



OpenDRIM

(Open **D**istributed **R**esource **I**nformation **M**anagement)

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1. Project Introduction
2. Development Activities
3. Internationalization
4. OpenDRIM in Ubuntu
5. OpenDRIM for DMTF

A 3D rendering of several interlocking puzzle pieces in a light gray color, scattered across a white grid floor. Several bright orange arrows originate from the center of the puzzle pieces and point outwards in various directions, suggesting expansion or movement.

OPENDRIM PROJECT

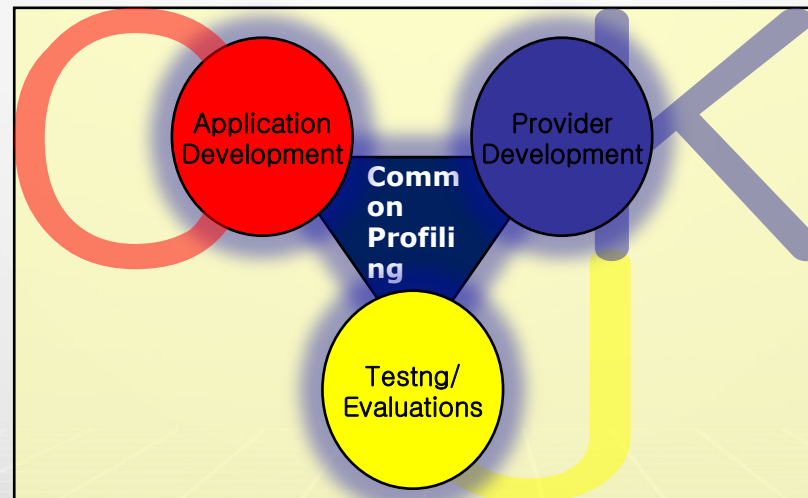
- “**Distributed Resource Information Management**”



- Mother Project for System Management Domain
 - OpenDRIM for “Linux Server”
 - OpenDRIM for “Linux Desktop”
 - OpenDRIM for “Linux Mobile”
 - OpenDRIM for “Virtualization”
 - ...
- <http://sourceforge.net/projects/opendrim/>

Project Goals

- **Develop** distributed resources information management technologies & environment based on CIM/WBEM standards of DMTF
- via **CJK collaborative**
- **open source project,**
- in order to **contribute back** to the open source community



Project Meetings

- 2006. 9. 4 (Jeju)
 - First talk at WG1 meeting of NEA OSSPF
- 2006. 9. 27 (Beijing)
 - Leader's meeting to build up the Project
- 11 meetings for 2007
 - 5 F2F Project Leaders Meeting
 - 4 Conference Call
 - 2 Developer Camp



OpenDRIM Developer Camp

❑ 1st OpenDRIM Developer Camp

- 2006.10.30~31 (Beijing),
- 2006.11.20 (Fukuoka)
- 20 participants from CJK



❑ 2nd OpenDRIM Developer Camp

- 2007.9.10~11 (Jeju)
- 18 participants from CJK



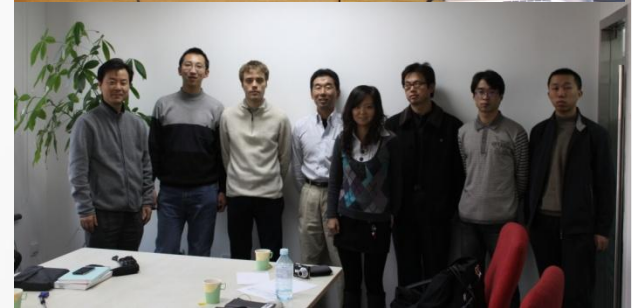
❑ 3rd OpenDRIM Developer Camp

- 2008.10.29 (Wuxi)
- 10 active members from CJK



❑ 4th OpenDRIM Developer Camp

- 2009.12.2~3 (Beijing)
- 9 active members from CJK

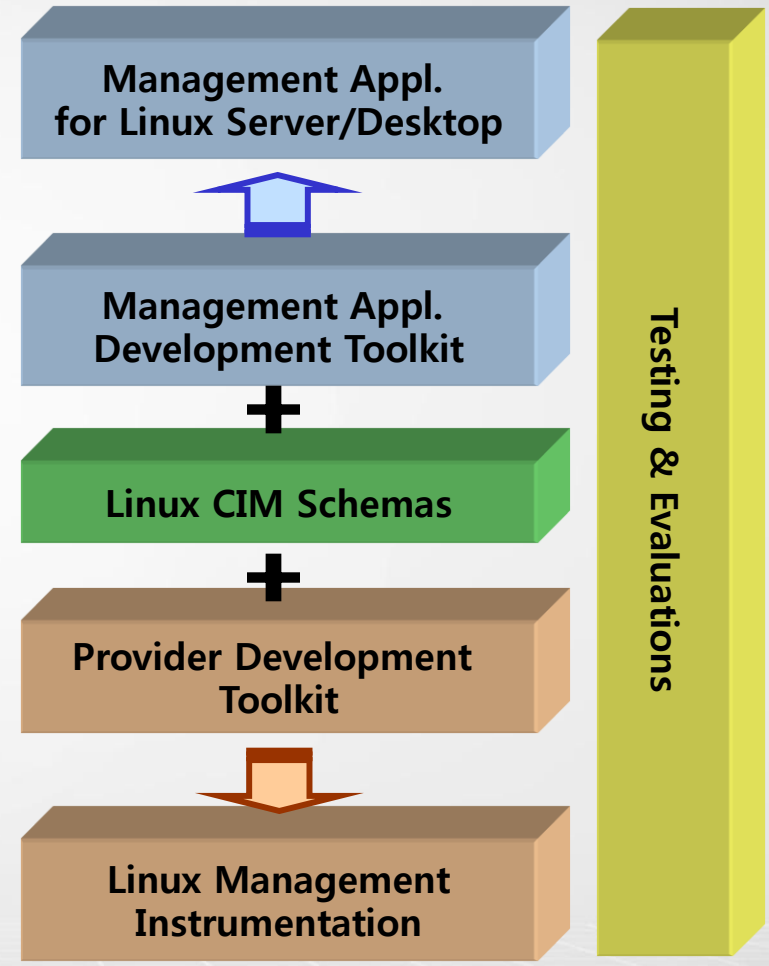
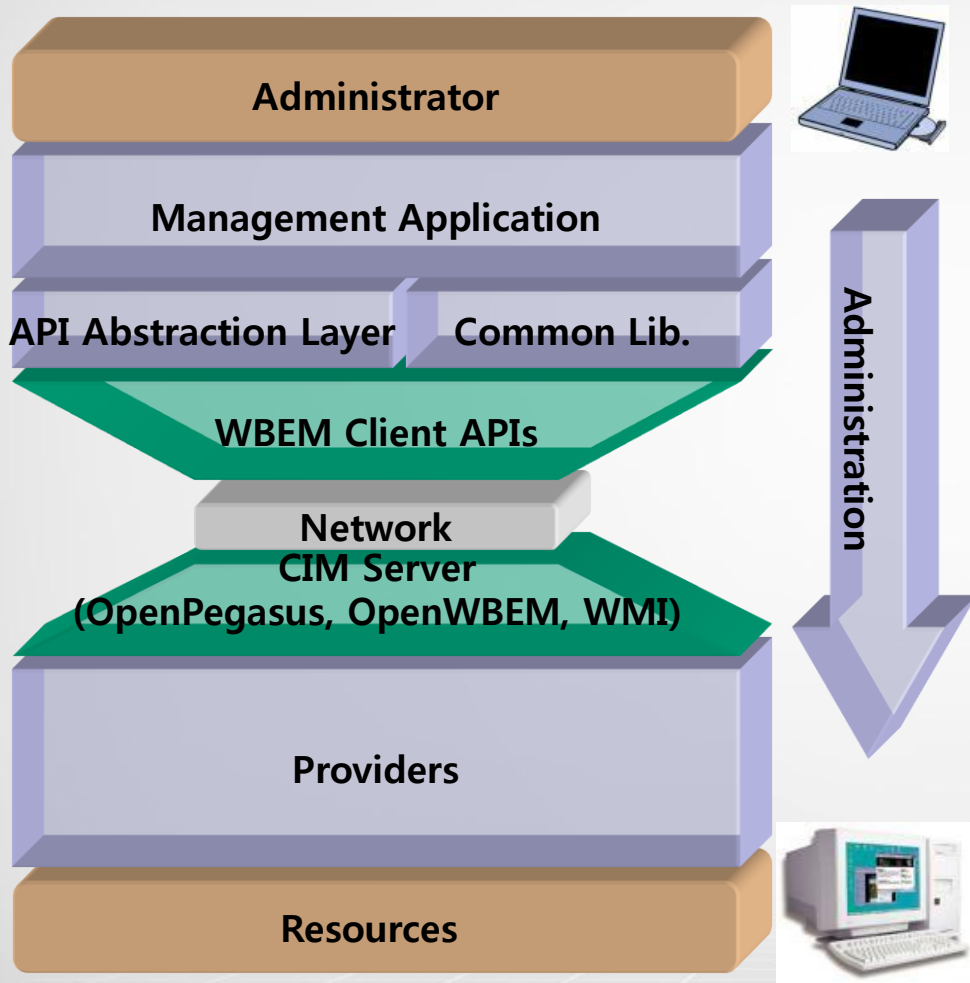


❑ 5th OpenDRIM Developer Camp

- 2010.9.9~10 (Busan)
- 10 active members from CJK
- Welcome to ODC 2010



Architecture



- Profiling for Linux System Management according to the Application's requirements
- Rewriting OpenDRIM providers against standard profiles
- Develop additional providers necessary for management applications
- Development Tools for providers

OpenDRIM Suite

Base Server	OpenDRIM 2008	OpenDRIM 2009	OpenDRIM 2010
Ethernet Port	OpenDRIM 2008	OpenDRIM 2009	OpenDRIM 2010
IP Interface	OpenDRIM 2008	OpenDRIM 2009	OpenDRIM 2010
Record Log	OpenDRIM 2008	OpenDRIM 2009	OpenDRIM 2010
Physical Asset	OpenDRIM 2008	OpenDRIM 2009	OpenDRIM 2010
System Memory	OpenDRIM 2008	OpenDRIM 2009	OpenDRIM 2010
OS	-	OpenDRIM 2009	OpenDRIM 2010
CPU	-	OpenDRIM 2009	OpenDRIM 2010
Simple Identity Management	-	OpenDRIM 2009	OpenDRIM 2010
DNS	-	OpenDRIM 2009	OpenDRIM 2010
DHCP	-	OpenDRIM 2009	OpenDRIM 2010
Software Inventory	-	OpenDRIM 2009	OpenDRIM 2010
Bios	-	OpenDRIM 2009	OpenDRIM 2010
Boot Control	-	OpenDRIM 2009	OpenDRIM 2010
PCI Information	-	OpenDRIM 2009	OpenDRIM 2010
Power State Management	-	OpenDRIM 2009	OpenDRIM 2010
Sensor	-	OpenDRIM 2009	OpenDRIM 2010
Software Update	-	OpenDRIM 2009	OpenDRIM 2010
Power Supply	-	OpenDRIM 2009	OpenDRIM 2010
Battery	-	OpenDRIM 2009	OpenDRIM 2010
SSH	-	-	OpenDRIM 2010
Fan Profile	-	-	OpenDRIM 2010
Telnet Service Profile	-	-	OpenDRIM 2010
Role Based Authorization	-	-	OpenDRIM 2010
Integrated Access Control Policy Management Profile	-	-	OpenDRIM 2010
System Virtualization Profile	-	-	OpenDRIM 2010
Processor Resource Virtualization Profile	-	-	OpenDRIM 2010
Storage Resource Virtualization Profile	-	-	OpenDRIM 2010
Base Desktop and Mobile Profile	-	-	OpenDRIM 2010
Power Utilization Management Profile	-	-	OpenDRIM 2010

- Collaboration with other OSS Communities
 - SBLIM (IBM), LIFE (Novell), ...
 - Ubuntu, Asianux, (Fedora)
 - SPF Project
(Secure Platform Project with Xen, Japan)



- "Linux Manageability" WG
in Linux Foundation



Provider Support Comparison

Profiles No.	Management Profiles	SUN	IBM	HP	SBLIM	OpenDRIM
		9	7	17	21	21
DSP1002	Diagnostic Profile				△	
DSP1004	Base Server Profile	○	○	○	△	○
DSP1009	Sensors Profile	○		○		○
DSP1010	Record Log Profile	○		○	△	○
DSP1011	Physical Asset Profile	○	○	○	△	○
DSP1014	Ethernet Port Profile				△	○
DSP1015	Power Supply Profile			○		○
DSP1022	CPU Profile	○		○	△	○
DSP1023	Software Inventory Profile		○	○	△	○
DSP1025	Software Update Profile					○
DSP1026	System Memory Profile	○		○	△	○
DSP1027	Power State Management Profile			○		○
DSP1029	OS Status Profile			○		○
DSP1030	Battery Profile					○
...

- Ubuntu Karmic ('09.10) adopted OpenDRIM results
 1. libopendrim-common
 2. opendrim-imp-baseserver
 3. opendrim-imp-ethernetport
 4. opendrim-imp-systemmemory
 5. opendrim-imp-recordlog
 6. opendrim-imp-physicalasset
 7. opendrim-imp-ip
- Further Collaboration
 - 20 ~ 30 more providers
 - Provider Development Tools
- Links
 - <https://blueprints.launchpad.net/ubuntu/+spec/server-karmic-wbem-providers>
 - <https://wiki.ubuntu.com/WbemProviders>

OpenDRIM in Ubuntu

The screenshot shows the Synaptic Package Manager window in Ubuntu. The search bar contains 'opendrim'. The main window displays a table of search results with columns for Package, Installed Version, Latest Version, and Description. The table lists 8 packages related to OpenDRIM. Below the table, there are buttons for 'Sections', 'Status', 'Origin', 'Custom Filters', and 'Search Results'. At the bottom, a status bar indicates '8 packages listed, 1284 installed, 0 broken. 0 to install/upgrade, 0 to remove'.

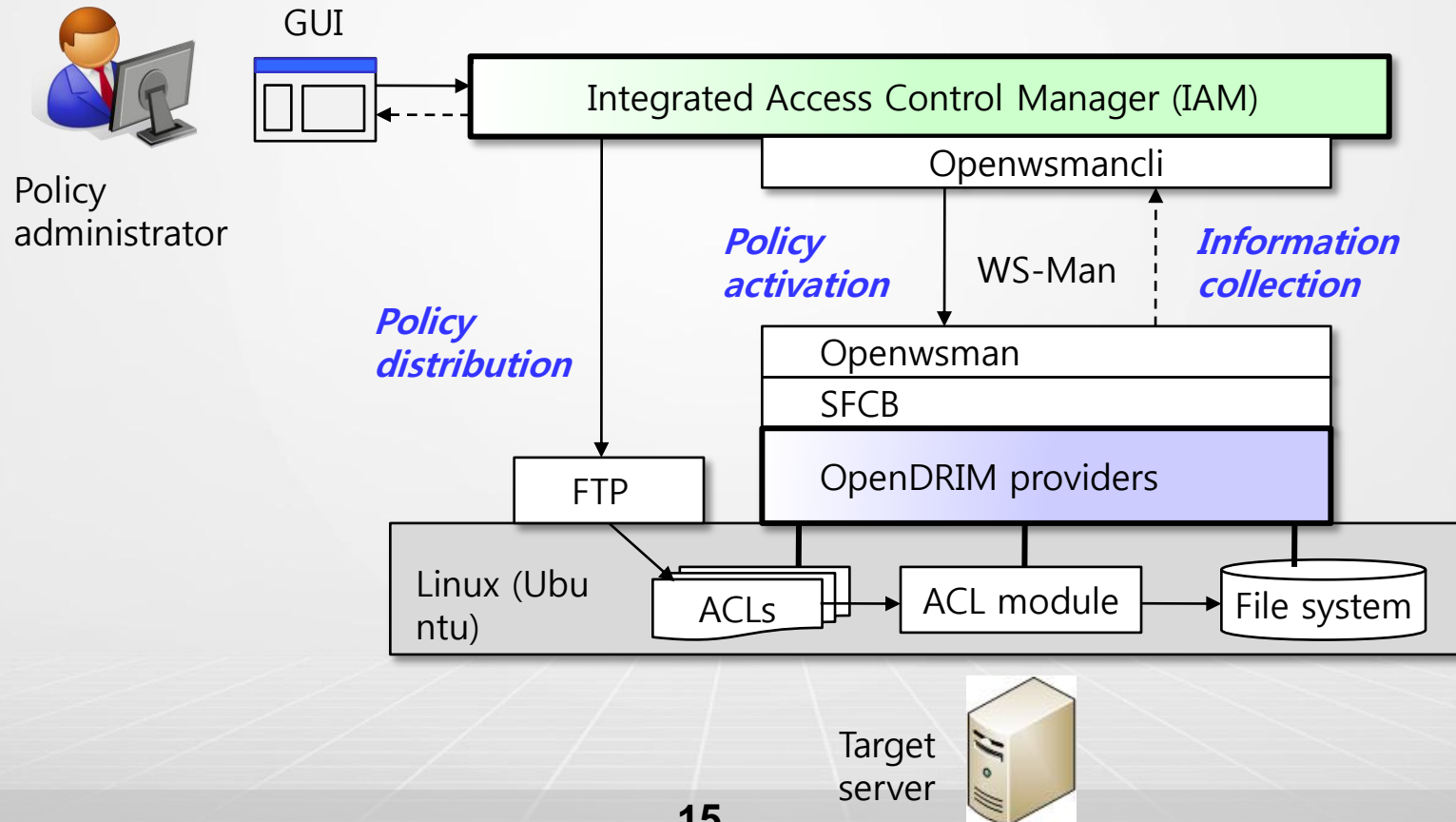
S	Package	Installed Version	Latest Version	Description
<input type="checkbox"/>	libopendrim0-dev		1.1.1-0ubuntu1	OpenDRIM Provider Cor
<input type="checkbox"/>	libopendrim0		1.1.1-0ubuntu1	OpenDRIM Provider Cor
<input checked="" type="checkbox"/>	opendrim-imp-baseserver		1.1.1-0ubuntu1	OpenDRIM Base Server
<input checked="" type="checkbox"/>	opendrim-imp-systemmemory		1.0.1-0ubuntu1	OpenDRIM System Men
<input checked="" type="checkbox"/>	opendrim-imp-ethernetport		1.1.1-0ubuntu1	OpenDRIM Ethernet Po
<input checked="" type="checkbox"/>	opendrim-imp-physicalasset		0.1.1-0ubuntu1	OpenDRIM Physical Ass
<input checked="" type="checkbox"/>	opendrim-imp-recordlog		1.1.1-0ubuntu1	OpenDRIM Record Log
<input checked="" type="checkbox"/>	opendrim-imp-ip		1.1.1-0ubuntu1	OpenDRIM IP provider

8 packages listed, 1284 installed, 0 broken. 0 to install/upgrade, 0 to remove

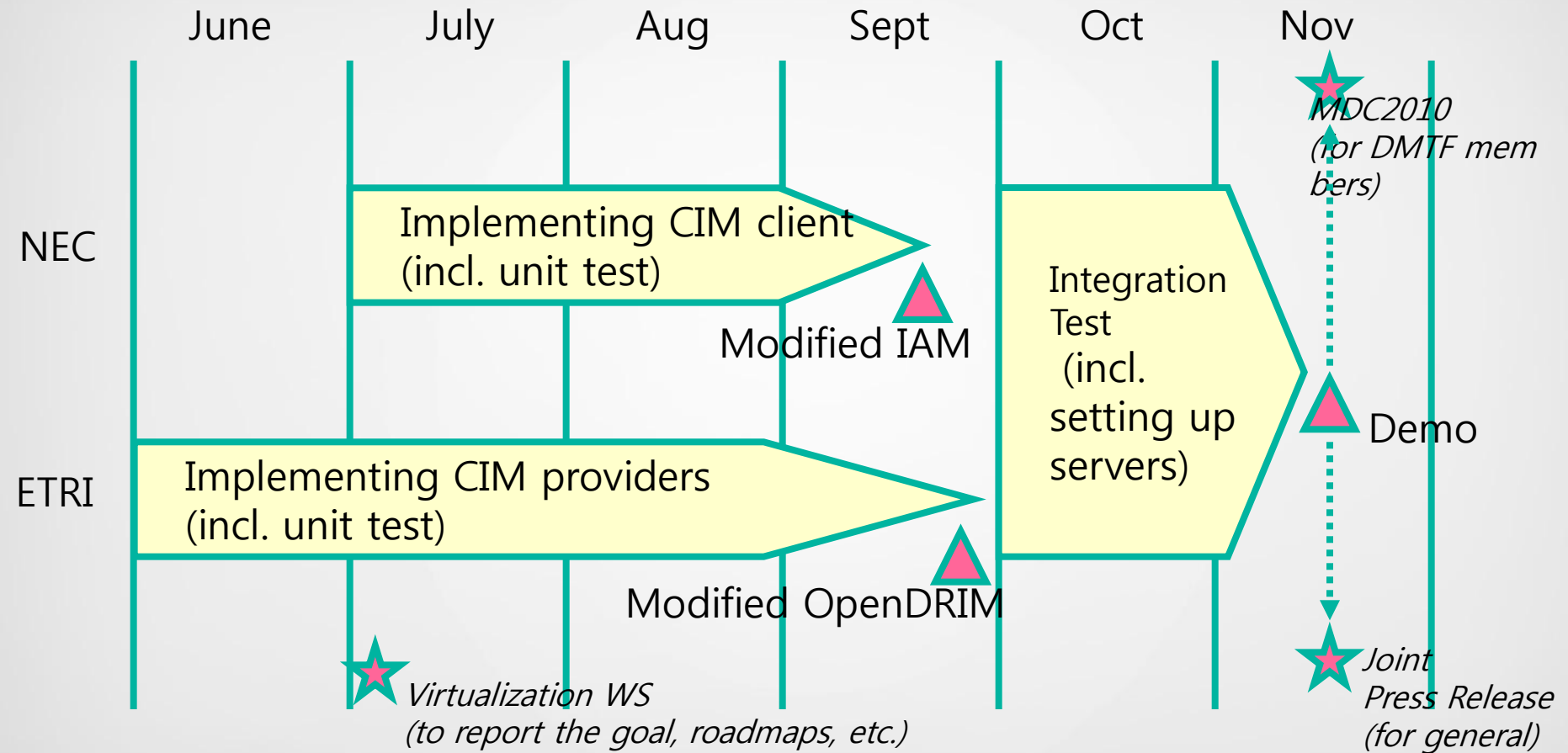
SPF-OpenDRIM Collaboration

- Project Goal

- To show the feasibility of managing File ACLs based on Integrated Access Control Management (IAM) Profile.
- To demonstrate the prototype implementation in MDC 2010 (Nov 15-18).



Collaboration Plan



Questions

