

OPEN ADMIN[®] Centralization Engine (CE)

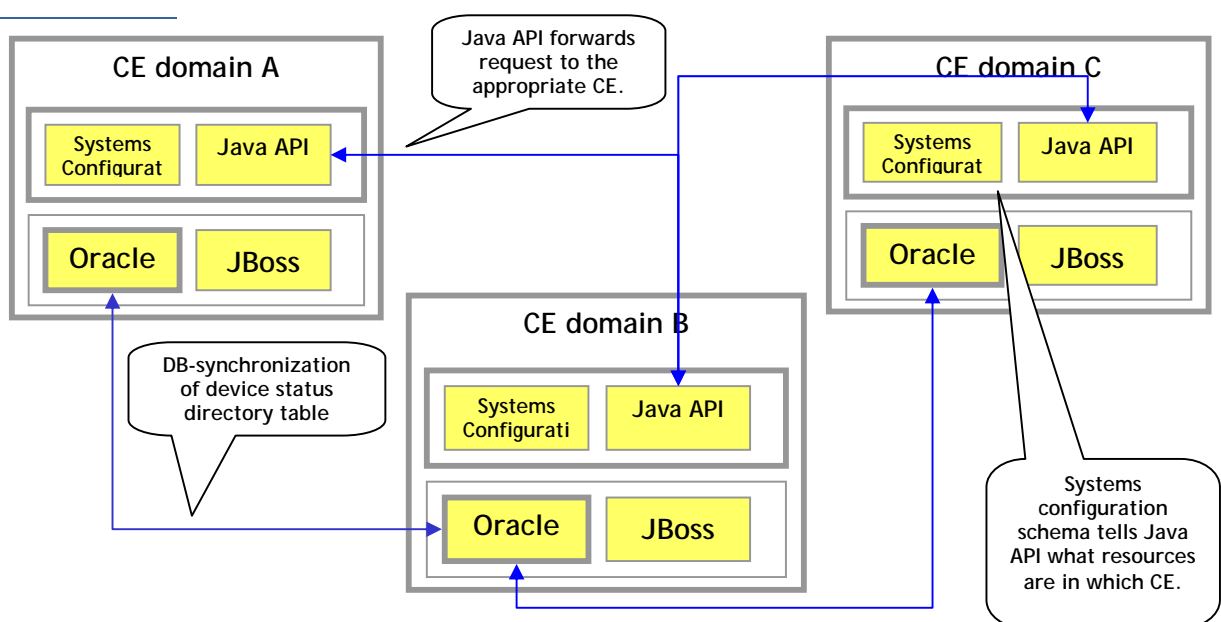
Benefits of CE

1. Unlimited scalability
2. Especially for large scale MSOs
3. Large scale, centralized, integrated system
4. Flexible user administration
5. Advanced operation management for business flow of MSO/SO
6. Integration with Provisioning, SMS/Billing, CRM etc.

“OPEN ADMIN stands for “OPEN architecture network ADMINistration software product series”

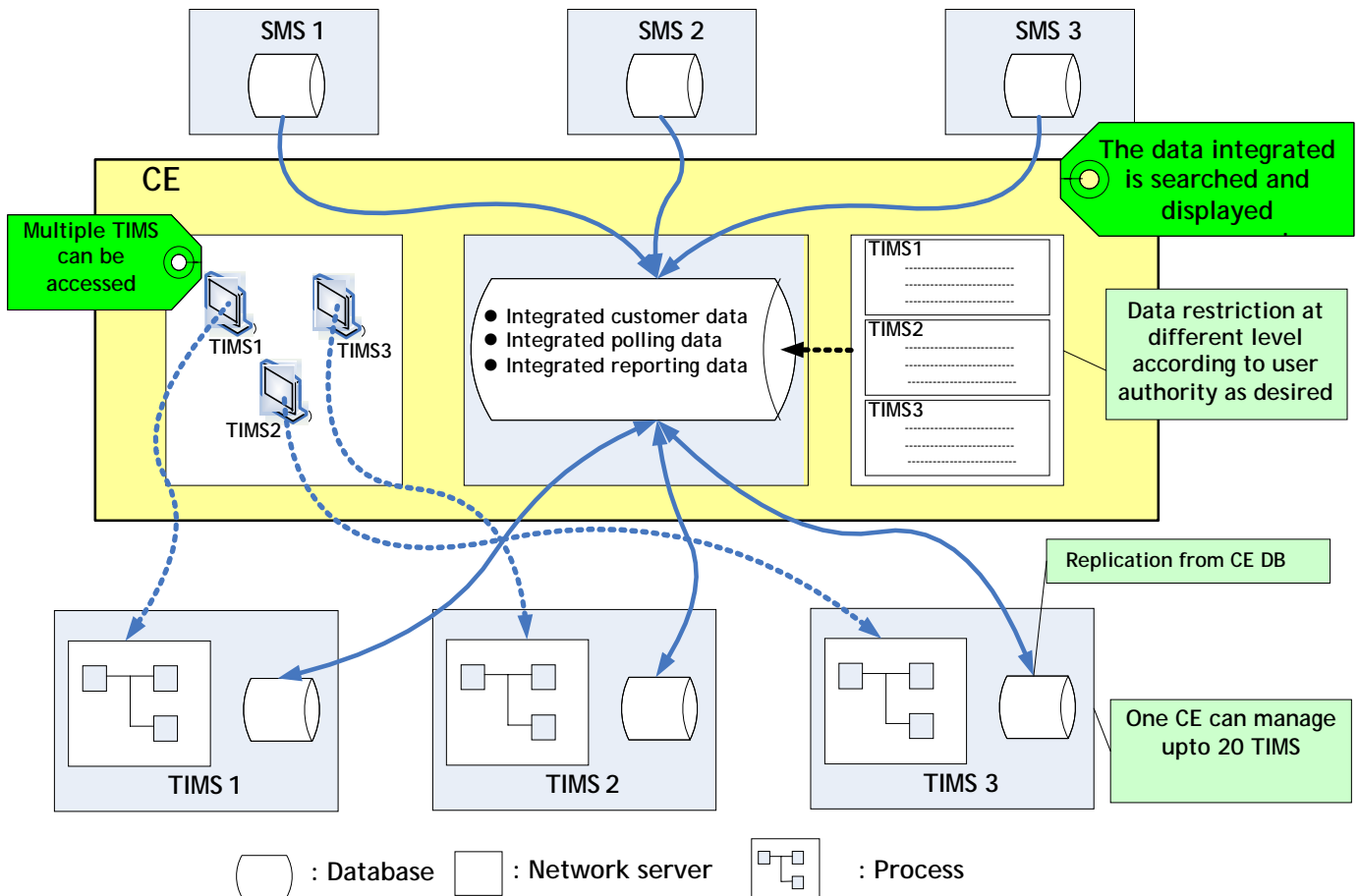
What is OPEN ADMIN CE?

Today's broadcasters and multi-service operators (MSO) are facing new complexities especially with scalability. OPEN ADMIN[®] CE is a large scale, centralized, integrated monitoring system that is integrated with multiple TMS Net. Centralized administrator or operator can control system configuration and has function for data control as desired. Possibility of advanced operation management that considers the business flow of MSO/SO. One CE can controls up to 20 TMS Net units and for every 20 TMS net, one CE can be provided for *unlimited scalability*. Aggregates DOCSIS CM/STB address information detected by each TMS and enables centralized management.



Multiple CE and unlimited scalability

System configuration of CE



“OPEN API allows flexible integration with multiple SMS/Billing and provisioning systems”

“Notifies failure events to the upper level NMS through SNMP, JMX etc”

When integrated with CE, the CM/STB address information automatically detected by each TIMS is aggregated in the CE. The upper level NMS can efficiently access the distributed data sources in each OSTM station using the API provided by the CE. In an MSO configuration, SMS/Billing is placed in the OSTM domain layer or the layer above it, and the CM/STB information retrieved from the SMS is appropriately allocated to each OSTM station. CE also has various other API features which can be used in an MSO configuration.

Alarm List Screen

Corp: Kyoto_001 | TIMS: T6(B-TV) | Recovered alarm: no | Alarm category: RF error | Alarm category: all | Confirmed alarm: yes | Alarm type: all

Last updated date: 2007/06/08 19:29:17

Corp	TIMS	Alarm category	Fault occurred date and time	Device name	HFC equipment type	Error description	comment	confirm	detail
Kyoto_001	T6(B-TV)	RF系	2007/01/15 09:47:57	O-TBA2-001					detail
Kyoto_001	T6(B-TV)	RF系	2007/01/15 09:47:57	O-TBA2-001					detail
Kyoto_001	T6(B-TV)	RF系	2007/01/15 09:47:56	O-TBA2-001					detail

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Customer list screen

sort1: [] | sort2: [] | sort3: [] | Display records: 20 | search: sort

Last update date and time: 2007/06/08 19:22:13

corp	TIMS	MAC address	Port number	CustomerID	Name	Address	MDU name	Detail
Kyoto_001	T1(I-NET)	0020403A680C	Cable2/0-upstream0	0000000001				detail
Kyoto_001	T1(I-NET)	0020403BA730	Cable2/0-upstream0	0000000002				detail
Kyoto_001	T1(I-NET)	002040526390	Cable2/0-upstream0	0000000003				detail
Kyoto_001	T1(I-NET)	002040902A20	Cable2/0-upstream0	0000000005				detail
Kyoto_001	T1(I-NET)	000039FE7646	Cable2/0-upstream0					detail
Kyoto_001	T1(I-NET)	000C3D10073E	Cable2/0-upstream0					detail
Kyoto_001	T1(I-NET)	0020403A68D6	Cable2/0-upstream0					detail

Web enabled reporting system of CE

Summary of CE

*“Single Sign-on
framework, means you
can access any TIMS
Net from any CE”*

- **OPEN ADMIN® series MSO application**
 - Centralization Engine : Centralize distributed TIMS/DE/AE servers information
 - Directory service to find a TIMS in charge of a specific CM
 - Support up to 20 TIMS stations
 - Unlimited scalability by multiple CE configuration
- **SMS/Provisioning integration**
 - Publish SMS information to TIMS
 - Subscribe CM address information from TIMS
 - APIs for business applications
 - SLA reporting
- **CAD/Mapping integration**
 - Publish HFC map information to DE
- **OPEN ADMIN/STM distributed server configuration management**
 - All systems configurations are managed in CE and published to servers
 - Configurations can be restored from CE when a server crashes
- **Flexibility for future expansion**
 - Up to 15 OIDs can be configured for each STB types, not limited to rating info but any info inside STBs.

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