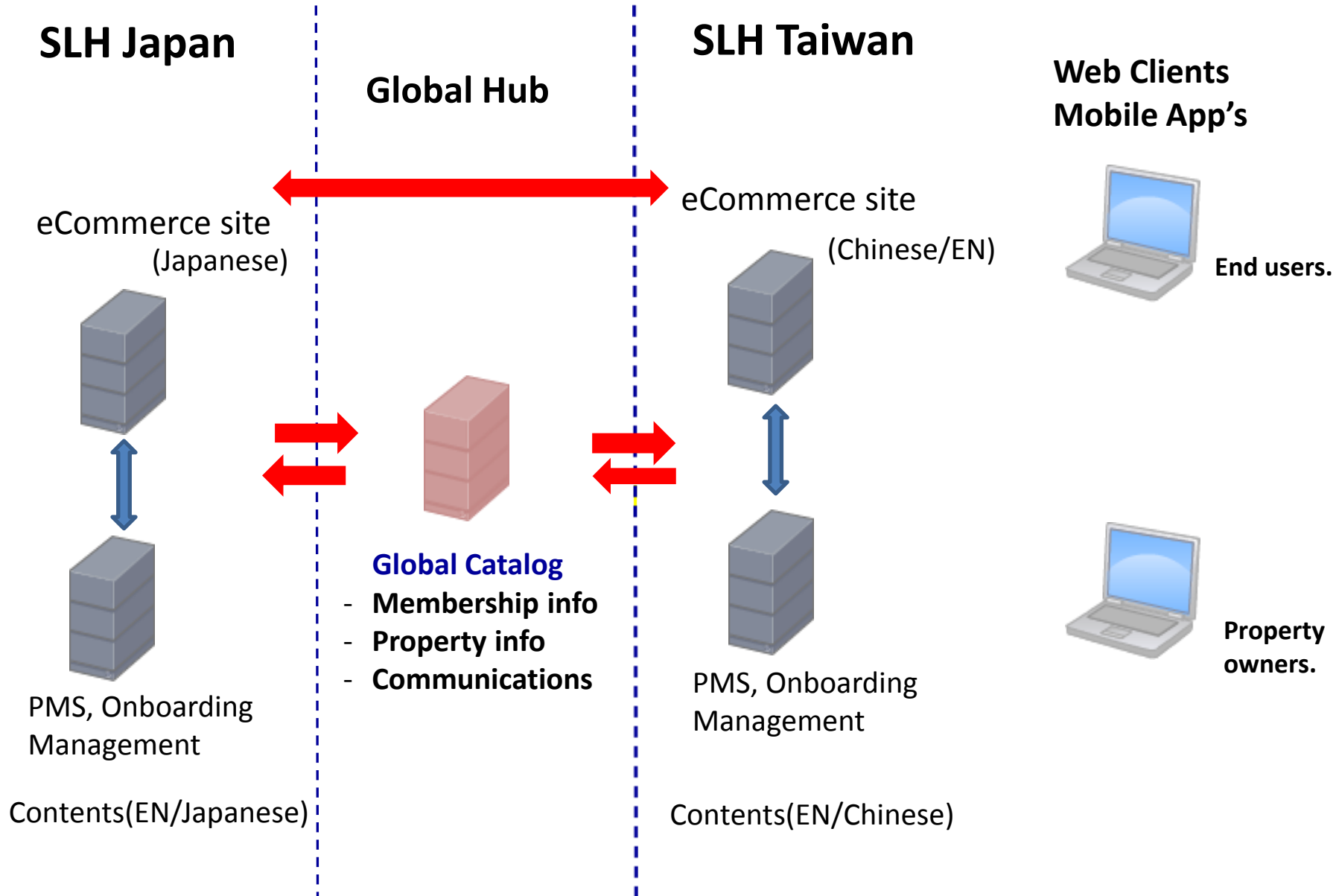
III, Taiwan

hhsiao@iii.org.tw

SLH Pilot System

- System Architecture
- Member Registration
- Property (SLH) information loading/Publishing
- Property (SLH) Updates
 - Description changes
 - Price changes
- Search and Retrieve
- Booking
- API and Web Services
- Status

Pilot System Architecture



Pilot System Initialization

SLH Japan

SLH Taiwan

Global Hub

Web Clients Mobile App's

eCommerce site
(Japanese)

eCommerce site
(Chinese/EN)



End users

1a. Register
1b. Subscribe

1a. Register
1b. Subscribe

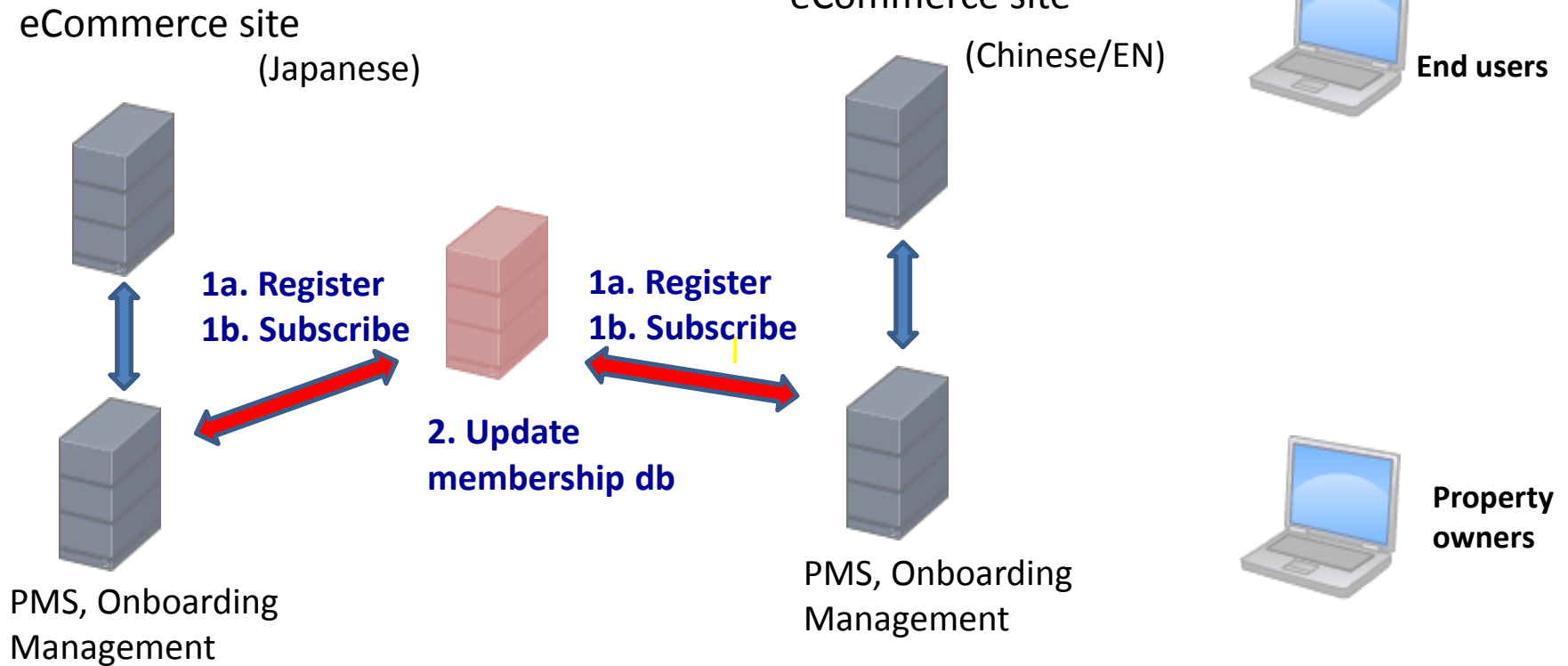
2. Update
membership db

PMS, Onboarding
Management

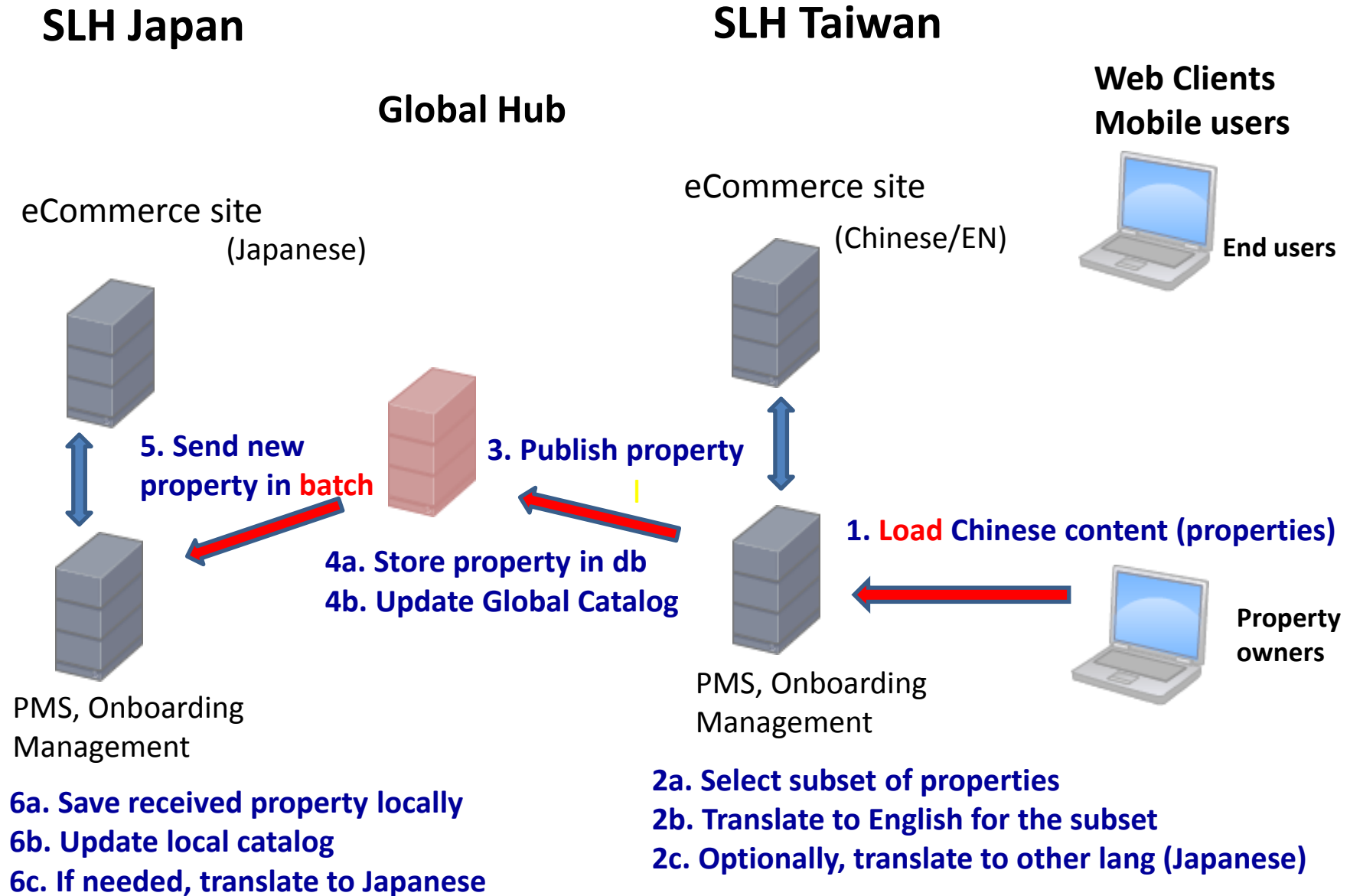
PMS, Onboarding
Management



Property
owners



Pilot System Property Loading



Property Update (I/U/D)

SLH Japan

SLH Taiwan

Global Hub

**Web Clients
Mobile Users**

eCommerce site
(Japanese)

eCommerce site
(Chinese/EN)



End users



5. Send updated
property in **batch**



3. Publish

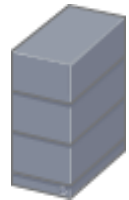
4a. Store property in DB
4b. Update Global Catalog



1. **Update Property**



Property
owners



PMS, Onboarding
Management



PMS, Onboarding
Management

6a. Save received property locally
6b. Update local catalog
6c. If needed, translate to Japanese

2a. In the (or Add to) published set?
2b. Yes - Create/update EN content
Optionally, update Japanese content

Room Rate Change

SLH Japan

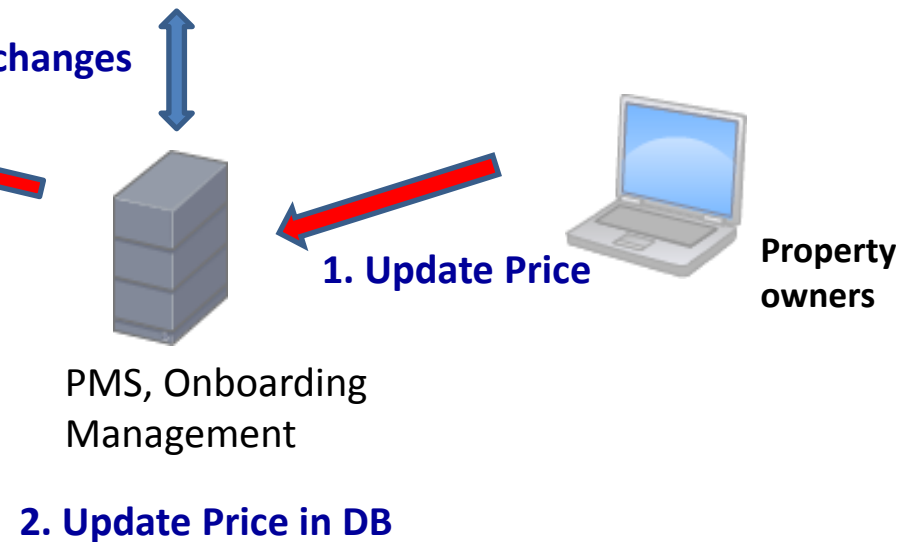
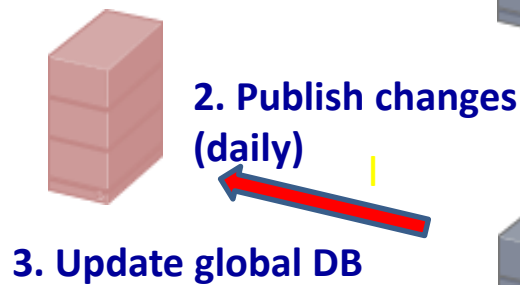
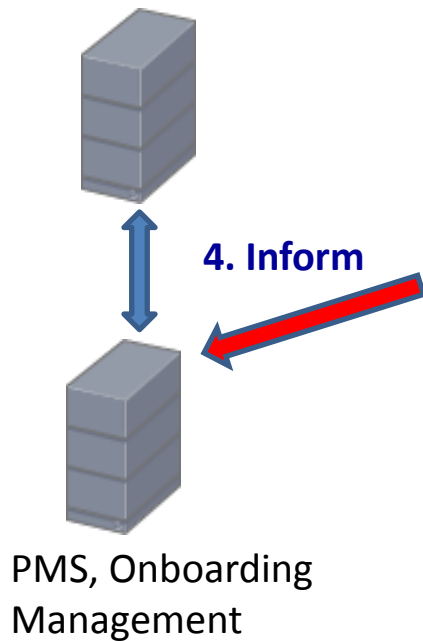
SLH Taiwan

Global Hub

Web Clients Mobile Users

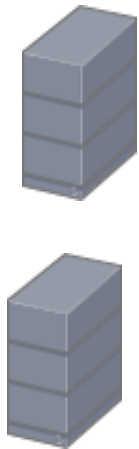
eCommerce site
(Japanese)

eCommerce site
(Chinese/EN)



Browse and Search

SLH Japan



Global Hub



Global Catalog

SLH Taiwan

eCommerce site



PMS, Onboarding
Management

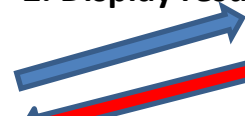
Contents(Chinese/EN)

Web Clients
Mobile Users



End users

2. Display results



1. Browse & Search
(Chinese/EN)

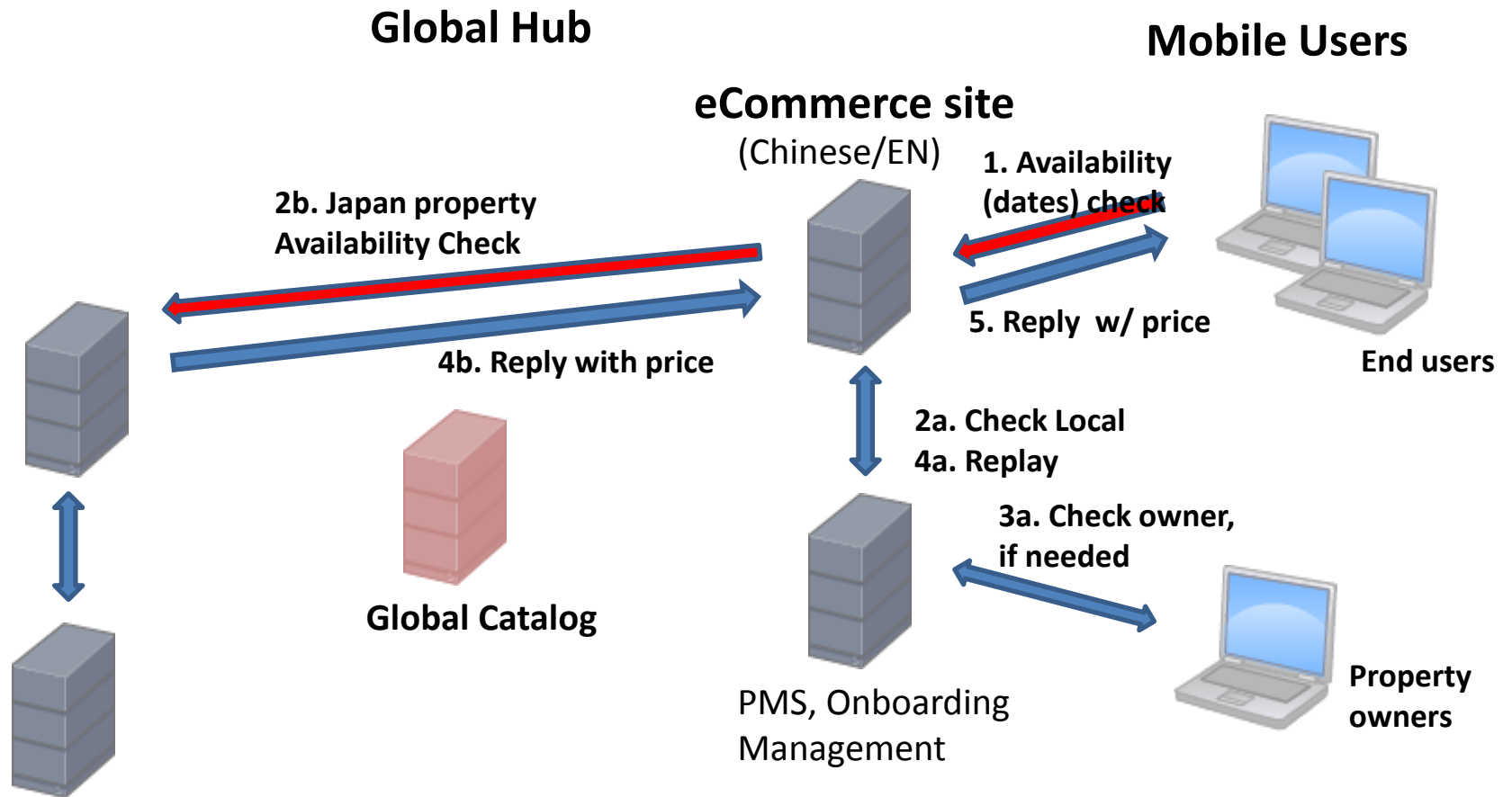


Booking – Check Availability

SLH Japan

SLH Taiwan

Web Clients
Mobile Users



Commit Booking – Local Property

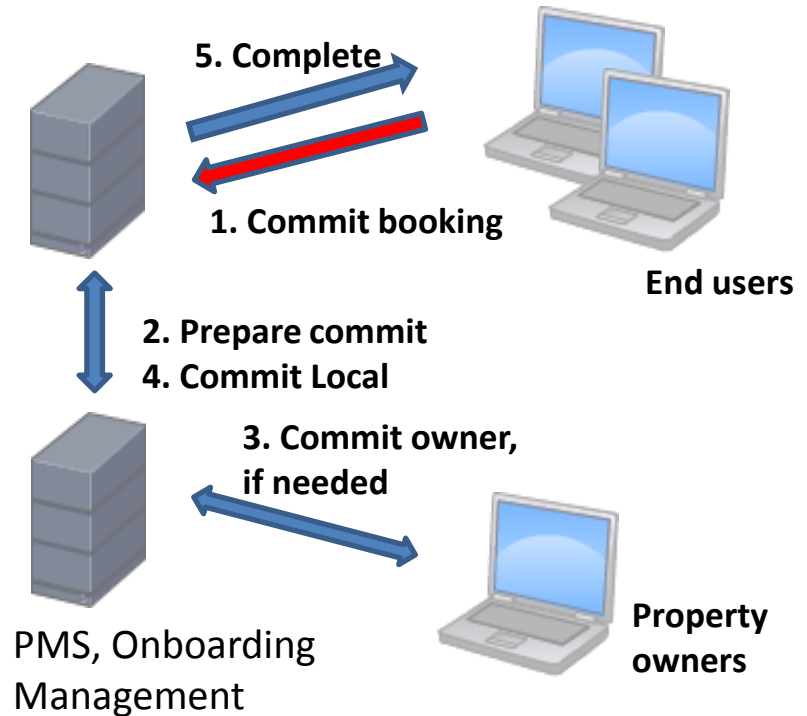
SLH Japan

SLH Taiwan

Global Hub

Web Clients
Mobile Users

eCommerce site



Commit Booking – Foreign Property

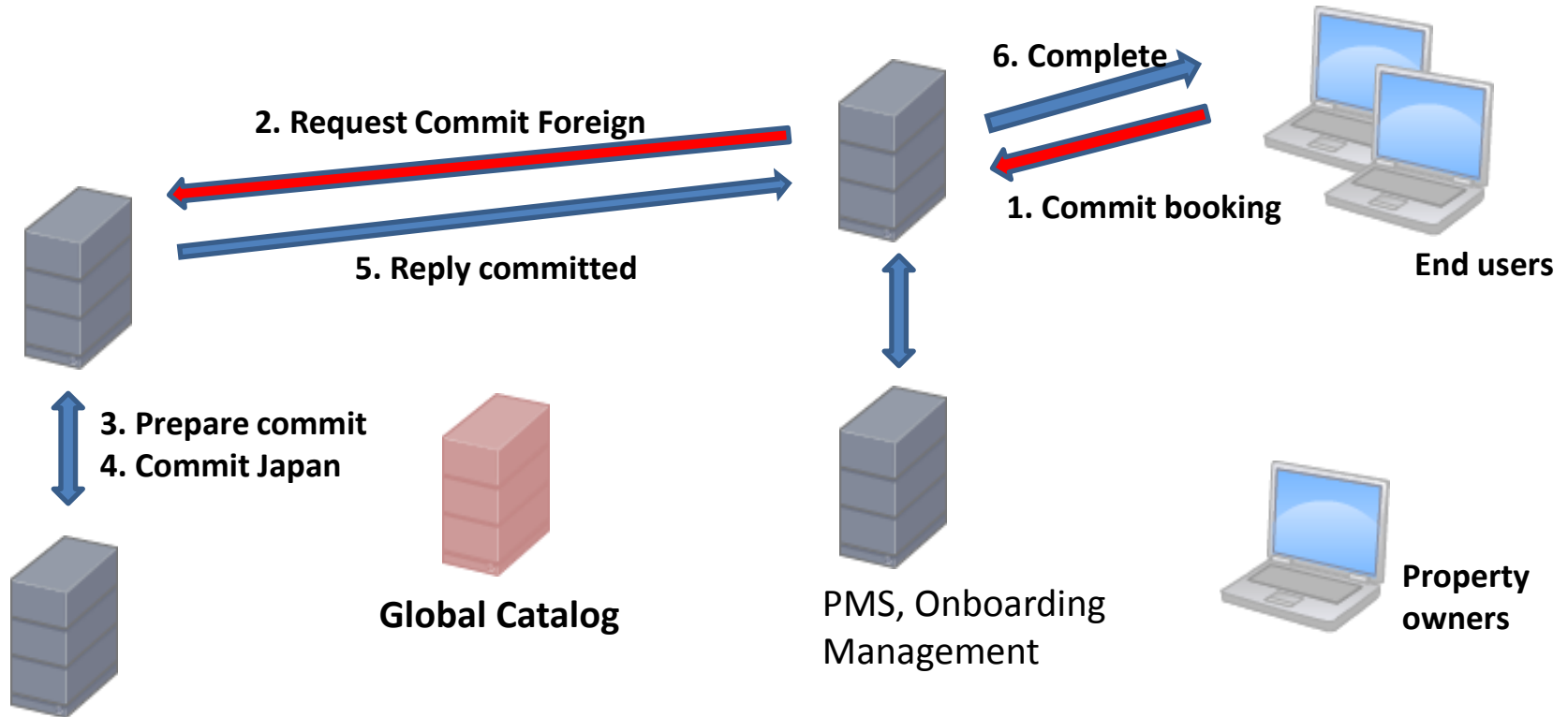
SLH Japan

SLH Taiwan

Global Hub

Web Clients
Mobile Users

eCommerce site



Summary

- Global Hub
 - Manage Registration of participants, membership
 - Cache of Global catalog of SLH property DB in English
 - Manage Vendors' Network communication ports and URL
 - Manage Subscription & forwarding of property information
- Local Vendor
 - Store and manage local property information
 - Publish local property in English to Global Hub
 - Optionally translate local property information to other foreign language (e.g. Chinese to Japanese or Japanese to Korean)
 - Store foreign property info received from Global Hub
 - Optionally translate foreign property information to local language
 - Communicate with Foreign vendors to book foreign property
- Foreign Vendor
 - Same actions as Local Vendor

API and Web Services

- API for the pilot system
 - User/member Registration
 - Property Subscription (country/vendor based)
 - Load/publish property
 - Load/Publish property in batch
 - Remove property
 - Search/Retrieve property
 - Property update
 - Property availability checking
 - Commit booking
 - ...

Example: API and Web Services

- Support RESTful API
- Search and Retrieve Property

Function	Search and retrieve hotel/lodging property information
Swagger	http://140.92.88.153:3001/explorer/#!/Pois/find
Http Method	GET

- Search Filter

Parameter	Value	Description	Parameter Type	Data Type
filter		Filter defining fields, where, include, order, offset, and limit	query	object

- Response

Response	Array[Property]
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Response Detail

- Response Class

POI {

id (string),

type (number, optional): Poi類型 0 : aa , 1 : bb , 2 : cc , 3 : dd , 4 :
Hotel/Lodging , 5: ff,

location (geopoint, optional): POI location ex: {lat: 25.035732, lng: 121.5640777},

beacon (array[object], optional): POI indoor location ex: [beaconID1,
beaconID2, ...],

createTime (string, optional): POI creation time,

countyId (string, optional),

detailId (number, optional),

statisticsId (number, optional),

detail (Detail): poi 詳細資訊,

lodging (Lodging) : poi 住宿內容

}

Response Detail

- Response Class

Detail {

id (number),
poId (string),
name (string): Poi名稱,
description (text, optional): Poi介紹,
address (string, optional): 地址,
parking (string, optional): 停車資訊,
transport (string, optional): 交通方式,
note (string, optional): 其他注意事項,
tel (string, optional): 電話,
website (string, optional): 官方網站,
paying (string, optional): 可接受付費方式 ex: 刷卡、現金,
updateTime (string, optional): 最後更新時間}

...

}

Response Detail

- Response Class

Lodging {

id (number),
poild (string, optional),
grade (number, optional): 星等,
mainAmenities (array[string], optional): 主要設施,
serviceInfo (string, optional), 服務資訊
facilities (string, optional): 綜合設施,
policies (array[string], optional): 訂房須知,
language (array[string], optional): 使用語言,
checkInTime (string, optional), 可checkin 時間
checkOutTime (string, optional), 可checkout時間
rooms(array[Room]) : 房型
}

Room {

id (number, optional),
lodgingId (number, optional),
name (string): 房型名稱,
description (string, optional), 描述
price (number, optional), 價位
peopleNumber (number, optional): 房型人數,
facilities (array[string], optional): 房內設施
}

Status

- Global Hub - **installed** at Ill, Taipei
 - <http://140.92.88.153:3001/explorer/#!/Pois/find>
 - Use MySQL database as repository
- API and Web Services Supported
 - User/member Registration: **to be done**
 - Property Subscription (country/vendor based): **to be done**
 - Load/publish property – **supported**
 - Load/Publish property in batch - **supported**
 - Remove property - **supported**
 - Retrieve property - **supported**
 - Property update – **supported**
 - Property availability checking – **eCommerce site**
 - Commit booking – **eCommerce site**
 - **Payment - eCommerce**
- Taiwan Vendors – Tai san, etc.
- Japan Vendors – TBD

Backup