

iPECS

UCS Server

Administration Guide

Please read this manual carefully before operation. Retain it for future reference.

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5.5.12	4.7	P5.5 update and release	2016-08-31

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About This Guide

This section describes the purpose, audience, organization, and conventions that are used in this iPECS UCS (Unified Communications Solution) Server Administration Guide

NOTE

Screens may appear different than displayed in this manual depending on the OS (Operating System) and other factors. All information in this guide is subject to change without prior notice.

Purpose

This guide describes how to install and administer iPECS UCS Server, version 4.

Audience

This guide is intended for administrators responsible for the installation and configuration of the iPECS UCS Server.

Document Organization

This guide consists of seven Chapters and an Appendix, as well as this 'About This Guide' section.

- About This Guide
- Chapter 1: Introduction
- Chapter 2: Installation of UCS Server
- Chapter 3: Connecting to iPECS PBX System
- Chapter 4: UCS User Registration
- Chapter 5: UCS Client Login
- Chapter 6: Administration(Web Admin)
- Chapter 7: Administration(Service Controller)
- Appendix: Port Table, Log Messages

Chapters 2 ~ 5 are documented to provide detailed explanation of UCS Server installation to UCS Client login in a step by step format to assist beginners.

Chapters 6 ~ 8 are documented to provide detailed explanation to enable management of UCS Server after installation.

Document Conventions

This section describes text formatting conventions and important notice formats used in this guide.

Text formatting

The narrative-text formatting conventions that are used are as follows:

Convention	Description
Bold text	It may indicate a button, menu item, or dialog box option you can click or select.
<i>Italic text</i>	A cross-reference or an important term.
<code>Code text</code>	A command prompt.

Important notice

The following icons and notices are used in this guide to convey important cautions and notes.



CAUTION

A caution statement alerts you to situations that may cause damage to hardware, software, or data.

NOTE

A note provides additional explanations, important information, or a reference to related information.

Chapter 1

Introduction

1.1 Program Overview

iPECS UCS (Unified Communications Solution) is a powerful suite of communication applications and tools designed to link multiple devices and applications seamlessly.

The system configuration illustrated below displays the three components of iPECS UCS, the iPECS UCS Server, the iPECS UCS Clients (PC, Android, iPhone) and the iPECS IP PBX platform (CM or Unified), all connected over an IP network.

Working with the iPECS platform, iPECS UCS simplifies human interaction and increases productivity, allowing employees to access information and business tools using any device, regardless of location.

iPECS UCS Server integrates communications applications including Instant Messaging and Presence indication as well as real-time voice, video and file sharing with tools including Call Recording, Individual Customized Call Routing, Shared and Private contact directories, Exchange Server integration, LDAP Server integration and Schedule Management. USC Server also makes available Multi-party Video Conference and Collaborative sessions to the UCS desktop Client.

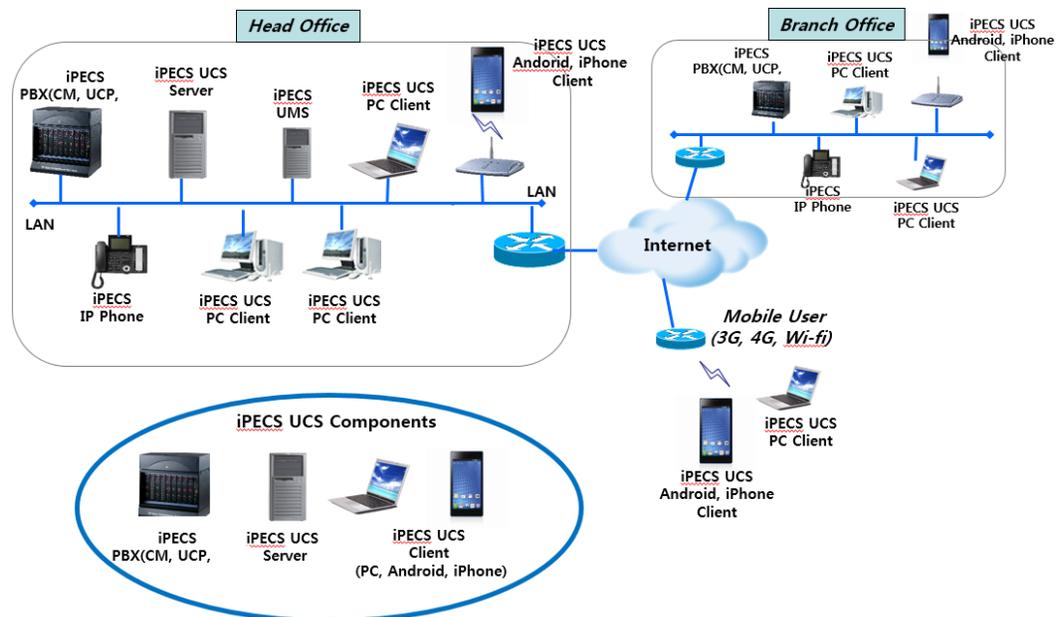


Figure: System Configuration

1.2 Composition of iPECS UCS Server

iPECS UCS Server is comprised of 4 servers as follows.

Gateway Server

The Gateway Server is located between iPECS UCS application server and iPECS UCS Client, and handles conversion of iPECS protocol and SIP (Session Initiation Protocol) messages.

Database Server

The Database Server stores all data for the server and users.

Web Server

The Web Server provides Web Admin for operation and administration such as registering iPECS UCS Clients and the iPECS platform.

The Web Server provides web service to iPECS UCS Clients. Through the web service, iPECS Clients are able to receive data from the Database Server.

Application Server

The Application Server is composed of several server application programs as follows.

Directory server application program

Manages UCS Client log-in and directory search requests

IMR/Presence server application program

Monitors Phone and Instant Messaging status of registered UCS Clients and delivers status information to UCS Clients. UCS Server assists IMR (Incoming Media Routing) through communication with UCS Clients and the iPECS PBX platform, plus control of real-time video.

Diagnosis server application program

The Diagnosis server verifies the operational status of UCS Server and saves status data in UCS database.

Chatting server application program

The Chatting server handles IM sessions between UCS Clients.

EmailSender server application program

The EmailSender server sends E-mails to users when accounts are created.

LDAPLink server application program

The LDAPLink server synchronizes user information with a standard LDAP server such as Microsoft Active Directory, which manages user accounts.

ExchangeLink server application program

The ExchangeLink server synchronizes schedule information, which users create through Microsoft Outlook with Microsoft Exchange Server.

UserSync server application program

The UserSync server synchronizes login (ID, Password) information with Microsoft AD (Active Directory) and provides SSO (Single Sign On) service to UCS Clients.

Installation of UCS Server



Installation and configuration of the iPECS UCS Server is a multi-step process. **Failure to follow the step-by-step process may result in failure of the iPECS UCS Server installation.**

2.1 Server and PBX Requirements

The following requirements must be met for proper operation of iPECS UCS Server.

2.1.1 Minimum Hardware for iPECS UCS Server

A maximum of 4,000 user accounts are available and can connect simultaneously on a single physical server. The minimum hardware specification will increase according to the number of user accounts. If the minimum hardware specifications are not met then functions of the UCS may not work correctly.

Number of Users	less than 200	200 ~ 600	600 ~ 4000
CPU	64-bit dual-core 2 Thread 2.5 GHz	64-bit dual-core 4 Thread 3.0GHz	64-bit quad-core 4 Thread 3.0GHz
Memory	4 GB	8 GB	16 GB
Hard Disk	160 GB	320 GB	500 MB
NIC	1 Gbps	1 Gbps	1 Gbps

NOTE

The requirements above are minimums. When the number of clients increase, a higher performance processor and NIC speed may be required.

2.1.2 Operating system for iPECS UCS Server

The following OS must be installed for correct operation of iPECS UCS Server.

- Windows Server 2008 R2 SP1 or later
- Windows Server 2012 (Datacenter, Standard, Essential)
- Windows Server 2012 R2 (Datacenter, Standard, Essential)



CAUTION

This manual explains the installation process for iPECS UCS Server on newly installed, dedicated operating systems. If an operating system is not dedicated (i.e. is shared or used for other purposes) this may cause problems for both installation and operation.

To avoid unintended reboots of iPECS UCS Server, Windows Update settings must **not** be set to update and reboot automatically. (i.e. automatic update must be disabled.)

UCS Server Application should not be installed on Windows Domain Controller Server.

The following OS may provide adequate operation of iPECS UCS Server for a small company.

- Windows 8.1 x 64 (Professional, Enterprise)
- Windows 10 x 64 (Professional, Enterprise)



CAUTION

Windows 8.1 is an OS for personal computer (PC) and thus different from Windows Server OS. Therefore it has license limitations (unlike Windows Server OS). In spite of these limitations, iPECS UCS Server may be operated on Windows 8.1 up to 50 UCS users. However if UCS Server operates abnormally under these conditions, the abnormality may be caused by license limitations. In this case, iPECS UCS Server must be operated on a Windows Server OS.

2.1.3 iPECS PBX System supporting iPECS Server

The following iPECS PBX Systems are minimum requirements to support correct operation of iPECS UCS Server.

- iPECS Unified (UCP, eMG80, eMG800)
- iPECS-CM, version 5.5 and over

NOTE

The contents regarding iPECS Unified are based on iPECS UCP in this document. The iPECS eMG contents are the same as the iPECS UCP content.

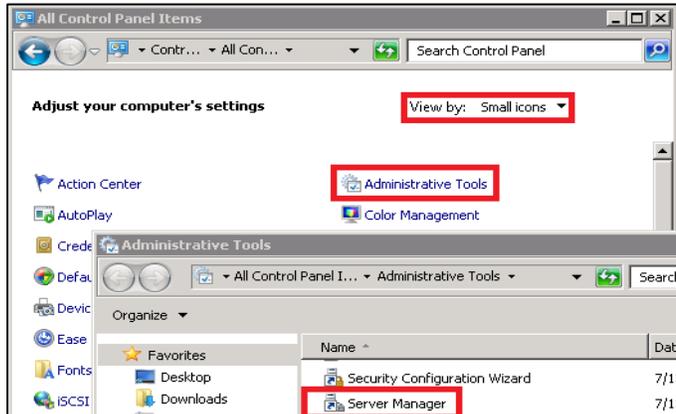
The references to PBX systems in this document are correct at time of publication; however updates or upgrades may have been subsequently applied. Please refer to the current PBX system manual for the relevant revisions and instructions.

2.2 Verification of IIS Installation

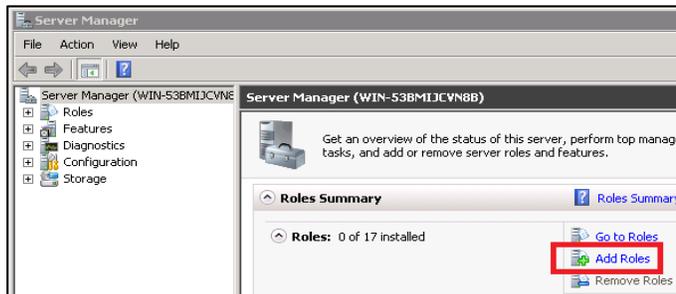
The Internet Information Services (IIS) Windows component is required for correct operation of the iPECS UCS Web Admin Server. IIS is not automatically installed by in the Windows OS and must be installed by the iPECS administrator.

2.2.1 Windows Server 2008

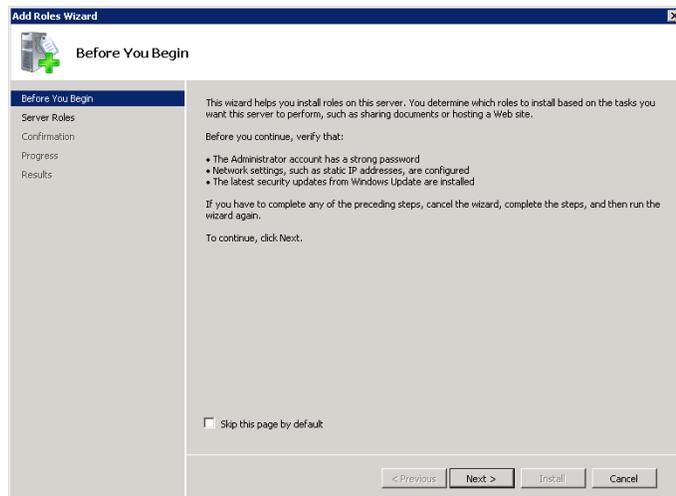
1. Select [Control Panel (View by: small icons) - Administrative Tools - Server Manager].



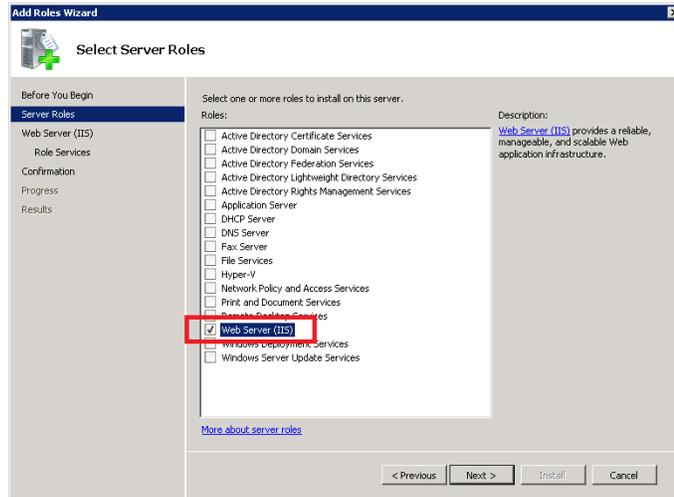
2. Verify role 'Web Server (IIS)' is installed, if not, click [Add Roles] and add this role.



3. Click [Next].



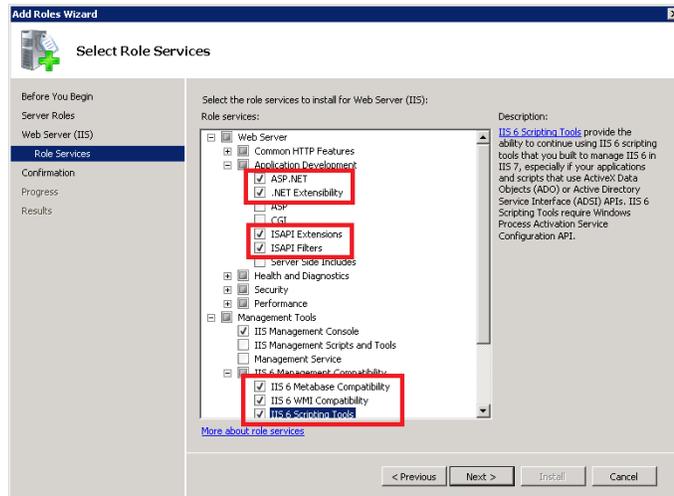
4. Add [Web Server (IIS)] role, then click [Next].



5. Click [Next].



6. Add the required role services for UCS service, then click [Next].

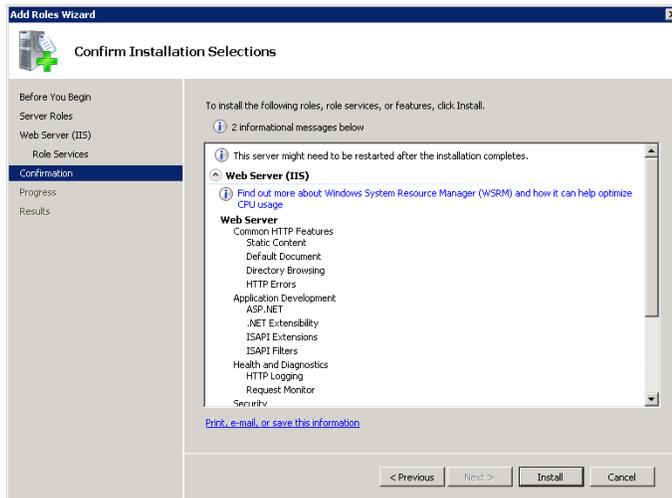


- Web Server – Application Development – .NET Extensibility
- Web Server – Application Development – ASP .NET
- Web Server – Application Development – ISAPI Extensions
- Web Server – Application Development – ISAPI Filters
- Management Tools – IIS6 Management Compatibility–IIS Metabase Compatibility
- Management Tools – IIS6 Management Compatibility – IIS 6 WMI Compatibility
- Management Tools – IIS6 Management Compatibility – IIS 6 Scripting Tools

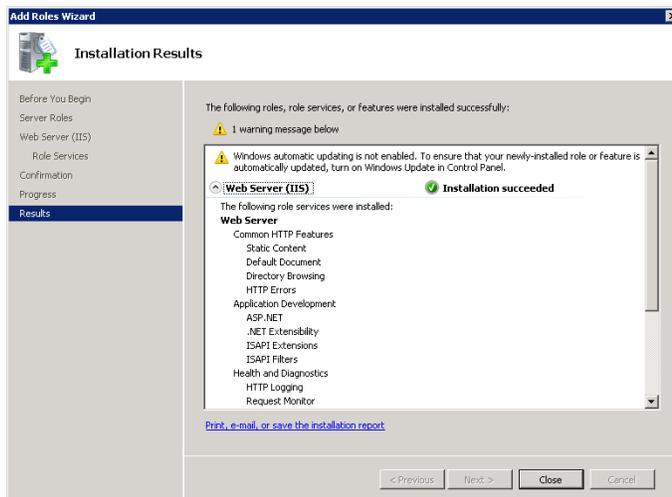
NOTE

You should not add or remove other items. On the basic settings, you just need to add the items above.

7. Click [Install].



8. After finishing installation, the display below is shown. Click [Close].



9. You can verify the installation of Web Server (IIS) in Server Manager screen.



CAUTION



To install UCS correctly on Windows Server 2012, you should install .NET Framework after IIS installation. .NET Framework is included in UCS Server installation package.

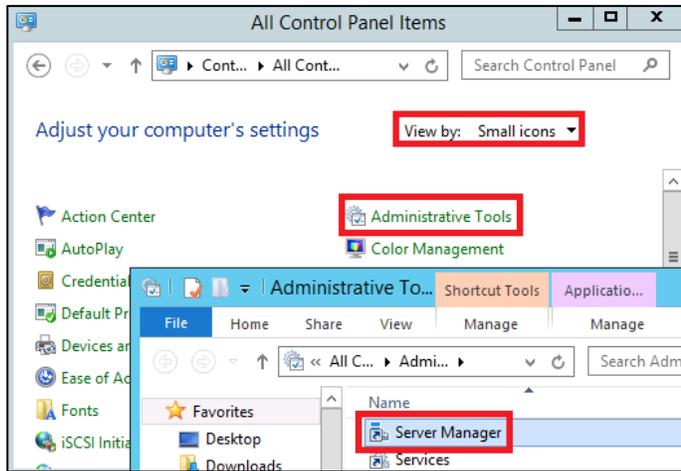
If you install IIS after .NET Framework installation, you must follow the steps below:

-
- Execute 'Command Prompt', then go to 'C:\Windows\Microsoft.NET\Framework64\v4.0.30319', and command 'aspnet_regiis.exe -I'.

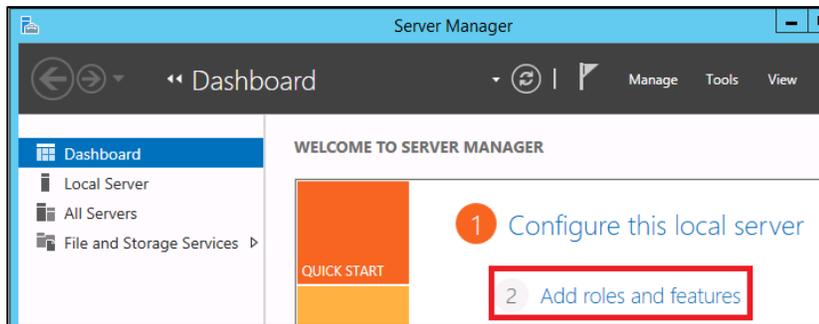
```
C:\Windows\Microsoft.NET\Framework64\v4.0.30319>aspnet_regiis.exe -i
Microsoft (R) ASP.NET RegIIS version 4.0.30319.18408
Administration utility to install and uninstall ASP.NET on the local machine.
Copyright (C) Microsoft Corporation. All rights reserved.
Start installing ASP.NET (4.0.30319.18408).
.....
Finished installing ASP.NET (4.0.30319.18408).
C:\Windows\Microsoft.NET\Framework64\v4.0.30319>
```

2.2.2 Windows Server 2012

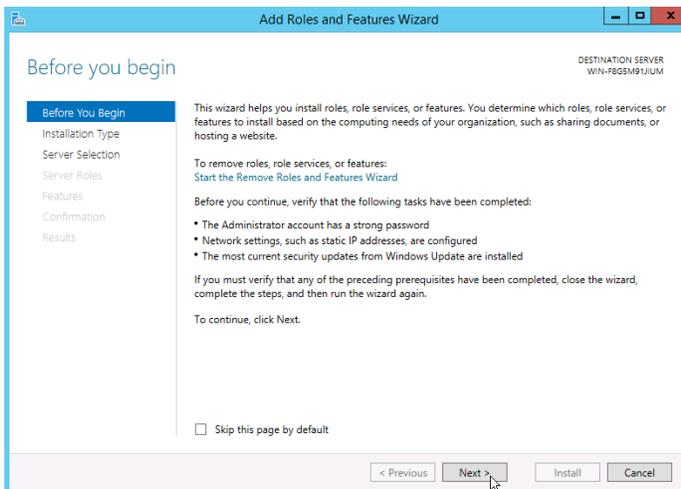
1. Select [Control Panel (View by: small icons) - Administrative Tools - Server Manager].



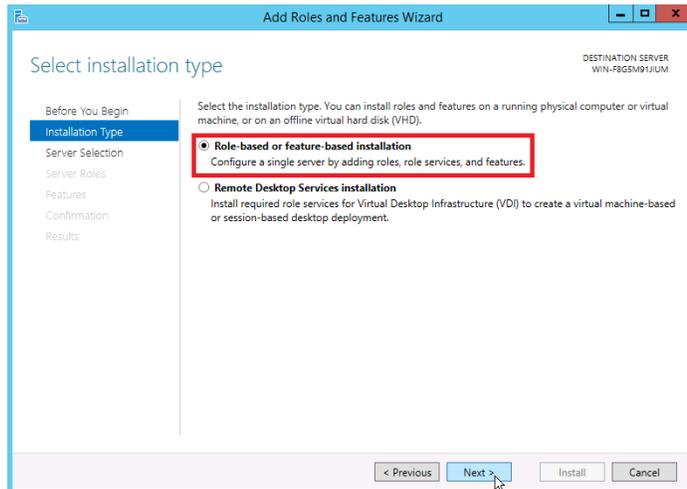
2. Click [Add roles and features].



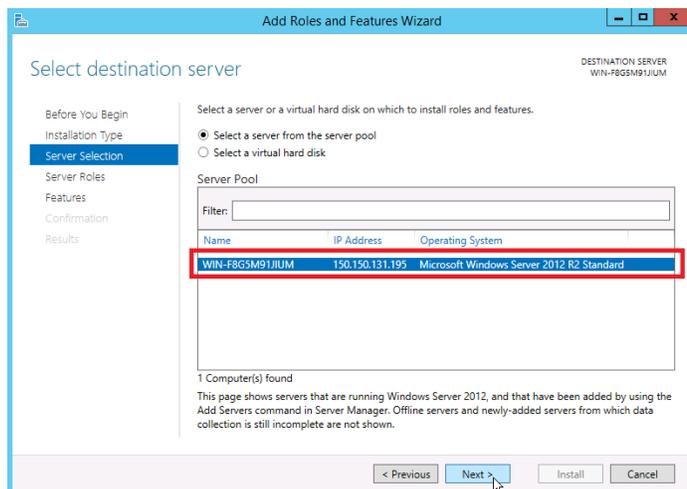
3. Click [Next].



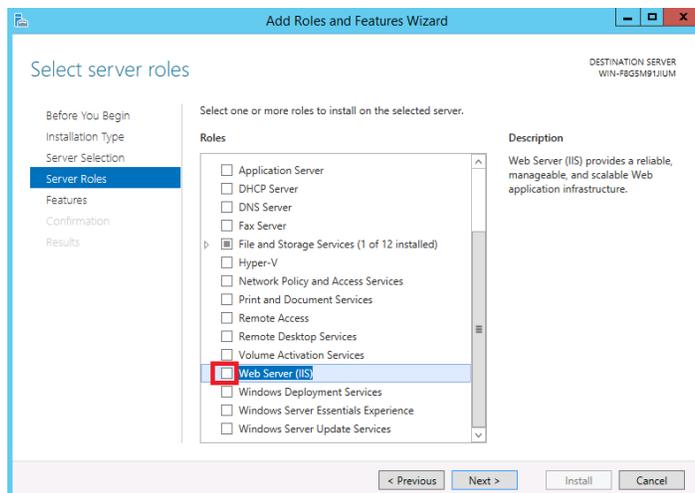
4. Select **[Role-based or feature-based installation]**, then click **[Next]**.



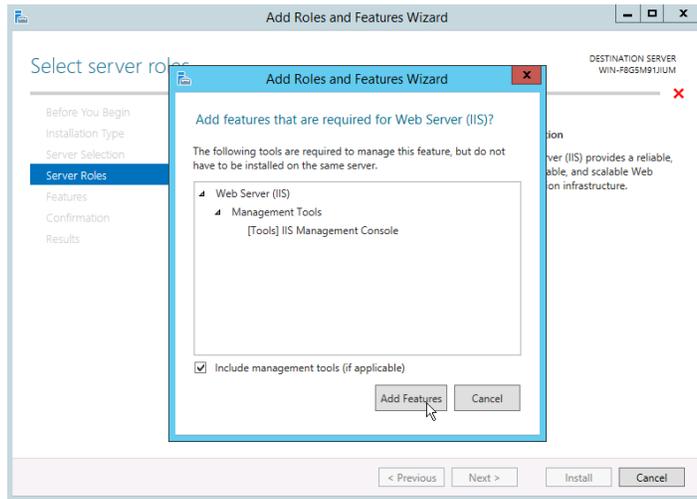
5. Select your server, then click **[Next]**.



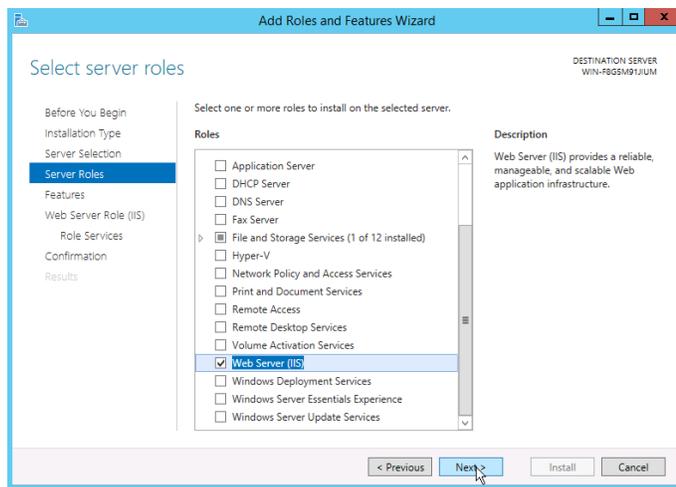
6. Click **[Web Server(IIS)]** checkbox.



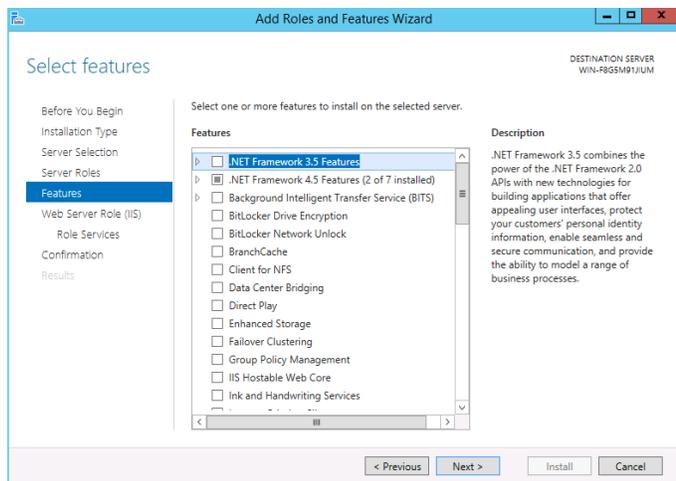
7. Click **[Add Feature]**.



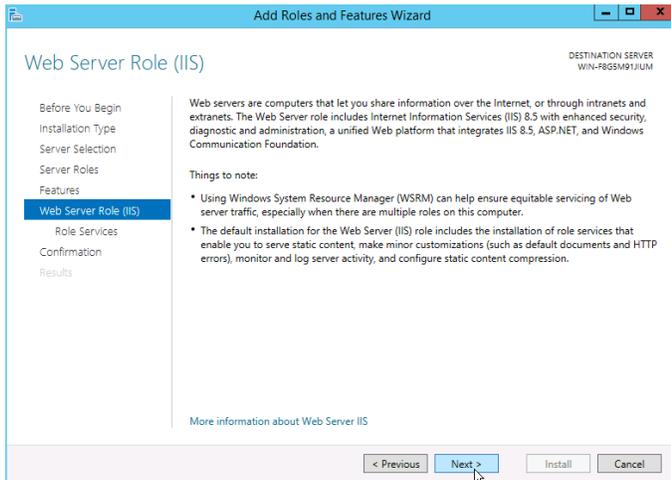
8. Click **[Next]**.



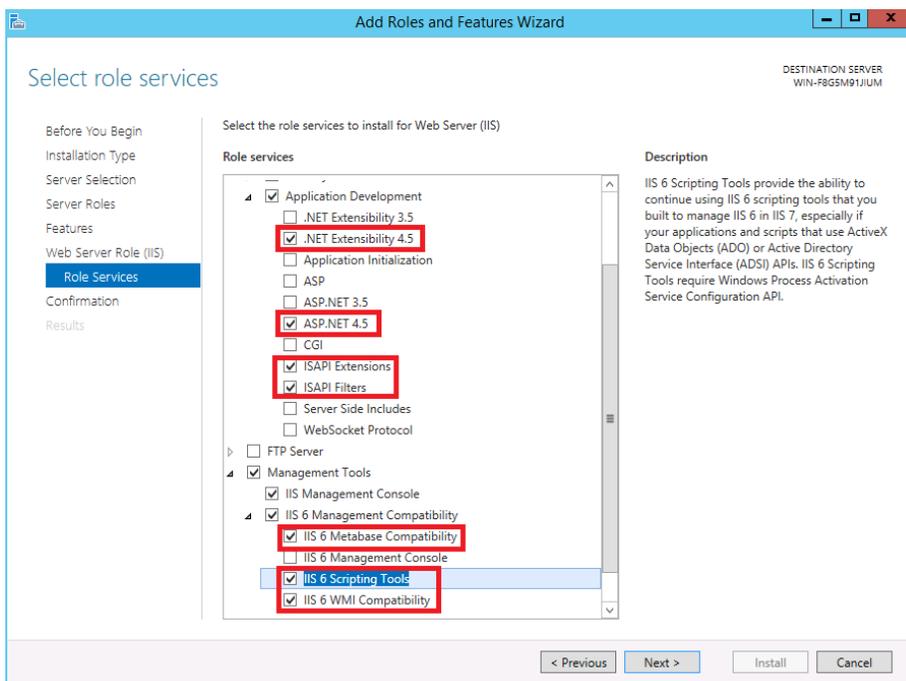
9. Click **[Next]**.



10. Click **[Next]**.

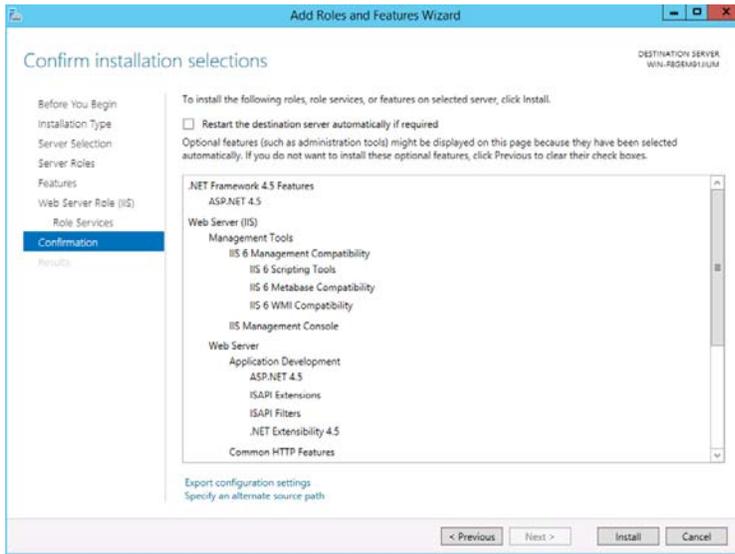


11. Add the required role services for UCS service, then click **[Next]**.

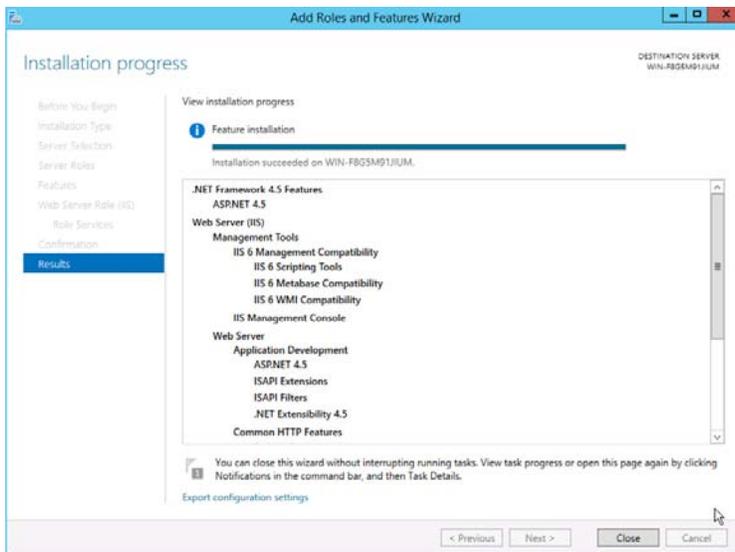


- Web Server – Application Development – .NET Extensibility 4.5
- Web Server – Application Development – ASP .NET 4.5
- Web Server – Application Development – ISAPI Extensions
- Web Server – Application Development – ISAPI Filters
- Management Tools – IIS6 Management Compatibility–IIS Metabase Compatibility
- Management Tools – IIS6 Management Compatibility – IIS 6 WMI Compatibility
- Management Tools – IIS6 Management Compatibility – IIS 6 Scripting Tools

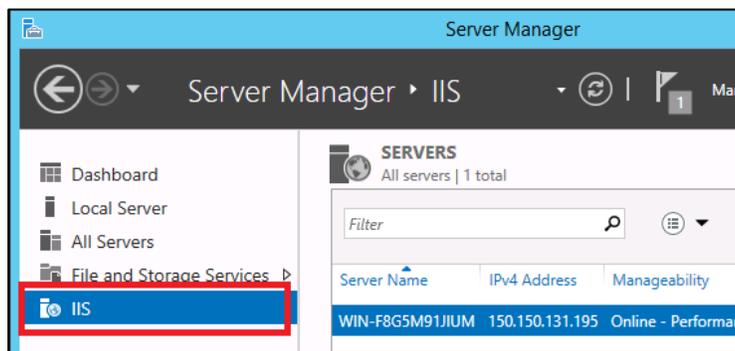
12. Click **[Install]**.



13. After finishing installation, the display below is shown. Click **[Close]**.

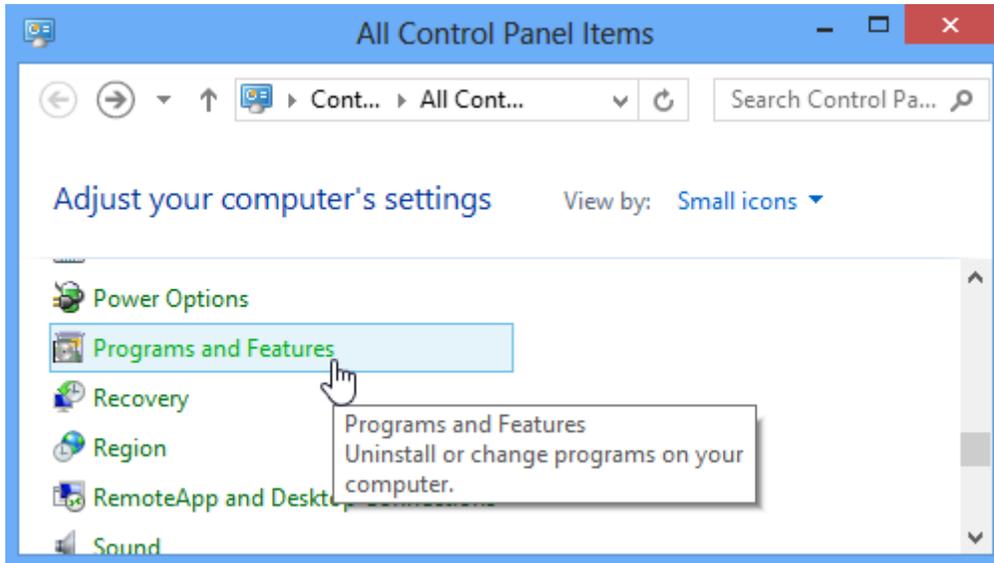


14. You can verify the installation of Web Server (IIS) in Server Manager screen.

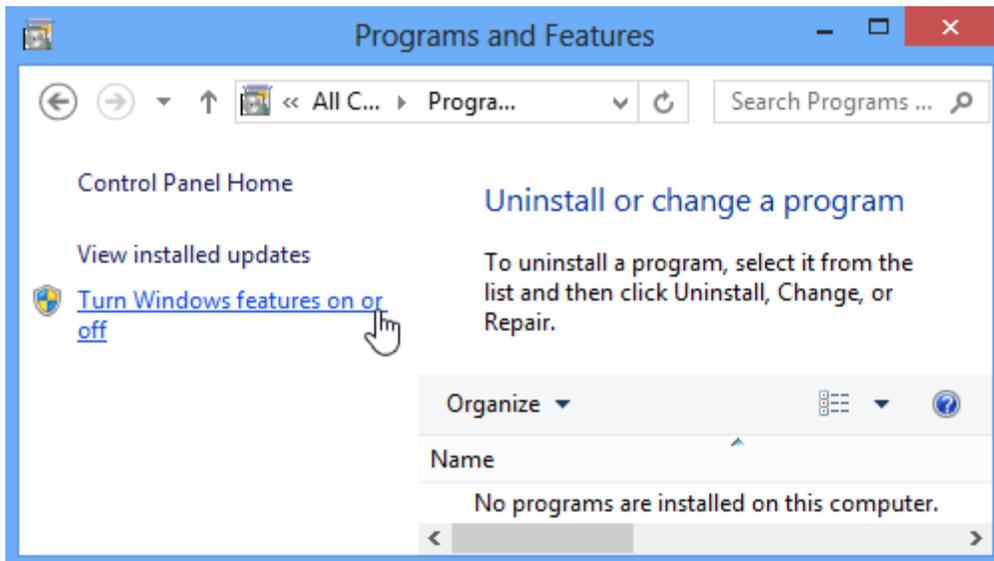


2.2.3 Windows 8.1 and 10

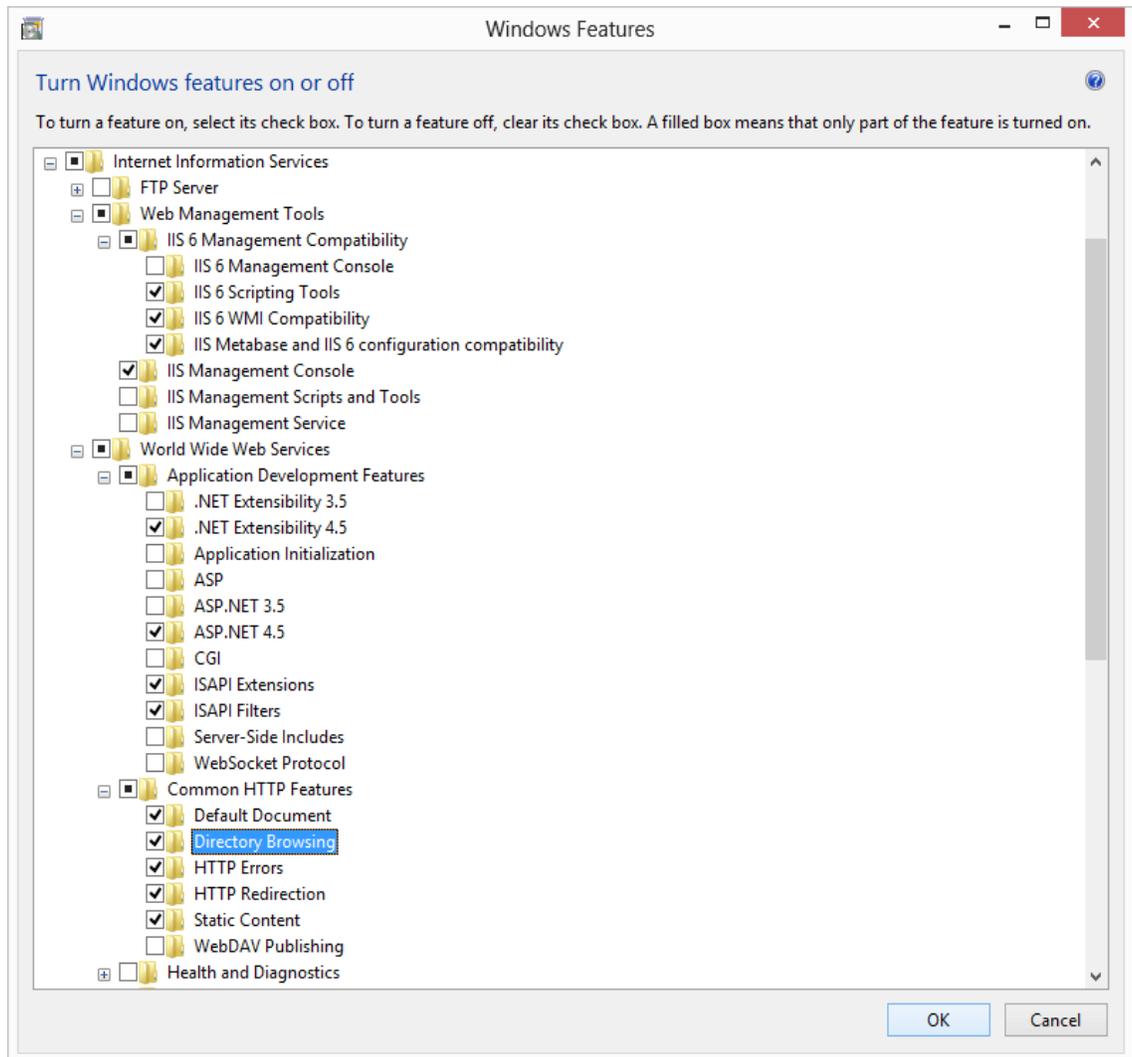
1. Go to [Control Panel (View by: Small icons)], then select [Programs and Features].



2. Select [Turn Windows features on or off]



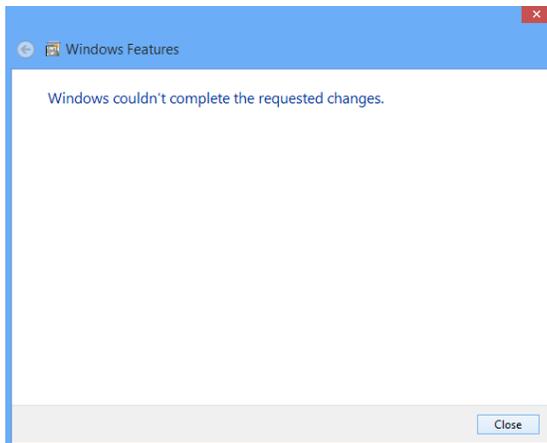
- Expand the Internet Information Services node, and then the Web Management Tools and then the IIS 6 Management Compatibility. Then, turn on these options under IIS.



- Internet Information Services – Web Management Tools – IIS6 Management Compatibility – IIS Metabase Compatibility
- Internet Information Services – Web Management Tools – IIS6 Management Compatibility – IIS 6 WMI Compatibility
- Internet Information Services-Web Management Tools-IIS6 Management Compatibility – IIS 6 Scripting Tools
- Internet Information Services – Web Management Tools – IIS Management Console
- Internet Information Services – World Wide Web Services – Application Development Features – .NET Extensibility 4.5 (4.6 for Windows 10)

- Internet Information Services – World Wide Web Services – Application Development Features – ASP .NET 4.5 (4.6 for Windows 10)
- Internet Information Services – World Wide Web Services – Application Development Features Web Server – Application Development – ISAPI Extensions
- Internet Information Services – World Wide Web Services – Application Development Features Web Server – Application Development – ISAPI Filters
- Internet Information Services – World Wide Web Services – Common HTTP Features – Default Document
- Internet Information Services – World Wide Web Services – Common HTTP Features – Directory Browsing
- Internet Information Services – World Wide Web Services – Common HTTP Features – HTTP Errors
- Internet Information Services – World Wide Web Services – Common HTTP Features – HTTP Redirection
- Internet Information Services – World Wide Web Services – Common HTTP Features – Static Contents

4. After Installation, the display below is shown. Select **[Close]**.



2.3 Installation Package for iPECS UCS Server

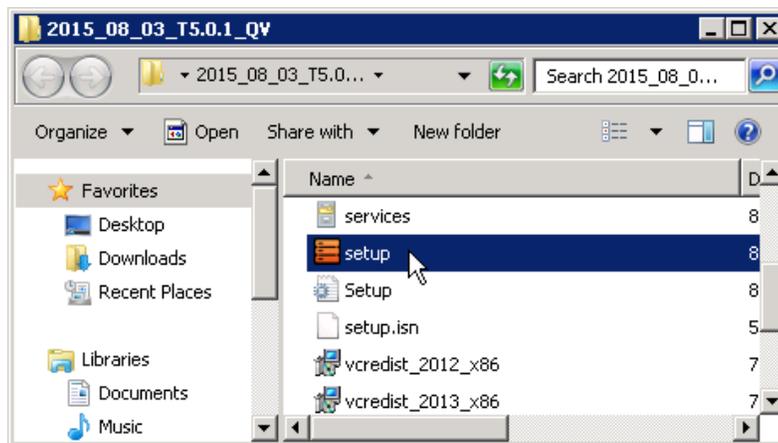
The installation package of iPECS UCS Server contains the installation programs for the UCS Server application, .NET Framework, WinPcap, VC++ 2008, 2012, 2013 Redistributable(x86) and postgresQL DBMS components must be installed.



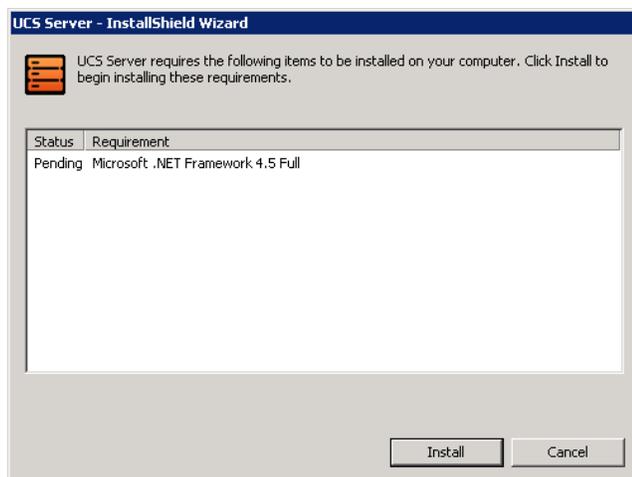
CAUTION

If postgresQL is installed in the server PC, it must be uninstalled before installing the UCS server application package. The server PC must be restarted after the uninstallation.

1. Run "setup.exe" in UCS Installation Folder.



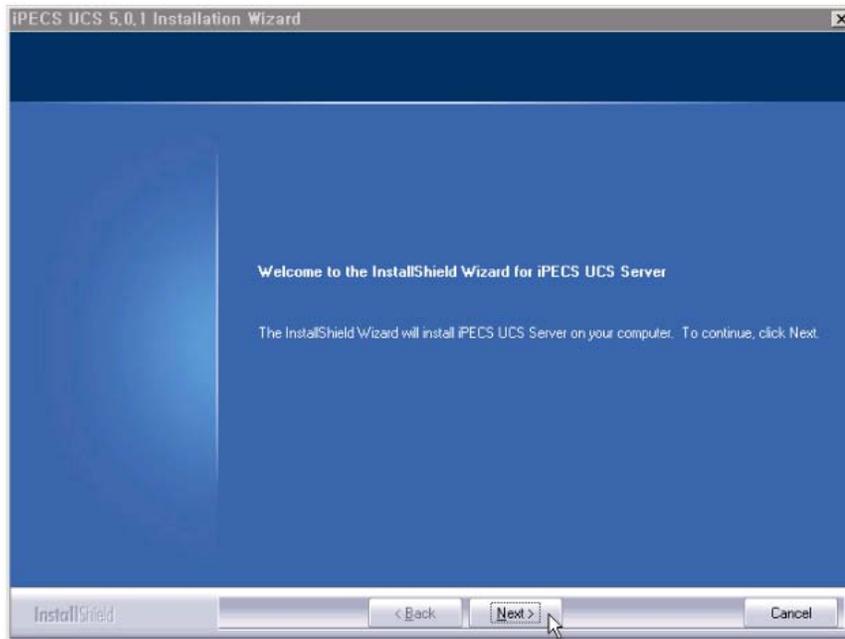
2. If Microsoft '.NET Framework 4.5' is not installed, the display below is shown. Click [**Install**].



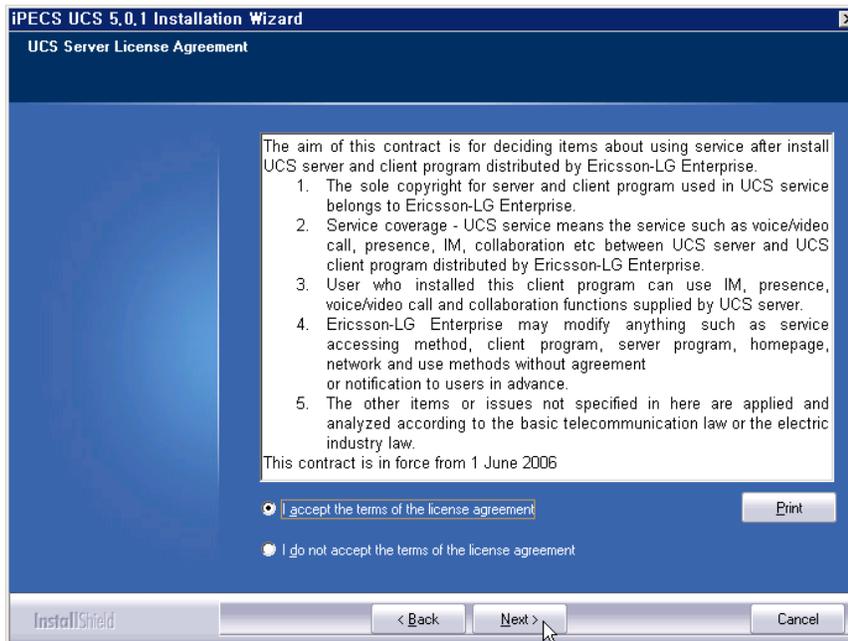
NOTE

Generally, .NET Framework is pre-installed in Windows Server 2012 and Windows 8.1, and installation of .NET Framework is not needed.

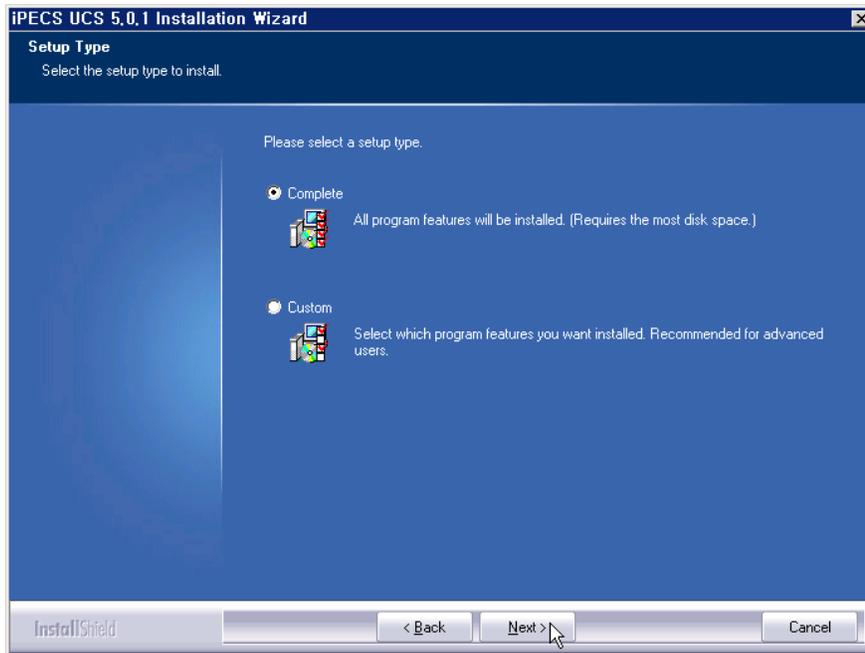
3. After installation of .NET Framework is complete, the display of UCS Server installation is shown as below. Click **[Next]**.



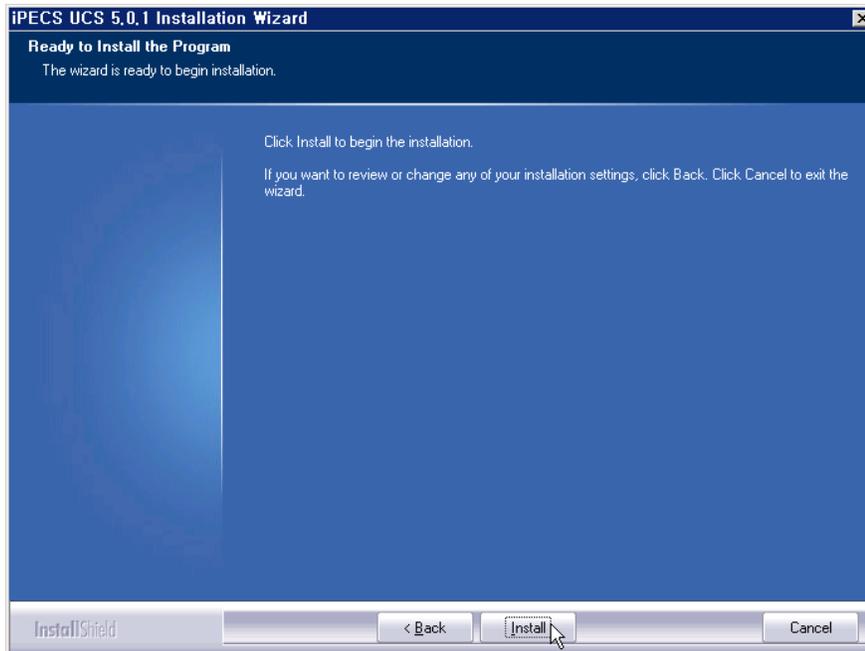
4. The Software License Agreement window appears. Read and accept the license terms then click **[Next]**.



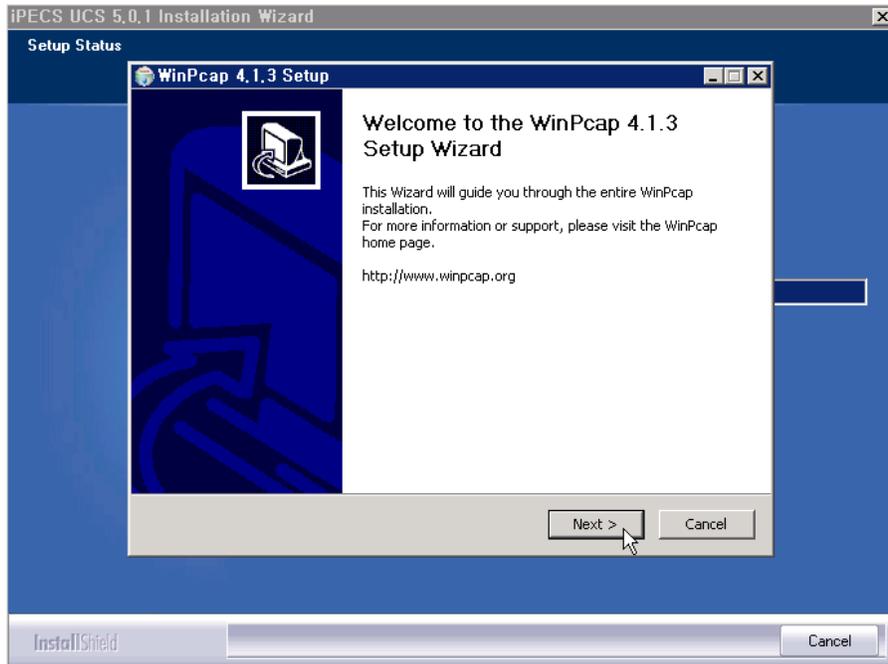
5. Select a Setup Type. If you want to change the setup directory, then select **[Custom]**. Selecting **[Typical]** is recommended. Click **[Next]**.



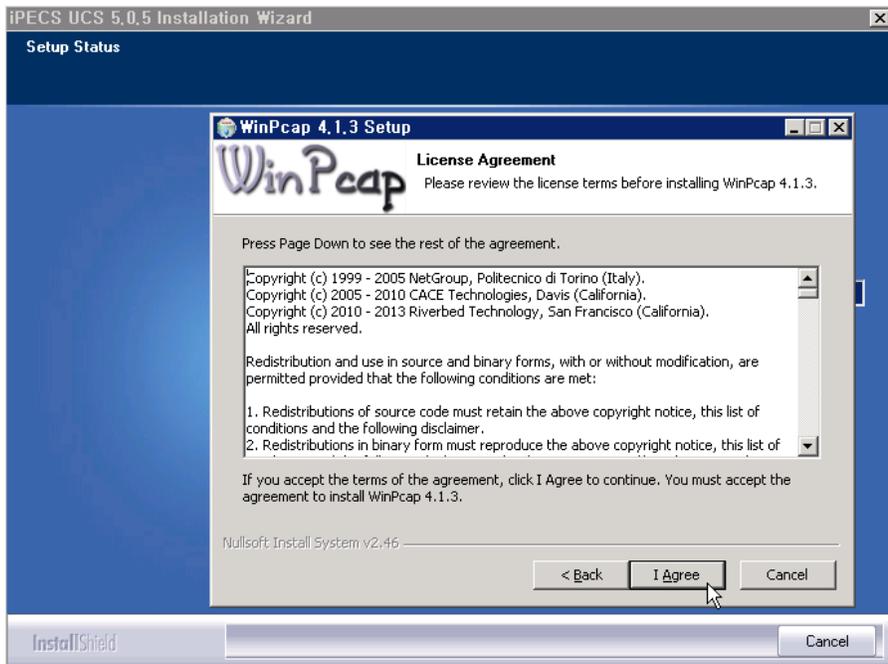
6. Before starting installation of UCS Server applications, review the settings. Click **[Next]**.



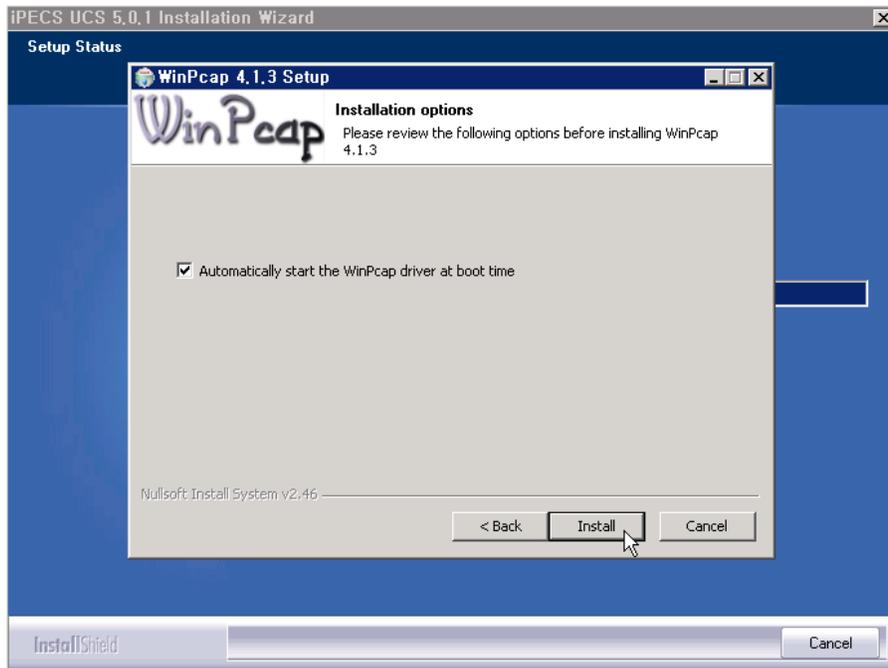
7. When installation of the UCS Server applications is complete, the remaining programs (PostgreSQL DBMS, VC++ 2010, 2012, 2013 Redistributable(x86), WinPcap) are installed. Click **[Next]**.



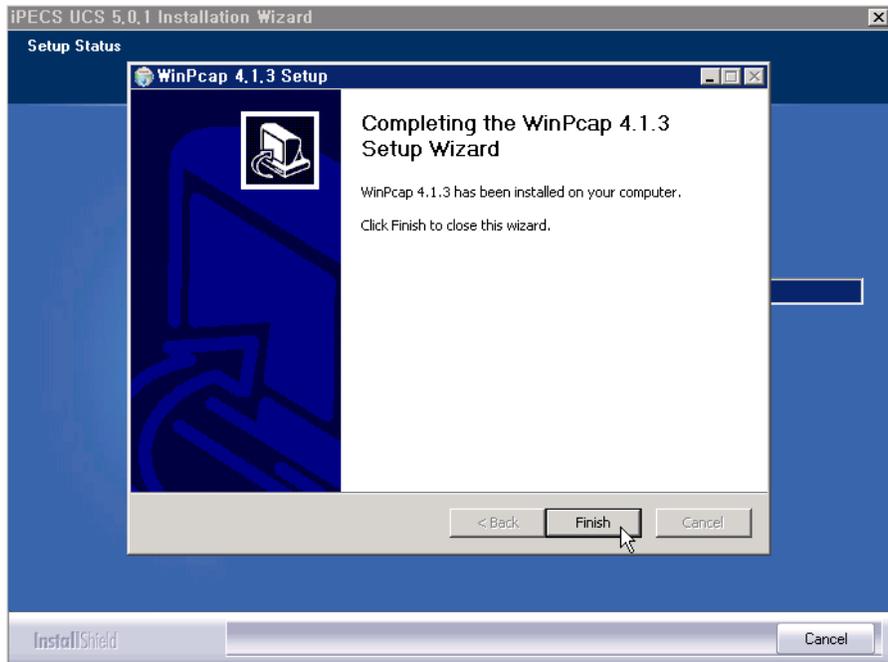
8. The Software License Agreement window appears. Click **[I Agree]**.



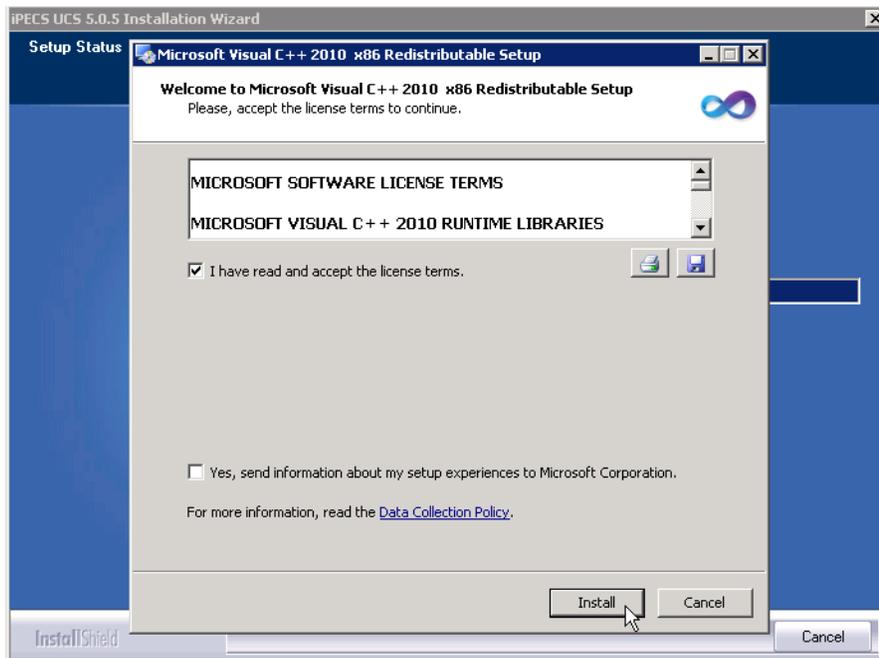
9. WinPcap starts installation after installation of postgresQL. WinPcap is a standard application to capture and filter network packets. Click **[Install]**.



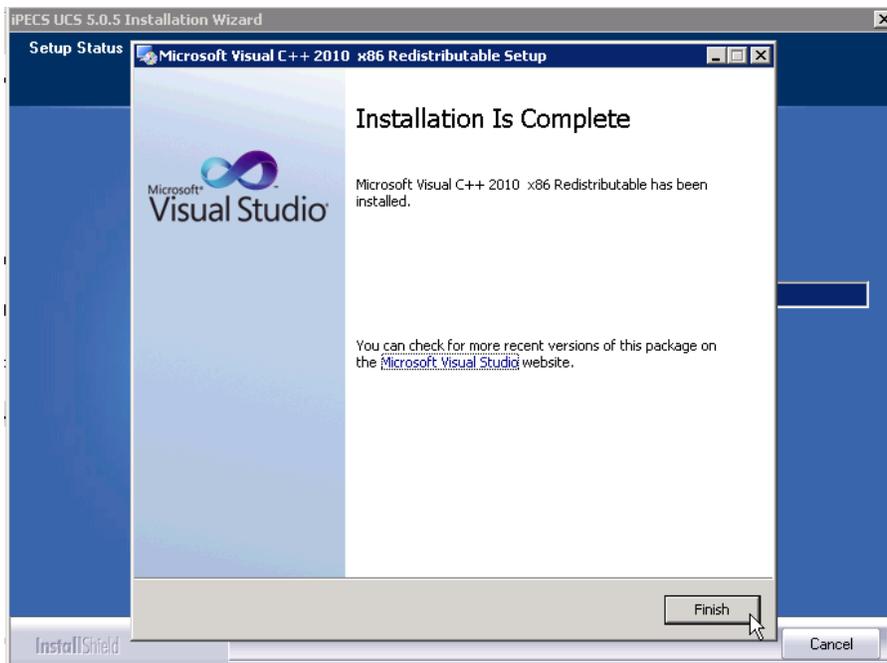
10. The window below is shown after successful installation of WinPcap. Click **[Finish]**.



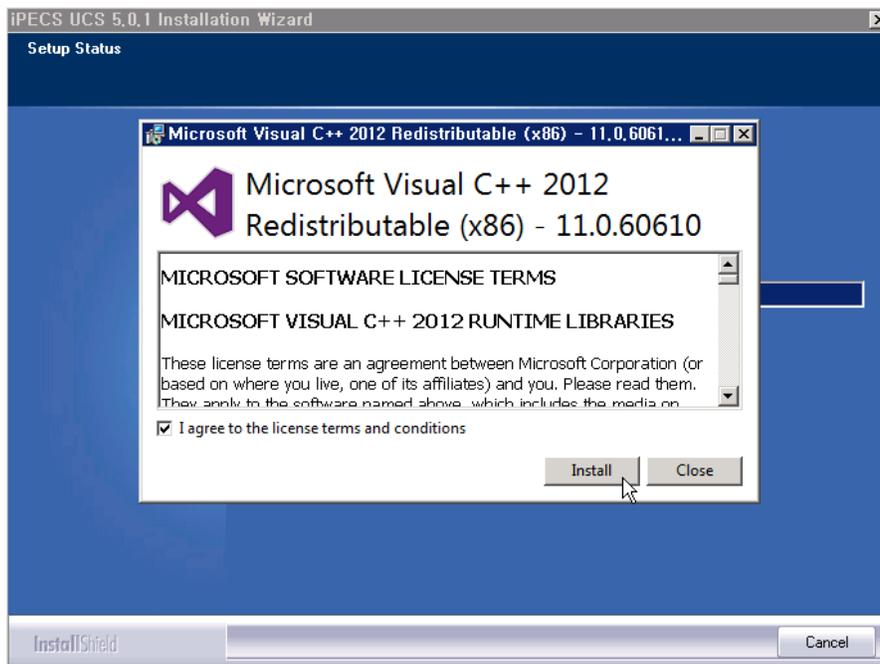
11. After installation of WinPcap, the installation of VC++ 2010 Redistributable(x86) starts. Click [Install].



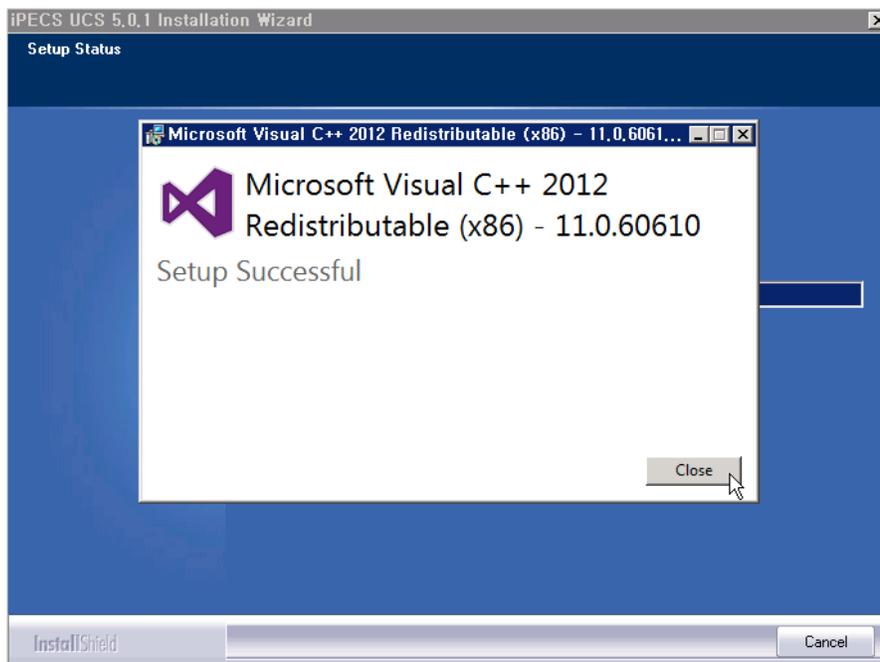
12. When installation of VC++ 2010 Redistributable(x86) is complete, click [Close].



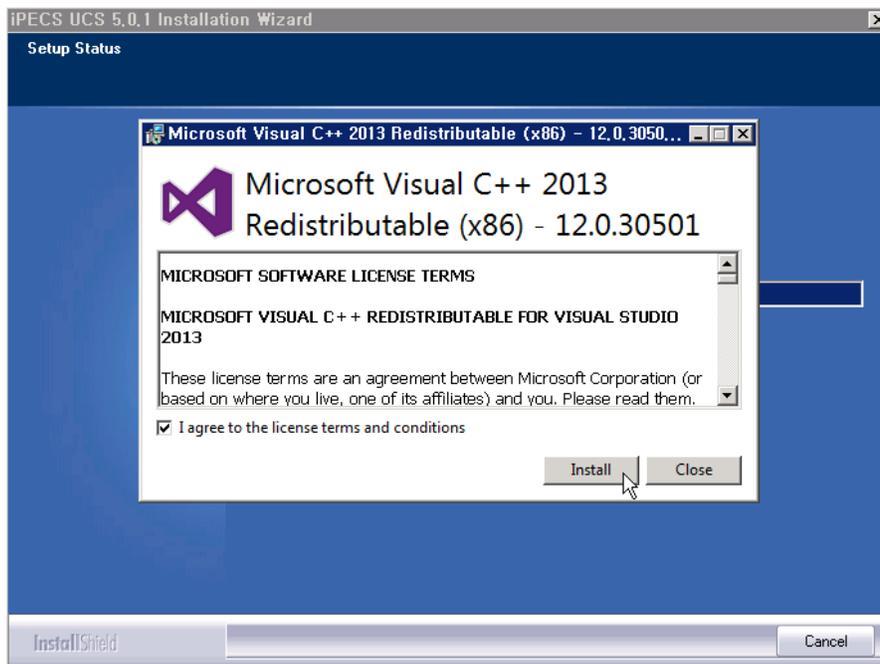
13. After installation of VC++ 2010 Redistributable(x86), the installation of VC++ 2012 Redistributable(x86) starts. Click **[Install]**.



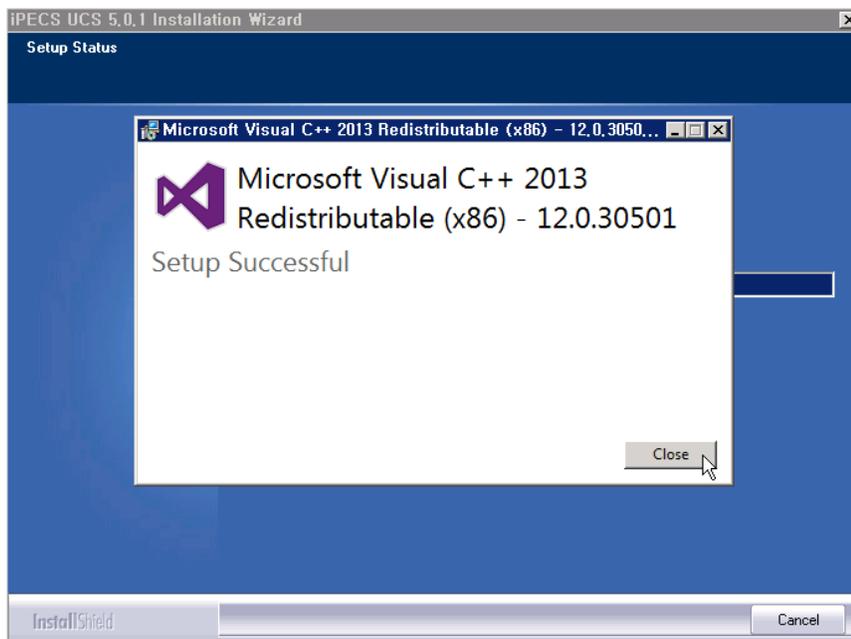
14. When installation of VC++ 2012 Redistributable(x86) is complete, click **[Close]**.



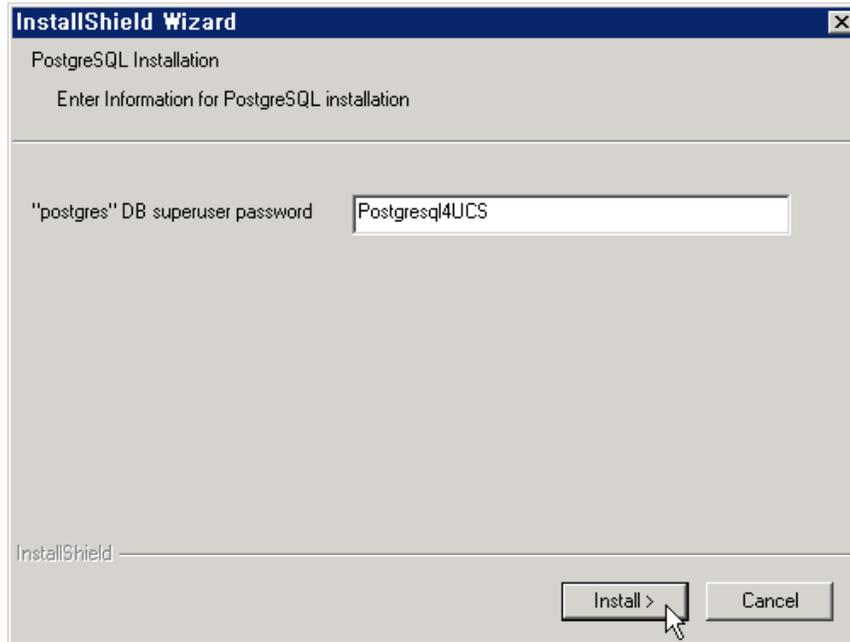
15. After installation of VC++ 2012 Redistributable(x86), the installation of VC++ 2013 Redistributable(x86) starts. Click **[Install]**.



16. When installation of VC++ 2013 Redistributable(x86) is complete, click **[Close]**.



17. In the PostgreSQL Information window, enter a password for UCS database, and click **[Install]**.



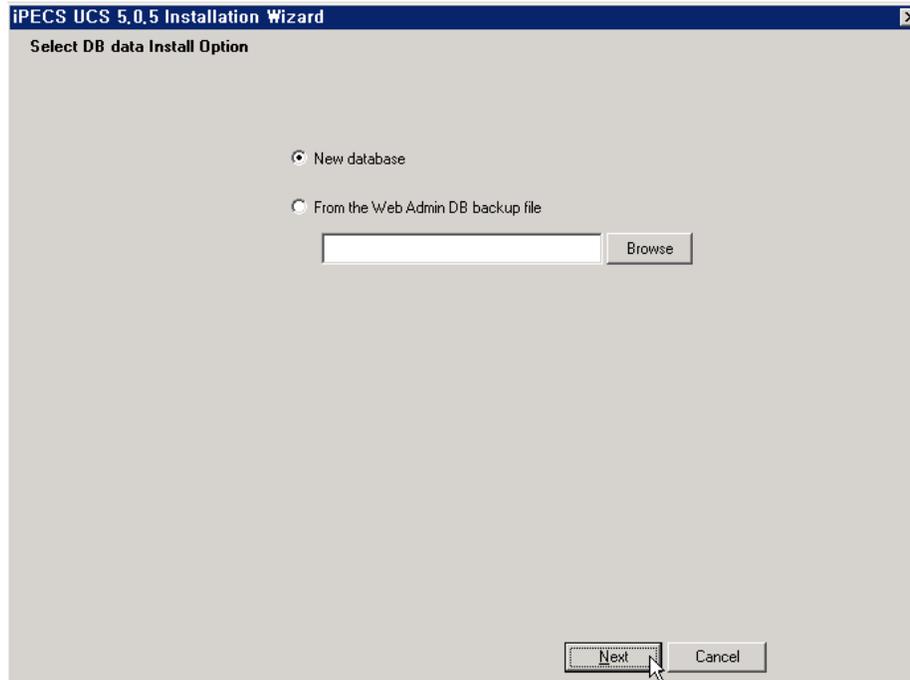
CAUTION

Typically, 200 MB of free hard-drive space is required for the installation package of iPECS UCS Server. However, the database space requirements will grow as the various iPECS UCS databases are populated, so ensure that at least 10 GB of free hard-drive disk space is available.

18. Installing postgresQL DBMS.



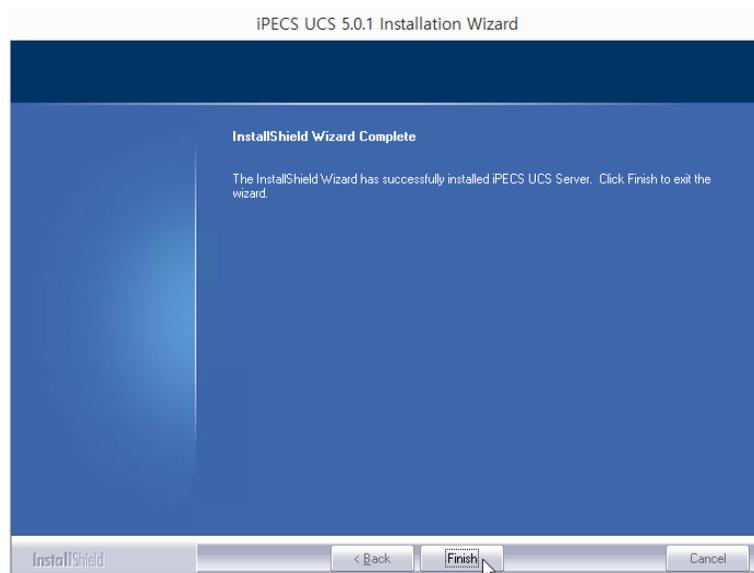
19. Select “New database”, then click **[Next]**.



NOTE

The item “From the DB file” is used to upgrade from UCS P4 to UCS P5 Server. Refer to **8.1 Upgrade** for details.

20. The installation of iPECS UCS Server package is complete, click **[Finish]**.



21. After finishing the installation, the UCS Server Manager icon below is shown in Windows wallpaper.



Refer to **Chapter 7. Administration (Serviced Controller)** for details.

22. After finishing the installation, UCS Web Admin can be accessed by the administrator through a web browser.

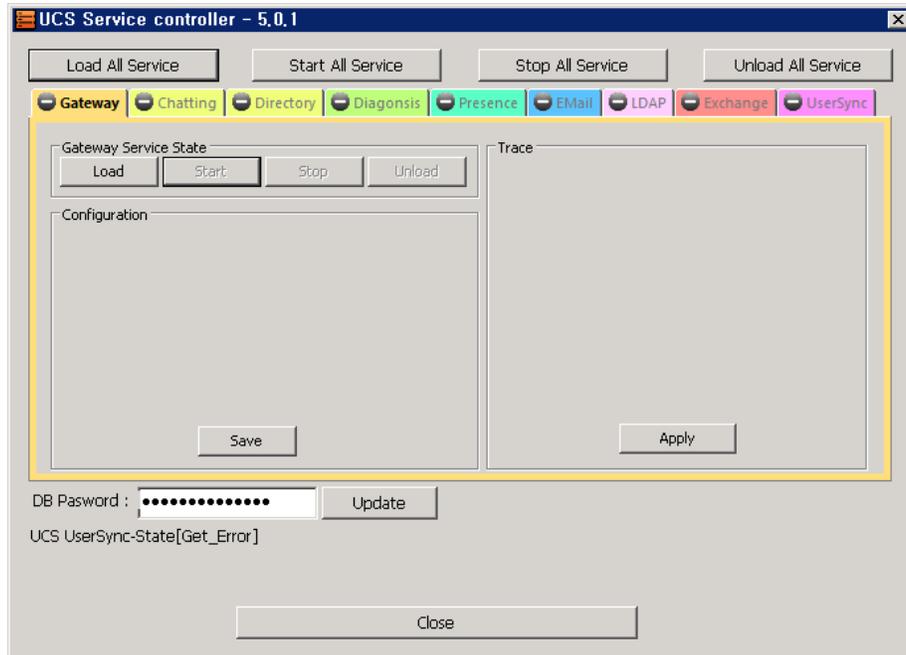
- Web Address : `http://UCS Web Server IP address /ucs`
- ID: administrator
- Default Password : ucsadmin

Refer to **Chapter6. Administration (Web Admin)** for details.

2.4 UCS Server Registration as Service

After the UCS Server Package installation, the UCS Server service applications must be registered as a service of Windows OS. To register, click and open the UCS Server Manager icon in Windows wallpaper. Then follow the steps:

1. Load All Service
2. Start All Service



Every tab icon shows the status of each service status.

-  : Run after loading
-  : Stop after loading
-  : Unload

Refer to 7.2. **Management of All Service** for details.

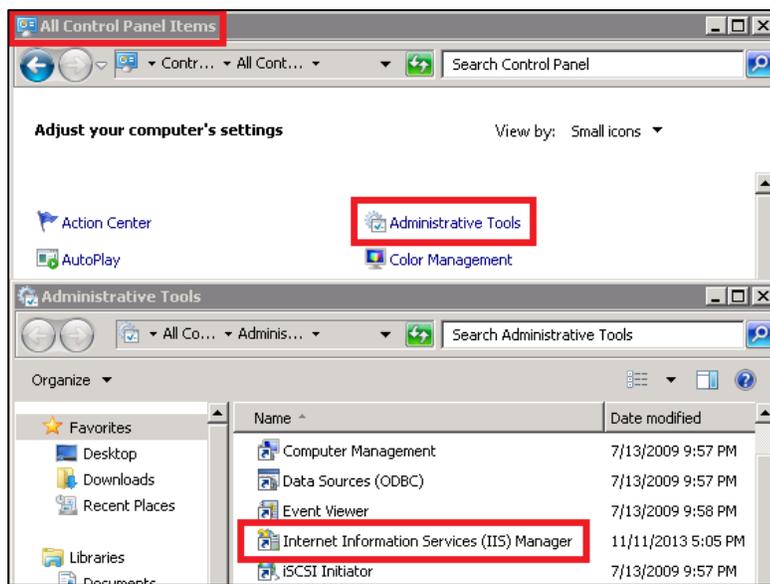
2.5 Change of HTTP(S) Service Port

iPECS UCS uses HTTP port 80 for Web service. Other ports such as 8080 can be configured as well as implementing HTTPS with self-signed certificates. Ports are added to the IIS port configuration and then must be assigned to the UCS Web Admin.

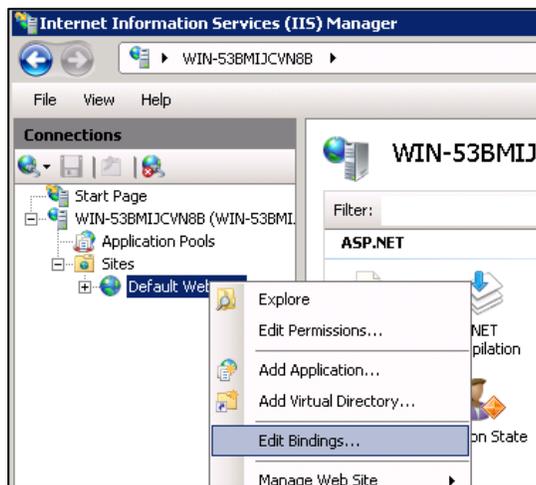
2.5.1 HTTP(S) Port Configuration

2.5.1.1 HTTP Port

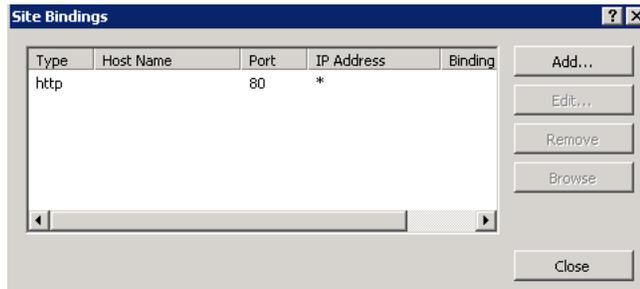
1. Go to [Control Panel (View by: small icons) – Administrative Tools – IIS (Internet Information Service) Manager].



2. Select [Default Web Site – Edit Bindings ...].



3. Select **[Add]**.

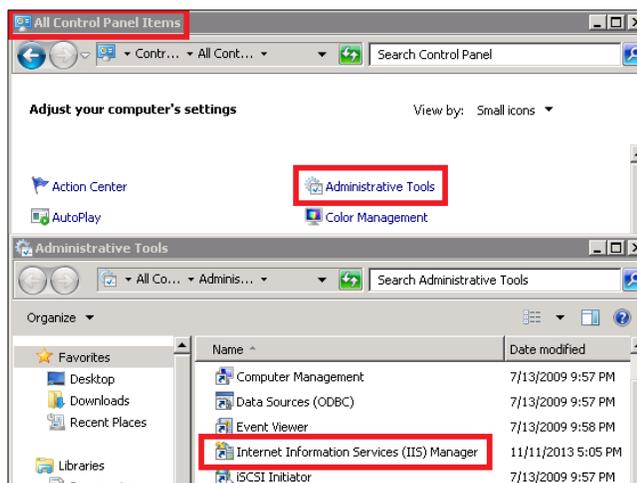


4. Select 'http' as the **[Type:]**, then input port number in the **[Port:]** field.

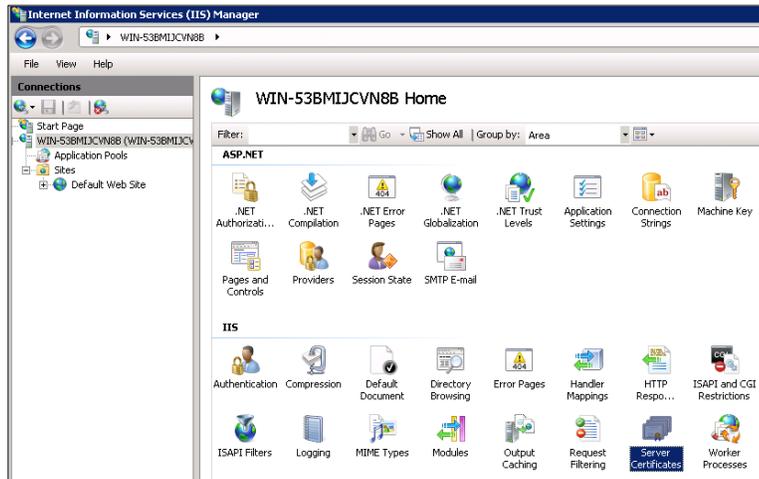


2.5.1.2 HTTPS Port

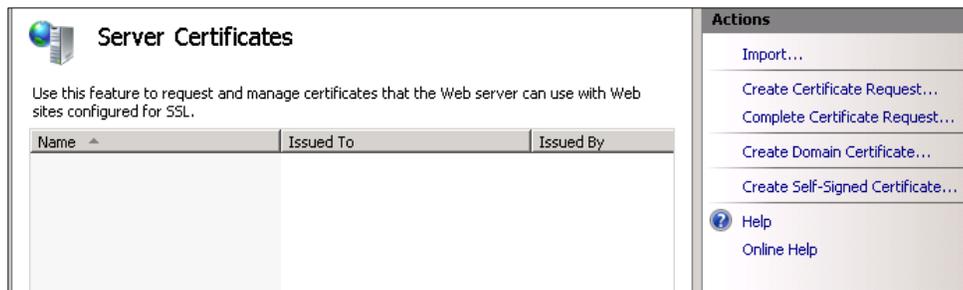
1. Go to **[Control Panel (View by: small icons) – Administrative Tools – IIS (Internet Information Service) Manager]**.



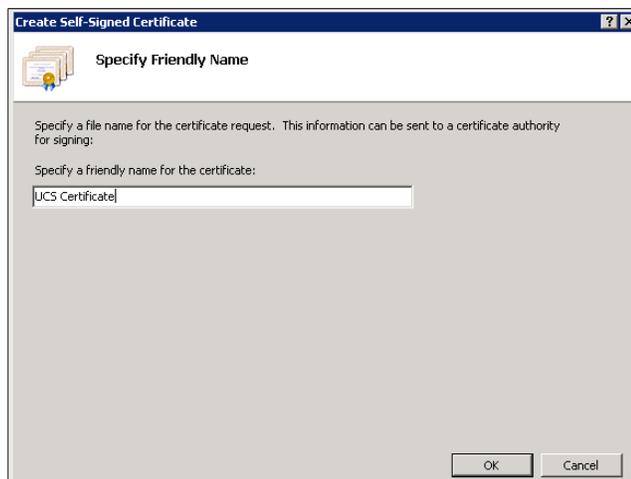
2. Select [IIS – Server Certificate].



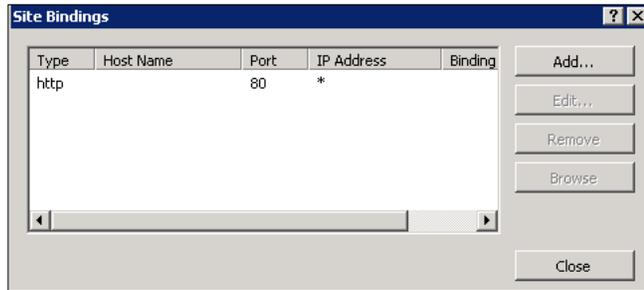
3. Select [Create Self-Signed Certificate...] on the right.



4. Input certificate name, then click [OK].



5. Select **[Add]**.

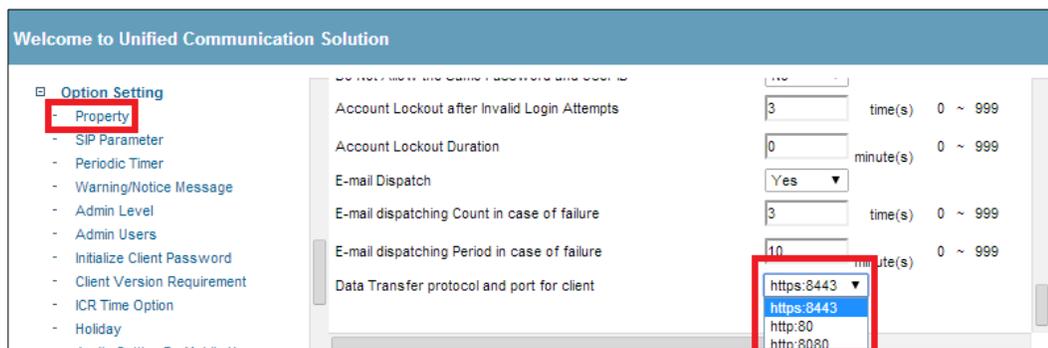


6. Select 'https' as the **[Type:]**, and input the port number. Then, select the SSL certificate created at **[SSL certificate:]**, and click **[OK]**.



2.5.2 HTTP(S) Port Registration

Go to **[Administration – Option Setting – Property - Data Transfer protocol and port for client]**, then select the port. The ports available, other than port 80, are added to the IIS ports refer to section 2.12.1.



NOTE

If the 'Data Transfer protocol and port for client' are changed, the UCS WebAdmin address must include the modified port number as follows.

https://UCS Server IP Address:Port/ucs example) **https://10.10.10.1:8443/ucs**

2.6 Verification of Firewall

For iPECS UCS service, you need to set up Windows firewall and any external firewall to open specific ports.

NOTE

All used ports for UCS service are tabled in the Appendix.

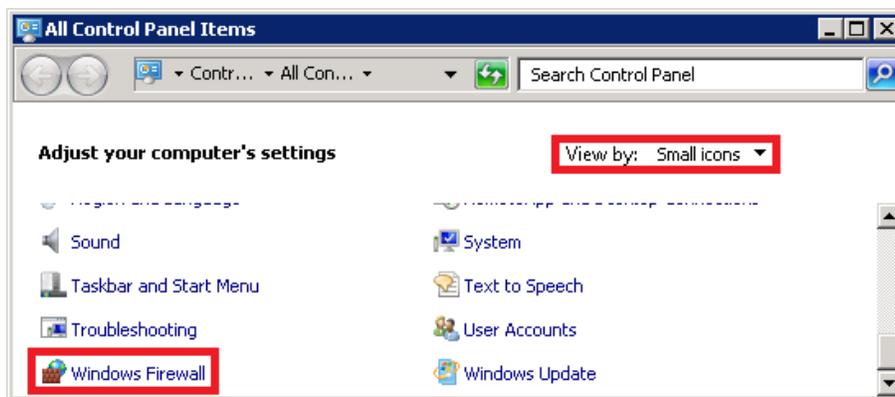
2.6.1 Set-up Windows Firewall

The Windows firewall in the UCS server PC must be turned off or required TCP and UDP ports opened to permit communication among the UCS server, UCS clients, and iPECS PBX system.

2.6.1.1 Method 1 - Turn off Windows Firewall

To turn OFF the Windows firewall in the server PC,

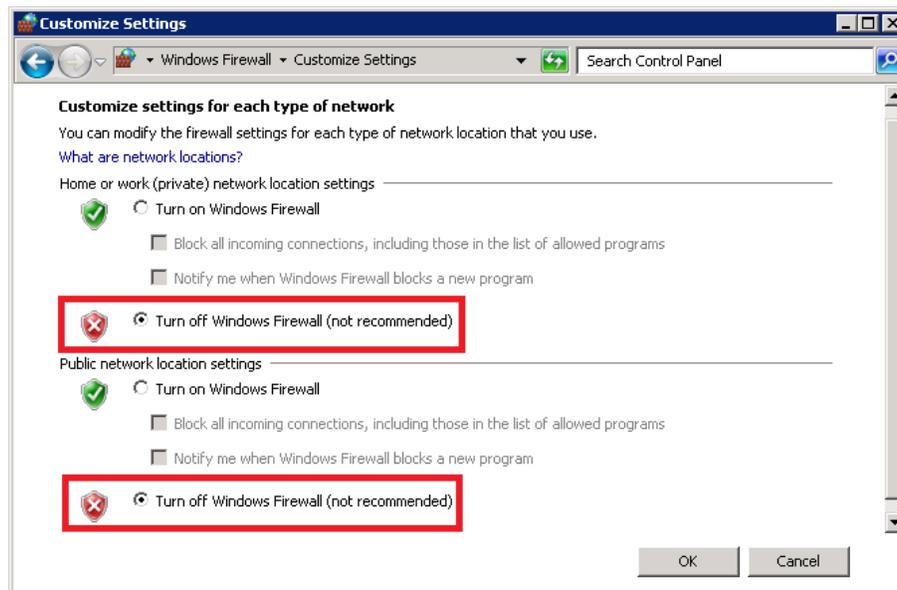
1. Select [Control Panel (View by: Small icons) - Administrative Tools – Windows Firewall].



2. Select [Turn Windows Firewall on or off].



3. Select **[Turn off Windows Firewall (not recommended)]** for 'Home or work (private) network location settings' and for 'Public network location settings'. Then, click **[OK]**.

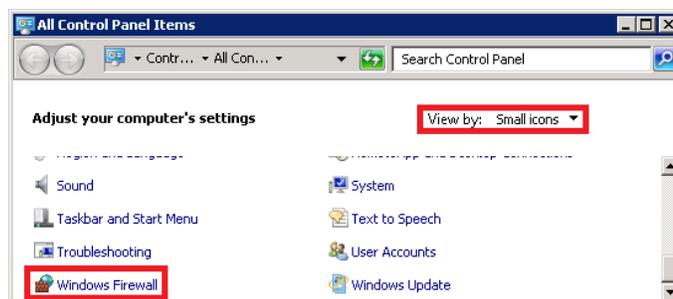


2.6.1.2 Method 2 – Open Required TCP and UDP ports

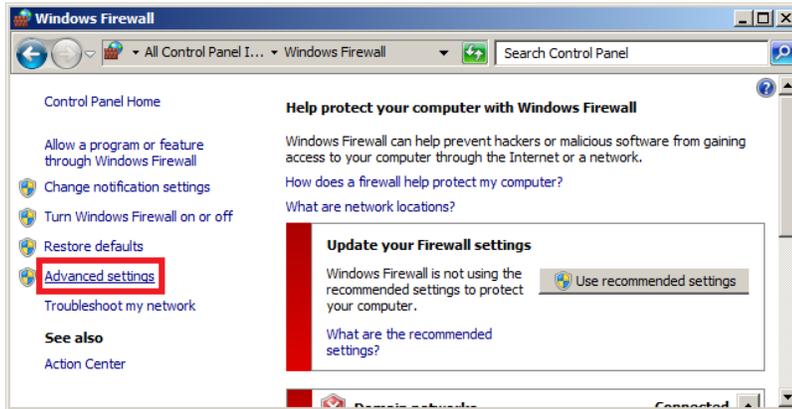
If you do not wish to disable the Windows Firewall, the required TCP and UDP ports for UCS service must be opened:

- **80 (TCP):** HTTP Service
- **3389 (TCP):** Remote desktop service to connect to UCS server PC
- **25058, 25059 (TCP):** Gateway Relay Session
- **25056, 25057 (TCP):** Chatting Session
- **5588 (UDP, TCP):** IPKTS Signaling
- **6254 (UDP):** Multicast Signaling
- **25060 (UDP, TCP):** SIP Signaling

1. Select **[Control Panel (View by: small icons) - Administrative Tools - Windows Firewall]**.



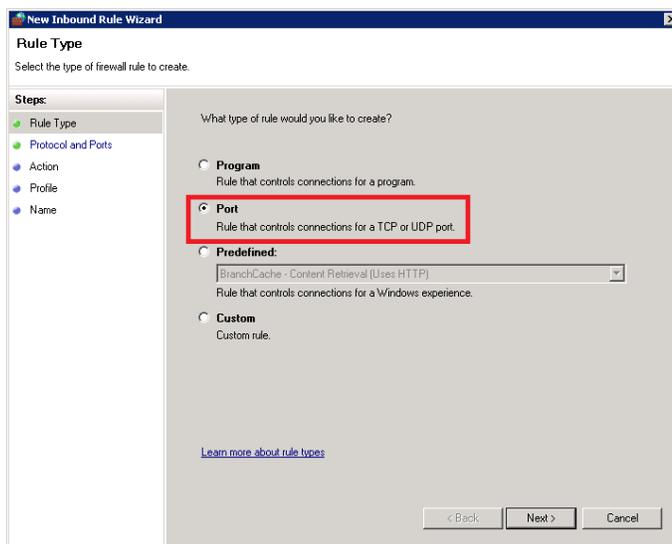
2. Select **[Advanced Settings]**.



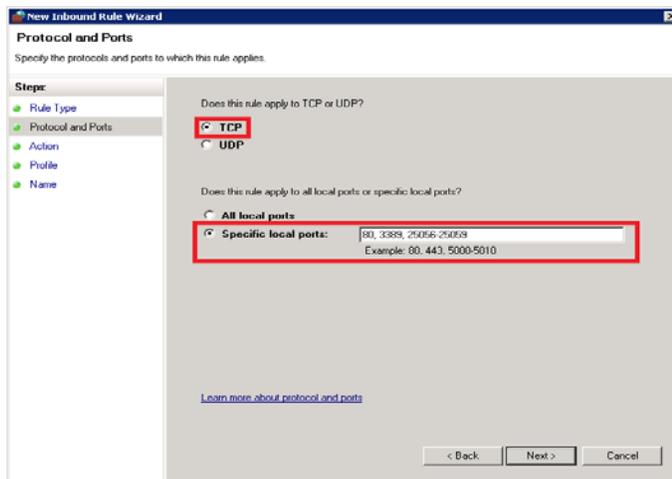
3. Select **[New Rule...]** in 'Inbound Rules'.



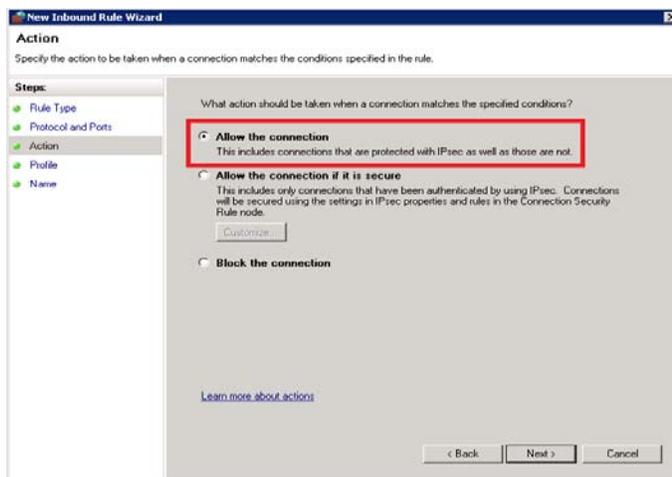
4. New Inbound Rule Wizard is shown. Select **[Port]** then click **[Next]**.



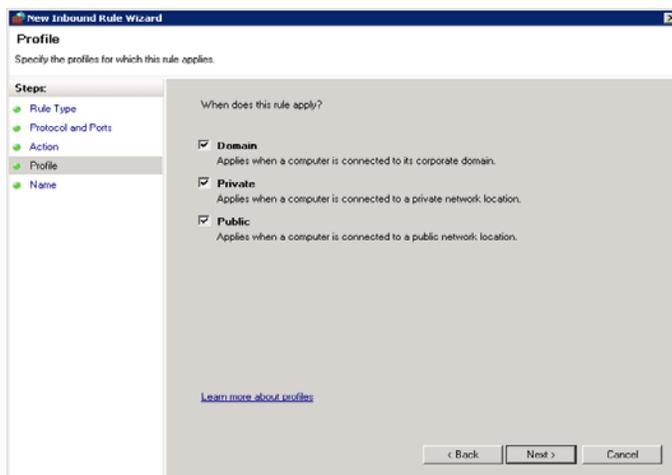
5. Select **[TCP]** and the **[Specific local ports]** radial buttons, and input TCP ports 80, 3389, 25056-25059, 5588, 6254, and 25060. Then click **[Next]**.



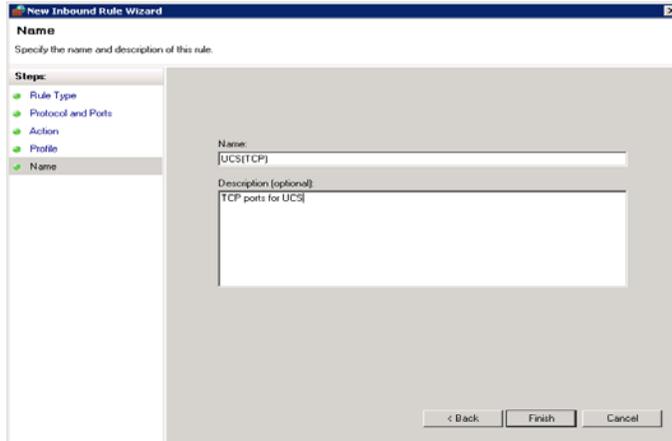
6. Select **[Allow the connection]**, then click **[Next]**.



7. Select **Domain**, **Private**, and **Public** then click **[Next]**.



- Input a 'Name' and 'Description' then click [**Finish**].



- Check that the rule is added in 'Inbound Rules'



- Repeat steps 1 ~ 9 for UDP ports 5588, 6254, and 25060 in 'Inbound Rules'
- Repeat steps 1 ~9 for TCP ports 80, 3389, 25056-25059, 5588, 6254, and 25060 in 'Outbound Rules'
- Repeat steps 1 ~9 for UDP ports 5588, 6254, and 25060 in 'Outbound Rules'

2.6.2 Set-up External Firewall

When an external firewall exists to provide service to UCS Clients to and from outside of the network, the required TCP and UDP ports must be opened.

- **80 (TCP):** HTTP Service
- **25058, 25059 (TCP):** Gateway Relay Session
- **25056, 25057 (TCP):** Chatting Session
- **5588 (UDP, TCP):** IPKTS Signaling
- **25060 (UDP, TCP):** SIP Signaling

NOTE

If the iPECS PBX platform is behind a firewall, the required ports must also be opened in this firewall to allow communication with UCS Clients. The TCP and UDP ports to be opened can be referenced from '**Appendix-Port Table**'.

Chapter 3

Connection to iPECS PBX System



Connection to iPECS PBX System is a multi-step process. **Failure to follow the step-by-step process may result in failure of the connection.**

3.1 Lock key Installation and Configuration of iPECS PBX Systems

iPECS UCS employs a seat-based license, which is managed by iPECS PBX system. The license lock-key must be installed in the iPECS PBX by the iPECS administrator prior to installation of iPECS UCS.

After the lock-key installation, configuration steps are required for connection with UCS Server. The steps are explained for each iPECS platform below.

NOTE

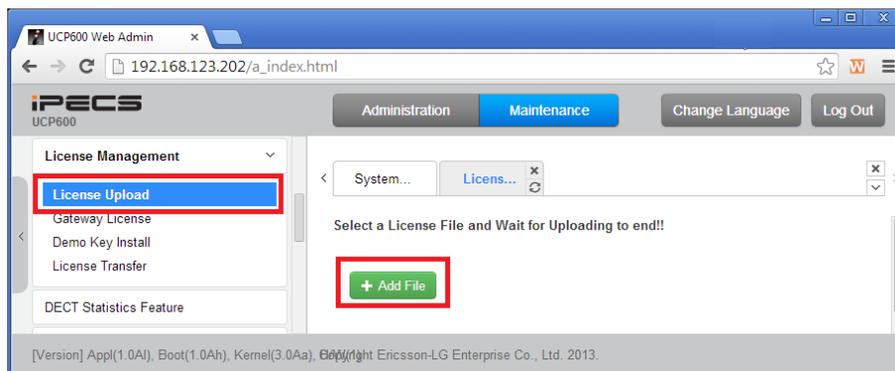
iPECS UCS Clients cannot login if the lock key is not installed.

3.1.1 iPECS Unified System

Install the lock key and configure as below in Unified Web Admin.

1. Lock-key Installation:

Go to [**Maintenance – License Management – License Upload**], select [**Add File**] then upload UCS license file.

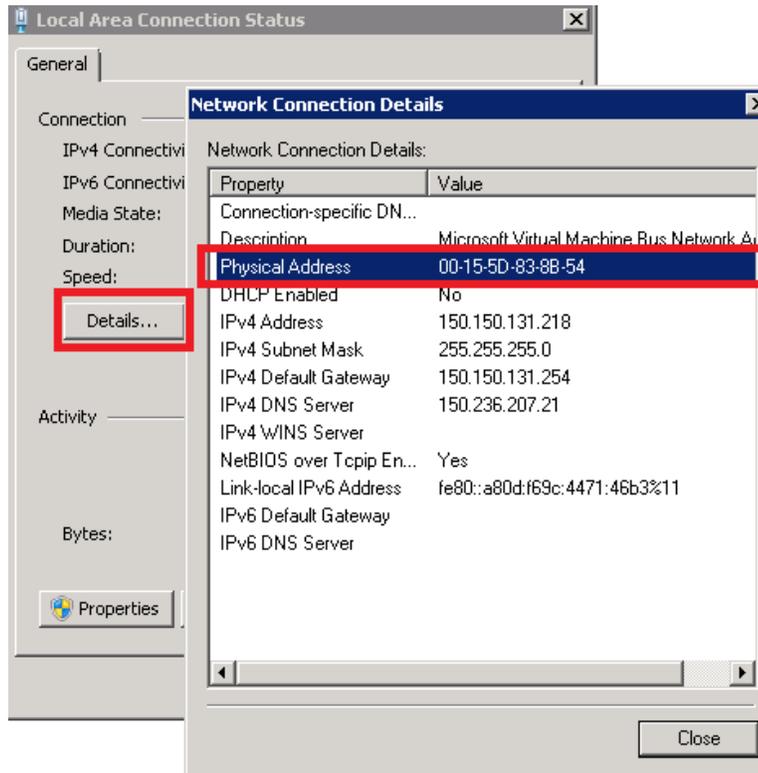


2. Registration of MAC Address of UCS Server:

Go to [Administration - Tables Data – Registration Table], then enter the MAC address of iPECS UCS Server PC.

Auto Ring Mode Table(233)	Index	MAC Address	Maximum Port	Device ID
Voice Mail Dialing Table(234)	1	00155d83b00	0	0
> Registration Table(235)	2	000000000000	0	0

To determine the MAC address of the server PC, go to [Local Area Connection Status – Details – Physical Address] of the server PC. The physical address, see below, is the MAC address.



NOTE

If Dipswitch 3 of iPECS Unified module is ON, entry of the UCS Server MAC address is not required.

3. Checking Empty Station Group

Go to [Administration - Station Group Data – Station Group Overview], then check the empty station group(*401).

System Data	Group Number ↓ ^a	Type ↓ ^a	Pickup Attribute
Station Group Data	*401	N/A	
> Station Group Overview	*402	N/A	
	*403	N/A	

4. Assigning a Station Group on the Empty Group Number

- Go to the PGM Code 190 [Administration - Station Group Data – Station Group Assignment], then type the empty group number (*401) and click [Load] button.
- After the loading, select group type to [UCS] and click [Save Group Type] button.

System Data

Station Group Data

Station Group Overview

Station Group Assignment(190)

Station Group Attributes(191)

Pick-Up Group Overview

Pick-Up Group(192)

Enter Group Number : Load

Group Number *401

Group Type : UCS

Pick-up Attribute : OFF

Save Group Type

Add/Delete Group M



CAUTION

UCS Station Group must be assigned. If you do not assign the station group, then incoming call routing does not work.

5. Checking Station Group Attributes

- Go to the PGM Code 191 [Administration - Station Group Data – Station Group Attributes], then type the assigned group number (*401) and click [Load] button.
- Check that the value of UCS server is correct.

System Data

Station Group Data

Station Group Overview

Station Group Assignment(190)

Station Group Attributes(191)

Pick-Up Group Overview

Pick-Up Group(192)

Enter Group Number : Load

Group Number *401

Group Type : UCS

Pick-up Attribute : OFF

Attribute	Value	Range
UCS Server	1	01 - 16

6. UCS Server Type – Premium:

Go to [Administration – UCS Standard – Common Attributes] then for the UCS Server Type, select “Premium”.

iPECS UCP600

Administration Maintenance Change Language Log Out

UCS Standard

Common Attributes(445)

UCS Standard Client Login(446)

UCS Premium Client Login(446)

UCS Standard Client Attributes(447)

Administrative Message(448)

UCS Standard Client Audio Setting(449)

DECT Data

Favorite PGM Common At...

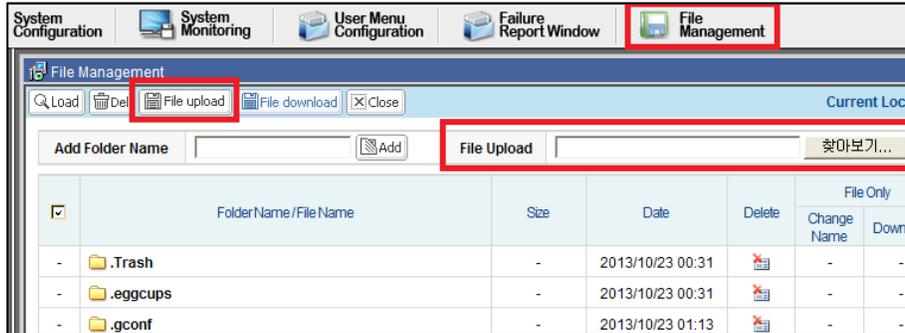
Order	Attribute	Value	Range
1	Concurrent Clients In Login	100	System Capacity
2	Minimum Password Length	12	Max 12 Characters
3	Do Not Allow The Same Password And User ID	OFF	
4	XML Port	8899	
5	Clients Check Interval	30	sec
6	UCS Server Type	Premium	

3.1.2 iPECS-CM System

Install the lock-key and configure as below in CM Web Admin.

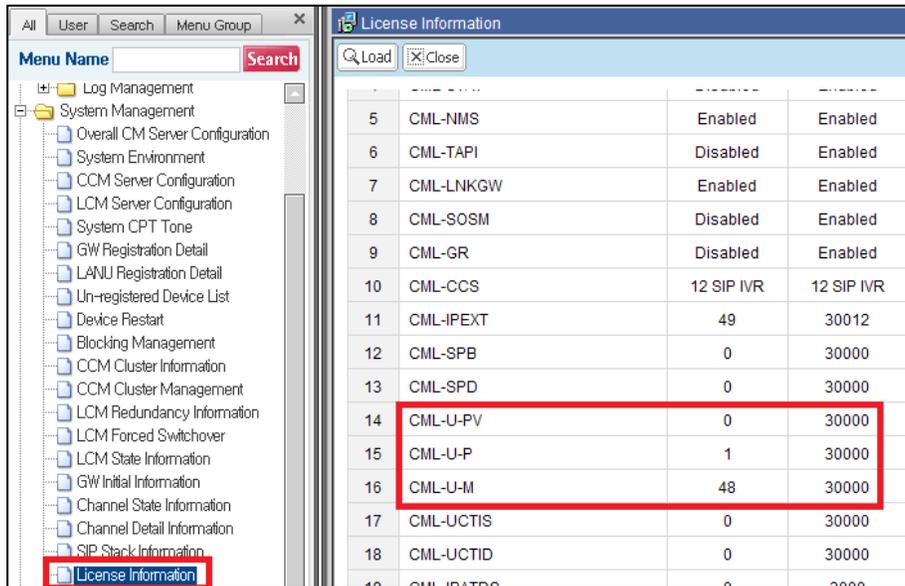
1. Lock-key Installation:

Upload license file using the File upload function in the **[File Management]** Web page.



2. Check the Lock-key Registration:

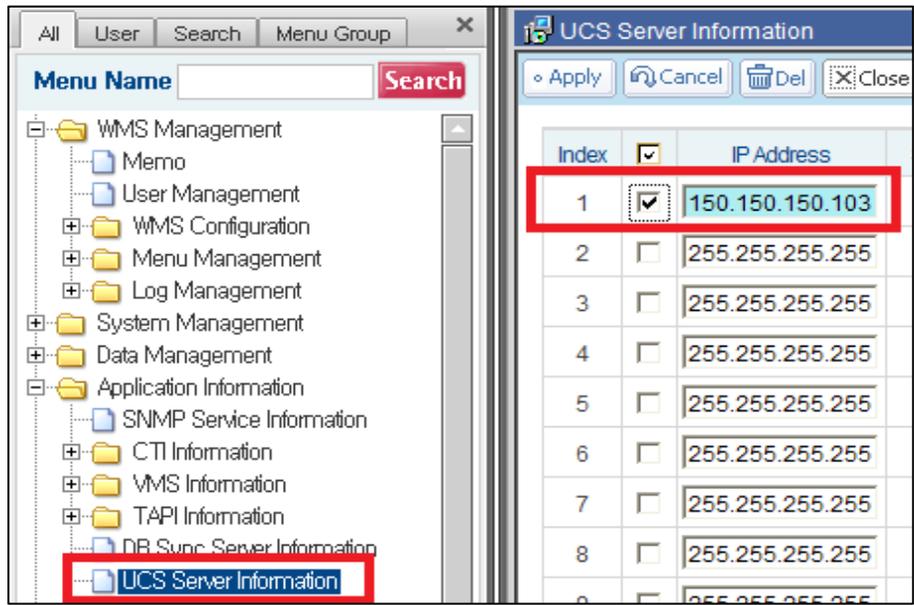
Go to **[System Management – License Information]** and verify the correct license registration.



- CML-U-PV: UCS Desktop Client with Voice
- CML-U-V: UCS Desktop Client without Voice
- CML-U-M: UCS Mobile Client

3. UCS Server IP Address Registration:

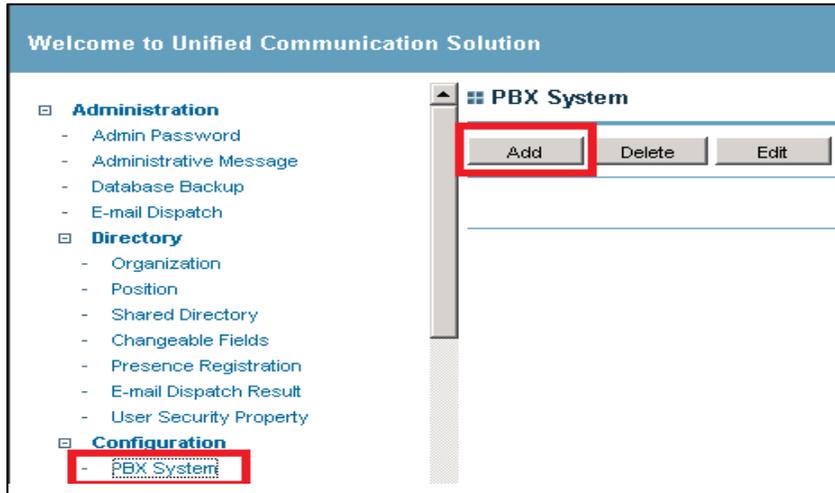
Go to **[Application Information – UCS Server Information]**, then click **[Modify]**. Check the box, input the UCS Server IP address, and then click **[Apply]**.



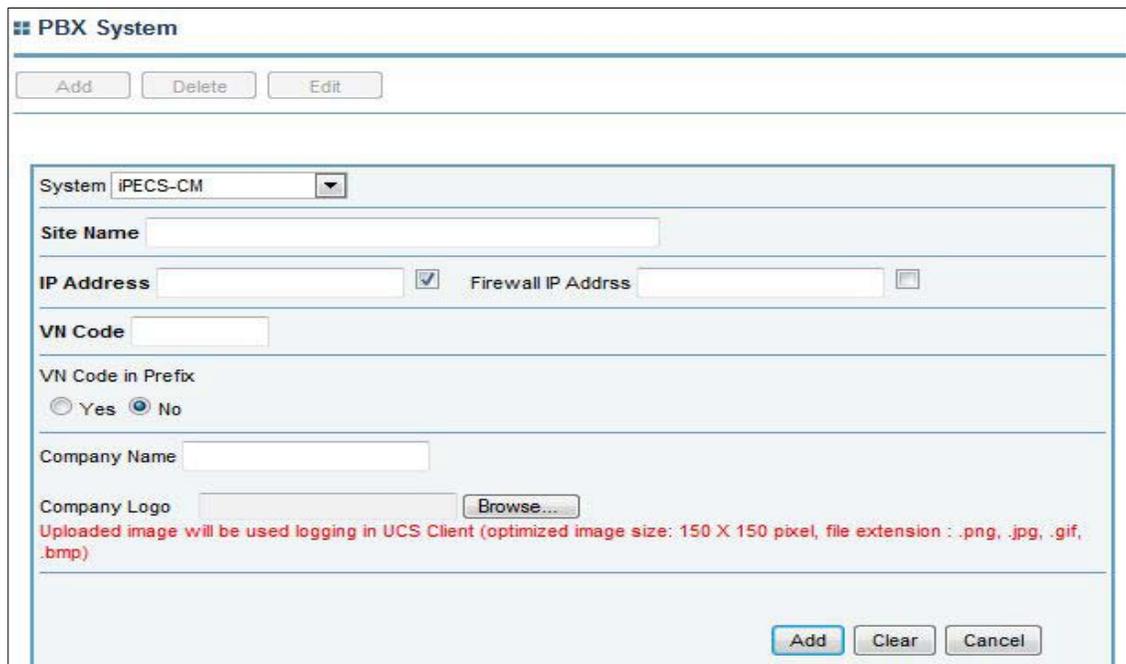
3.2 iPECS UCS Server and PBX Connection

In UCS Web Admin, the iPECS PBX platform must be identified and a connection established between the UCS Server and the iPECS PBX Call server.

1. Go to **[Administration – Configuration – PBX System]** then click **[Add]**.



2. In the display shown, select **[System]** and input **[Site Name, PBX IP Address, VN Code]**, then click **[Add]**. The VN (Voice Networking) code can be any number; in networked environments, the VN code identifies the call server location in the network.

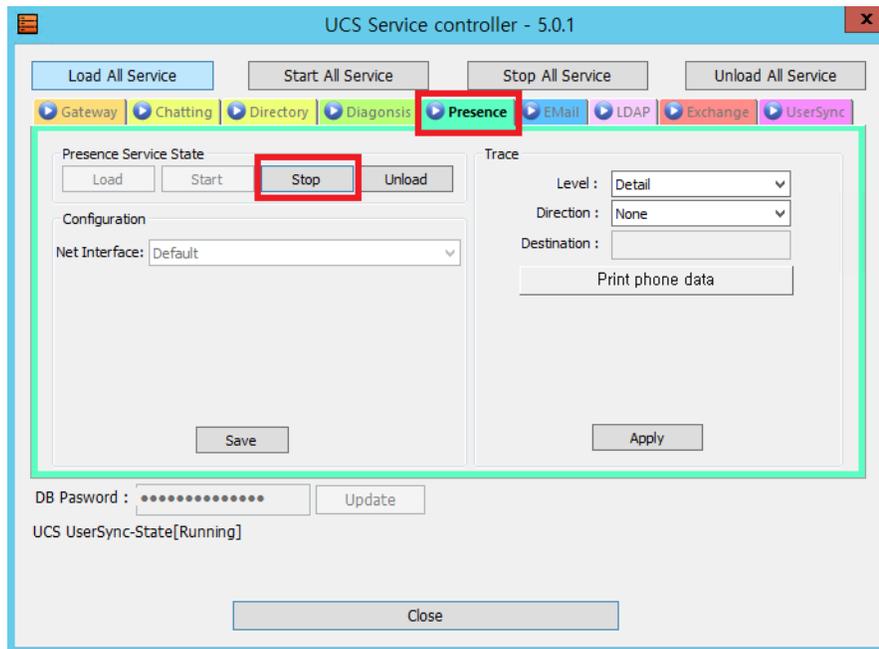


The screenshot shows the 'PBX System' configuration form. It includes the following fields and controls:

- System: iPECS-CM (dropdown menu)
- Site Name: [Text input field]
- IP Address: [Text input field] with a checked checkbox and Firewall IP Address: [Text input field] with an unchecked checkbox
- VN Code: [Text input field]
- VN Code in Prefix: Radio buttons for Yes and No (No is selected)
- Company Name: [Text input field]
- Company Logo: [Text input field] with a 'Browse...' button
- Uploaded image will be used logging in UCS Client (optimized image size: 150 X 150 pixel, file extension : .png, .jpg, .gif, .bmp)
- Buttons: Add, Clear, Cancel

- Refer to **6.4.1 PBX Systems** for details.

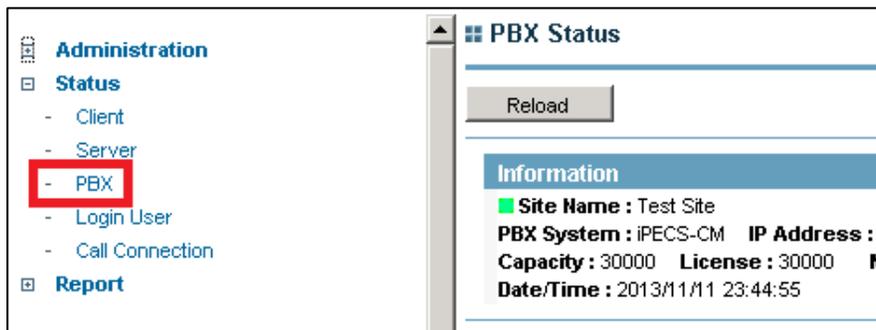
- Click [Stop] on the 'Presence' tab of UCS Service Controller. Wait until the **[Start]** button is enabled. Click **[Start]**.



CAUTION

To finish the connection between UCS Server and PBX, the 'Presence Service' must be restarted.

- Go to **[Status – PBX]** and verify that UCS Server is connected to the iPECS PBX. If connected, a green box is shown preceding the Site Name, otherwise a red box is shown.



- Refer to **6.2.3 PBX** for details.

UCS Account Registration

iPECS UCS accounts are generated in iPECS PBX or iPECS UCS depending on type of UCS accounts. The generated UCS accounts are saved in UCS Shared Directory, and they are able to be searched from UCS Clients to provide convenience for UCS users.

4.1 Shared Directory

The Shared Directory is an address book, which is available to all UCS Clients, and contains following contacts:

- **UCS User (Client):** an account to login to UCS Server
- **Phone User:** an extension account for searching and checking phone status from UCS Client
- **External Contact:** a contact for searching from UCS Client.

Internal contacts include all UCS Users and Phone Users registered to the iPECS PBX platform. The iPECS PBX platform is instructed to send the contact information to the UCS Server as the UCS or Phone User is registered or in bulk. When received, the UCS Server registers the UCS User or Phone User as a contact in the Shared Directory. UCS Clients can search the Shared Directory and add contacts from the directory to their local contacts as well as their Presence list.

External contacts are entered in the Shared Directory by the iPECS administrator and can be searched and added to the local UCS Client contacts. However, Presence and phone status of external contacts is not provided to the UCS Client.

NOTE

The maximum number of accounts available in the Shared Directory is as follows:

UCS User: 4,000 entries

Phone User: 5,000 entries

External Contact: 10,000 entries

4.2 UCS User Registration

The iPECS PBX platform is instructed to send the UCS User information to the UCS Server as the UCS User is registered or in bulk. The generated UCS User information is saved in the UCS Shared Directory.



CAUTION

If the SSO (Single Sign On) service is used with Microsoft AD (Active Directory), then the UCS User ID must be the same as the User ID of AD.

4.2.1 iPECS Unified

4.2.1.1 Unit Registration

UCS Clients must be registered with the iPECS Unified before they can be registered in the UCS Server. The process is detailed in the iPECS Unified Admin and Maintenance Manual and is provided here for reference only. UCS Client licenses and UCS Server Station Group Attributes must be assigned in the iPECS Unified prior to registering clients. In addition, the UCS Server Type for the UCS Client must be configured as Premium type in the iPECS Unified under the UCS Standard Common Attributes.

1. Login to the iPECS Unified Web Admin
2. Go to [**UCS Standard – UCS Premium Client Login**] on Unified Web Admin. Input the UCS Server Id then click [**Load**].

The UCS Server Id is assigned under the iPECS Unified Station Group Attributes for the UCS Server Group.

The screenshot shows the iPECS UCP600 Administration interface. On the left, a sidebar lists navigation options under 'UCS Standard': 'Common Attributes(445)', 'UCS Standard Client Login(446)', 'UCS Premium Client Login(446)' (highlighted in blue), and 'UCS Standard Client Attributes(447)'. The main area has two tabs: 'Administration' (active) and 'Maintenance'. Below the tabs, there's a 'Favorite PGM' section with 'UCS Premium ...' selected. A red box highlights a form field labeled 'Enter UCS Server ID (1 - 16) : 1' and a 'Load' button.

- Input the user information and check the box in front of the index number, then click **[Save]**.

Enter UCS Server ID (1 - 16) :

UCS Server ID 1

(*) : Required Input Item

Confirmation from UCS Server

<input type="checkbox"/>	Index	Station Number (*)	User ID (*)	User Password (*)	Name (*)	Office Phone	Cellular Phone	Home Phone
<input checked="" type="checkbox"/>	1	2039	ucp2039	*****	미천삼십구			

Office Name	Office Department (*)	E-mail Address (*)	Linked Pair	Unique ID	Mutual Presence Permission	License
EKR	uc	yavatar@chol.com	OFF		OFF	PREM-V

- **Station Number, User ID** cannot be modified after they are saved.
 - Station Number, User ID, User Password, Name, Office Department, E-mail Address are required fields and must be entered to register the login-able client.
 - **Office Department** is the name of department within the organization to which the UCS Client user is assigned. If the organization name does not exist, a name is created in UCS Web Admin automatically. Refer to **6.2.1 Organization** for details.
 - **Linked Pair:** When ON, the UCS Client is linked to the desktop phone with the 'Desired Number'. The desktop phone and UCS Client will function as a single user terminal. Refer to the iPECS Unified manuals for further details on Linked Pair operation.
 - **Unique ID:** identifies the user record in an LDAP database when 'Shared Directory Information Sync (LDAP)' is enabled. Enter the user's unique value such as employee number. Refer to **6.4.3 Shared Directory Information Sync** for details.
 - **Mutual Presence Permission:** permits presence information to be shared within the iPECS Unified but has no effect on UCS Server functions with the UCS Client.
 - **License:** There are three types of license, PREM-V, PREM-NV, and MOBILE. Select appropriate license for the account.
- If the box in front of the UCS Client index is checked, iPECS Unified sends UCS account information to UCS server, which will register the UCS Client account in the Shared Directory. Once the client is registered, the client information, other than the User ID and Station Number, can be modified in the Shared Directory. Refer to 6.2.3 Shared Directory for details.

NOTE

If you delete a UCS account in the iPECS Unified, the UCS Server account information is deleted automatically. A UCS account can only be deleted in the iPECS Unified.

4.2.1.2 Mass Registration

The USC Client registration page in the iPECS Unified Web Admin is compatible with Microsoft Excel. You can enter registration inputs on Microsoft Excel, then copy then to registration page.

Enter UCS Server ID (1 - 16) :

UCS Server ID 1

Confirmation from UCS Server

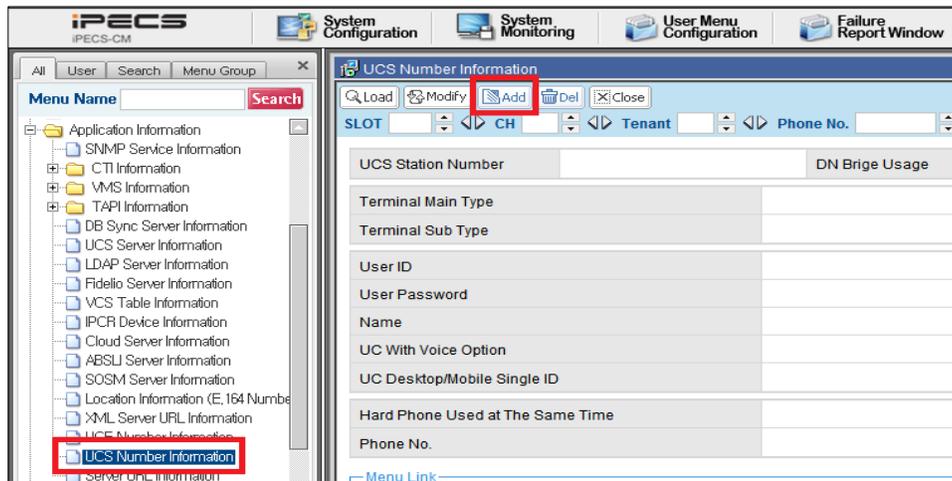
<input type="checkbox"/>	Index	Station Number	User ID	User Password	Name	Office Phone	Cellular Phone	Home Phone	Office Name	Office Department	E-mail Address
<input checked="" type="checkbox"/>	1	2000	ucp2000	ucp2000	ucp2000					uc	
<input checked="" type="checkbox"/>	2	2001	ucp2001	ucp2001	ucp2001					uc	
<input checked="" type="checkbox"/>	3	2002	ucp2002	ucp2002	ucp2002					uc	
<input checked="" type="checkbox"/>	4	2003	ucp2003	ucp2003	ucp2003					uc	
<input checked="" type="checkbox"/>	5	2004	ucp2004	ucp2004	ucp2004					uc	
<input type="checkbox"/>	6										
<input type="checkbox"/>	7										
<input type="checkbox"/>	8										

4.2.2 iPECS-CM

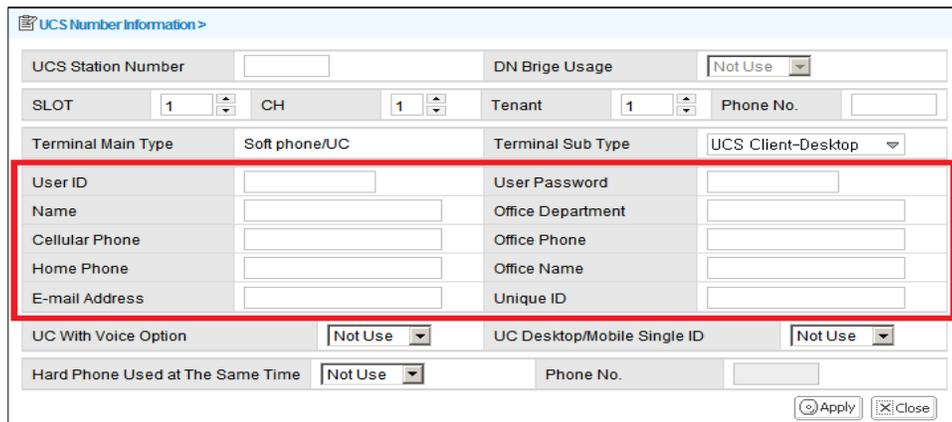
4.2.2.1 Unit Registration

UCS Clients must be registered with the iPECS-CM before they can be registered in the UCS Server. The process is detailed in the iPECS-CM Admin and Maintenance Manual and is provided here for reference only. UCS Client licenses must be assigned in the iPECS-CM prior to registering clients.

1. Go to [Application Information - UCS Number Information] then select [Add]



2. Input the UCS Station Number, Slot and Channel information.

This is a detailed view of the 'UCS Number Information' configuration form. The form is divided into several sections. At the top, there are fields for 'UCS Station Number' and 'DN Brige Usage' (set to 'Not Use'). Below that are dropdown menus for 'SLOT' (set to 1), 'CH' (set to 1), 'Tenant' (set to 1), and 'Phone No.'. The 'Terminal Main Type' is set to 'Soft phone/UC' and 'Terminal Sub Type' is set to 'UCS Client-Desktop'. A red rectangle highlights the 'User Information' section, which includes fields for 'User ID', 'User Password', 'Name', 'Office Department', 'Cellular Phone', 'Office Phone', 'Home Phone', 'Office Name', 'E-mail Address', and 'Unique ID'. Below this section are fields for 'UC With Voice Option' (set to 'Not Use'), 'UC Desktop/Mobile Single ID' (set to 'Not Use'), 'Hard Phone Used at The Same Time' (set to 'Not Use'), and 'Phone No.'. At the bottom right, there are 'Apply' and 'Close' buttons.

- The UCS Number Information page is divided into two parts. The input components in the red rectangle above are related to “User information” and the other properties are related to “Extension information” as discussed below.
- User Information
 - **User ID, User Password, Name, and Office Department** are required fields and must be entered to register the client.
 - **Office Department** is the name of department within the organization to which the UCS Client user is assigned. If the organization name does not exist, a name is created in

UCS Web Admin automatically. Refer to **6.2.1 Organization** for details.

- **Unique ID:** identifies the user record in an LDAP database when 'Shared Directory Information Sync (LDAP)' is enabled. Enter the user's unique value such as employee number. Refer to **6.4.3 Shared Directory Information Sync** for details.
- Extension Information
- There are three ways of generating UCS Clients depending on the intended use.
 - For use as a soft phone only, enter the same extension number (example.1000) for the [UCS Station Number] and [Phone No.], then select 'Not Use' for the [Hard Phone Used at The Same Time] property.

The screenshot shows the 'UCS Number Information' form. The 'UCS Station Number' field is set to '1000'. The 'DN Brige Usage' dropdown is set to 'Not Use'. The 'SLOT' and 'CH' dropdowns are both set to '1'. The 'Tenant' dropdown is set to '1'. The 'Phone No.' field is set to '1000'. The 'Terminal Main Type' is 'Soft phone/UC' and the 'Terminal Sub Type' is 'UCS Client-Desktop'. The 'User ID' and 'Name' fields are both 'cm1000'. The 'User Password' field contains six dots. The 'Office Department' is 'UCS'. The 'UC With Voice Option' dropdown is set to 'Use'. The 'UC Desktop/Mobile Single ID' dropdown is set to 'Use'. The 'Hard Phone Used at The Same Time' dropdown is set to 'Not Use'. There is an empty 'Phone No.' field next to it. 'Apply' and 'Close' buttons are at the bottom right.

- For use with an iPECS desktop phone, enter the desktop phone number as the [UCS Station Number] and the SADN number (#001100) as the first [Phone No.]. Select 'Use' for the [Hard Phone Used at The Same Time] property and the desktop phone number in the adjacent [Phone No.] property.

The screenshot shows the 'UCS Number Information' form. The 'UCS Station Number' field is set to '1000'. The 'DN Brige Usage' dropdown is set to 'Not Use'. The 'SLOT' and 'CH' dropdowns are both set to '1'. The 'Tenant' dropdown is set to '1'. The 'Phone No.' field is set to '#001100'. The 'Terminal Main Type' is 'Soft phone/UC' and the 'Terminal Sub Type' is 'UCS Client-Desktop'. The 'User ID' and 'Name' fields are both 'cm1000'. The 'User Password' field contains six dots. The 'Office Department' is 'UCS'. The 'UC With Voice Option' dropdown is set to 'Use'. The 'UC Desktop/Mobile Single ID' dropdown is set to 'Use'. The 'Hard Phone Used at The Same Time' dropdown is set to 'Use'. The 'Phone No.' field next to it is set to '1000'. 'Apply' and 'Close' buttons are at the bottom right.

- For use with a SIP phone, enter the desktop phone number as the [UCS Station Number] and the SADN number (#001100) as the first [Phone No.]. Select 'Use' for the [Hard Phone Used at The Same Time] property and the second SADN number (0021000) in the adjacent [Phone No.] property.

The screenshot shows the 'UCS Number Information' configuration window. The fields are as follows:

UCS Station Number	1000	DN Brige Usage	Not Use
SLOT	1	CH	1
Tenant	1	Phone No.	#0011000
Terminal Main Type	Soft phone/UC	Terminal Sub Type	UCS Client-Desktop
User ID	cm1000	User Password	*****
Name	cm1000	Office Department	UCS
Cellular Phone		Office Phone	
Home Phone		Office Name	
E-mail Address		Unique ID	
UC With Voice Option	Use	UC Desktop/Mobile Single ID	Use
Hard Phone Used at The Same Time	Use	Phone No.	#0021000

- Select the type of UCS Client at [Terminal Sub Type].
 - **UCS Client-Desktop:** For Generating UCS PC Client
 - **UCS Client-Mobile:** For Generating UCS Mobile Client
 - Select 'Use' for the [UC With Voice Option] property if UCS Client licenses is for full voice operation. If not, select 'Not Use'. In this case, UCS Client can be used to place calls but the audio is provided by the linked desktop phone.
 - If you select 'Use' at [UC Desktop/Mobile Single ID] then you can use a Desktop or Mobile UCS client. In this case, you must select 'UCS Client-Desktop' for [Terminal Sub Type]. If you select 'Not Use', then only the UCS Client selected at [Terminal Sub Type] is available.
 - [DN Brige Usage] is enabled if [Hard Phone Used at The Same Time] property is 'Use'.
 - If 'Use' is selected, the desktop phone and UCS Client are 'linked'. This allows placing or receiving a call from the client simply lifting the handset of the desktop phone to connect to the caller.
 - If 'Not Use' is selected, the desktop phone and UCS Client are not 'linked' and the bridging function is not supported.
3. Click [Apply], the iPECS-CM registers the client and sends the UCS account information to UCS server, which will register the UCS Client account in the Shared Directory. Once the client is registered, the client information, other than the User ID and Station Number, can be modified in the Shared Directory. Refer to 6.2.3 Shared Directory for details.

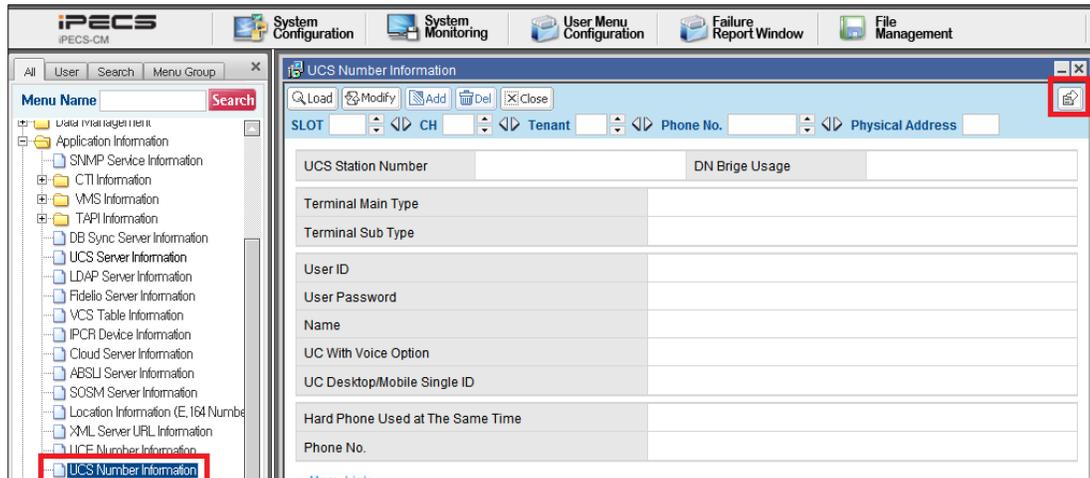
NOTE

If you delete a UCS account in the iPECS CM, the UCS account information is deleted automatically. A UCS account can only be deleted in the iPECS CM.

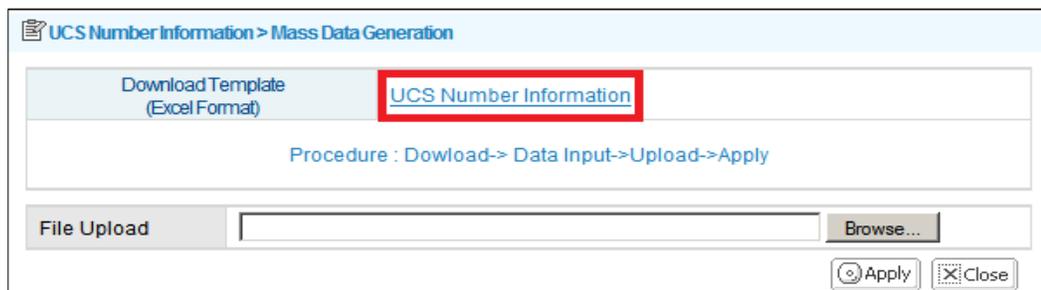
4.2.2.2 Mass Registration

UCS Clients can be registered in bulk with the iPECS-CM employing an Excel template downloaded from the iPECS-CM.

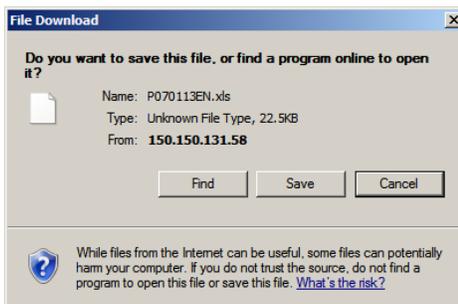
1. Go to **[Application Information - UCS Number Information]** then click the **[Excel Upload]** icon, upper right.



2. Click **[UCS Number Information]**.



3. Click **[Save]** to download 'Excel Format' file.



- Enter the user's information in the Excel file and save the file.

SLOT	CH	Tenant	UCS Station Number	Phone Number	Sub Type (Main Type / Soft/UC)	User ID	User Password	Name	Office Department	Cellular Phone	Office Phone
1	1	1	1000	1000	UCS Client-Desktop	cm1000	cm1000	cm1000	usa		
2	1	2	1001	1001	UCS Client-Desktop	cm1001	cm1001	cm1001	usa		
3	1	3	1002	1002	UCS Client-Desktop	cm1002	cm1002	cm1002	usa		
4	1	4	1003	1003	UCS Client-Desktop	cm1003	cm1003	cm1003	usa		
5	1	5	1004	1004	UCS Client-Desktop	cm1004	cm1004	cm1004	usa		
6	1	6	1005	1005	UCS Client-Desktop	cm1005	cm1005	cm1005	usa		
7	1	7	1006	1006	UCS Client-Desktop	cm1006	cm1006	cm1006	usa		
8	1	8	1007	1007	UCS Client-Desktop	cm1007	cm1007	cm1007	usa		
9	1	9	1008	1008	UCS Client-Desktop	cm1008	cm1008	cm1008	usa		
10	1	10	1009	1009	UCS Client-Desktop	cm1009	cm1009	cm1009	usa		

Home Phone	Office Name	E-mail Address	Unique ID	UC With Voice Use Option	UC Desktop/Mobile Used at The Same Time	Hard Phone		
						Used at The Same Time	Phone No.	Brige Line Usage
		cm1000@ucapp.com		Use	Use		Not Use	Not Use
		cm1001@ucapp.com		Use	Use		Not Use	Not Use
		cm1002@ucapp.com		Use	Use		Not Use	Not Use
		cm1003@ucapp.com		Use	Use		Not Use	Not Use
		cm1004@ucapp.com		Use	Use		Not Use	Not Use
		cm1005@ucapp.com		Use	Use		Not Use	Not Use
		cm1006@ucapp.com		Use	Use		Not Use	Not Use
		cm1007@ucapp.com		Use	Use		Not Use	Not Use
		cm1008@ucapp.com		Use	Use		Not Use	Not Use
		cm1009@ucapp.com		Use	Use		Not Use	Not Use

- Return to the iPECS-CM User Information page and click **[Browse]** then select the saved Excel file. The results can be verified after clicking **[Apply]**.

UCS Station Number	1009			
Modify Result	Total Error : 0			
Progress Status	100% <input type="button" value="Confirm"/>			
SLOT	CH	Tenant	UCS Station Number	Error Log

4.3 Phone User Registration

4.3.1 iPECS Unified

4.3.1.1 Unit Registration

Unit registration of Phone User is the same as UCS user registration in Unified System except for entering User ID and Password. User ID should be empty and Password can be any character.

4.3.1.2 Mass Registration

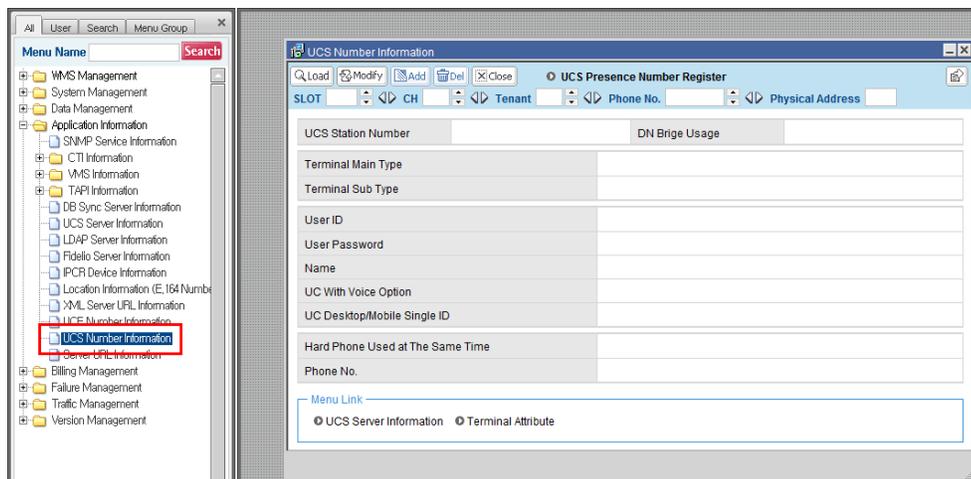
Mass registration of Phone User is the same as UCS user registration in Unified System except for entering User ID and Password. User ID should be empty and Password can be any character.

4.3.2 iPECS-CM

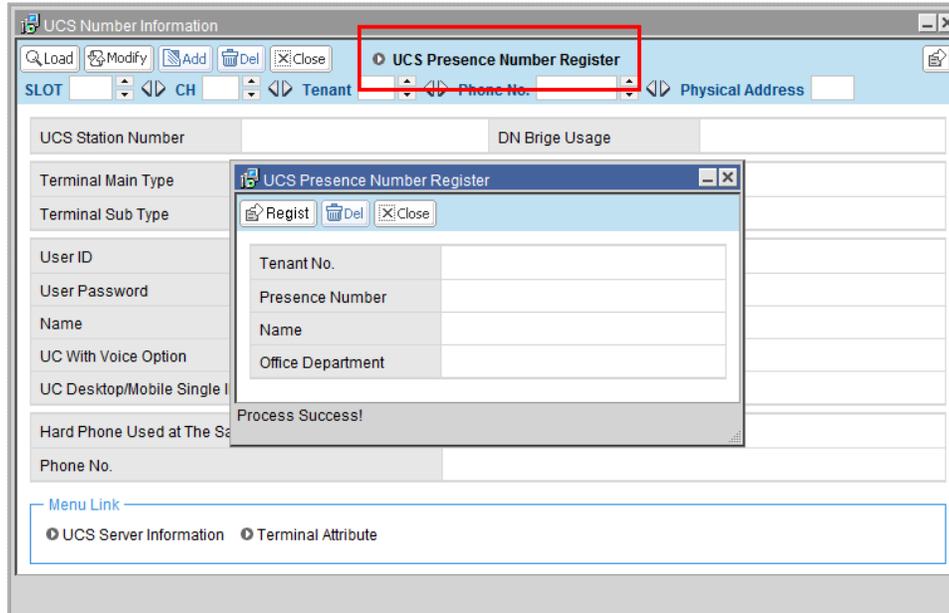
4.3.2.1 Unit Registration

Phone Users can be registered with the iPECS-CM before they can be registered in the UCS Server. Phone User does not have User ID and cannot login, but the registration process is similar to UCS user registration. UCS clients can add Phone users to their presence list, and can see the phone status.

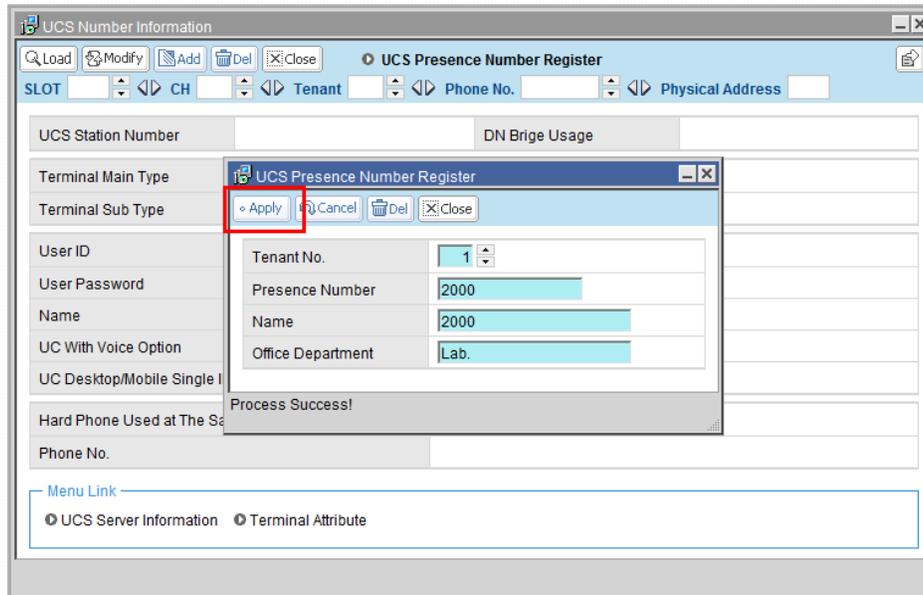
1. Login to the iPECS-CM WMS
2. Go to **[Application Information – UCS Number Information]** on CM WMS.



3. Click [**UCS Presence Number Register**], then a window to register will pop up.



4. Click [**Register**], fill the requested data, click [**Apply**] and, click [**Confirm**].



- 'Tenant No.' is the Tenant number where the phone number is registered.
- 'Presence Number' is the phone number in use.
- 'Name' is the name of the phone.
- 'Office Department' is the department where the phone is used.

NOTE

- Phone User Registration in iPECS CM is supported by the s/w version 5.5Cx or later.
 - Phone User can be deleted by iPECS CM. In step 3, by clicking **[Del]** instead of **[Regist]** the deletion window will pop up.
 - iPECS CM does not keep the current list of Phone Users. This is available in UCS Web Admin.
-

The iPECS-CM registers the client and sends the Phone User account information to UCS server, which will save Phone User account information in the Shared Directory. Once the phone user is registered, the client information, other than the Station Number, can be modified in the Shared Directory. Refer to 6.2.3 Shared Directory for details.

4.3.2.2 Mass Registration

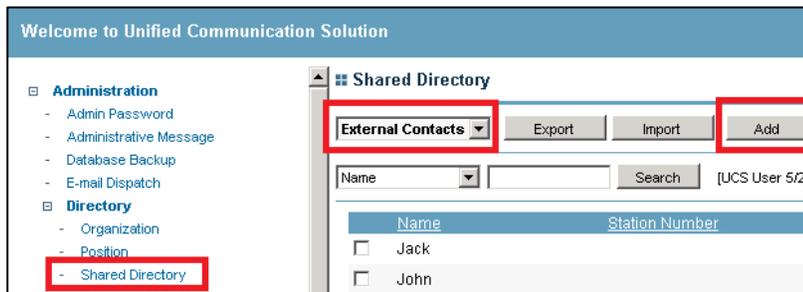
Mass Registration of Phone Users is not supported by iPECS CM.

4.4 External Contact Registration

4.4.1 Unit Registration

For UCS Client user convenience, external contacts and users of the iPECS PBX that are not UCS users can be added to the Shared Directory. Presence is not provided for such users.

1. Go to **[Administration – Directory – Shared Directory]** on UCS Web Admin then select **[External Contacts]** and click **[add]**.



2. Input contact information then click **[Add]**.

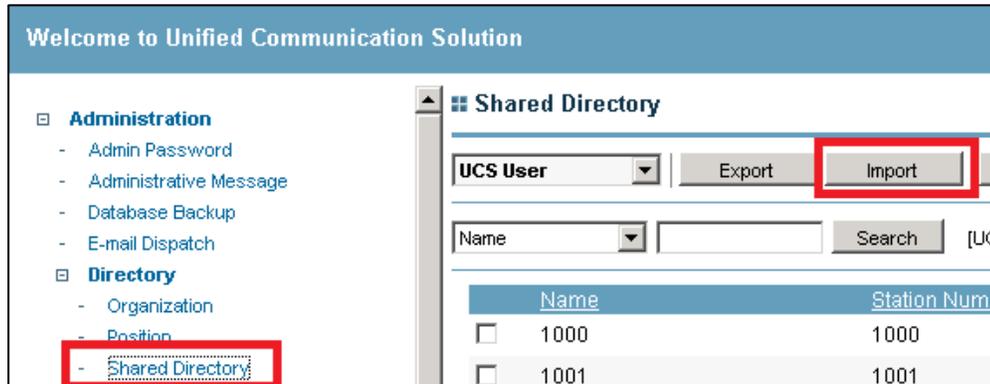
The screenshot shows the 'Add' form for the Shared Directory. The form is titled 'Shared Directory' and has a dropdown menu set to 'External Contacts'. Below the dropdown are buttons for 'Export', 'Import', 'Add', 'Delete', and 'Edit'. A search bar is present with a 'Name' dropdown and a 'Search' button. The form fields are organized into sections: 'Name' (Name, Nickname), 'Station Number' (Station Number, Station Number2, Station Number3, Cellular Phone, Unique ID), 'Office Information' (Office Name, Office Department, Assign Department, Position, Select Position, Official Title), 'Office Phone' (Office Phone, Office Fax), 'Office Address' (Office Address), 'Home Information' (Home Phone, Home Address), and 'E-mail Address' (E-mail Address). A 'User ID' field is at the bottom. At the bottom right of the form are 'Add', 'Clear', and 'Cancel' buttons.

- **[Name]** and **[Office Department]** are required fields and must be entered to register the external contact.

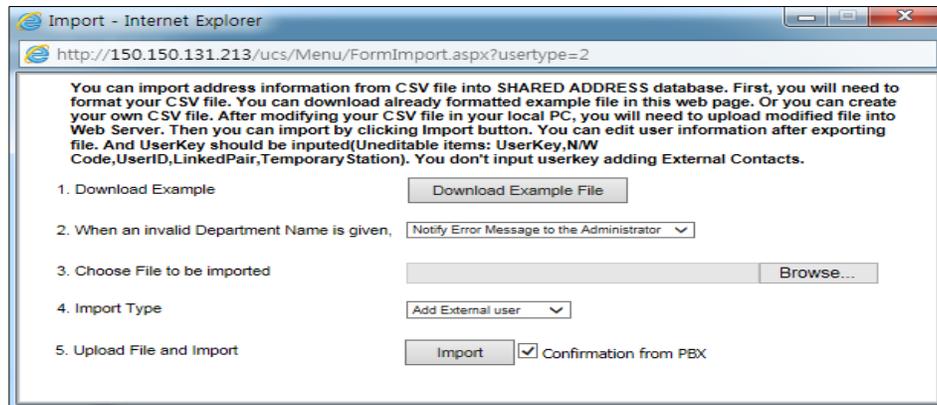
4.4.2 Mass Registration

External contacts can be registered to the Shared Directory in bulk employing the Import function in the Shared Directory. The preformatted Example file can be downloaded, contact information entered, the file saved then imported to the Shared Directory.

1. Go to [Administration – Directory – Shared Directory] in UCS Web Admin then click [Import].



2. Select [Download Example File].



3. Click [Save].



- Open the file in Excel. Enter the external contacts' information and save the file.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	UserKey	Name	NickName	N/W Code	StationNu	TenantPre	CellularPh	OfficeNar	OfficeDep	OfficePho	HomePho	Email	UserID
2	100	KIM	taregashi	42	1001		42 011-111-1	Ericsson-L	BCS	+82 (031)	+82 (031)	tare@lgn.	taregashi

- The row (100,KIM, taregashi, 42...) is an example. Do not remove it.
 - **[Name]** and **[Office Department]** are required fields
 - Enter an 'x' in N/W Code to register external users in an Excel file.
 - **Do not enter a User ID.**
- Choose Import Type to 'Add External user'.
 - Click **[Browse]** then select the saved Excel.
 - Click **[Import]**. After the import is complete, the external contacts are available in the Shared Directory.

4.5 Additional Steps after Registration

After registration of all of user accounts, additional steps are needed before UCS Client login. On UCS Web Admin, administrator can set UCS clients' restricted features and register UCS clients' Presence.

4.5.1 Set Restricted Features of UCS Clients

By default there are some feature restrictions applied to UCS Client. The Administrator can change the restricted features. Refer to 6.3.1 Feature Restriction for details.

4.5.2 Presence Registration of UCS Clients

By default no Presence members are added in UCS Clients. The Administrator can add Presence members for each or all UCS Clients. Refer to 6.2.5 Presence Registration for details.

UCS Client Login

5.1 iPECS UCS Client Login

This section outlines the installation and login procedure for UCS Clients. The section is provided for reference only. For detailed installation, configuration and login procedures refer to the instructions in the UCS Client User Guide.

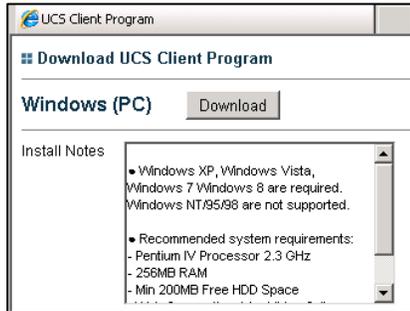
5.1.1 iPECS UCS PC Client

The iPECS UCS PC Client is available in the UCS Web Admin server. UCS server Administrator can set up to show Authentication screen so that the only registered UCS users can download the client program. For more details on this setting, refer to "Download Client Authentication" in section 6.6.1 Properties.

1. From the UCS Client PC open the UCS Web page and click [**Click to download UCS Client Program**].



2. The PC client download page appears, click **[Download]**.



3. Click **[Save]**.



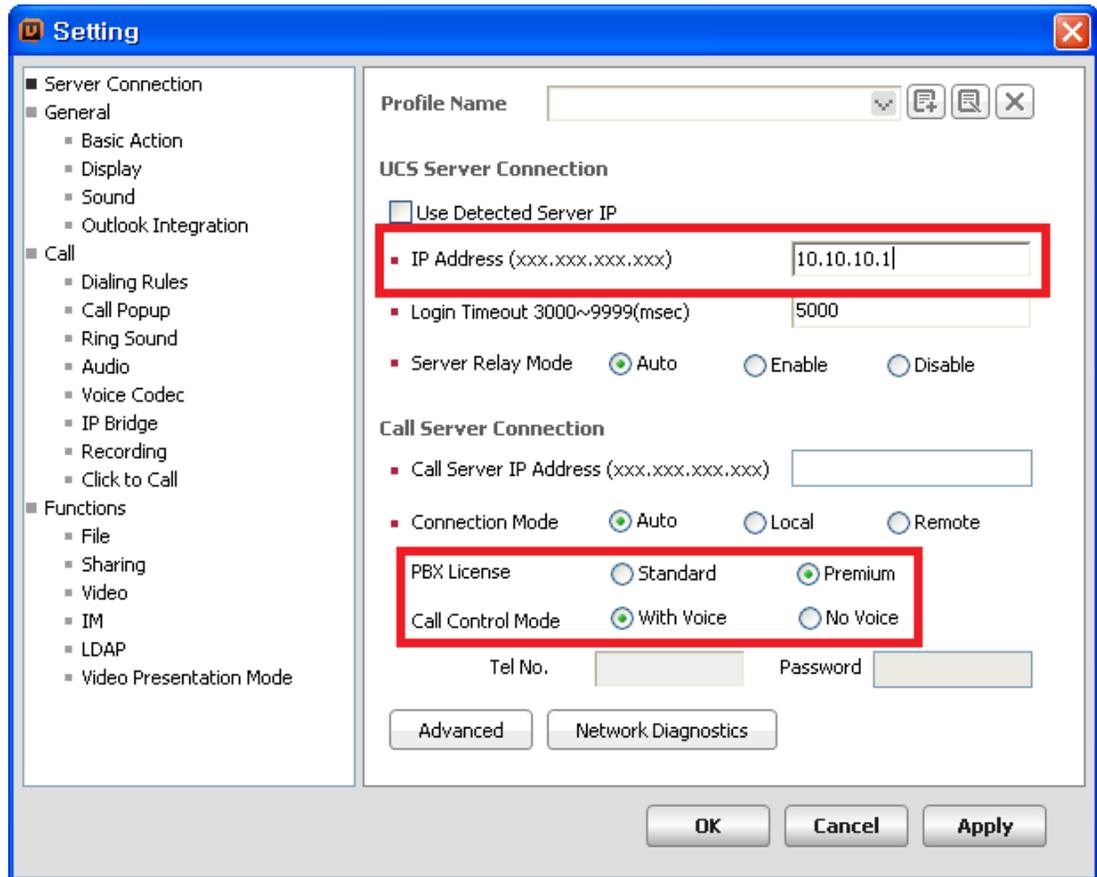
4. Run download file "UCSCClient.exe", then the installation wizard appears. Follow the wizard instructions to complete the installation. The wizard will place the UCS Client shortcut icon on the desktop



5. Click the shortcut icon to run UCS Client then select **[File-Settings]**.



6. Configure the login settings then click **[OK]**.



- **IP Address:** UCS server IP address
 - **PBX License:** Select “Premium”
 - **Call Control Mode:**
 - **With voice:** Select if the UCS client uses voice service.
 - **No voice:** Select if a UCS client will be used for call setup only with an iPECS phone.
7. Enter a valid User Id and password then click login.

NOTE

If you see the alarm pop-up “Cannot connect to server”, verify the firewall UDP and TCP ports used in UCS server PC are opened.

8. Refer to UCS Client’s manual for details.

5.1.2 iPECS Mobile UCS Client

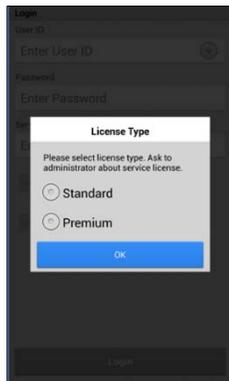
5.1.2.1 iPECS UCS Android Client

The Android UCS Client application can be downloaded free from Google Play Store.

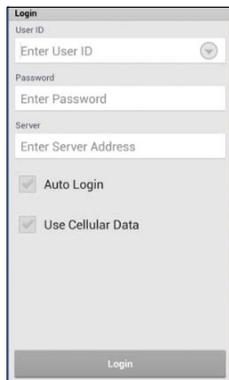
1. Type the search word 'iPECS' in the Google Play Store.



2. Download and install the 'iPECS UCS'.
3. Launch the client then select **Premium** for the License Type.



4. Enter a valid User Id and password then click login.



5. Refer to UCS Client's manual for details.

5.1.2.2 iPECS UCS iPhone Client

The iPhone UCS Client can be downloaded free from Apple App Store.

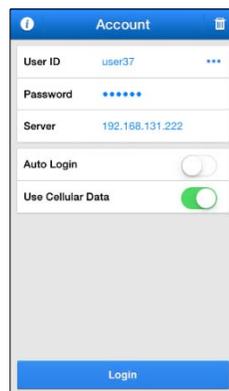
1. Type the search word 'iPECS' in the Apple App Store.



2. Download and install the 'iPECS UCS'.
3. After launching the iPECS UCS Client application, go to [iPhone – Settings – UCSiClient – UCS Mode] and select **Premium**.



4. Enter a valid User Id and password then click login.



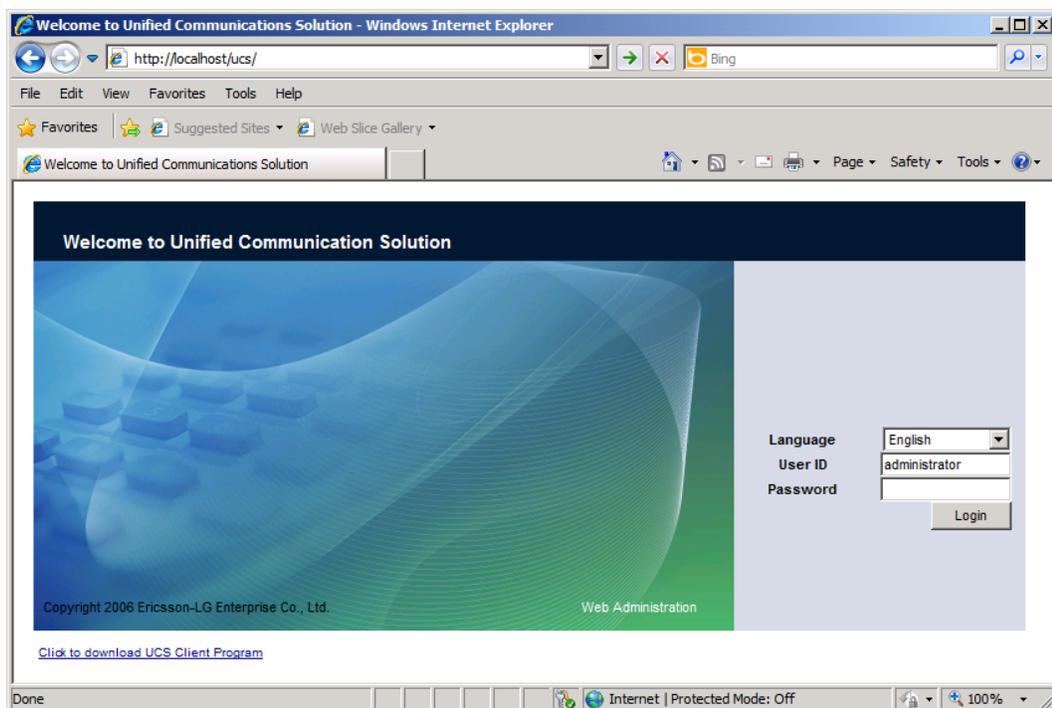
5. Refer to UCS Client's manual for details.

Chapter 6

Administration (Web Admin)

iPECS UCS incorporates a Web server permitting management and administration through the UCS Web Admin. UCS Web Admin can be accessed by the administrator through common web browsers including:

- Internet Explorer
- Chrome Browser
- Mozilla Firefox



NOTE

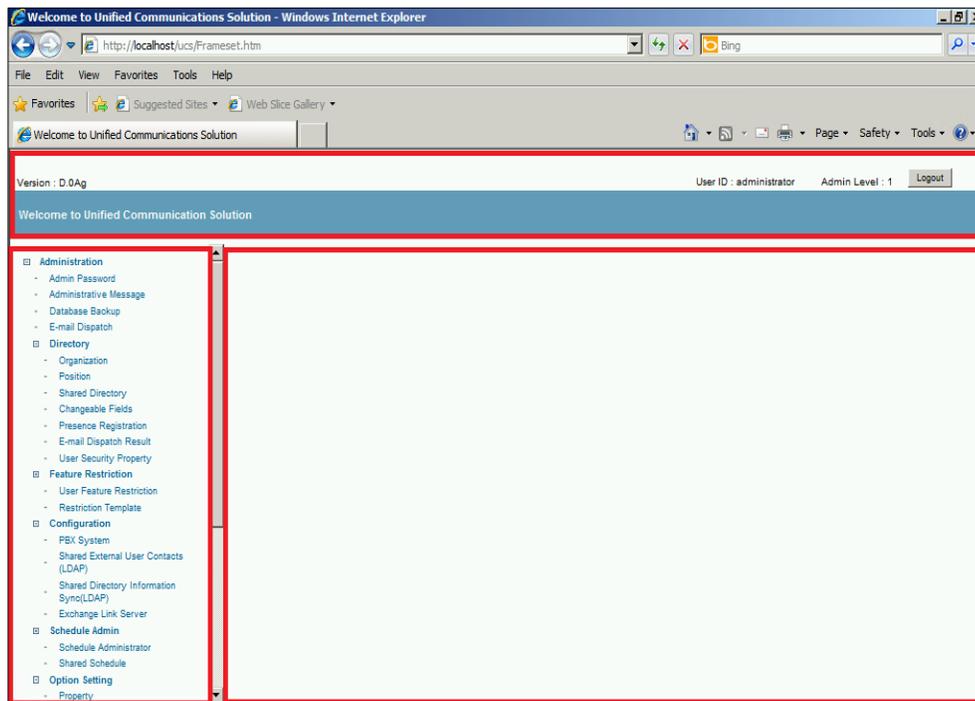
You must set up compatibility view when using Internet Explorer 9 or later. Go to [**Tools(Alt) – Compatibility View settings**] in the menu of Internet Explorer then add the Web Admin IP address.

UCS Web Admin Access

1. Open an internet browser.
2. Point the browser to the **http://UCS Web Server IP address or partition/ucs** then the Login screen, shown above, will appear. For example, if the IP address is 10.10.10.1, then type “**http://10.10.10.1/ucs**”.
3. From the drop-down menu, select the desired Language (**English or Local**).
4. Enter your User ID; the default is “**administrator**”.
5. Enter your Password; the default is “**ucsadmin**”.
6. Click “**Login**” to display the UCS Web Admin window.

UCS Web Admin screen components

The iPECS UCS Web Admin window is comprised of three parts.

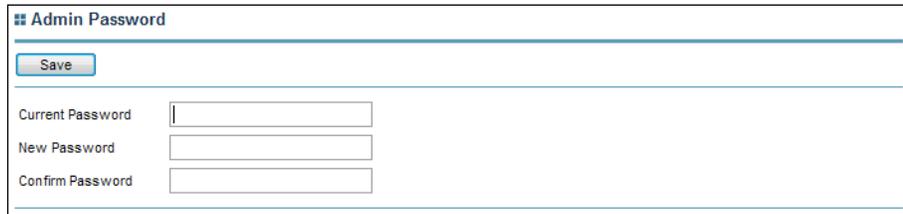


- **Upper tool bar:** identifies the user’s Admin level, and displays the Logout button
- **Left-side Navigation Pane:** display and access to the Web Admin menus. The top-level menu items are Administration, Status and Report. The following sections discuss each in detail.
- **Right-side Admin screen:** displays the selected menu screen for data entry

6.1 General Administration

6.1.1 Admin Password

In the Admin Password screen, the users Admin login password can be modified. The password for a UCS Client can be changed only by the specific UCS Client; other users and the administrator cannot change the password for another user. The administrator can return client passwords and User IDs to default. Refer to 6.6.7 Initialize Client Password for details.

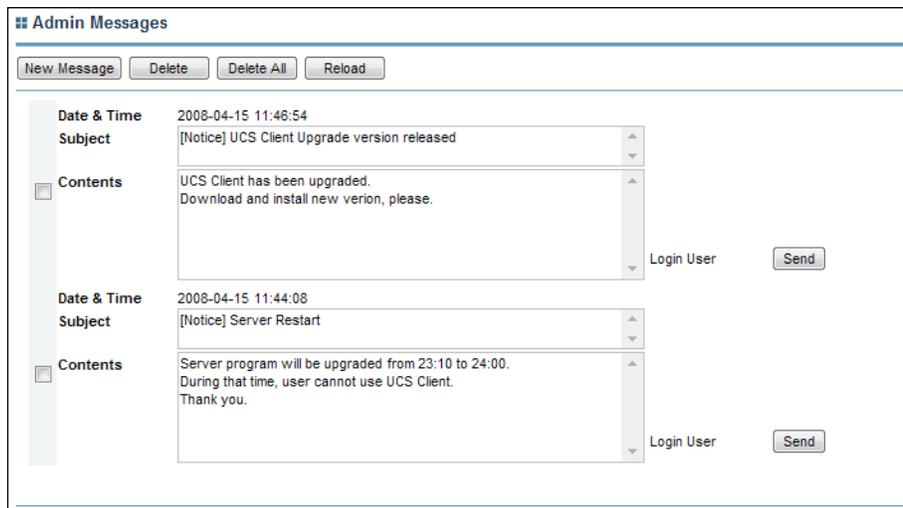


The screenshot shows a web interface titled "Admin Password". At the top left, there is a "Save" button. Below this, there are three text input fields labeled "Current Password", "New Password", and "Confirm Password".

- **[Save]:** saves the new Admin password.

6.1.2 Administrative Message

In the Admin Message screen, the Administrator can send messages in real-time to on-line UCS Clients. The message will also be sent to UCS Clients as they login.

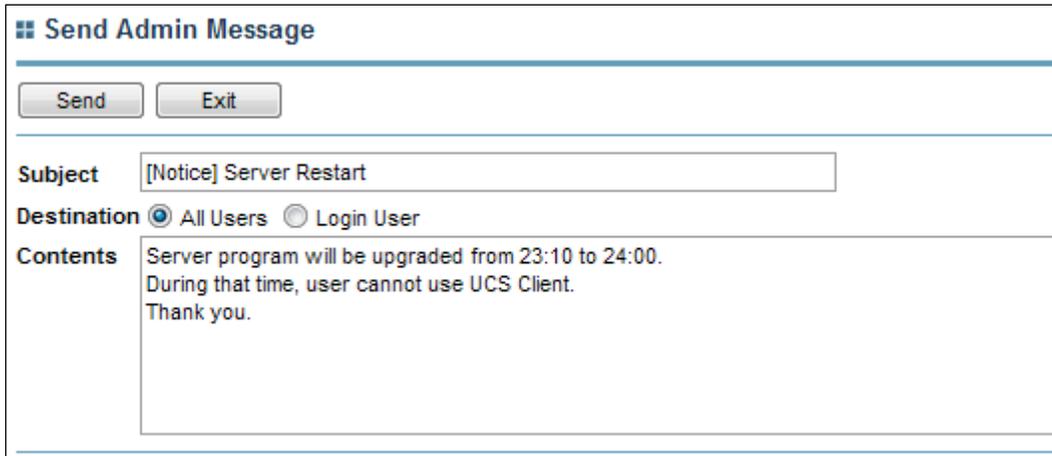


The screenshot shows a web interface titled "Admin Messages". At the top, there are four buttons: "New Message", "Delete", "Delete All", and "Reload". Below these buttons, there are two message entries. Each entry has a "Date & Time" field, a "Subject" field, and a "Contents" field. To the right of each "Contents" field is a "Login User" field and a "Send" button.

- **New Message:** entry for a new admin message.
- **Delete:** deletes the selected Admin messages.
- **Delete All:** deletes all the Admin messages.
- **Reload:** refreshes the current UCS Admin screen.
- **Send:** sends or re-sends the selected message.

To send a message:

1. Click **[New Message]**.
2. Enter the Subject, Destination and Contents.
3. Click **[Send]** to send the message.



Send Admin Message

Send Exit

Subject [Notice] Server Restart

Destination All Users Login User

Contents Server program will be upgraded from 23:10 to 24:00.
During that time, user cannot use UCS Client.
Thank you.

- **Send:** sends the new message.
- **Exit:** closes the 'Send Admin Message' screen.

NOTE

Each message can be up to 255 characters with a subject of 100 characters.

The Admin message screen shown displays on the UCS Client user's PC.



6.1.3 Database

6.1.3.1 Backup Database

In the Database Backup Setting screen, Administrators may change settings of UCS Server database backup function. The backup file can be used to restore the UCS Server database to the version in the backup file.

Database Backup Setting

Reload Save

Weekday

Every Sunday Every Monday Every Tuesday Every Wednesday
 Every Thursday Every Friday Every Saturday Everyday

Time

01:00 02:00 03:00 04:00 05:00 06:00
 07:00 08:00 09:00 10:00 11:00 12:00
 13:00 14:00 15:00 16:00 17:00 18:00
 19:00 20:00 21:00 22:00 23:00 24:00

Data Preservation Period

1 Month 3 Months 6 Months 12 Months

Location

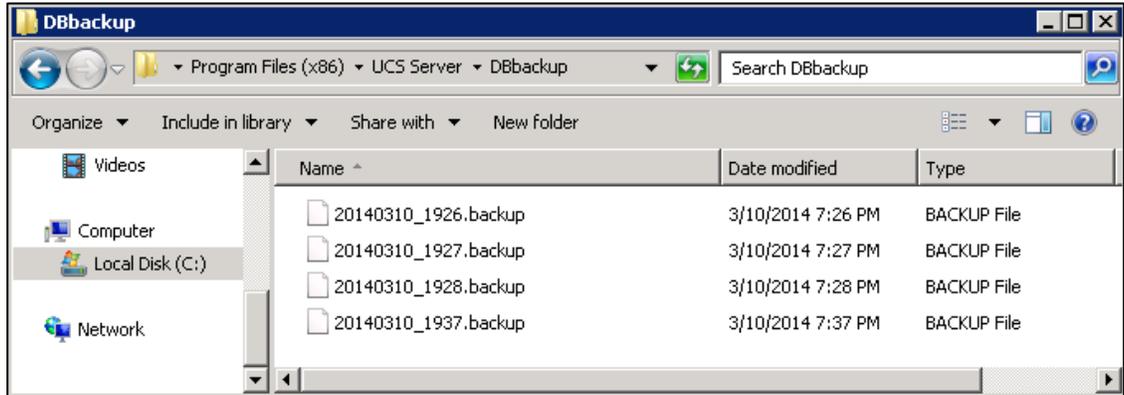
D:\Program Files\UCS Server\DBbackup\

On Demand Database Backup

- Control buttons
 - **Reload:** refreshes the current UCS Admin screen.
 - **Save:** saves the current UCS Admin screen.
- Properties
 - **Weekday:** sets the day of week to run the backup function.
 - **Time:** sets the time of day to run the backup function.
 - **Data Preservation Period:** selects the period to store backup data
 - Expired data will be deleted after the period.
 - **Location:** shows local path for backup data
- On Demand Database Backup: Starts Database Backup within 60 seconds.

6.1.3.2 Restore Database

The database backup file is stored in the UCS Server DBbackup folder as shown below:



To restore the UCS Server database using a backup file,

1. Shutdown UCS ServerManager.
2. Open the Command Prompt then move to the bin directory of postgresQL.

Default: C:\Program Files (x86)\UCS Server\Postgres\bin

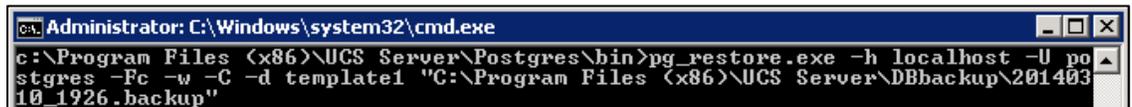
3. Execute the 'drop' command to delete current database.

psql -U postgres -c "drop database ucdatabase"



4. Execute 'restore' command to restore target database.

pg_restore.exe -h localhost -U postgres -Fc -w -C -d template1 "c:\Program Files (x86)\UCS Server\DBbackup***.backup"**



NOTE

To restore the UCS Server database to the initial database, use the backup file 'ucdatabase.backup' from the install package. In this case the 'restore' command is

pg_restore.exe -h localhost -U postgres -Ft -w -C -d template1 "path\ucdatabase.backup"

6.1.4 E-mail Dispatch Screen

The iPECS administrator can prepare and send E-mails to UCS Client users to inform them of newly created accounts or other important information. After preparing the E-mail in the E-mail dispatch screen, saving the screen automatically sends the mail to the users. Results of the E-mail dispatch are available under the Directory menu E-mail Dispatch Results item. Refer to 4.1.5.6.

E-mail Dispatch

Reload Save

*** E-mail Writing**

Title

Content * UCS Client Download site
> http://your.ucs.server.ipaddress/ucs
> Please go and click "download UCS Client" link which provides you with
- UCS Client for PC
- UCS Client for Android
- UCS Client for iPhone
* Security Enhancement
> We strongly recommend you to change your default Password for preventing arbitrary use.

Sincerely yours
UCS Administrator"/>

Notice) Please modify the above Title and Content for your own purpose. In the Content field, change http://your.ucs.server.ipaddress to your site UCS Server IP Address. However don't modify either %userName% or %userID% unintentionally. The two keywords of %userName% and %userID% are reserved and they will be replaced with UCS user name and ID respectively. The unappropriate information will be sent via E-Mail in case of errors.

*** E-mail Server setting**

SMTP Server Address

SMTP Sever Port

E-mail User ID

E-mail User Password(ReadOnly) New Password(WriteOnly)

E-mail Address to be returned

Connection Type After Encryption None Auto SSL TLS

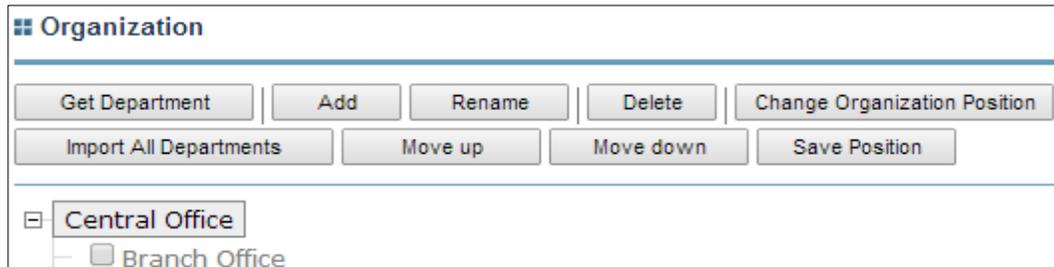
Use SPA

- **Reload:** refreshes the current E-mail Dispatch screen.
- **Save:** saves the current E-mail Dispatch screen.

6.2 UCS Accounts and Directory

6.2.1 Organization

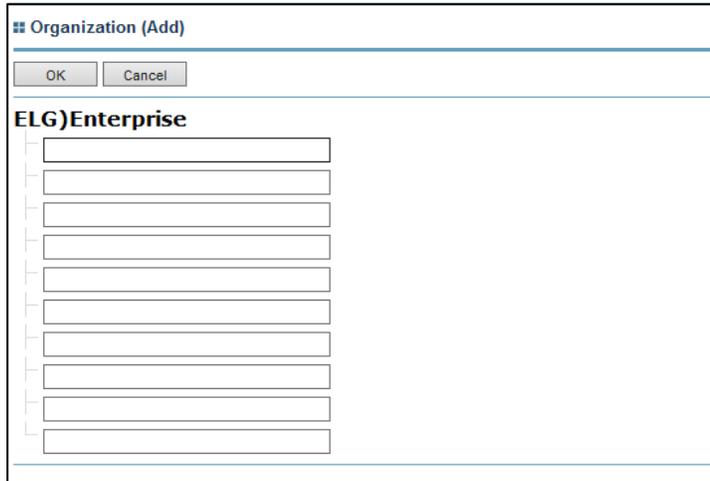
In the Organization screen, administrators construct an organization chart for the company that is displayed to UCS Clients under the client 'Organization' tab. Administrators can create a new department, delete or rename departments. In addition, specific departments can be moved under another department. To import department names of shared users, click the **Get Department** button.



- **Get Department:** import department information of shared users
- **Add:** adds new departments
- **Rename:** renames a department
- **Delete:** deletes departments
- **Change Organization Position:** modify the position of selected departments
- **Import All Departments:** import department information from an Excel or csv file
- **Move Up:** move up one partition in a group
- **Move Down:** move down one partition in a group
- **Save Position:** save organization position after moving up or down

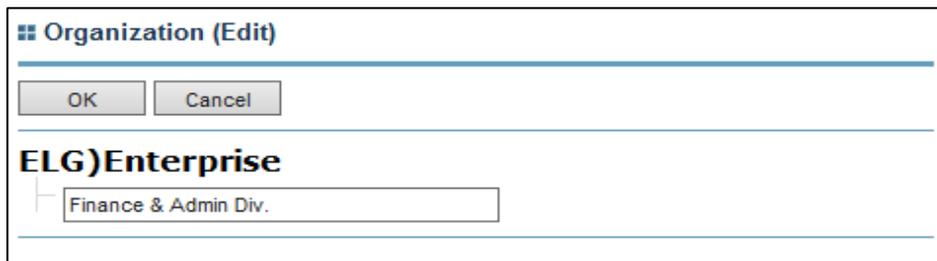
To add departments

1. Select the parent department where new departments will be added.
2. Click the **[Add]** button.
3. Enter the name of the new departments
4. Click **[OK]** button.



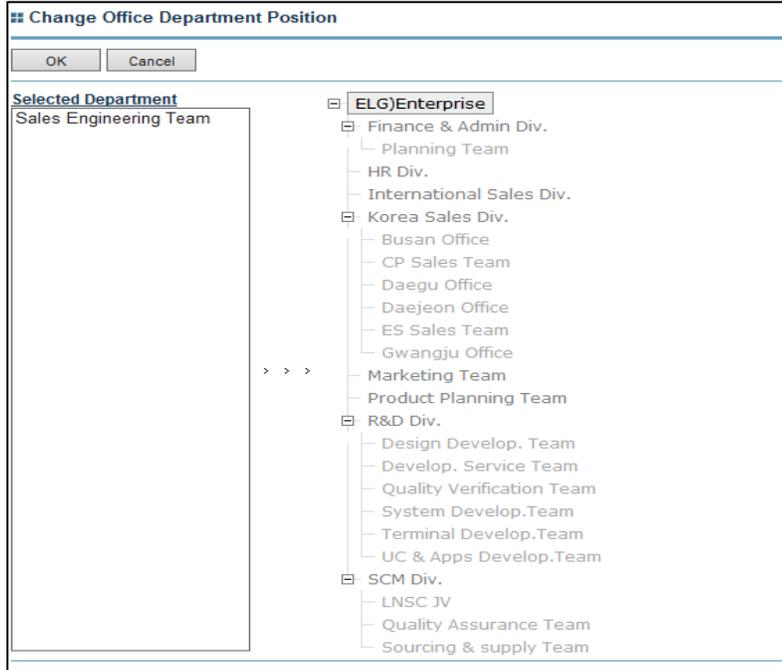
To rename departments

1. Select the department that will be renamed.
2. Click the **[Rename]** button.
3. Enter the new name of the department
4. Click **[OK]** button.



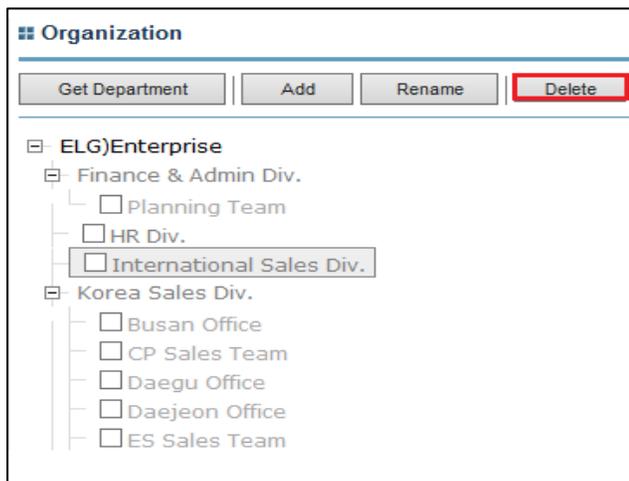
To change the position of department

1. Select departments to move.
2. Click the **[Change Organization Position]** button.
3. Select the parent department
4. Click **[OK]** button.



To delete a department

1. Select or Check the department(s) to delete.
2. Click the **[Delete]** button.



Import all departments from a '.csv' formatted file

1. Click the [Import All Departments] button.
2. Select the .csv formatted file that includes user information.
3. Click the [Import] button

You can import department information from CSV file into Organization database. First, you will need to format your CSV file. You can download already formatted example file in this web page. Or you can create your own CSV file. After modifying your CSV file in your local PC, you will need to upload modified file into Web Server. Then you can import by clicking Import button. Download file shows how to display hierachical organization information. 'A' is top-level department 'B' is high-level department 'C'is low-level department. Imported department information are sorted under root department according to hierachicy.

1. Download Example

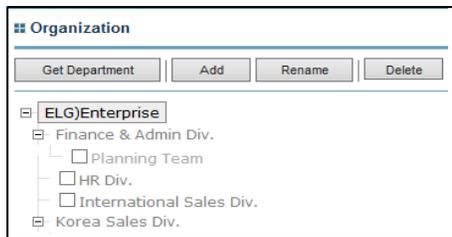
2. Choose File to be imported

3. Upload File and Import

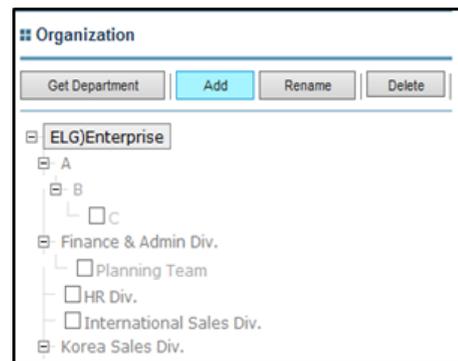
The Example File below shows how to use '.csv' formatted files to import all departments. The file shows how hierarchical organization information is displayed. As shown, 'A' is the top-level department; 'B' is the next level department under 'A', and 'C' is the next level down under 'B'.

Example '.csv' file.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	class1	class2	class3	class4	class5	class6	class7	class8	class9	class10	<-- DO NOT REMOVE THIS LINE				
2	A										<-- Example) <-- DO NOT REMOVE THIS LINE				
3	A	B									<-- Example) <-- DO NOT REMOVE THIS LINE				
4	A	B	C								<-- Example) <-- DO NOT REMOVE THIS LINE				



Organization chart prior to import



Organization chart after importing

NOTE

Each department must have a different name. If the file contains departments with names already in the organization chart, the import will fail.

Export all departments to '.csv' formatted file:

Organization

ELG)Enterprise

- Finance & Admin Div.
 - Planning Team
 - HR Div.
 - International Sales Div.
 - Korea Sales Div.

A	B	C	D	E	F	G	H	I	J	K	L	M
class1	class2	class3	class4	class5	class6	class7	class8	class9	class10	<-- DO NOT REMOVE THIS LINE		
A										<-- DO NOT REMOVE THIS LINE		
A	B									<-- DO NOT REMOVE THIS LINE		
A	B	C								<-- DO NOT REMOVE THIS LINE		
ELG)Enterprise												
ELG)Enter	Finance & Admin Div.											
ELG)Enter	Finance & Planning Team											
ELG)Enter	HR Div.											
ELG)Enter	International Sales Div.											
ELG)Enter	Korea Sales Div.											

After exporting all departments, all department information is saved in (.csv) file

Use Shared Directory Information Sync (LDAP)

Administrators can import departments using Shared Directory Information Sync from an LDAP database automatically. In this case, administrator cannot change organization information in UCS WebAdmin. Refer to **6.4.3.1LDAP Sync** for details.

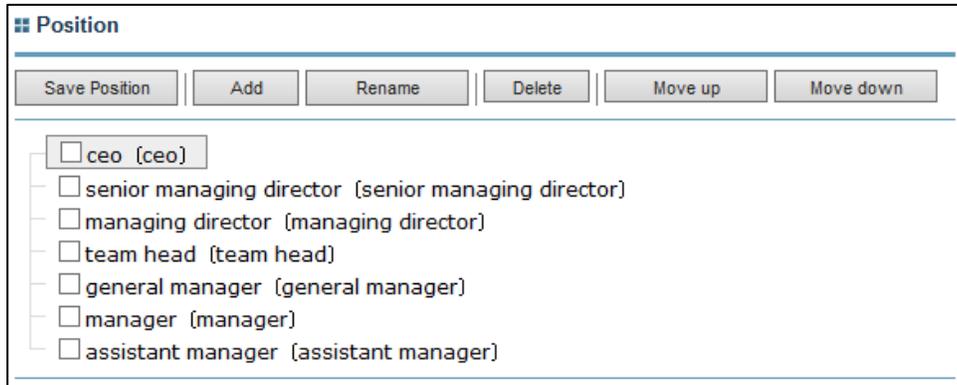
Organization

ELG)Enterprise

- Finance & Admin Div.
 - Planning Team
 - HR Div.
 - International Sales Div.

6.2.2 Position

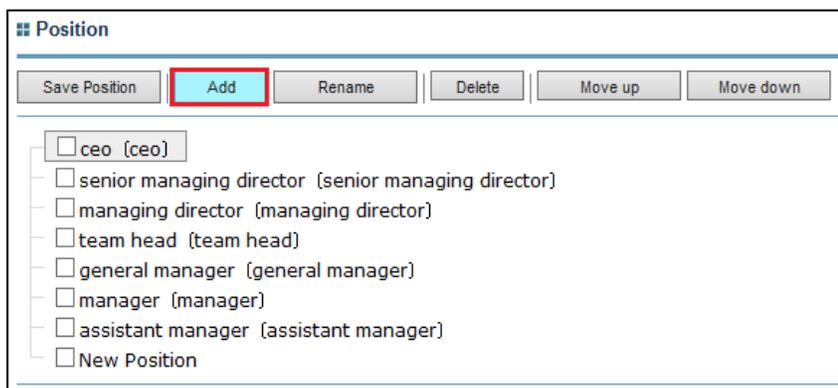
The Position menu establishes the titles and hierarchy of the position within the organization. The iPECS administrator creates the positions and controls the reporting order for the position.



- **Save Position:** Saves sorted position order
- **Add:** Adds position
- **Rename:** Renames selected position
- **Delete:** Deletes selected position
- **Move up:** Moves selected position up
- **Move down:** Moves selected position down

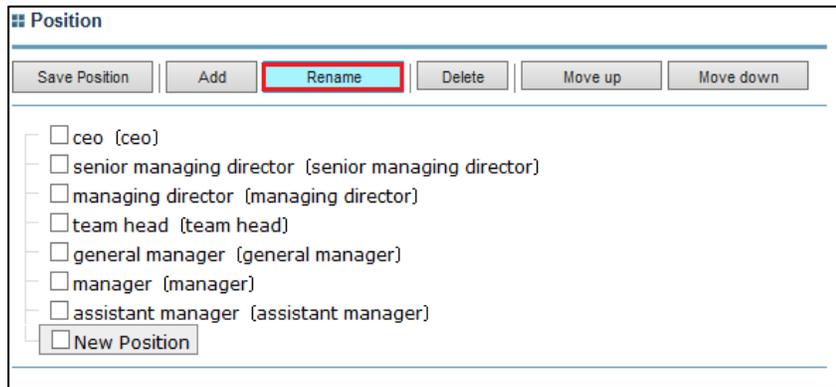
To add a position

1. Click the **[Add]** button.
2. The 'New Position' is created as shown below.

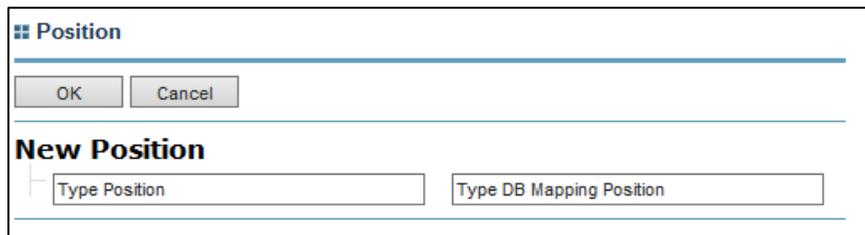


To rename a position

1. Select position to be renamed.
2. Click **[Rename]** button.



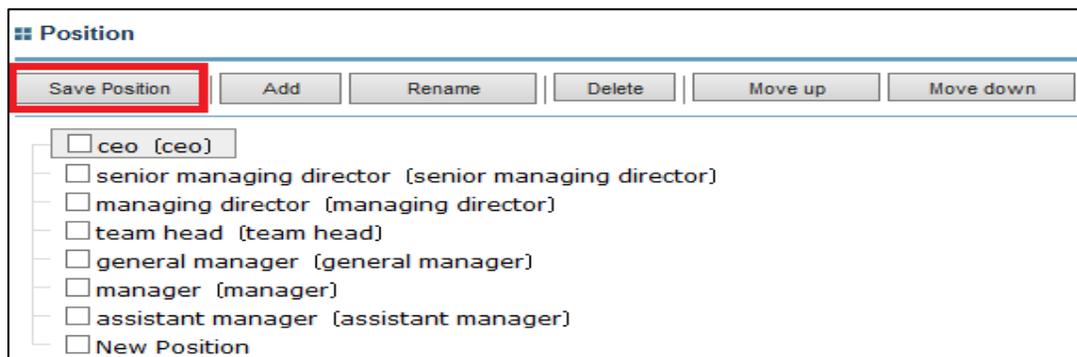
3. Enter position title in textbox to the left in the Position popup. The textbox to the right is employed when the Shared Directory is synchronized with a LDAP database as the database-mapping key, Refer to **6.4.3.1LDAP Sync** for details.



4. Click **[OK]**.

To save Position

Click the **[Save Position]** button to save the Positions and hierarchy.



- Save position considering position priority. The first of saved position has the first and next one has second priority. This saved position order is applied to display users in the UCS Client.
- If administrator wants to give a priority, add new position and **['Save position']**.
- If administrator wants to give a priority again , change position clicking move up and down and click **['Save position']**

6.2.3 Shared Directory

The Shared Directory may be imported or exported in a '.csv' formatted file. For correct registration when importing the UCS Client information, the client must be registered in the iPECS PBX platform.

The UCS Client registration process for each iPECS Voice platform and registration of external contacts varies. The registration process, including Import and Export of the Shared Directory, is covered in the following sections:

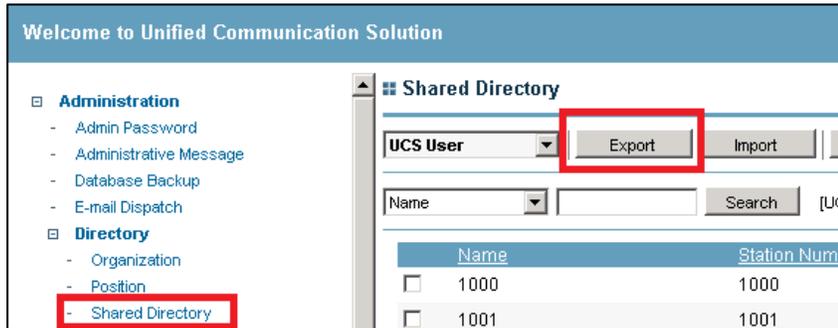
	Name	Station Number	Office Department	Position
<input type="checkbox"/>	Abigail	2116	Department Name	
<input type="checkbox"/>	Amelia	2124	Department Name	
<input type="checkbox"/>	Andrew	2110	UCP	

- **Three types of Shared Directory**
 - **UCS User:** User who has station number and ucs account.
 - **Phone User:** User who has station number but doesn't have ucs account
 - **External Contacts:** User who doesn't have station number or ucs account
- **Exporting:** refers to 6.2.3.1 - Exporting the Shared Directory
- **Importing:** refers to 6.2.3.2 - Importing the Shared Directory
- **Add:** used to add External Contact
- **Edit:** changes user information for UCS User, Phone User and External Contacts
- **Change Department:** changes department for UCS User and Phone User
- **Edit Restriction:** changes user feature restriction
- **Search:** searches for name, station number, office department, position, user ID, VN code, site name
- **Clear All:** clear search text
- **Confirmation from PBX:** UCS User and Phone User information is created in the iPECS PBX system. If the administrator has deleted user information in iPECS PBX, user information in Shared Directory is deleted automatically. But if the administrator needs to delete it in UCS Webadmin, administrator can delete it by unchecking the check-box "confirmation from PBX" on Shared Directory screen (above)..

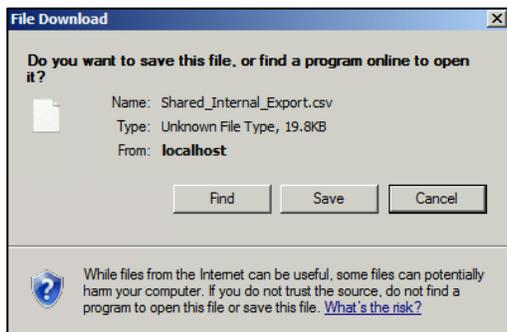
6.2.3.1 Exporting the Shared Directory

UCS User, Phone User and External Contact information in the Shared Directory can be exported as an Excel file.

1. Go to [Administration – Directory – Shared Directory] in UCS Web Admin, then click [Export].



2. Click [Save].



NOTE

Depending on the Windows environment, the extension in the exported file name may be '.xls' not '.csv'. In this case, the file extension must be changed from '.xls' to '.csv' (comma separated) manually for correct importing to the Shared Directory.

6.2.3.2 Importing the Shared Directory (for editing user information)

User can edit user information in shared directory importing file.

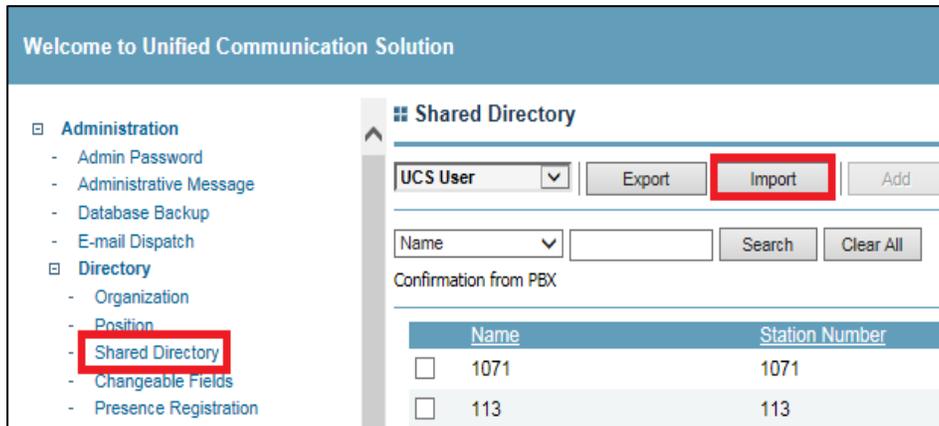
1. User can edit user information after exporting the shared directory.

However some items are non-editable (UserKey, N/W code, UserID, linkedpair, temporary station).

NOTE

In order to change editable fields, the non-editable fields (above) must still be entered correctly or editing will fail to update.

2. Go [**Administration - Directory - Shared Directory**] in UCS Webadmin, then click [**Import**].



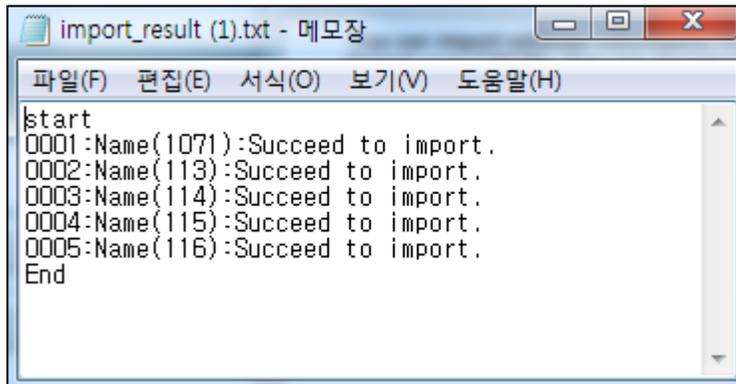
Click [**import**] after choosing File to be imported. Confirm import type is selected as [**Edit User information**]. (UCS User and Phone User set to [**Edit User information**] as default).

For External Contacts, [**Edit User information**] should be set.

You can import address information from CSV file into SHARED ADDRESS database. First, you will need to format your CSV file. You can download already formatted example file in this web page. Or you can create your own CSV file. After modifying your CSV file in your local PC, you will need to upload modified file into Web Server. Then you can import by clicking Import button. You can edit user information after exporting file. And UserKey should be inputted(Uneditable items: UserKey,N/W Code,UserID,LinkedPair,TemporaryStation). You don't input userkey adding External Contacts.

1. Download Example
2. When an invalid Department Name is given,
3. Choose File to be imported
4. Import Type
5. Upload File and Import Confirmation from PBX

3. Confirm import result.

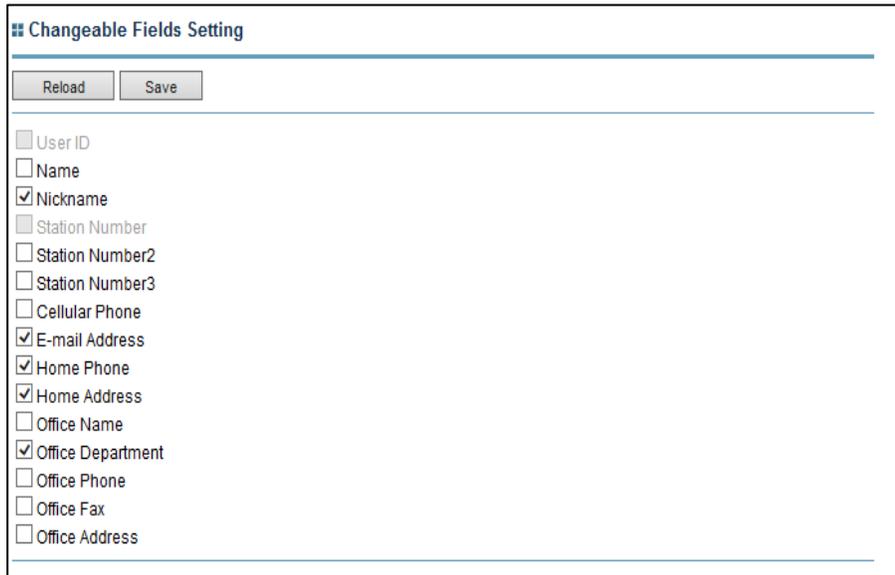


A screenshot of a Notepad window titled "import_result (1).txt - 메모장". The window contains the following text:

```
start  
0001:Name(1071):Succeed to import.  
0002:Name(113):Succeed to import.  
0003:Name(114):Succeed to import.  
0004:Name(115):Succeed to import.  
0005:Name(116):Succeed to import.  
End
```

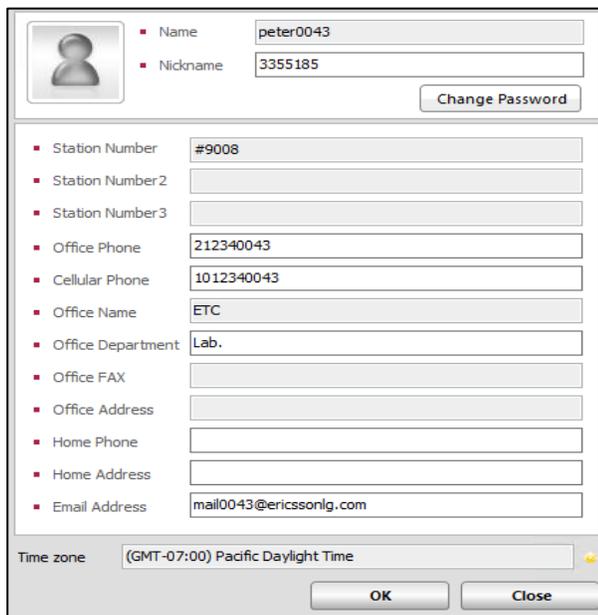
6.2.4 Changeable Fields

In the Changeable Fields Setting screen, the Administrator defines the fields that individual users are permitted to change in their “My Information” window. Checked items in the Changeable Fields screen are available to the UCS Client user in the “My Information” window. Other fields are shown but cannot be changed by the user.



The screenshot shows the "Changeable Fields Setting" window. It has a title bar with a double arrow icon and the text "Changeable Fields Setting". Below the title bar are two buttons: "Reload" and "Save". The main area contains a list of fields, each with a checkbox and a label:

- User ID
- Name
- Nickname
- Station Number
- Station Number2
- Station Number3
- Cellular Phone
- E-mail Address
- Home Phone
- Home Address
- Office Name
- Office Department
- Office Phone
- Office Fax
- Office Address



The screenshot shows the "My Information" window for a user. It features a profile picture icon on the left. The fields are as follows:

- Name: peter0043
- Nickname: 3355185
- Change Password button
- Station Number: #9008
- Station Number2: (empty)
- Station Number3: (empty)
- Office Phone: 212340043
- Cellular Phone: 1012340043
- Office Name: ETC
- Office Department: Lab.
- Office FAX: (empty)
- Office Address: (empty)
- Home Phone: (empty)
- Home Address: (empty)
- Email Address: mail0043@ericssonlg.com
- Time zone: (GMT-07:00) Pacific Daylight Time
- OK button
- Close button

NOTE

The User ID and Station Number are unique values for each UCS Client, and cannot be modified by the user.

6.2.5 Presence Registration

The iPECS administrator can configure a user account to be visible in the Shared Directory so that the user's Presence is available to other UCS Client users. The administrator can select individual users to make visible with the **Execution** button or all users with the **Register All Users** button.

Name	User ID	Presence Max Count	Presence Current Count	Presence Permission
Abigail	ucp2116	200	55	Execution
Amelia	ucp2124	200	31	Execution
Andrew	ucp2110	200	32	Execution

- **Search:** searches the Shared Directory for a user
- **Reload:** refreshes the window
- **Register All Department Members:** register Presence information for all members in department.

NOTE

The UCS Client displays Presence for a maximum of 200 other internal and UCS Client users. This maximum may be adjusted down by the administrator in the User Feature Restriction screen. If there are more than 200 users, only the first 200 users created are shown to the client as a default, but the user may select which should display.

To register selected user's presence and assign group from 'Execution' button

1. Select Group

2. Select User

- Department Name
 - Abigail [2116]
 - Amelia [2124]
- UCCM
- UCP

After selecting the '**Execution**' button, a new pop-up appears. Selected user is displayed under the users department. The administrator can register users' presence and assign group. Firstly, from "**1. Select Group**" the associated drop-down box will list the available groups for the user. Select the required group. Alternatively the administrator can add a group by clicking the **[Add Group]** button.

Secondly from "**2. Select User**", the administrator can search and select users to register their presence.

Finally, select '**[Add]**' button. This will also check that the user(s) are correctly assigned.

6.2.6 E-mail Dispatch Result

When the administrator dispatches an E-mail to UCS Client (refer to 4.1.4 E-mail Dispatch Screen), UCS Server monitors the results to determine if the mail was opened. The administrator can delete individual records, all records, or resend the E-mail to selected users. The latter is accomplished with the “Execution” button, which sets Dispatching Trial Number and Status to 0 (zero) and Ready, respectively.

E-mail Dispatch Result							
Name	User ID	E-mail Address	Kind Of Email	Dispatching Trial Number	Status	Resend	
<input type="checkbox"/>	Abigail	ucp2116	ucp2106@ucp.com	New Account Announcement	0	Ready	Execution
<input type="checkbox"/>	Amelia	ucp2124	ucp2124@ucp.com	New Account Announcement	0	Ready	Execution
<input type="checkbox"/>	Andrew	ucp2110	ucp2110@ucp.com	New Account Announcement	0	Ready	Execution
<input type="checkbox"/>	Anthony	ucp2107	ucp2107@ucp.com	New Account Announcement	0	Ready	Execution
<input type="checkbox"/>	April	f3504	f3504@uccm.com	New Account Announcement	0	Ready	Execution
<input type="checkbox"/>	August	f3508	f3508@uccm.com	New Account Announcement	0	Ready	Execution
<input type="checkbox"/>	Ava	ucp2106	ucp2106@ucp.com	New Account Announcement	0	Ready	Execution
<input type="checkbox"/>	Benjamin	ucp2114	ucp2104@ucp.com	New Account Announcement	0	Ready	Execution
<input type="checkbox"/>	Brad	f3519	f3519@uccm.com	New Account Announcement	0	Ready	Execution
<input type="checkbox"/>	Charlotte	ucp2120	ucp2120@ucp.com	New Account Announcement	0	Ready	Execution

Select all items at this page

● 10 ● 20 ● 50 ● 100 ● 500 Items per one page

1 2 3 4 5 6 >

- **Search:** searches the E-mail Dispatch Result based on User ID or Name
- **Reload:** refreshes this window
- **Delete:** deletes selected records
- **Delete All:** deletes all E-mail Dispatch records
- **Execution:** resends E-mail to the selected user.

6.2.7 User Security Property

The administrator can lock or disable a UCS Client to restrict their use or force a user to change their password. The administrator clicks the **Edit** button to modify the security property.

User Security Property

Reload All Users Search User Search

Name	User ID	Locked	Disabled	Change Password	
1071	1071	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit
113	113	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit
114	114	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit
115	115	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit
116	116	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit
117	117	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit
118	118	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit
119	119	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit
1430	cm1430	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit
2058(0)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit

10 20 50 100 500 Items per one page

- **Search:** searches UCS Client Users based on User ID and Name
- **Reload:** refreshes this window
- **Edit:** edits a user's restrictions
- **User security property item:** displays user security policy
 - **Account locked:** locks out user account for a nominated period.
 - **Account Disabled:** permanently disables user account.
 - **Must change Password:** forces user to change password before further access.

After Clicking 'Edit' button, the screen below is displayed. Check the relevant check-box and enter information to update the user security property.

User Security Property Edit

Reload Save Cancel

User ID: Name:

Account Locked
 Locked out until (ReadOnly) (YYYY-MM-DD hh:mm:ss)
 New Locked out until (YYYY-MM-DD hh:mm:ss)

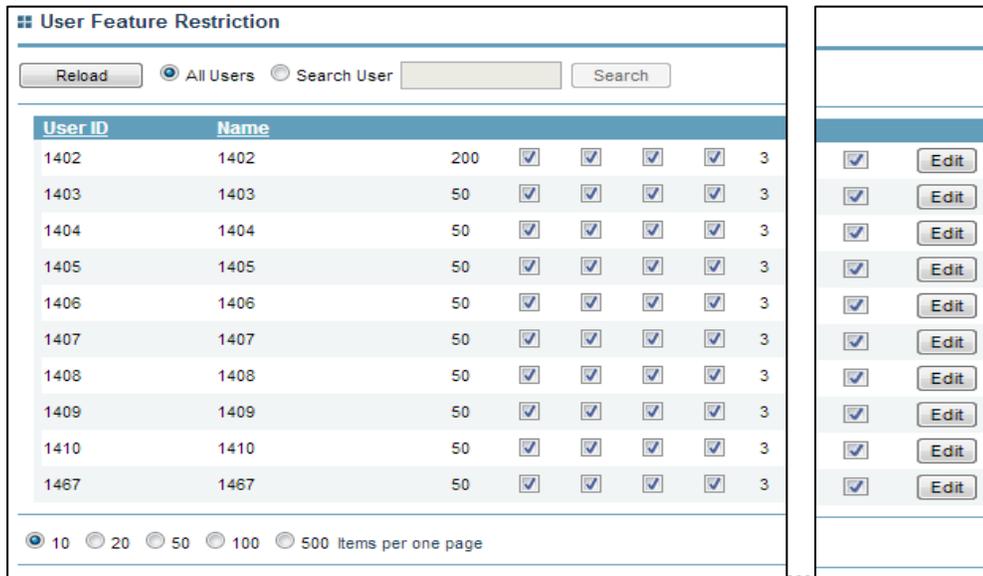
Account Disabled

Must Change Password

6.3 Feature Restriction of UCS User

6.3.1 User Feature Restriction

The Administrator can limit functions available to each UCS Client. The User Restriction page displays the feature restriction status for all UCS Clients. A checked box indicates the function is available. An explanatory bubble is exposed by focusing the mouse over an item in the table.



The screenshot shows the 'User Feature Restriction' page. At the top, there is a 'Reload' button, radio buttons for 'All Users' (selected) and 'Search User', a search input field, and a 'Search' button. Below this is a table with columns for 'User ID', 'Name', and several feature restriction checkboxes. The table lists users 1402 through 1467. At the bottom of the table, there are radio buttons for '10', '20', '50', '100', and '500' items per page, with '10' selected.

User ID	Name						
1402	1402	200	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
1403	1403	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
1404	1404	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
1405	1405	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
1406	1406	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
1407	1407	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
1408	1408	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
1409	1409	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
1410	1410	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3
1467	1467	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3

- **Reload:** refreshes the current UCS Admin screen.
- **Search User:** returns search results when the Administrator enters a user's name or ID.
- **Edit:** moves to an editable Feature Restriction screen where the Administrator can modify UCS Client restrictions.

The Feature Restriction page as shown below permits the administrator to modify individual restrictions for each UCS Client. Note that disabled functions can be eliminated from display of the client if the **Invisible or disable** box is checked. Otherwise, menus items are displayed at the client but are not functional.

User Feature Permission Edit

Reload
Save

User ID:
Name:
 All Users
 Select All Checkbox

<input checked="" type="checkbox"/> Presence Video Status <input checked="" type="checkbox"/> Presence Schedule Status <input checked="" type="checkbox"/> Presence Remote Monitorin Status <input checked="" type="checkbox"/> Allow ICR <input checked="" type="checkbox"/> Allow Remote Call Forward <input checked="" type="checkbox"/> Allow Group Call <input checked="" type="checkbox"/> Allow Meet Me Conference Call <input checked="" type="checkbox"/> Allow Scheduled Dial <input checked="" type="checkbox"/> Allow Record Call <input checked="" type="checkbox"/> Allow Flexible Button <input checked="" type="checkbox"/> Allow Voice Mail Selection <input checked="" type="checkbox"/> Allow Step Call <input checked="" type="checkbox"/> Allow Playback Wave File <input checked="" type="checkbox"/> Allow Send SMS <input checked="" type="checkbox"/> Allow Call Memo <input checked="" type="checkbox"/> Allow Call Pickup <input type="checkbox"/> Allow Application Sharing	<input checked="" type="checkbox"/> Allow Desktop Sharing <input checked="" type="checkbox"/> Allow Whiteboard <input checked="" type="checkbox"/> Allow Web Push <input checked="" type="checkbox"/> Allow File Send <input checked="" type="checkbox"/> Allow Normal Video <input checked="" type="checkbox"/> Allow Video Format QCIF <input checked="" type="checkbox"/> Allow Video Format CIF <input checked="" type="checkbox"/> Allow Video Format 4CIF <input checked="" type="checkbox"/> Allow Presentation Mode <input checked="" type="checkbox"/> Allow Remote Monitoring <input checked="" type="checkbox"/> Allow Visual Voice Mail <input checked="" type="checkbox"/> Allow Audio Conference <input checked="" type="checkbox"/> Allow Organization <input type="checkbox"/> Allow Mobile Dialer Call to UCS For Android <input type="checkbox"/> Allow Password Synchronization <input checked="" type="checkbox"/> Allow CRM Integration <input checked="" type="checkbox"/> Allow ACD Login <input type="checkbox"/> Allow UCS Dialing Rule
---	---

Presence Entries 1 ~ 200
 ICR Scenarios 1 ~ 10

File Send Size 1 ~ 1000 MB
 Schedule Item 1 ~ 1000

Invisible or disable menu/button on UCS Client (Checked:Invisible, Unchecked:Disable)

- Control buttons
 - **Reload:** refreshes the current UCS Admin screen
 - **Save:** saves the current UCS Admin screen
 - **Enable Template:** shows one of five restriction templates that can be applied to the UCS Client

NOTE

Modifications to restrictions take affect after the next client login. Modified restrictions are not applied to an active UCS Client.

6.3.2 Restriction Template

The UCS Server database includes five Restriction templates. The templates are available to and can be modified by the administrator.

Permission Template

Template Select All Checkbox

Subject

<input checked="" type="checkbox"/> Presence Video Status <input checked="" type="checkbox"/> Presence Schedule Status <input checked="" type="checkbox"/> Presence Remote Monitorin Status <input checked="" type="checkbox"/> Allow ICR <input checked="" type="checkbox"/> Allow Remote Call Forward <input checked="" type="checkbox"/> Allow Group Call <input checked="" type="checkbox"/> Allow Meet Me Conference Call <input checked="" type="checkbox"/> Allow Scheduled Dial <input checked="" type="checkbox"/> Allow Record Call <input checked="" type="checkbox"/> Allow Flexible Button <input checked="" type="checkbox"/> Allow Voice Mail Selection <input checked="" type="checkbox"/> Allow Step Call <input checked="" type="checkbox"/> Allow Playback Wave File <input checked="" type="checkbox"/> Allow Send SMS <input checked="" type="checkbox"/> Allow Call Memo <input checked="" type="checkbox"/> Allow Call Pickup <input type="checkbox"/> Allow Application Sharing	<input checked="" type="checkbox"/> Allow Desktop Sharing <input checked="" type="checkbox"/> Allow Whiteboard <input checked="" type="checkbox"/> Allow Web Push <input checked="" type="checkbox"/> Allow File Send <input checked="" type="checkbox"/> Allow Normal Video <input checked="" type="checkbox"/> Allow Video Format QCIF <input checked="" type="checkbox"/> Allow Video Format CIF <input checked="" type="checkbox"/> Allow Video Format 4CIF <input checked="" type="checkbox"/> Allow Presentation Mode <input checked="" type="checkbox"/> Allow Remote Monitoring <input checked="" type="checkbox"/> Allow Visual Voice Mail <input checked="" type="checkbox"/> Allow Audio Conference <input checked="" type="checkbox"/> Allow Organization <input type="checkbox"/> Allow Mobile Dialer Call to UCS For Android <input type="checkbox"/> Allow Password Synchronization <input checked="" type="checkbox"/> Allow CRM Integration <input checked="" type="checkbox"/> Allow ACD Login <input type="checkbox"/> Allow UCS Dialing Rule
---	---

Presence Entries <input type="text" value="200"/> 1 ~ 200	File Send Size <input type="text" value="200"/> 1 ~ 1000 MB
ICR Scenarios <input type="text" value="10"/> 1 ~ 10	Schedule Item <input type="text" value="1000"/> 1 ~ 1000

Invisible or disable menu/button on UCS Client (Checked:Invisible, Unchecked:Disable)

- **Reload:** refreshes the current UCS Admin screen.
- **Save:** saves the current UCS Admin screen.

6.4 Connection Configuration of External Systems

6.4.1 PBX Systems

The PBX System Admin screen defines the iPECS systems that are linked to and serviced by the iPECS UCS Server. When multiple iPECS systems are configured in a distributed network, each system is assigned a Voice Networking (VN) Code digit(s) that is dialed as a prefix to the extension number, identifying the specific networked system. In this case, the VN Code must be entered in the PBX System Admin screen so that the UCS Server can include the digit when calling a networked system extension.

PBX System					
Add Delete Edit					
	System	Site Name	IP Address	VN Code	VN Code in Prefix
<input type="checkbox"/>	iPECS-CM	Team Test CM for UCS P5	150.150.131.11	11	<input type="radio"/> Yes <input checked="" type="radio"/> No
<input type="checkbox"/>	iPECS-UCP	UCP600 150.150.131.6	150.150.131.6	6	<input type="radio"/> Yes <input checked="" type="radio"/> No

- **Add:** adds a new system link to the UCS application.
- **Delete:** deletes a system link to the UCS application.
- **Edit:** edits an existing iPECS system link definition.
- **Reload:** refreshes the current UCS Admin screen.

Selecting **Add** or **Edit** exposes the PBX System edit screen as below:

PBX System	
Add Delete Edit	
System	iPECS-CM
Site Name	Head Office
IP Address	10.10.10.1 <input checked="" type="checkbox"/>
Firewall IP Addrss	<input type="checkbox"/>
VN Code	123
VN Code in Prefix	<input type="radio"/> Yes <input checked="" type="radio"/> No
Company Name	iPECS
Company Logo	C:\Users\hyosung\Downloa... <input type="button" value="찾아보기..."/>
Uploaded image will be used logging in UCS Client. (optimized image size :400 X 400 pixel, file extension : .png, .jpg, .gif, file size: lower than 100 KByte)	
Add Clear Cancel	

- **System:** Select the type of System, required field
- **Site Name:** Enter Site Name
- **IP Address:** Enter System Address
- **Firewall IP Address:** Enter IP Address, the firewall address is required if the UCS Server and iPECS PBX are separated by a firewall
- **VN Code:** Enter System Network Code
- **Company Name:** Enter Company Name
- **Company Logo:** Upload Company Logo image. It is used as UCS Client Logo image.

NOTE

The checkboxes next to the system IP address and the Firewall address indicate which will be used for communication between the UCS Server and iPECS PBX platform.

Site Name, IP Address and VN Code must be entered.



WARNING

When Editing and deleting PBX information, the modification is applied only after stopping Presence Service and restarting.

6.4.2 Shared External User Search(LDAP)

In the LDAP Server screen the Administrator sets LDAP server information. UCS Clients may then query the LDAP server for contact information. UCS Server does not place limits on the number of contact records in the LDAP server.

The left screenshot shows the 'Shared External User Contacts(LDAP)' screen. It has buttons for 'New Server', 'Edit', and 'Delete'. Below these is an 'Information' section with the following details: 'Server Display Name : iPECS', 'Server Name(IP)/Port : 10.10.10.1 3268', 'Search Base :', 'Require Login' (checked), and 'SSL(Secure Socket Layer)' (unchecked).

The right screenshot shows the 'Shared External User Contacts(LDAP) (Add)' screen. It has 'OK' and 'Exit' buttons. Below these are input fields for 'Server Display Name', 'Server Name(IP)', and 'Server Port'. At the bottom are checkboxes for 'Require Login' and 'SSL(Secure Socket Layer)'.

In the left screen, after selecting 'New Server' button (to register new LDAP Server) or 'Edit' button (to edit existing LDAP server), the right screen is displayed

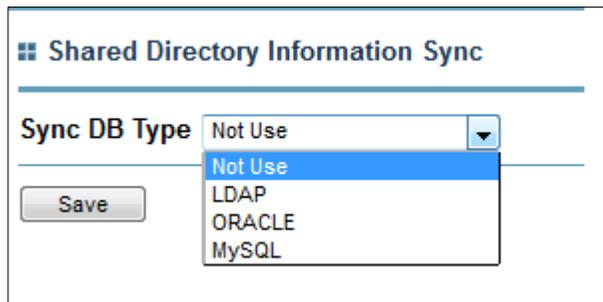
- **Server Display Name:** LDAP Server Name displayed in UCS Client.
- **Server Name (IP):** LDAP Server IP Address to access in UCS Client.
- **Server Port:** LDAP Server Port to access in UCS Client.
- **Required Login:** Determines if User Id and Password is required to access to LDAP Server
- **SSL (Secure Socket Layer):** Determines if User Id and Password is required to enable SSL to access LDAP Server.

The screen below shows LDAP Server configuration process in UCS Client.

The screenshot shows the LDAP configuration screen in the UCS Client. The 'Advanced' tab is selected. The 'Server Name' dropdown is set to 'LDAP Server'. The 'Server Name' field contains '61.41.106.223'. The 'Search Base' field is empty. The 'Login is necessary' checkbox is checked. The 'User ID' field contains 'j-nortel@113015'. The 'Password' field is masked with asterisks. The 'Use SSL' checkbox is unchecked. The 'Port' field contains '3268'.

6.4.3 Shared Directory Information Sync

The UCS server can update the Shared Directory periodically, downloading registered user information from an LDAP (version 3) or Oracle database. LDAP (Lightweight Database Access Protocol) is a standard protocol used for retrieving information from database such as Microsoft Active Directory. The administrator must configure general information on the database server as well as define the correlation between the database fields and the UCS contact fields. If users want to link with MySQL database, link application files need to be installed. 'MySQL_Link.zip' in the server installation package must be copied to "Application" folder of UCS Server Installation folder.



The screenshot shows a configuration window titled "Shared Directory Information Sync". Inside the window, there is a label "Sync DB Type" followed by a dropdown menu. The dropdown menu is currently open, displaying four options: "Not Use", "LDAP", "ORACLE", and "MySQL". To the left of the dropdown menu is a "Save" button.

- **Sync DB Type:** Set type of database server employed for database sync service.

6.4.3.1 LDAP Sync

- **Server Info:** Set the LDAP server information.

Server info	<input type="checkbox"/> Use Ldap Link Server
Ldap Server	10.10.10.1
Ldap Port	389
Ldap Security	<input type="checkbox"/> SSL(Secure Socket Layer)
User ID	administrator
User Password
LDAP Auth Type	Auth Negotiate ▼

- **Use LDAP Link Server:** Check LDAP service activation
- **LDAP Server:** IP address of LDAP Server
- **LDAP Port:** TCP/IP port for communication with the LDAP Server
- **LDAP Security:** SSL implementation for LDAP Server
- **User ID:** Login ID for LDAP Server
- **User Password:** Login Password for LDAP Server
- **LDAP Auth Type:** Authentication method for LDAP Server

- **Update Period :** start time for data retrieval from LDAP

Update Period	
Update Time	1 ▼
Update Day	Not Use ▼

- **Update Time:** Time of day to retrieve user data from the LDAP server,0~23

- **LDAP Searching Options:** important setting to update UCS User DB using Data from LDAP Service.

LDAP Searching Options	
Unique DB mapping Key	Unique ID ▼
Undefined Organization Name	Undefined
Root Organization	iPECS

- **Unique DB mapping Key:** defines the field that maps the specific user in both the UCS Shared Directory and LDAP server database. The value must exist and be unique for each user in both UCS and LDAP database. This is a required entry.
- **Undefined Organization Name:** The Organization name is a required field in the UCS Shared Directory. If the name is not defined in the LDAP database, the Undefined Organization Name is used for the record. This is a required entry.
- **Root Organization:** This value defines the user's primary top-level organization when the client is assigned several organization strings in the LDAP server. If user is assigned to several organizations, this value should be set.
- **Relationship between UCS DB and LDAP string:** These settings map the field names in the LDAP database to the UCS Shared Directory field names. The default field names are those commonly employed in a MS Active Directory.

Relationship between UCS DB and LDAP string			
Organization Info	<input type="text" value="memberOf"/>	<input type="checkbox"/>	Use CN
User Picture	<input type="text" value="thumbnailPhoto"/>	<input type="checkbox"/>	Forced Update
User Picture Mapping Key	<input type="text"/>	<input type="text"/>	
Name	<input type="text" value="givenName"/>		
Nick Name	<input type="text" value="displayName"/>		
Desktop Phone1 (Unregistered User)	<input type="text" value="telephoneNumber"/>	<input type="text" value="Not Use"/>	<input type="text" value="0"/>
Station Number2	<input type="text" value="otherTelephone"/>		
Station Number3	<input type="text"/>		
Cellular Phone	<input type="text" value="mobile"/>		
Email Address1	<input type="text" value="mail"/>		
Home Telephone	<input type="text" value="homePhone"/>		
Office Name	<input type="text" value="physicalDeliveryOfficeName"/>		
Office Telephone	<input type="text"/>		
Office Fax	<input type="text" value="facsimileTelephoneNumber"/>		
Office Address	<input type="text"/>		
Email Address2	<input type="text"/>		
Homepage URL	<input type="text" value="wwwHomePage"/>		
Unique ID	<input type="text" value="tree"/>		
Position	<input type="text" value="title"/>	<input type="checkbox"/>	Search Without Space
Official Title	<input type="text"/>		

- **Organization Info:** LDAP field with the user's organization (department) information. To include the "CN" string for the organization, select the check box.
- **User Picture:** LDAP field with the user's photo. The photo format is JPEG.
The photo data will be updated only for empty photo user. To force to update all users' photo, select "Force Update" check box.
- **Name:** LDAP field containing the user's name -
- **Nick Name:** LDAP field containing the user's nickname
- **Desktop Phone1:** LDAP field containing the unregistered user desktop phone
- **Station Number 2:** LDAP field containing the user's second station number
- **Station Number 3:** LDAP field containing the user's third station number
- **Cellular Phone:** LDAP field with the user's cellular phone number
- **Email Address 1:** LDAP field with the user's first email address.
- **Home Telephone:** LDAP field with the user's home telephone number
- **Office Name:** LDAP field with the user's office name
- **Office Telephone:** LDAP field with the user's office telephone number
- **Office Fax:** LDAP field with the user's office FAX number
- **Office Address:** LDAP field with the user's office address
- **Email Address 2:** LDAP field with the user's second E-mail address
- **Homepage URL:** LDAP field with the user's homepage URL
- **Unique ID:** LDAP field with the user's unique ID. This field should be used as the mapping key field.
- **Position:** LDAP field with the user's position information. The user's position values retrieved from LDAP server should be included in the DB mapping Position Name, which can be assigned in the Position menu. Refer to **6.2.2. Position**.
- **Official Title:** LDAP field with user's official title.

6.4.3.2 Oracle Sync

- **Server Info:** Set the Oracle DB server information

Server info	<input type="checkbox"/> Use Oracle Server
Oracle Server	10.10.10.1
Oracle Port	1521
Oracle Character Set	windows default
User ID	system
User Password	

- **Use Oracle Link Server:** Check Oracle DB Sync service activation
- **Oracle Server:** IP address of Oracle DB Server
- **Oracle DB Port:** TCP/IP port for communication with the Oracle DB Server
- **User ID:** Login ID for Oracle DB Server
- **User Password:** Login Password for Oracle DB Server

- **Update Period:** start time for data retrieval from Oracle DB Server

Update Period	
Update Time	0
Update Day	Sun

- **Update Time:** Time of day to retrieve user data from the Oracle server, 0~23

- **Oracle Searching Options:** important setting to update UCS User DB using Data from Oracle DB Server.

Oracle Searching Options	
DB Name	orcl
Organization Table Name	UCS_ORGANIZATION
User Info Table Name	VIEW_USERINFO
User Search Table Name	
Unique DB mapping Key	Unique ID
Undefined Organization Name	Undefined

- **DB Name:** This is the Service ID in Oracle DB and is a required entry.
- **Organization Table Name:** Oracle DB table name with the organization structure. The Organization Table must be configured as follows:

- Organization table → User defined table name

- "dp_key" NUMBER NOT NULL ENABLE
 - Unique ID
 - The Name string is fixed to "dp_key"
- "dp_name" VARCHAR2(64 BYTE) NOT NULL ENABLE
 - Department Name.
 - The Name string is fixed to "dp_name"
- "parent_key" NUMBER NOT NULL ENABLE
 - Unique ID for parent node
 - The Name string is fixed to "parent_key"
- "dp_order" NUMBER NOT NULL ENABLE,
 - Display sequence from top to bottom in view. Top node order is smaller than bottom.
 - The Name string is fixed to "dp_order"

** Root node's "parent_key" must be -1. the "dp_key" start from 1.

<u>dp_key</u>	<u>dp_name</u>	<u>parent_key</u>	<u>dp_order</u>
1	root	-1	1 ^o
2	dep1	1	2 ^o
3	dep2	1	3 ^o
4	dep3	1	4 ^o
5	dep1_1	2	5 ^o
6	dep1_2	2	6 ^o
7	dep1_1_1	5	7 ^o

- **User Info Table Name:** Oracle DB table name for contact data. This is a required entry.
- **User Search Table Name:** Oracle DB table name for user search.
- **Unique DB mapping Key:** defines the field that maps the specific user in both UCS Shared Directory and Oracle server's database. The value must exist and be unique for each user in both UCS and Oracle database. This is a required entry.
- **Undefined Organization Name:** The Organization name is a required field in the UCS Shared Directory. If the name is not defined in the Oracle database, the Undefined Organization Name is used for the record. This is a required entry.

- **Relationship between UCS DB and Oracle string:** These settings map the field names in the Oracle database to the UCS Shared Directory field names.

Relationship between UCS DB and Oracle string

User Picture	<input type="text" value="PHOTO"/>	<input type="checkbox"/> Forced Update
User Picture Mapping Key	<input type="text" value="Name"/> ▼	<input type="text"/>
Name	<input type="text" value="FIRST_NAME"/>	
Nick name	<input type="text" value="NICK_NAME"/>	
Desktop Phone1 (Unregistered User)	<input type="text" value="STATION_NUM"/>	<input type="text" value="Not Use"/> ▼ <input type="text" value="0"/> ▼
Station Number2	<input type="text" value="STATION_NUM2"/>	
Station Number3	<input type="text" value="STATION_NUM3"/>	
Cellular Phone	<input type="text" value="MOBILE_PHONE"/>	
Email Address1	<input type="text" value="EMAIL_ADDR1"/>	
Home Telephone	<input type="text" value="HOME_TELEPHONE"/>	
Office Name	<input type="text" value="OFFICE_NAME"/>	
office telephone	<input type="text" value="OFFICE_TELEPHONE"/>	
Office Fax	<input type="text" value="OFFICE_FAX"/>	
Office Address	<input type="text" value="OFFICE_ADDRESS"/>	
Email Address2	<input type="text" value="EMAIL_ADDR2"/>	
Homepage URL	<input type="text" value="HOMEPAGE_URL"/>	
Unique ID	<input type="text" value="UNIQUE_ID"/>	
Position	<input type="text" value="POSITION"/>	<input type="checkbox"/> Search Without Space
Home Address	<input type="text" value="HOME_ADDR"/>	
Department Name	<input type="text" value="ORGANIZATION"/>	
Official Title	<input type="text"/>	
User information Sorting Order	<input type="text"/>	<input type="text" value="Ascending Order"/> ▼

- **User Picture:** Oracle DB field with the user's photo. The photo format is JPEG and BMP. The Type of value is BLOB. The photo data will be updated only for empty photo user. To force to update all users' photo, select "Force Update" check box.
- **User Picture Mapping key:**
- **Name:** Oracle DB field with the user's name. The Type of value is VARCHAR2(64 BYTE).
- **Nick Name:** Oracle DB field with the user's nickname. The Type of value is VARCHAR2(64 BYTE).

- **Desktop Phone1:** Oracle DB field with the unregistered user. The Type of value is VARCHAR2(64Byte)
- **Station Number 2:** Oracle DB field with the user's second station number. The Type of value is VARCHAR2(64 BYTE).
- **Station Number 3:** Oracle DB field with the user's third station number. The Type of value is VARCHAR2(64 BYTE).
- **Cellular Phone:** Oracle DB field with the user's cellular phone number. The Type of value is VARCHAR2(64 BYTE).
- **Email Address 1:** Oracle DB field with the user's first E-mail address. The Type of value is VARCHAR2(64 BYTE).
- **Home Telephone:** Oracle DB field with the user's home telephone number. The Type of value is VARCHAR2(64 BYTE).
- **Office Name:** Oracle DB field with the user's office name. The Type of value is VARCHAR2(64 BYTE).
- **Office Telephone:** Oracle DB field name with the user's office telephone number. The Type of value is VARCHAR2(64 BYTE).
- **Office Fax:** Oracle DB field with the user's office fax number. The Type of value is VARCHAR2(64 BYTE).
- **Office Address:** Oracle DB field with the user's office address. The Type of value is VARCHAR2(256 BYTE).
- **Email Address 2:** Oracle DB field with the user's second E-mail address. The Type of value is VARCHAR2(64 BYTE).
- **Homepage URL:** Oracle DB field with the user's homepage URL. The Type of value is VARCHAR2(64 BYTE).
- **Unique ID:** Oracle DB field with the user's unique ID. The Type of value is VARCHAR2(100 BYTE).
- **Position:** Oracle DB field with the user's position information. The user's position values retrieved from the Oracle server should be included in the DB mapping Position Name which can be assigned in Position menu. Refer to [4.1.5.2Position](#).
- **Home Address:** Oracle DB field with the user's home address. The Type of value is VARCHAR2(256 BYTE).
- **Department Name:** Oracle DB field with the user's department value. This value must be one of the "dp_key" values in organization DB table. If this value is not a "dp_key" value, the Undefined Organization Name is used. The Type of value is NUMBER.
- **Official Title:** Oracle DB field with user's official title.

6.4.3.3 MySQL Sync

- **Server Info:** Set the MySQL DB server information

Server info	<input type="checkbox"/> Use MySQL Server
ODBC Driver Name	MySQL ODBC 3.51 Driver
MySQL Server	10.10.10.1
MySQL Port	3306
MySQL Character Set	UTF-8 Unicode
User ID	omuc
User Password	****

- **Use MySQL Link Server:** Check MySQL DB Sync service activation
 - **MySQL Server:** IP address of MySQL DB Server
 - **MySQL DB Port:** TCP/IP port for communication with the MySQL DB Server
 - **MySQL Protocol:** If MySQL server version is v3.xx.xxx or there is problem on authentication, check this option.
 - **MySQL character set:** Select character set in MySQL DB configuration. If a wrong character set is selected failure will occur.
 - **User ID:** Login ID for MySQL DB Server
 - **User Password:** Login Password for MySQL DB Server
- **Update Period:** start time for data retrieval from MySQL DB Server

Update Period	
Update Time	0
Update Day	Sun

- **Update Time:** Time of day to retrieve user data from the MySQL server, 0~23
- **MySQL Searching Options:** important setting to update UCS User DB using Data from MySQL DB Server.

MySQL Searching Options	
DB Name	omuc
Organization Table Name	ucs_org
User Info Table Name	ucs_user_info
User Search Table Name	ucs_user_search
Unique DB mapping Key	Unique ID
Undefined Organization Name	Undefined

- **DB Name:** This is the Service ID in MySQLDB and is a required entry.

- **Organization Table Name:** MySQL DB table name with the organization structure.
- **User Info Table Name:** MySQL DB table name for contact data. This is a required entry.
- **User Search Table Name:** MySQL DB table name for user search.
- **Unique DB mapping Key:** defines the field that maps the specific user in both UCS Shared Directory and MySQL server's database. The value must exist and be unique for each user in both UCS and MySQL data base. This is a required entry.
- **Undefined Organization Name:** The Organization name is a required field in the UCS Shared Directory. If the name is not defined in the MySQL database, the Undefined Organization Name is used for the record. This is a required entry.

- **Relationship between UCS DB and MySQL string:** These settings map the field names in the MySQL database to the UCS Shared Directory field names.

Relationship between UCS DB and MySQL string

User Picture Forced Update

User Picture Mapping Key

Name

Nick name

Desktop Phone1 (Unregistered User)

Station Number2

Station Number3

Cellular Phone

Email Address1

Home Telephone

Office Name

office telephone

Office Fax

Office Address

Email Address2

Homepage URL

Unique ID

Position Search Without Space

Home Address

Department Name

Official Title

User information

Sorting Order

- **User Picture:** MySQL DB field with the user's photo. The photo format is JPEG and BMP. The Type of value is BLOB. The photo data will be updated only for empty photo user. To force to update all users' photo, select "Force Update" check box.
- **User Picture Mapping key:**
- **Name:** MySQL DB field with the user's name. The Type of value is VARCHAR2(64 BYTE).
- **Nick Name :**MySQL DB field with the user's nickname. The Type of value is VARCHAR2(64 BYTE).

- **Desktop Phone1:** MySQL DB field with the unregistered user desktop phone. The Type of value is VARCHAR2 (64BYTE).
- **Station Number 2:** MySQL DB field with the user's second station number. The Type of value is VARCHAR2(64 BYTE).
- **Station Number 3:** MySQL DB field with the user's third station number. The Type of value is VARCHAR2(64 BYTE).
- **Cellular Phone:** MySQL DB field with the user's cellular phone number. The Type of value is VARCHAR2(64 BYTE).
- **Email Address 1:** MySQL DB field with the user's first E-mail address. The Type of value is VARCHAR2(64 BYTE).
- **Home Telephone:** MySQL DB field with the user's home telephone number. The Type of value is VARCHAR2(64 BYTE).
- **Office Name:** MySQL DB field with the user's office name. The Type of value is VARCHAR2(64 BYTE).
- **Office Telephone:** MySQL DB field with the user's office telephone number. The Type of value is VARCHAR2(64 BYTE).
- **Office Fax:** MySQL DB field with the user's office fax number. The Type of value is VARCHAR2(64 BYTE).
- **Office Address:** MySQL DB field with the user's office address. The Type of value is VARCHAR2(256 BYTE).
- **Email Address 2:** MySQL DB field with the user's second E-mail address. The Type of value is VARCHAR2(64 BYTE).
- **Homepage URL:** MySQL DB field with the user's homepage URL. The Type of value is VARCHAR2(64 BYTE).
- **Unique ID:** MySQL DB field with the user's unique ID. The Type of value is VARCHAR2(100 BYTE).
- **Position:** MySQL DB field with the user's position information. The user's position values retrieved from the MySQL server should be included in the DB mapping Position Name which can be assigned in Position menu. Refer to [4.1.5.2Position](#).
- **Home Address:** MySQL DB field with the user's home address. The Type of value is VARCHAR2(256 BYTE).
- **Department Name:** MySQL DB field with the user's department value. This value must be one of the "dp_key" values in organization DB table. If this value is not a "dp_key" value, the Undefined Organization Name is used. The Type of value is NUMBER.
- **Official Title:** MySQL DB field with user's official title.

6.4.4 Exchange Link Server

Schedules created in Outlook and available through a Microsoft Exchange Server may be shared with UCS Clients. These schedules will be indicated on the UCS Clients Presence window at the appropriate time. UCS Server can link to schedules available in Exchange Server 2007 SP 1 and later. Note that only the basic Outlook mailbox is available, only 1 year of recurrence is supported, and lunar calendars are not supported.

To configure the link to Exchange Server the following screen is presented.

Exchange Link Server

Save Reload

Exchange Server Address Use Exchange Link Server

Check Interval for Updated Schedule 1~ 60 minutes

Delete Old Schedule 2~365 days(From Today)

Exchange Server Status

Test ID for status

Test Password for status

- **Save:** saves modified values
- **Reload:** update Exchange Server Status
- **Exchange Link Server Address:** Input Exchange Server https address

Example) <https://server.exchange.com/EWS/Exchange.aspx>

If DNS (Domain Name Service) is not available for the Exchange Server then enter IP address in place of the domain name.

Example) <https://10.10.10.1/EWS/Exchange.aspx>

NOTE

Exchange Link Server supports Microsoft Office 365. The Exchange Server address of Office 365 is <https://outlook.office365.com/EWS/Exchange.aspx>

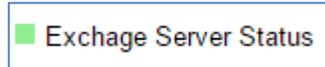
-
- **Check Interval for Updated Schedule:** Periodically, UCS Server will check the linked Exchange Server for new and updated schedules. The Check Interval defines the period in minutes for the check. The minimum check interval is 1-minute, and the maximum interval is 60-minutes.

NOTE

Based on UCS Server performance and network environment, schedule updates may require additional time before they are available to the UCS Clients

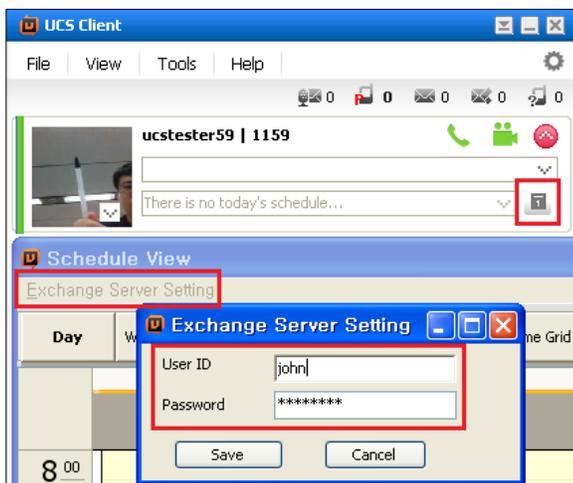
-
- **Delete Old Schedule:** Old schedules, before the setting value saved in UCS database, are deleted once a day. After deletion, the old schedules are not shown in UCS clients. However, old schedules are only deleted from UCS database, not from Microsoft Exchange Server.

- **Exchange Server Status:** UCS Administrator is able to test for connection to Exchange Server.
 - Test ID for status
 - Test Password for status



- green: connection success
- red: connection fail

To access schedules from the Exchange Server, the UCS Client user must input their Active Directory or Outlook User Id and password. However, if UCS Client is set to use SSO (Single Sign On) with AD password synchronization, then the input of Id and password is not required and not shown, since the Id and password to access Exchange Server is the same as UCS Id and password. Refer to **6.4.5.2. AD Password Synchronization** for details.



6.4.5 SSO (Single Sign On)

The UCS server provides SSO for UCS user linked with Microsoft AD (Active Directory) provided Id's are the same. There are two methods for SSO. The first method functions provided that the UCS Client has the right to login without password and the Windows PC is part of the AD domain. The second method functions by having the UCS server synchronize the UCS user password with AD user password. Both methods are independent and are able to be used at the same time.



CAUTION

When an administrator generates UCS account, the UCS User id must be the same as AD User id. If not the SSO function will fail.

6.4.5.1 SSO on AD Joined Windows PC

The UCS Windows client can login using Windows domain login information.

Single Sign-On

Save

Use Password Synchronization for Windows(PC) Client

Login Domain Name: ERICSSON

- **Use Password Synchronization for Windows (PC) Client:** Allowing UCS login using domain login. To enable this feature, "Use Password Sync....(PC) Client" check box should be checked and 'Login Domain Name' must be entered.
- **Login Domain Name:** Domain name which is used for client's windows login. If this domain name is different than the users, client login to the UCS will fail.

The display below is shown when UCS Client is executed. If user checks the item of 'Single Sign-On', then AD domain name and id is shown. If the '**Login Domain Name**' is the same as the AD domain name, then UCS Client is able to login without password.

Domain Name \ User ID

ERICSSON \ ehyolim

Remember User ID

Remember Password

Auto Login

Tray Start

Single Sing-On

Login

©Ericsson-LG Enterprise Co.,Ltd

Note

This function is only provided by UCS Windows PC client. UCS mobile clients have to enter id and password as usual.

6.4.5.2 SSO with AD Password Synchronization

UCS server provides password synchronization of UCS user with AD user.



CAUTION

To use SSO password synchronization, the SSO Agent must be installed at AD server. Refer to 6.5.5.2.1 Installation of SSO Agent for details.

<input checked="" type="checkbox"/> Use Password Synchronization		
Service Port	<input type="text" value="6470"/>	
Client Authentication ID	<input type="text" value="f2faa685-91e9-41b3-816f-d614a764835f"/>	<input type="button" value="Recreate"/>
Server Authentication ID	56180c93-710a-4868-bf51-407467675526	
Connection Information	Connected from addr: 150.150.131.242:29975	Time: 09-12-2015 23:15:35

- **Use Password Synchronization:** Enable SSO Service

CAUTION



To enable SSO Service, both 'Use Password Synchronization' in this menu and 'Allow Password Synchronization' in user feature restriction must be checked. If this feature is enabled, user's password changed will be restricted. To enable SSO for user feature restriction, refer to the 6.3.1 Feature Restriction.

After enabling SSO service, AD users' password must be updated once before UCS login.

- **SSO Service Port:** Service TCP/IP port for SSO. If UCS is behind firewall, this port should be forwarded.
- **Client Authentication ID:** ID to authenticate client. If this value is empty, server will not check client's ID and allow it. The "Recreate" button will regenerate new ID string.
- **Server Authentication ID:** Represents server identity. This value is used by SSO Agent.
- **Connection Information:** Show connection status.

6.4.5.2.1 Installation of SSO Agent

To enable SSO feature, this agent should be installed at AD server PC.

1. Copy SSO Agent files

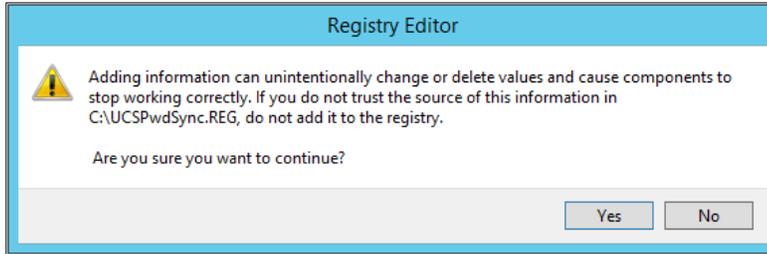
Copy the "UCS_PasswdSync64.dll" file to the windows systems directory [C:\Windows\System32] in AD server PC. User can get this file from the UCS install directory [ExternlApp\SSOAgentFiles].

NOTE

If the OS of AD PC is 32bit Windows, the "UCS_PasswdSync32.dll" is required.

2. Install Registry file

Copy the "UCSPwdSync.REG" file to the AD server PC and double click it to install. This is also located in the UCS install directory [ExternlApp\SSOAgentFiles].

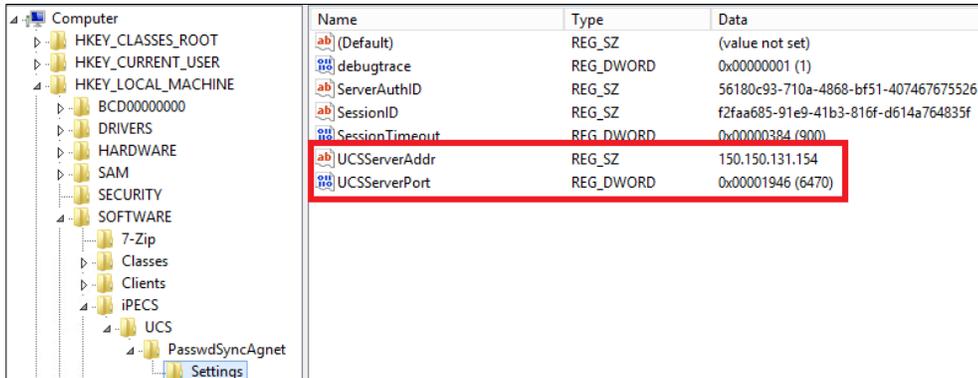


Select [Yes]

3. Open Registry

Type the "regedit" in command prompt window. Move to the "HKEY_LOCAL_MACHINE > SOFTWARE > iPECS > UCS > PasswdSyncAgent > Settings".

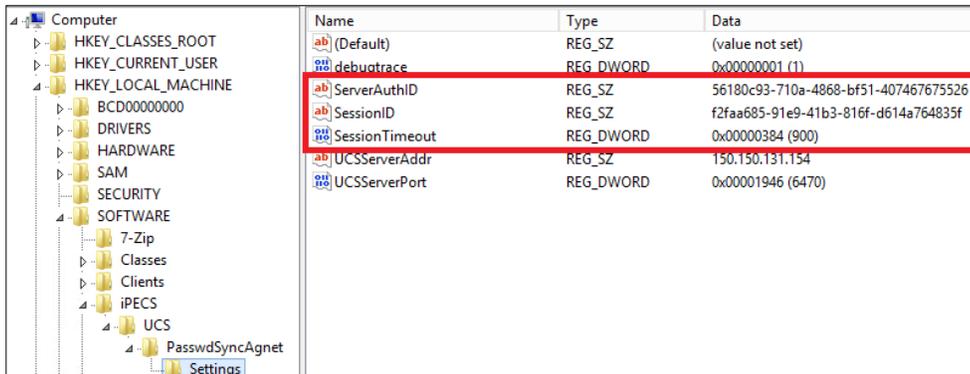
4. Set UCS server IP Address and port number.



- **UCSServerAddr**: IP Address of UCS Server PC

- **UCSServerPort**: SSO service port (default: 6470). This value must be the same as 'SSO Service Port' in the SSO configuration in the UCS WebAdmin.

5. Set authentication information for connection.

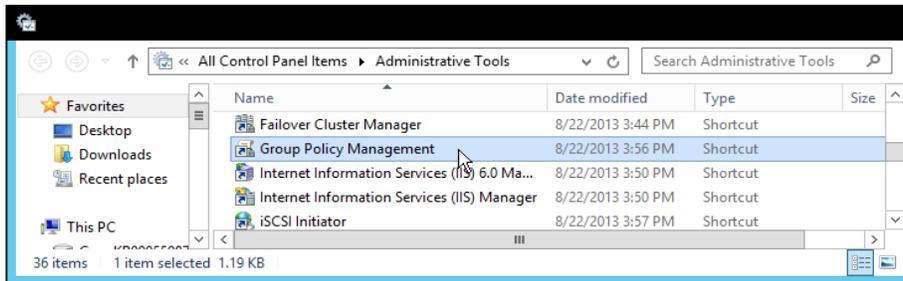


- **ServerAuthID:** If this value is empty, any server authentication id will be accepted. This value must be the same as '**Server Authentication ID**' in the SSO configuration in the UCS WebAdmin.
- **SessionID:** This value is used for client authentication. This value must be the same as '**Client Authentication ID**' in the SSO configuration in the UCS WebAdmin.
- **SessionTimeout** (seconds): If there is no response from the UCS SSO service within Session Timeout value, session will be disconnected. This value should be greater than 180.

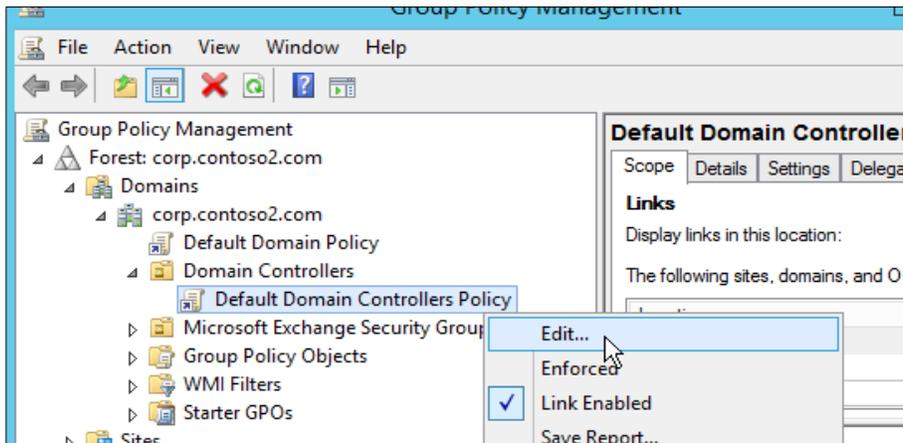
6. Change domain group security policy.

- ▶ Move to the [Group Policy Management]

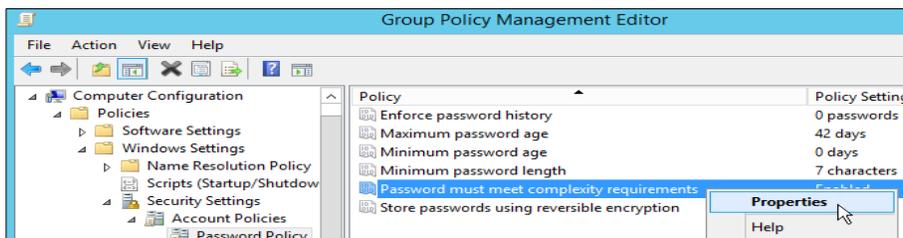
Select [Control Panel > Administrative Tools > Group policy management] or type "gpmc.msc" in command prompt window as administrator.



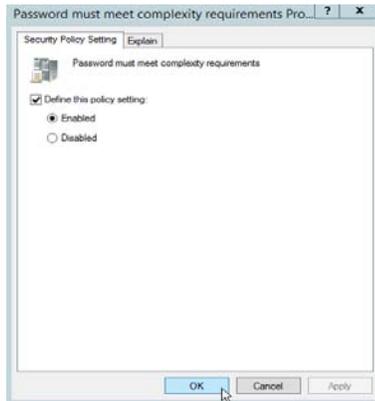
- ▶ Move to "Group Policy Management Editor"



- ▶ Move to the properties of "Password must meet complexity requirements"

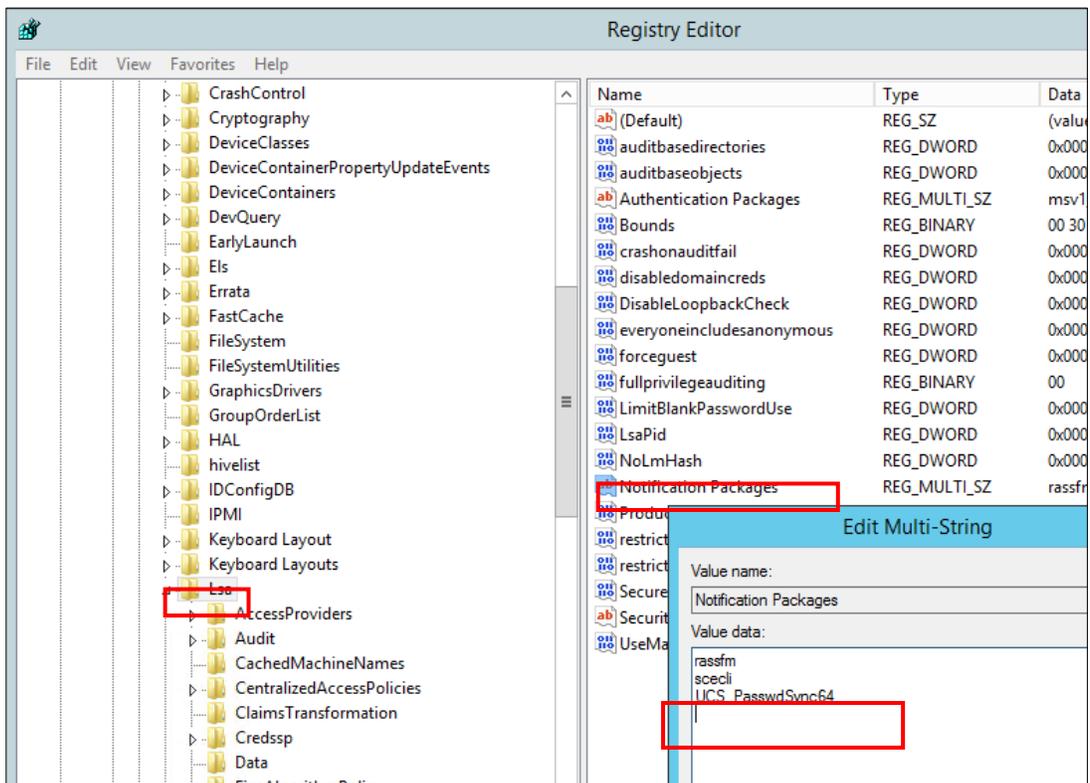


- Change complexity to “Enabled”



7. Add “UCS_PasswordSync64”

Open registry editor (Type “regedit”) and move to “HKEY_LOCAL_MACHINE > SYSTEM > CurrentControlSet > Control > Lsa”. Add “UCS_PasswordSync” which is the dll name in the “Notification Packages”.



NOTE

The last line must be empty line in the “Notification Package” values.

8. Restart system: To apply above configuration, restart AD server PC.

6.4.5.2.2 Upgrading SSO Agent

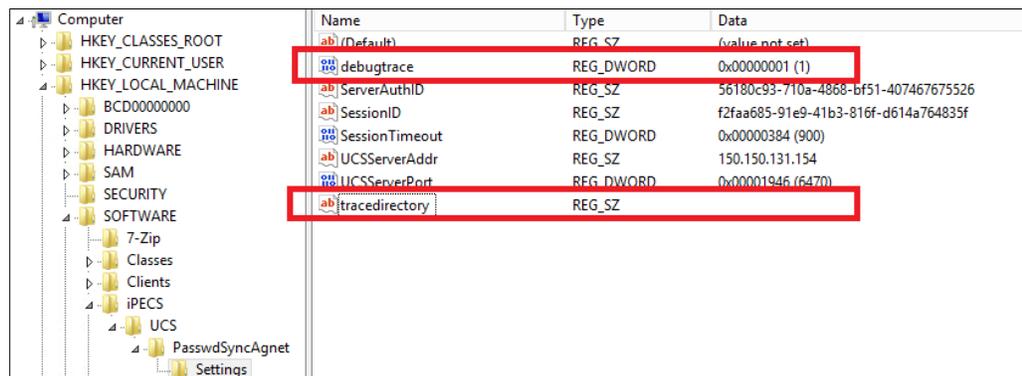
User runs following steps as administrator right.

1. Delete “User_PasswdSync64” in the “Notification Package” using registry editor and restart system.
2. After restarting, copy new “User_PasswdSync64.dll” to the systems directory.
3. Add the dll name “User_PasswdSync64” in the “Notification Package” using registry editor and restart system.

6.4.5.2.3 Debugging SSO Agent

If debug option is set, trace data will be save in a file (“UCS_Sync_log.txt”) when passwords are changed.

- Change value in the registry “HKEY_LOCAL_MACHINE >SOFTWARE >iPECS >UCS >PasswdSyncAgent >Settings”.



Name	Type	Data
(Default)	REG_SZ	(value not set)
debugtrace	REG_DWORD	0x00000001 (1)
ServerAuthID	REG_SZ	56180c93-710a-4868-bf51-407467675526
SessionID	REG_SZ	f2faa685-91e9-41b3-816f-d614a764835f
SessionTimeout	REG_DWORD	0x00000384 (900)
UCSServerAddr	REG_SZ	150.150.131.154
UCSServerPort	REG_DWORD	0x00001946 (6470)
tracedirectory	REG_SZ	

- **debugtrace**: if value is 1, debug information will be printed.
- **tracedirectory**: The value is the directory for location of trace file. If value is empty, a trace file is saved at “c:\”. The file is “UCS_Sync_log.txt”.

6.5 Shared Schedule

6.5.1 Schedule Administrators

UCS Server maintains Private schedules for each user, as well as Shared schedules, which can be viewed only by permitted users. Permitted users are defined for each specific Shared schedule.

The screenshot shows the 'Schedule Administrator' window. At the top, there are 'Add' and 'Delete' buttons. Below that is a 'Schedule Type' dropdown menu currently set to 'UC & App Team (Admin)', with a 'Go to Shared Schedule' button to its right. A list of User IDs follows, with checkboxes next to each. The first two, 1006800 and 1006801, are checked. At the bottom, there is a search bar, a 'Search User ID' button, and an 'Add' button.

- **Add:** allows a user access to the selected Schedule.
- **Delete:** deletes selected users from accessing the select schedule
- **Go to Shared Schedule:** Go to shared schedule.

To allow a user access to a given Schedule

1. Select the Schedule Type from the drop down menu.
2. Click the **Add** button at the top of the screen.
3. Select the appropriate User ID then click **Add** at the bottom of the screen.

NOTE

Users configured as a Schedule Administrator may add, edit, or delete a shared schedule. Changes to the Schedule Administrator take affect after the next login by the configured user.

6.5.2 Shared Schedule

In the Shared Schedule screen, the Administrator manages Shared Schedule folder names.

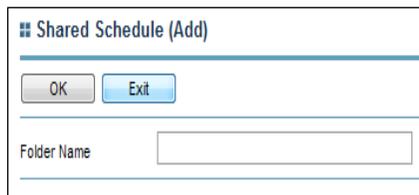


The screenshot shows a window titled "Shared Schedule" with three buttons: "Add", "Delete", and "Edit". Below the buttons is a table with the following data:

Folder Name	Creator	Created Date
<input type="checkbox"/> All Schedule	Admin	2008-04-16
<input type="checkbox"/> Branch Office Schedule	Admin	2008-04-16
<input type="checkbox"/> Head Office Schedule	Admin	2008-04-16
<input type="checkbox"/> R&D Center Schedule	Admin	2008-04-16

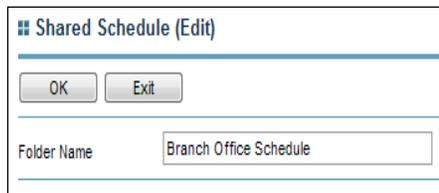
At the bottom of the table, there are navigation icons: a left arrow, a right arrow, the number "1", and another right arrow.

Shared Schedule Add Screen



The screenshot shows a window titled "Shared Schedule (Add)". It contains two buttons: "OK" and "Exit". Below the buttons is a text input field labeled "Folder Name".

Shared Schedule Edit Screen



The screenshot shows a window titled "Shared Schedule (Edit)". It contains two buttons: "OK" and "Exit". Below the buttons is a text input field labeled "Folder Name" with the text "Branch Office Schedule" entered.

- The maximum number of entries in all shared folders is defined in the Properties screen.

6.6 UCS Service Configuration

6.6.1 Properties

iPECS UCS Server has several Properties that can be configured to provide optimum performance in various environments, such as the number of users, items in individual databases, etc.

Control buttons

- ▶ **Reload:** refreshes the current UCS Admin screen.
- ▶ **Save:** saves the current UCS Admin screen.

UCS User maximum Entries	<input type="text" value="4000"/>	4000
Phone User maximum Entries	<input type="text" value="10000"/>	10000
External Contacts maximum Entries	<input type="text" value="10000"/>	10000
Max Client Notes	<input type="text" value="10"/>	10
File Sending Peers	<input type="text" value="5"/>	5
File Sharing Peers	<input type="text" value="5"/>	5
Web Push Peers	<input type="text" value="5"/>	5
Sharing Frame Interval	<input type="text" value="1500"/>	msec 500 ~ 9999

- **UCS User maximum Entries:** maximum number of UCS users that can be registered in Shared Directory.
- **Phone User maximum Entries:** maximum number of phone users that can be registered in the Shared Directory.
- **External Contacts maximum Entries:** maximum number of external contacts that can be registered in Shared Directory
- **Max Client Notes:** maximum number of Notes that can be stored for each UCS Client
- **File Sending Peers:** maximum number of Clients that can receive a file
- **File Sharing Peers:** maximum number of Clients in a single File Sharing session
- **Web Push Peers:** maximum number of Clients in a co-browsing session
- **Sharing Frame Interval:** time interval for sending shared files from the Master to other users in a Sharing session

Chat Room (Meet Me)	<input type="text" value="30"/>	30
Chat Room (Ad hoc)	<input type="text" value="100"/>	200
Schedule Folders	<input type="text" value="1"/>	5
Max Video Conference Room	<input type="text" value="8"/>	8
Video Quality	<input type="text" value="QCIF"/> ▼	
Video Maximum Member	<input type="text" value="9"/>	1 ~ 9
Video Conf Frame (2 members)	<input type="text" value="8"/> ▼	
Video Conf Frame (3 members)	<input type="text" value="8"/> ▼	
Video Conf Frame (4 members)	<input type="text" value="4"/> ▼	
Video Conf Frame (5 members)	<input type="text" value="4"/> ▼	
Video Conf Frame (6 members)	<input type="text" value="2"/> ▼	
Statistics Operation	<input type="text" value="Yes"/> ▼	
Organization Chart Refresh Interval	<input type="text" value="10"/> sec	3 ~ 3600

- **Chat Room (MeetMe)** :maximum number of Meet-Me Chat Rooms
- **Chat Room (Adhoc)**: maximum number of ad hoc Chat sessions
- **Schedule Folders**: maximum number of Schedule Folders per user
- **Schedule Item**: maximum number of records in a Schedule
- **ICR Scenario Item**: maximum number of ICR Scenarios
- **File Send Size**: maximum size of a file that can be sent
- **Max Video Conference Room**: maximum number of Video Conferences
- **Video Quality**: video resolution available (QCIF/CIF/4CIF)
- **Video Maximum Member**: maximum number of users in a video conference
- **Video Conf Frame**: maximum Video frame rate based on number of users in a Video Conference
- **Statistics Operation**: yes or no option for Statistics function
- **Organization Chart Refresh Interval**: time interval for updating organization chart in a UCS Client.

Minimum Password Length	<input type="text" value="1"/>	1 ~ 12
Must Change Password at First Login	<input type="button" value="No"/>	
Must Change Password after Password Initialization	<input type="button" value="No"/>	
Do Not Allow the Same Password and User ID	<input type="button" value="No"/>	
Account Lockout after Invalid Login Attempts	<input type="text" value="0"/>	time(s) 0 ~ 999
Account Lockout Duration	<input type="text" value="0"/>	minute (s) 0 ~ 999
E-mail Dispatch	<input type="button" value="No"/>	
E-mail dispatching Count in case of failure	<input type="text" value="3"/>	time(s) 0 ~ 999
E-mail dispatching Period in case of failure	<input type="text" value="10"/>	minute (s) 0 ~ 999
Data Transfer protocol and port for client	<input type="button" value="http:80"/>	
Display Office Department	<input type="button" value="Yes"/>	
Display Official Title	<input type="button" value="No"/>	
Display Official Position	<input type="button" value="Yes"/>	
Enable External DB Search	<input type="button" value="No"/>	

- **Minimum Password Length:** minimum UCS Client password length,
- **Must Change Password at First Login:** if 'Yes', users must change their password at the initial login.
- **Must Change Password after Password Initialization:** if 'Yes', users must change their password when initialized by the administrator
- **Do Not Allow the Same Password and User ID:** If 'Yes', the User Id cannot be used as the password
- **Account Lockout after Invalid Login Attempts:** UCS Client login will be blocked automatically when inappropriate User ID and Password entry reaches this number.
- **Account Lockout Duration:** The period the lockout will continue.
- **E-mail Dispatch:** If 'Yes', a new account creation E-mail is automatically dispatched to UCS Client users.
- **E-mail dispatching Count in case of failure:** The maximum number of times UCS Server will attempt to dispatch an E-mail.
- **E-mail dispatching Period in case of failure:** The maximum period UCS Server will attempt to dispatch and E-mail.
- **Data transfer protocol and port for client:** The protocol and port for UCS Web Service between UCS Web Server and UCS Client.
- **Display Office Department in Call Popup:** If 'Yes', office department is displayed in call popup.
- **Display Official Title in Call Popup:** If 'Yes', official title is displayed in call popup.
- **Display Office Position in Call Popup:** If 'Yes', office position is displayed in call popup.
- **Enable external DB Search:** If 'Yes', external DB Search is enable.

Include English Character for password	No
Include Capital English Character for password	No
Include Number for password	No
Include Special Character for password	No
Default Tab (PC Client)	Presence
Display IM (PC Client)	Yes
Display Phone Tab (PC Client)	Yes
Enable Outlook Schedule Sync (PC Client)	Yes
Outlook Pop-up (PC Client)	Yes
System locale	949 (ANSI/OEM - Korean)
Download Client Authentication	No

- **Include English Character for password:** If 'Yes', new UCS Client and UCS webadmin administrator password should include English character.
- **Include Capital English Character for password:** If 'Yes', new UCS Client and UCS webadmin administrator password should include Capital English character.
- **Include Number for password:** If 'Yes', new UCS Client and UCS webadmin administrator password should include number.
- **Include Special Character for password:** If 'Yes', new UCS Client and UCS webadmin administrator password should include special character.
- **Default Tab:** Display Default Tab at the first login in UCS Client.
- **Display IM:** If yes, IM is displayed in UCS Client.
- **Display Phone Tab:** If yes, Phone Tab is displayed in UCS Client.
- **Enable Outlook Schedule Sync:** If yes, outlook schedule sync is enabled.
- **Outlook Pop-up:** If yes, Outlook Pop-up is enabled.
- **System locale:** It displays system locale information where UCS Server is installed.
- **Download Client Authentication:** If yes, Download Client Authentication is enabled.

NOTE

If you select 'Yes' in Download Client Authentication, the following popup is showed up. And you can go to Client Download page after UserID and password is got authenticated.



6.6.2 SIP Parameter

Various parameters associated with Session Initiation Protocol (SIP) handling for both the UCS Server and UCS Client can be adjusted by the Administrator in the SIP Parameter screen. It is recommended that the default values be used wherever possible.

SIP Parameter

Reload Save

Property	Value		Min:Max Value
Server Port	25054	port	1024 ~ 49151
NAT Relay Server Port	25058	port	1024 ~ 49151
Max Transaction Count	5000		1000 ~ 200000
SIP Message Buffer	65000	byte	8000 ~ 65000
Activate IP echo Server	1	(0:False 1:True)	0 ~ 1
Trans List Delete TimeOut	60	sec	10 ~ 120
TCP Relay List Delete TimeOut	35	sec	10 ~ 3000
SIP UDP Port	25060	port	1024 ~ 49151
SIP TCP Port	25060	port	1024 ~ 49151
SIP Worker Thread Count	0		0 ~ 20
SIP Message Queue Size	1000		32 ~ 3000
Retransmission Timer 1	5000	msec	500 ~ 10000
Retransmission Timer 2	12000	msec	4000 ~ 20000
Provision Timer	180	sec	180 ~ 600
Logging Errors	1	(0:False 1:True)	0 ~ 1
Logging Infos	0	(0:False 1:True)	0 ~ 1
Logging TCP Relay Info	1	(0:False 1:True)	0 ~ 1
Logging SIP Resources	0	(0:False 1:True)	0 ~ 1
Logging UCC2UCS All Message	0	(0:False 1:True)	0 ~ 1
Logging UCS2UCC All Message	0	(0:False 1:True)	0 ~ 1
Session Relay via UCS Server	1	(0:False 1:True)	0 ~ 1
User Key to Debug	1560		User ID <input type="text"/> Generate
Gateway IP Address	127.0.0.1		

- ▶ **Reload:** refreshes the current UCS Admin screen.
- ▶ **Save:** saves the current UCS Admin screen.

Gateway Server Properties

- **Server Port:** Gateway Server TCP port used for communication with the Application Servers
- **NAT Relay Server Port:** Gateway Server TCP port UCS Clients use to send TCP streams (IM, File Send and Sharing); the port is used in the NAT environment.
- **Max. Transaction Count:** maximum number of Gateway Server transactions active at a given time.
- **SIP Message Buffer:** maximum size for SIP messages received by the Gateway Server.
- **Active IP echo Server:** defines if the Gateway Server employs multi-cast to notify UCS Clients of the Gateway Server IP Address.
- **Trans. List Delete Timeout:** Gateway timer to delete a transaction from the transaction list in case no final response message is received for a SIP request.
- **TCP Relay List Delete Timeout:** Gateway timer to delete a TCP connection from the TCP relay list in case no final response message is received with a SIP request.
- **SIP UDP Port:** SIP UDP port on which the UCS Gateway expects to receive SIP messages.
- **SIP TCP Port:** SIP TCP port on which the UCS Gateway expects to receive SIP messages.
- **SIP Worker Thread Count:** number of processing threads that may be active.
- **SIP Message Queue Size:** maximum length of the processing queue.
- **Retransmission Timer 1:** UCS Client Invite transaction retransmits request at an interval that starts at T1 seconds.
- **Retransmission Timer 2:** general requests are retransmitted at an interval that starts at T1 and doubles until it reaches T2.
- **Provision Timer:** transaction will stop re-transmission of the Invite request and will wait for a final response for the Provision Timer.
- **Logging Errors:** debug Flag to enable/disable saving error messages to the Gateway Log text file.
- **Logging Info:** debug Flag to enable/disable saving information messages to the Gateway Log text file.
- **Logging TCP Relay Info:** debug Flag to enable/disable saving TCP Relay information messages to the Gateway Log text file.
- **Logging SIP Resources:** debug Flag to enable/disable saving SIP resource messages to the Gateway Log text file.
- **Logging UCC2UC:** debug Flag to enable/disable saving UCS Client messages sent by the Client to the Gateway Log text file.
- **Logging UCS2UCC:** debug Flag to enable/disable saving information for UCS Sever messages to the Gateway Log text file.
- **Session Relay via UCS Server:** Whether or not all sessions are connected through UCS server. If checked, the session stability is improved.

- **User Key to Debug:** Key value of user for debugging.
- **Gateway IP Address:** IP Address of PC where Gateway server is installed.

6.6.3 Timer Settings

In the Periodic Timers screen, various timer settings can be adjusted.

Periodic Timer

Reload Save

Diagnostic Check Interval for Client sec 30 (10 ~ 90)

Diagnostic Check Interval for Server Process sec 5 (3 ~ 30)

- ▶ **Reload:** refreshes the current UCS Admin screen.
- ▶ **Save:** saves the current UCS Admin screen.

Property items

- **Diagnostic Check Interval for Client:** Interval for checking UCS Client diagnostics.
- **Diagnostic Check Interval for Server Process:** Interval for checking UCS Server process diagnostics.

6.6.4 Message Log

iPECS UCS Server maintains a log of notice and warning messages. The Administrator can define the Category for each message and assign each message to be reported and saved to the history log. If not saved, a reported message will be deleted from the log after it has been reported.

Warning/Notice Message

Reload Save

Code	Message	Category	Report	Save
1001	Server Process Started	Notice	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
1002	Server Process Stopped	Warning	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
1003	Server Process No Answer	Warning	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
1101	PBX System Connected	Notice	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
1102	PBX System No Answer	Warning	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
1103	Presence Service Started	Notice	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
1201	ICR Result	Notice	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No
1202	ICR Fail Report	Warning	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
1203	Invalid ICR Request	Warning	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
1301	UCS Client No Answer	Warning	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No

10 20 50 100 500 Items per one page

◀ 1 2 3 4 5 ▶

- ▶ **Reload:** refreshes the current UCS Admin screen.
- ▶ **Save:** saves the current UCS Admin screen.

6.6.5 Admin Level

The Admin Level screen is employed to define the lowest Admin Level allowed access to each iPECS UCS Web Admin screen. Users with a higher-numbered Admin Level are not allowed access to the screen, and will receive the message “Your Admin Level is not acceptable.” indicating access is denied. The Download Client Program menu can be assigned for access by Admin Levels 1 to 10; all other screens can be assigned for access by Admin Levels 1 to 5.

Web Admin Menu	Admin Level
Shared Directory	1
Schedule Administrator	1
Holiday	1
PBX System	1
Property	1
SIP Parameter	1
Periodic Timer	1
Warning/Notice Message	1
Client Version Compatibility	1
Admin Level	1

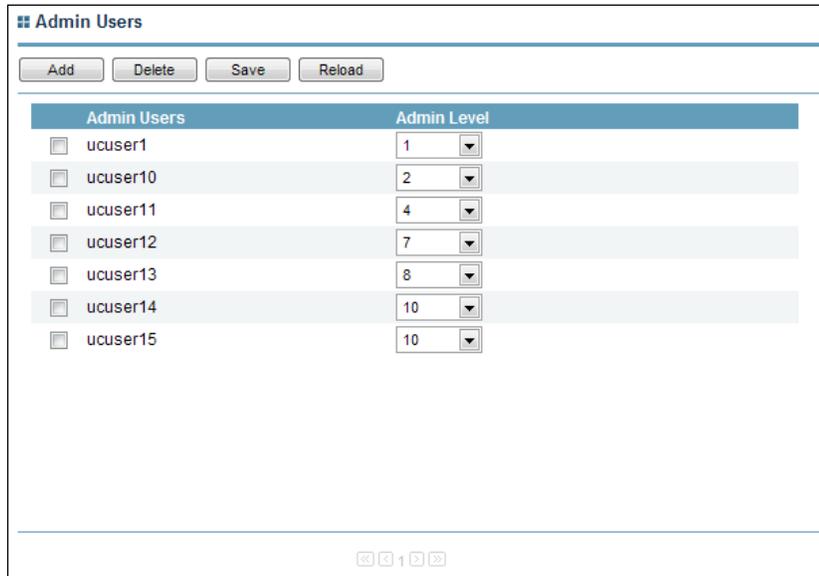
● 10 ○ 20 ○ 50 ○ 100 ○ 500 Items per one page

« 1 2 3 4 5 6 »

- ▶ **Reload:** refreshes the current UCS Admin screen.
- ▶ **Save:** saves the current UCS Admin screen.

6.6.6 Admin Users

The Admin User screen defines Admin Users and the Admin Level for each user. Only the Administrator or user with Admin Level 1 may view and modify information on this screen.



The screenshot shows the 'Admin Users' interface. At the top, there are four buttons: 'Add', 'Delete', 'Save', and 'Reload'. Below these is a table with two columns: 'Admin Users' and 'Admin Level'. The table contains seven rows of user information, each with a checkbox on the left and a dropdown menu for the admin level on the right.

Admin Users	Admin Level
<input type="checkbox"/> ucuser1	1
<input type="checkbox"/> ucuser10	2
<input type="checkbox"/> ucuser11	4
<input type="checkbox"/> ucuser12	7
<input type="checkbox"/> ucuser13	8
<input type="checkbox"/> ucuser14	10
<input type="checkbox"/> ucuser15	10

At the bottom of the screen, there are navigation icons: a left arrow, a right arrow, and a refresh icon.

- ▶ **Add:** adds a new user to the Admin Group and defines the Admin Level for each user.
- ▶ **Delete:** deletes a user from the Admin Group.
- ▶ **Save:** saves the current UCS Admin screen.
- ▶ **Reload:** refreshes the current UCS Admin screen.

To add a user to the Admin Group

1. Click **Add**.
2. Select the appropriate User ID.
3. Click **Save** to accept changes.

To assign or change the level for a user

1. Select the user by clicking the corresponding check box.
2. Select the desired Admin Level from the drop-down list.
3. Click **Save** to accept changes.

6.6.7 Initialize Client Password

The Administrator or users with Admin Level 1 can initialize the password for those who forget their passwords. When initialized, the User ID is employed as the password. To initialize a password,

1. Click the **Initialize** button corresponding to the User ID or Name.
2. The **Search** function can be used to locate the appropriate User ID or Name.
3. New Password is used for initializing password. If new password is empty, User Id is used for initializing password.

Initialize Client Password

Name New Password is used for initializing password. If new password is empty, UserId is used for initializing password.

Name	User ID	Initialize Password	New Password
1010	1010	<input type="button" value="Initialize"/>	<input type="text"/>
1045	1045	<input type="button" value="Initialize"/>	<input type="text"/>
1071	1071	<input type="button" value="Initialize"/>	<input type="text"/>
113	113	<input type="button" value="Initialize"/>	<input type="text"/>
114	114	<input type="button" value="Initialize"/>	<input type="text"/>
115	115	<input type="button" value="Initialize"/>	<input type="text"/>
116	116	<input type="button" value="Initialize"/>	<input type="text"/>
117	117	<input type="button" value="Initialize"/>	<input type="text"/>
118	118	<input type="button" value="Initialize"/>	<input type="text"/>
119	119	<input type="button" value="Initialize"/>	<input type="text"/>

10 20 50 100 500 Items per one page

6.6.8 Client Version Requirement

The Client Version Requirement manages the versions of the UCS Clients (Windows (PC), Android, iPhone). The display below shows the recommended and required versions of the UCS Clients. Minimum required version is same as first installation of UCS server.

Client Version Requirement	
<input type="button" value="Edit"/>	
Minimum Required Client Version	Device Type
<input type="checkbox"/> 5.0.1	Windows (PC)
<input type="checkbox"/> 3.0.1	Android (Mobile)
<input type="checkbox"/> A.1Ae	iOS (Mobile)

Minimum Required Client Version:

UCS Client cannot login if its version is lower than 'Minimum Required Client Version'. After selecting 'Edit' button, user can edit client version information in screen below.

Client Version Requirement	
Client Version	<input type="text" value="5.0.1"/> <small>Version format : "X.Y.Z" (X,Y: maximum two figures, Z:maximum three figures)</small>
Device Type	<input checked="" type="radio"/> Windows (PC) <input type="radio"/> Android (Mobile) <input type="radio"/> iOS (Mobile)
<input type="button" value="Update"/> <input type="button" value="Cancel"/>	

NOTE

Modifying 'Minimum Required Client Version' is not recommended.

Modifying 'Minimum Required Client Version' is recommended when UCS Client must be updated.

6.6.9 Client Upload

Upload clients is used to upload client files to make UCS User download UCS Client from it. Administrator can upload UCS Client (Windows (PC), Android) from it. User should edit version information according to uploaded file.

The screenshot shows the 'Upload Clients' interface. At the top, there are 'Add' and 'Edit' buttons. Below is a table with two columns: 'Downloadable Client Version' and 'Device Type'. The table contains one row with a checkbox, the version '5.0.1', and the device type 'Windows (PC)'.

Downloadable Client Version	Device Type
<input type="checkbox"/> 5.0.1	Windows (PC)

Upload 'Windows (PC) Client' Setup File

To change the 'Windows (PC) Client' setup file, check the box and select **[EDIT]** in 'Downloadable Client Version'. Then, new display is shown below.

To update the new client version in **[Client Version]** and select new setup file from **[Browse..]**, then click **[Update]**.

Windows (PC) can be edited but not deleted.

The screenshot shows the 'Upload Clients' edit form. It has 'Add', 'Delete', and 'Edit' buttons at the top. The form fields are: 'Client Version' with a text box containing '5.0.1' and a red box around it; 'Device Type' with radio buttons for 'Windows (PC)' (selected), 'Android (Mobile)', and 'iOS (Mobile)'; and 'UCS Client' with a text box and a 'Browse...' button, both highlighted with a red box. There are 'Update' and 'Cancel' buttons at the bottom right. A red note says 'Version format : "X.Y.Z" (X,Y: maximum two figures, Z maximum three figures)'.

NOTE

Updating UCS mobile clients (Android, iPhone) is provided through the Android and Apple on-line markets.

- Upload 'Android (Mobile)' Setup file

Users can download UCS Client for Android (Mobile) from Google Play Store at current release. However if a site requires a different (supported) version of UCS Client for Android (Mobile) from that offered by Google Play, the Administrator can upload Android (Mobile) file into UCS Webadmin.

Uploaded file can be edited and deleted from this menu.

User can download Android (Mobile) as follows:

http://UCS server ip address/ucs/client/UCSmClientInstall.apk

6.6.10 ICR Time Option

The ICR (Incoming Call Routing) Option screen defines the office hours and days in the workweek. This screen can only be viewed and modified by the Administrator or users with Admin Level 1.

■ ICR Time Option

Reload Save

Office Hour Start (HH:MM:SS) 08:50:00

Office Hour End (HH:MM:SS) 17:50:00

Work Day Information Monday Tuesday Wednesday Thursday Friday Saturday Sunday

- ▶ **Reload:** refreshes the current UCS Admin screen.
- ▶ **Save:** saves the current UCS Admin screen.

Property items

- **Office Hour Start:** start time, work begins.
- **Office Hour Stop:** end time, work ends.
- **Work Day Information:** separate check boxes for workdays.

NOTE

Off times are not defined separately, because a UCS Client can select work times or comparative off times when registering ICR.

6.6.11 Holiday

In the Holiday Admin screen, yearly holidays are defined for the ICR function; these dates are used as holidays in the client ICR definitions.

These holiday assignments are not related to UCS scheduling functions.



The screenshot shows the 'Holiday' admin interface. At the top, there are four buttons: 'Add', 'Delete', 'Edit', and 'Reload'. Below these is a table with two columns: 'Date (MM-DD)' and 'Holiday'. Each row in the table has a checkbox on the left. The table lists the following holidays:

Date (MM-DD)	Holiday
<input type="checkbox"/> 01-01	New Year's Day
<input type="checkbox"/> 01-17	Martin Luther King's Day
<input type="checkbox"/> 02-21	President's Day
<input type="checkbox"/> 05-08	Mother's Day
<input type="checkbox"/> 05-30	Memorial Day
<input type="checkbox"/> 06-19	Father's Day
<input type="checkbox"/> 07-04	Independence Day
<input type="checkbox"/> 09-05	Labor Day
<input type="checkbox"/> 10-10	Columbus Day
<input type="checkbox"/> 10-31	Halloween

At the bottom of the table, there is a pagination control showing '1' of '2' items.

- ▶ **Add:** adds a new Holiday.
- ▶ **Delete:** deletes a selected Holiday.
- ▶ **Edit:** modifies the definition for an existing Holiday.
- ▶ **Reload:** refreshes the current UCS Admin screen.

6.6.12 Audio Setting By Mobile User

In the 'Audio Setting By Mobile User' screen, the administrator can adjust voice quality for each user.

Name	User ID	Mobile Audio Setting	
1010	1010	Audio Setting By Mobile Model	Edit
1045	1045	Audio Setting By Mobile Model	Edit
1071	1071	Audio Setting By Mobile Model	Edit
113	113	Audio Setting By Mobile Model	Edit
114	114	Audio Setting By Mobile Model	Edit
115	115	Audio Setting By Mobile Model	Edit
116	116	Audio Setting By Mobile Model	Edit
117	117	Audio Setting By Mobile Model	Edit
118	118	Audio Setting By Mobile Model	Edit
119	119	Audio Setting By Mobile Model	Edit

- ▶ **Search:** returns search results for an entered user name or ID.
- ▶ **Edit:** moves to editing screen.
- ▶ **Reload:** refreshes the current screen.

6.6.13 Audio Setting By Mobile Phone

In the 'Audio Setting By Mobile Phone' screen, the administrator can adjust voice quality for each phone model.

Model Name	Model Description	
<input type="checkbox"/> Galaxy Nexus	Galaxy Nexus	Edit
<input type="checkbox"/> LG-F180S	Optimus G	Edit
<input type="checkbox"/> lgtest	ere	Edit
<input type="checkbox"/> SHW-M110S	GalaxyS	Edit

- ▶ **Search:** returns search for a Model Name.
- ▶ **Edit:** moves to editing screen.
- ▶ **Reload:** refreshes the current screen.
- ▶ **Add:** adds a new phone model
- ▶ **Delete:** deletes the checked model name.
- ▶ **Delete All:** deletes all of phone model information from the UCS Server Database.

6.7 Web Link

6.7.1 Web Link

In the Web Link screen, the Administrator or users with Admin Level 1 can register an external web page to show in the UCS Client. Any URL with a web page height less than 25 pixels can be registered. This function is used as a method for collecting web page links for company use. For example, the company portal shown might contain links for web mail, electronic review and approval, and so on.

Web Link				
Reload	Save	Add	Edit	Delete
Subject	Company Portal			
URL	http://10.10.10.1/gwisp/directMenu/DirectMenuTest.jsp			
Parameter Name	Parameter Value			
<input type="checkbox"/> userid	User ID			
<input type="checkbox"/> name	Name			
<input type="checkbox"/> phone	Desktop Phone			

This feature is for site-specific demands. The final URL will consist of the combination with the added parameters. For example, when you want the web page to display in the UCS Client main window the number of unread web mail or waiting documents to be approved, you need to provide your identification information to the linked web mail server or approval server using parameters such as User ID or name.

If there is a web link in the URL field, the related web page is displayed in the UCS Client main window between the main menu and user's presence icons. If this URL field is empty, there is no web page displayed in the UCS Client main window.

- ▶ **Reload:** refreshes the current UCS Admin screen.
- ▶ **Save:** saves the current UCS Admin screen.
- ▶ **Add:** add a new Web Link.
- ▶ **Edit:** edit a checked parameter value.
- ▶ **Delete:** delete a Web Link.

6.7.2 Multi Web Link

In the multi-web link screen, the Administrator or users with Admin Level 1 can register multiple URLs including self-created URLs. The main contents and the color of screens can also be modified. In order to apply modified parameters, the URL must be registered as a Multi Web Link URL of the Web Link menu. The example below shows a configuration for the Multi Web Link.

Multi Web Link

[Preview](#)

Background
Background Color Top Horizontal Bar Bottom Horizontal Bar

Title
Title Text Title Align
Title Font Size Color Italic Bold
Title Image URL

Link
Link Align Arrange Image Width Image Height
Link Font Size Banner with Title
Link Image URL

Link List

Subject	URL
<input type="checkbox"/> Google	http://www.google.com
<input type="checkbox"/> CNN	http://www.cnn.com
<input type="checkbox"/> ABC	http://www.abc.com
<input type="checkbox"/> BBC	http://www.bbc.com

Body
Body Text

Body Font Position Body Align Visible

Bottom
Bottom Text Bottom Align
Bottom Font Size Color Italic Bold
Bottom Image URL

NOTE

Web pages that contain Active-X or Java Plug-Ins are prohibited in the Link list of the Multi-Web Link.

- ▶ **Reload:** refreshes the current UCS Admin screen.
- ▶ **Save:** saves the current UCS Admin screen.
- ▶ **Preview:** previews the Multi Web Link in accordance with input parameter values.
- ▶ **Add:** add a new parameter value.

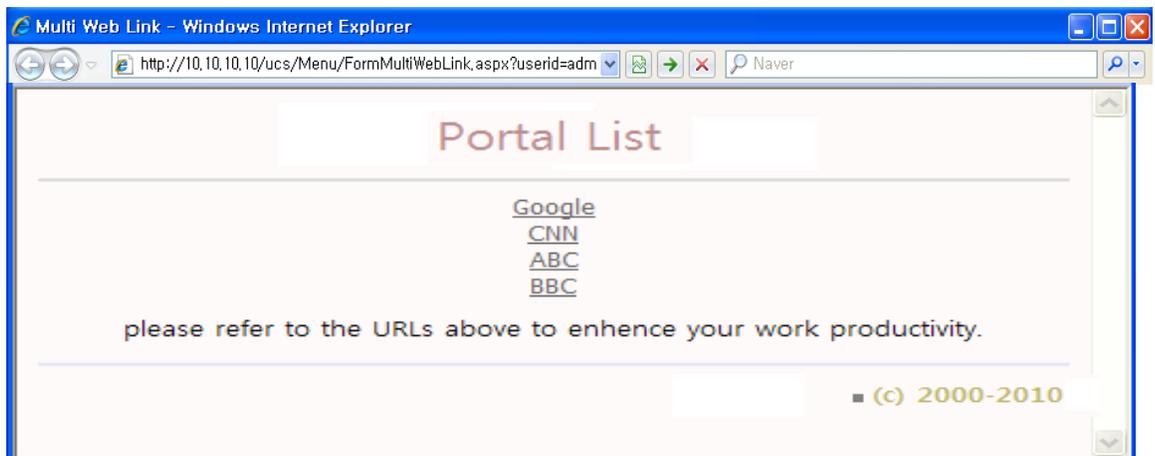
- ▶ **Edit:** edit a checked parameter value.
- ▶ **Delete:** delete a checked parameter.

Components

- **Background:** adjusts a background color, top horizontal bar and bottom horizontal bar.
- **Title:** adjusts parameters for the title and font. The title is shown on the top of the Web tab in the UCS Client.
- **Link:** adds, deletes or modifies any URLs, which are available under the Web tab in the UCS Client.
- **Body:** adjusts contents and font for the body.
- **Bottom:** adjusts contents and font for the bottom.

The figure below shows the Multi-Web Link screen when a client user clicks the **Preview** button. A new web browser opens and the corresponding web page displays when the user selects a link.

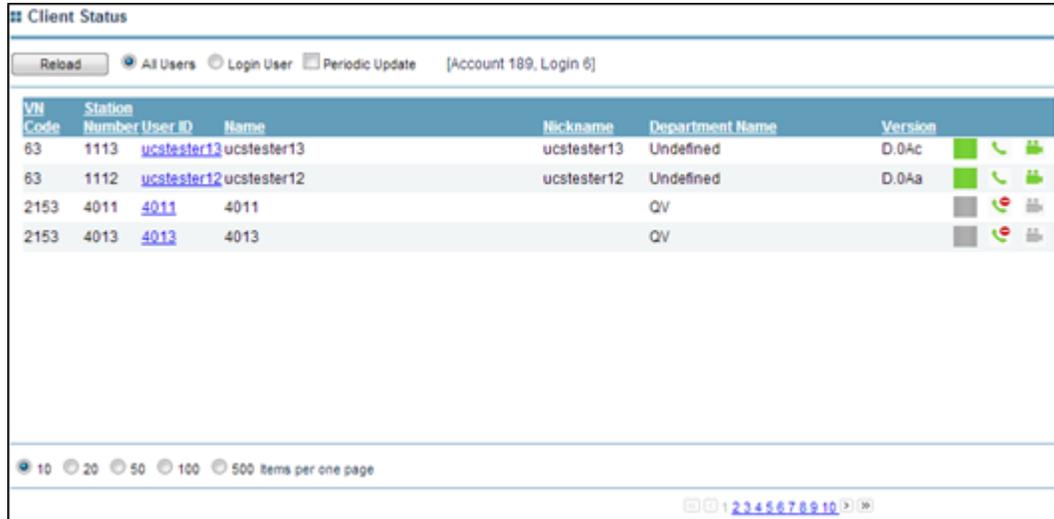
For correct operation of the Multi Web Link, the Administrator must copy the URL to the URL field of the Web Link menu.



6.8 Status

6.8.1 Client

The Client Status displays information for registered UCS Clients. The information includes the VN code, Station Number, User ID, Name, Nickname, Department, Version, and Presence status. The screen displays All Users or only users that are logged in (Login Users) as selected at the top of the screen.



The screenshot shows the 'Client Status' interface. At the top, there is a 'Reload' button and radio buttons for 'All Users' (selected) and 'Login User'. A checkbox for 'Periodic Update' is also present. The text '[Account 189, Login 6]' is displayed. Below this is a table with the following columns: VN Code, Station Number, User ID, Name, Nickname, Department Name, and Version. The table contains four rows of data. At the bottom of the interface, there is a pagination control showing '10', '20', '50', '100', and '500' items per page, with '10' selected. A page number '1' and a range '2,3,4,5,6,7,8,9,10' are also visible.

VN Code	Station Number	User ID	Name	Nickname	Department Name	Version	Presence
63	1113	ucstester13	ucstester13	ucstester13	Undefined	D.0Ac	Online
63	1112	ucstester12	ucstester12	ucstester12	Undefined	D.0Aa	Online
2153	4011	4011	4011		QV		Offline
2153	4013	4013	4013		QV		Offline

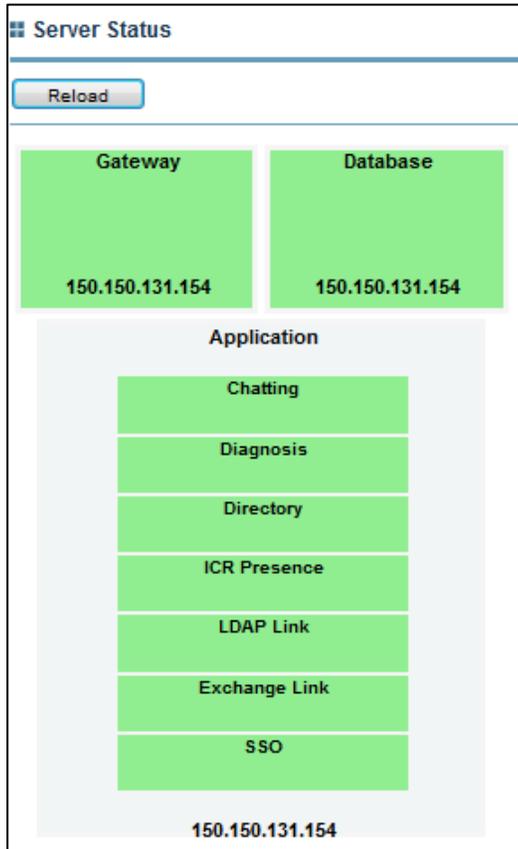


CAUTION

If Periodic Update is set, the page reloads approximately every 5 seconds. This adds to network traffic and load on the PC, so use Periodic Update only if needed.

6.8.2 Server

The Server Status screen shows the status of the UCS Servers and functions.



- Green (■): indicates normal status
- Red (■): indicates a fault or abnormal status.

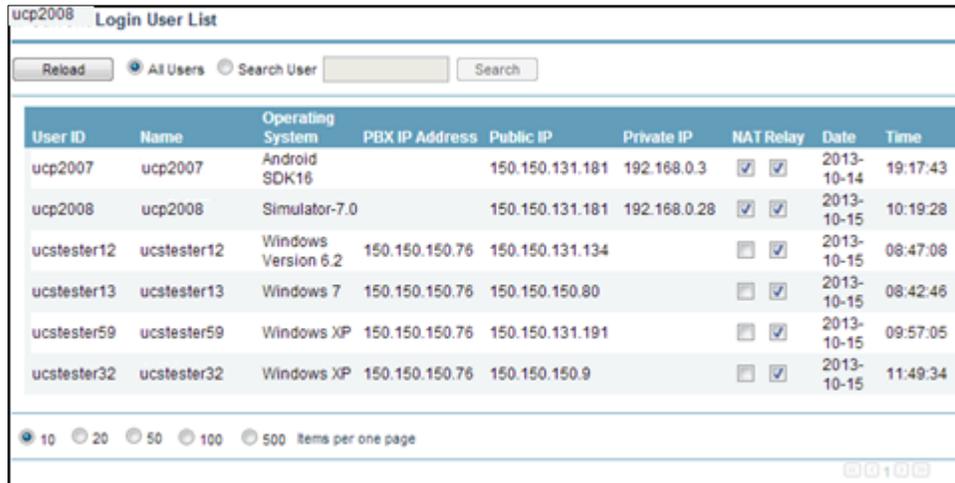
6.8.3 PBX

The PBX Status screen shows the status of iPECS system(s) registered to UCS Server. This screen displays the Site Name, IP Address, Version, Capacity, License, Mobile License, VN Code and Date & Time. A Green colored square indicates normal status, and a Red colored square indicates a fault or abnormal status.



6.8.4 Login User

The Current Login User List displays information on the current logged in users. This screen displays the User ID, Name, Operating System, Public IP, Private IP, NAT, Relay, and login Date & Time for each user.



User ID	Name	Operating System	PBX IP Address	Public IP	Private IP	NAT Relay	Date	Time
ucp2007	ucp2007	Android SDK16		150.150.131.181	192.168.0.3	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	2013-10-14	19:17:43
ucp2008	ucp2008	Simulator-7.0		150.150.131.181	192.168.0.28	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	2013-10-15	10:19:28
ucstester12	ucstester12	Windows Version 6.2	150.150.150.76	150.150.131.134		<input type="checkbox"/> <input checked="" type="checkbox"/>	2013-10-15	08:47:08
ucstester13	ucstester13	Windows 7	150.150.150.76	150.150.150.80		<input type="checkbox"/> <input checked="" type="checkbox"/>	2013-10-15	08:42:46
ucstester59	ucstester59	Windows XP	150.150.150.76	150.150.131.191		<input type="checkbox"/> <input checked="" type="checkbox"/>	2013-10-15	09:57:05
ucstester32	ucstester32	Windows XP	150.150.150.76	150.150.150.9		<input type="checkbox"/> <input checked="" type="checkbox"/>	2013-10-15	11:49:34

Public IP

Public IP addresses are IP addresses that are visible to the public. Because these IP addresses are public, they allow other network devices to discover and access your computer, like a Web server. The Public IP address shows the UCS Client PC's Public IP address.

Private IP

Private IP addresses are used on a private network, but they cannot be routed through the public Internet. This creates a measure of security and it saves limited IP addresses. The Private IP address shows the UCS Client PC's Private IP address.

NAT (Network Address Translation)

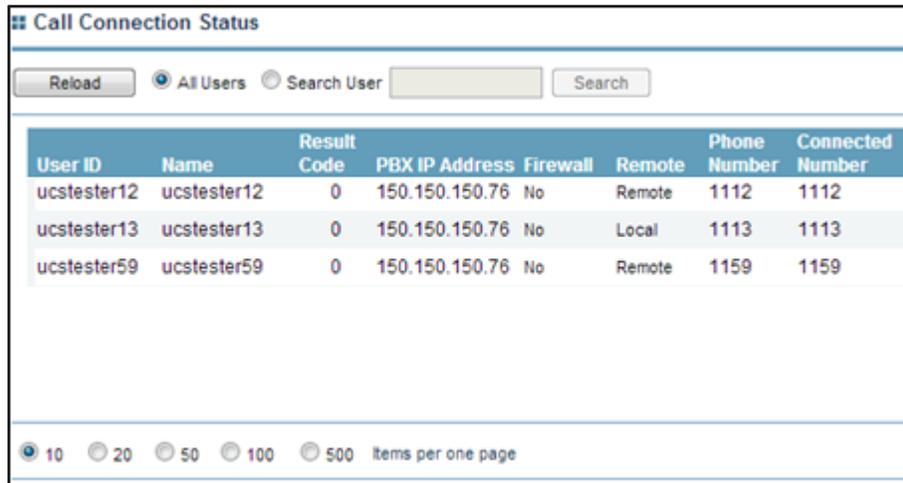
Network Address Translation (NAT), also known as network masquerading, native address translation or IP masquerading, is a technique of transmitting/receiving network traffic through a router that involves re-writing the source and/or destination IP addresses and usually the TCP/UDP port numbers of IP packets as they pass through. The NAT checkbox shows whether UCS Client PC is using NAT.

Relay

UCS Clients can be connected to the UCS Server using Relay mode. In Relay mode, UCS Server relays UCS services such as IM, File Send, Sharing, to each UCS Client. The mode is automatically configured by the UCS server, but the UCS Client can be manually adjusted for Relay operation.

6.8.5 Call Connection

The Call Connection Status screen shows the active call information. This screen displays User ID, Name, Result Code, PBX IP Address, Firewall, Remote, Phone Number and Connected Number.



The screenshot shows the 'Call Connection Status' interface. At the top, there is a 'Reload' button, a radio button for 'All Users' (which is selected), a 'Search User' input field, and a 'Search' button. Below this is a table with the following columns: User ID, Name, Result Code, PBX IP Address, Firewall, Remote, Phone Number, and Connected Number. The table contains three rows of data. At the bottom of the interface, there are radio buttons for selecting the number of items per page: 10 (selected), 20, 50, 100, and 500.

User ID	Name	Result Code	PBX IP Address	Firewall	Remote	Phone Number	Connected Number
ucstester12	ucstester12	0	150.150.150.76	No	Remote	1112	1112
ucstester13	ucstester13	0	150.150.150.76	No	Local	1113	1113
ucstester59	ucstester59	0	150.150.150.76	No	Remote	1159	1159

- Result Code
 - **0**: Success
 - **1**:MAC and ID are Empty
 - **2**:MAC is Default
 - **3**:Registration Dip S/W is Protected
 - **4**:Empty or Not Matching MAC
 - **5**:Remote Password Not Matched
 - **6**:Remote Registered Device Login Fail
 - **7**:Not Allowed Device Registration Information
 - **8**:SLT is Not Allowed for Remote Linked Station
 - **9**:User Login Password does Not Match
 - **10**:User Login Identity is Not Registered
 - **11**:New Registration by User Login Identity
 - **12**:Unresolved Master Slave Identification
 - **13**:Abnormal by System
 - **14**:Extension Logical Number Cannot be Assigned
 - **15**:Extension Logical Number Cannot be Assigned
 - **19**:No License, Please Contact Your Local Dealer
 - **20**:UCS Client Identity

- **21:**Linked Pair Login Failed by Previous Link
- **22:**Wrong Device Type
- **23:**Linked Pair Station is Not Idle State
- **25:**No Response from System

6.9 Report

6.9.1 Logs

6.9.1.1 Notice

The Notice Logs screen displays a history of notice messages. The screen displays the Date & Time, Code, Cause, Process, Description and Name. The display can be for all users or searched for a specific user. The screen can be searched for a specific code. The meaning of each code is shown in the Appendix of this document.

The screenshot shows the 'Notice Logs' interface. At the top, there are search filters: 'All Users' (selected), 'Search User', and 'Code'. There are also 'Start Date' and 'End Date' fields, both set to '2009-06-22', with calendar icons to their right. A 'Query' button is located to the right of the date fields. Below the filters is a table with two columns: 'Information' and 'Name'. The table contains several log entries, each with a 'Date/Time', 'Code', 'Cause', 'Process', and 'Description'. The 'Name' column contains the value 'CMUSER9' for all entries. The entries are as follows:

Information	Name
Date/Time : 2009-06-22 10:50:52 Code : 1312 Cause : Outbound Call Log Process : UCS Directory Server Description : DATE_TIME - 2009-06-22 10:50:52 USER - CMUSER9 (cmuser9) DESTINATION NUMBER - 1018 CO LINE NUMBER -	CMUSER9
Date/Time : 2009-06-22 10:28:23 Code : 1312 Cause : Outbound Call Log Process : UCS Directory Server Description : DATE_TIME - 2009-06-22 10:28:23 USER - CMUSER9 (cmuser9) DESTINATION NUMBER - 1018 CO LINE NUMBER -	CMUSER9
Date/Time : 2009-06-22 10:28:16 Code : 1303 Cause : UCS Client Login Process : UCS Directory Server Description : USER - CMUSER9 (cmuser9) IP ADDRESS - 150.150.131.10	CMUSER9
Date/Time : 2009-06-22 10:17:56 Code : 1304 Cause : UCS Client Logout Process : UCS Directory Server Description : USER - CMUSER9 (cmuser9) IP ADDRESS - 150.150.131.10	CMUSER9
Date/Time : 2009-06-22 10:17:47 Code : 1312 Cause : Outbound Call Log Process : UCS Directory Server Description : DATE_TIME - 2009-06-22 10:17:47 USER - CMUSER9 (cmuser9) DESTINATION NUMBER - 1018 CO LINE NUMBER -	CMUSER9

At the bottom of the table, there is a pagination control showing '1 2 3 4' with arrows on either side.

To enter a Start and End date for display, click the Calendar icon to the right of the date box. Then select the desired date from the Calendar.

The screenshot shows a calendar interface for the month of June 2009. The header shows '2008 3' with navigation arrows. The days of the week are listed as 'Su Mo Tu We Th Fr Sa'. The dates are displayed in a grid, with the 21st of June highlighted in red. The dates shown are: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31.

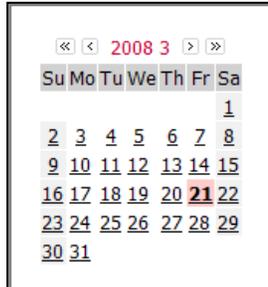
- The range of query is 30 days.

6.9.1.2 Warning

The Warning Logs screen shows the history of warning messages. The screen displays the Date & Time, Code, Cause, Process, Description and Name. The display can be for all users or searched for a specific user. The log can be searched for a specific code.

Information	Name
Date/Time : 2009-06-22 10:59:27 Code : 1702 Cause : Desktop Phone Number Mismatch Process : UCS Client Description : USER - CMUSER21 (cmuser21) PBX IP ADDRESS - 192.168.123.196 DESKTOP PHONE NUMBER - 1021 CONNECTED NUMBER - RESET	CMUSER21
Date/Time : 2009-06-22 10:59:26 Code : 1702 Cause : Desktop Phone Number Mismatch Process : UCS Client Description : USER - CMUSER21 (cmuser21) PBX IP ADDRESS - 192.168.123.196 DESKTOP PHONE NUMBER - 1021 CONNECTED NUMBER -	CMUSER21
Date/Time : 2009-06-22 09:50:25 Code : 1302 Cause : UCS Client Re-Login Process : UCS Directory Server Description : USER - CMUSER9 (cmuser9) IP ADDRESS (BEFORE) - 150.150.149.91 IP ADDRESS (AFTER) - 150.150.131.10	CMUSER9
Date/Time : 2009-06-22 09:49:37 Code : 1701 Cause : Call Connection Fail Process : UCS Client Description : USER - CMUSER9 (cmuser9) DESKTOP PHONE NUMBER - 1019 CAUSE - No Response from System PBX IP ADDRESS (LOCAL) - PBX IP ADDRESS (FIREWALL) -	CMUSER9
Date/Time : 2009-06-22 09:48:32 Code : 1701 Cause : Call Connection Fail Process : UCS Client Description : USER - CMUSER9 (cmuser9) DESKTOP PHONE NUMBER - 1019 CAUSE - No Response from System PBX IP ADDRESS (LOCAL) - PBX IP ADDRESS (FIREWALL) -	CMUSER9

A Start and End date for display, click the Calendar icon to the right of the date box. Then select the desired date from the Calendar.



- The range of query is 30 days.

6.9.1.3 Call

The Call Logs screen shows the history of UCS Client calls. This screen displays the Date & Time, Peer Name, Number, CO and Name. The call type can be selected from the radial buttons as All, Incoming, Outgoing and Conference Room. The display can be for all users or searched for a specific user.

The screenshot shows the 'Call Logs' interface. At the top, there are filters for 'All Users' (selected) and 'Search User' with a 'Search' button. Below that are date filters for 'Start Date' (2009-06-22) and 'End Date' (2009-06-22), both with calendar icons and a 'Query' button. There are also radio buttons for call types: 'All' (selected), 'Incoming', 'Outgoing', and 'Conference Room'. The main area is a table with two columns: 'Information' and 'Name'. The table contains six rows of call records. At the bottom of the table, there are navigation icons and a page number '1 2 3'.

Information	Name
Date/Time : 2009-06-22 11:03:19 Peer Name : No Information Number : 1011 CO :	CMUSER5
Date/Time : 2009-06-22 11:01:49 Peer Name : No Information Number : 1011 CO :	CMUSER5
Date/Time : 2009-06-22 11:01:12 Peer Name : CMUSER7 Number : 1017 CO :	CMUSER21
Date/Time : 2009-06-22 11:00:45 Peer Name : No Information Number : 1011 CO :	CMUSER21
Date/Time : 2009-06-22 11:00:05 Peer Name : No Information Number : 1011 CO :	CMUSER21

To select a Start and End date for display, click the Calendar icon to the right of the date box. Then select the desired date from the Calendar.



- The range of query is 30 days.

6.9.1.4 Feature Usage

The Feature Usage Logs screen shows a history of features used. This screen displays the Date & Time, Peer Name, Type (name of feature) and Name. The feature Type can be selected from the radial buttons and include: All, IM, Sharing, File Send, Web Push and Video. The display can be for all users or searched for a specific user.

Information	Type	Name
Date/Time : 2009-06-09 17:59:17 Peer Name : ucs user 3	Presentation	ucs user 2
Date/Time : 2009-06-09 17:59:17 Peer Name : ucs user 2	Presentation	ucs user 3
Date/Time : 2009-06-09 17:59:00 Peer Name : ucs user 1	Presentation	ucs user 2
Date/Time : 2009-06-09 17:59:00 Peer Name : ucs user 2	Presentation	ucs user 1
Date/Time : 2009-06-09 17:51:45 Peer Name : ucs user 1	Presentation	ucs user 2
Date/Time : 2009-06-09 17:51:45 Peer Name : ucs user 2	Presentation	ucs user 1
Date/Time : 2009-06-09 17:51:24 Peer Name : ucs user 2	Presentation	ucs user 3

To select a Start and End date for display, click the Calendar icon to the right of the date box. Then select the desired date from the Calendar.

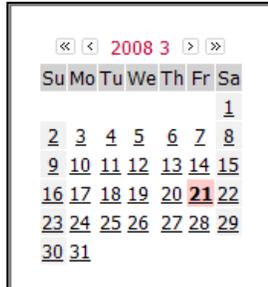
- The range of query is 30 days.

6.9.1.5 File Send

The File Send Logs screen shows detailed history for the file sending feature. In this screen, you can view File Sender, Receiver, File Name, File Size and Date & Time. The display can be for all users or searched for a specific user.

Sender	Receiver	File Name	File Size(KB)	Date & Time
UCS User 9	UCS User 1	UCSClient.exe	21170980	2008-04-04 16:28:04
UCS User 9	UCS User 3	VistaUACandDelphi.ppt	4365312	2008-04-04 16:28:03
UCS User 1	UCS User 3	UCSClient.exe	21170980	2008-04-04 16:28:02
UCS User 3	UCS User 9	VistaUACandDelphi.ppt	4365312	2008-04-04 16:28:01
UCS User 1	UCS User 9	HIAS_Manual_20030929(LG).doc	3856896	2008-04-04 16:28:01
UCS User 3	UCS User 9	UCSClient.exe	21170980	2008-04-04 16:28:00
UCS User 3	UCS User 9	UCSClient.exe	21170980	2008-04-04 16:19:08
UCS User 3	UCS User 9	UCSClient.exe	21170980	2008-04-04 16:19:08
UCS User 3	UCS User 10	UCSClient.exe	21170980	2008-04-04 16:19:07
UCS User 3	UCS User 4	UCSClient.exe	21170980	2008-04-04 16:19:07

To select a Start and End date for display, click the Calendar icon to the right of the date box. Then select the desired date from the Calendar.

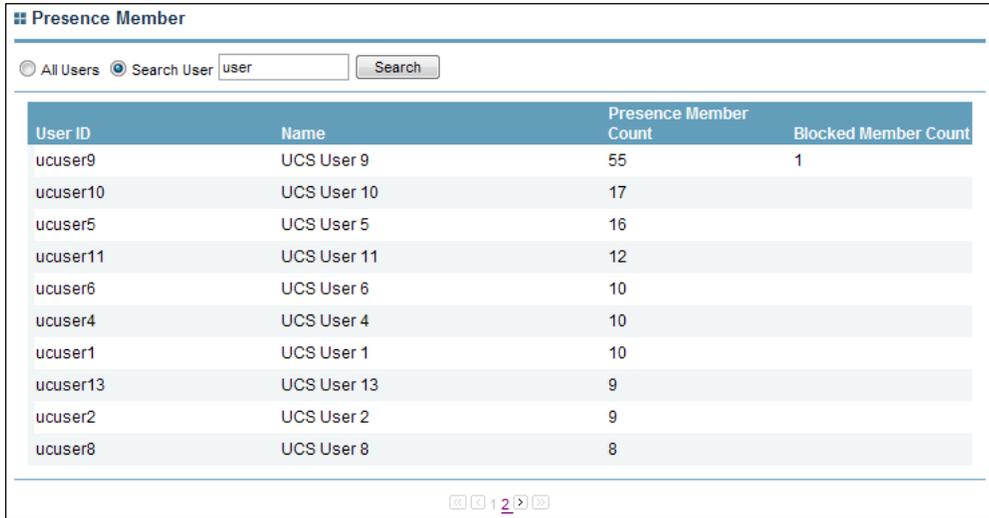


- The range of query is 30 days.

6.9.2 Resource Usage

6.9.2.1 Presence Member

The Presence Member screen shows the counts of presence members that are registered in the Presence window for each UCS Client. The display can be for all users or searched for a specific user.



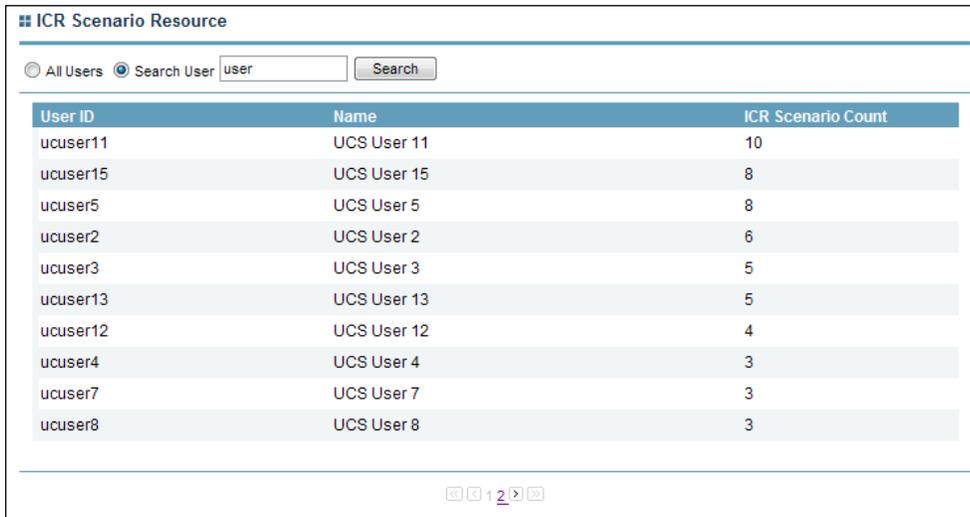
The screenshot shows the 'Presence Member' interface. At the top, there are radio buttons for 'All Users' and 'Search User', followed by a search input field containing 'user' and a 'Search' button. Below this is a table with four columns: 'User ID', 'Name', 'Presence Member Count', and 'Blocked Member Count'. The table lists 13 users, sorted by their presence member count in descending order. At the bottom of the table, there are navigation icons and a page number '12'.

User ID	Name	Presence Member Count	Blocked Member Count
ucuser9	UCS User 9	55	1
ucuser10	UCS User 10	17	
ucuser5	UCS User 5	16	
ucuser11	UCS User 11	12	
ucuser6	UCS User 6	10	
ucuser4	UCS User 4	10	
ucuser1	UCS User 1	10	
ucuser13	UCS User 13	9	
ucuser2	UCS User 2	9	
ucuser8	UCS User 8	8	

- Information is arranged in order by the Presence Member Count column.

6.9.2.2 ICR Scenario

The ICR Scenario screen shows the number of ICR scenarios that are registered for each UCS Client. The display can be for all users or searched for a specific user.

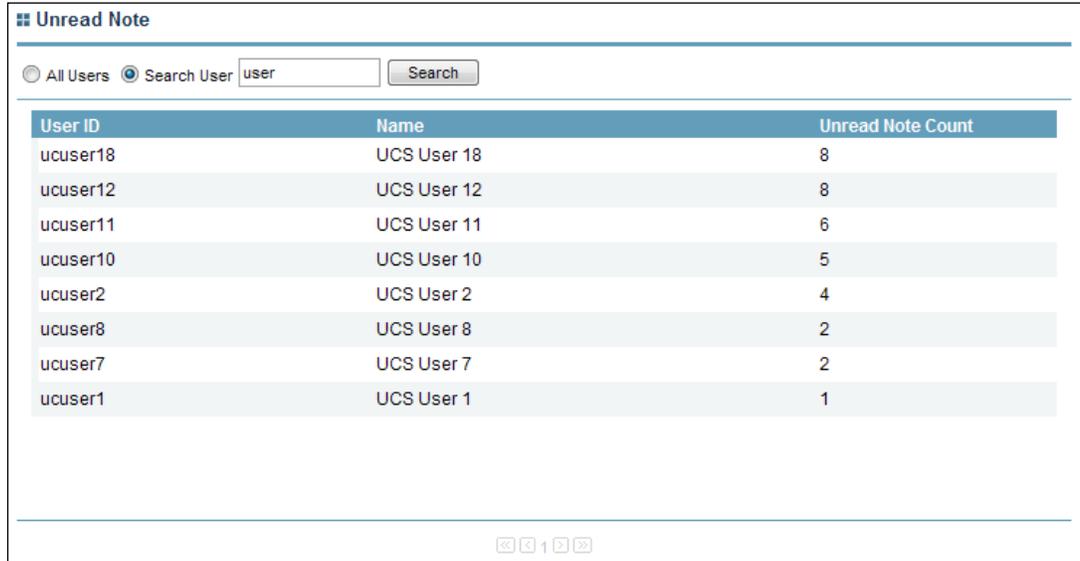


The screenshot shows the 'ICR Scenario Resource' interface. At the top, there are radio buttons for 'All Users' and 'Search User', followed by a search input field containing 'user' and a 'Search' button. Below this is a table with three columns: 'User ID', 'Name', and 'ICR Scenario Count'. The table lists 11 users, sorted by their ICR scenario count in descending order. At the bottom of the table, there are navigation icons and a page number '12'.

User ID	Name	ICR Scenario Count
ucuser11	UCS User 11	10
ucuser15	UCS User 15	8
ucuser5	UCS User 5	8
ucuser2	UCS User 2	6
ucuser3	UCS User 3	5
ucuser13	UCS User 13	5
ucuser12	UCS User 12	4
ucuser4	UCS User 4	3
ucuser7	UCS User 7	3
ucuser8	UCS User 8	3

6.9.2.3 Unread Note

The Unread Note screen shows the number of the unread notes for each UCS Client. The display can be for all users or searched for a specific user.

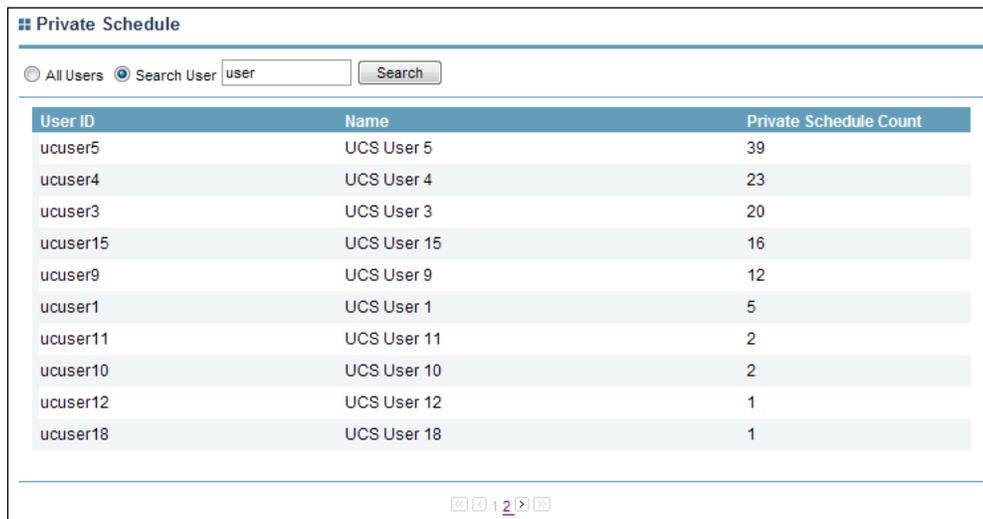


The screenshot shows the 'Unread Note' interface. At the top, there are two radio buttons: 'All Users' (unselected) and 'Search User' (selected). Next to 'Search User' is a text input field containing 'user' and a 'Search' button. Below this is a table with three columns: 'User ID', 'Name', and 'Unread Note Count'. The table lists 9 users with their respective IDs, names, and unread note counts. At the bottom of the table, there are navigation icons: a left arrow, a right arrow, and the number '1'.

User ID	Name	Unread Note Count
ucuser18	UCS User 18	8
ucuser12	UCS User 12	8
ucuser11	UCS User 11	6
ucuser10	UCS User 10	5
ucuser2	UCS User 2	4
ucuser8	UCS User 8	2
ucuser7	UCS User 7	2
ucuser1	UCS User 1	1

6.9.2.4 Private Schedule

The Private Schedule screen shows the number of schedules registered by each UCS Client. The display can be for all users or searched for a specific user.

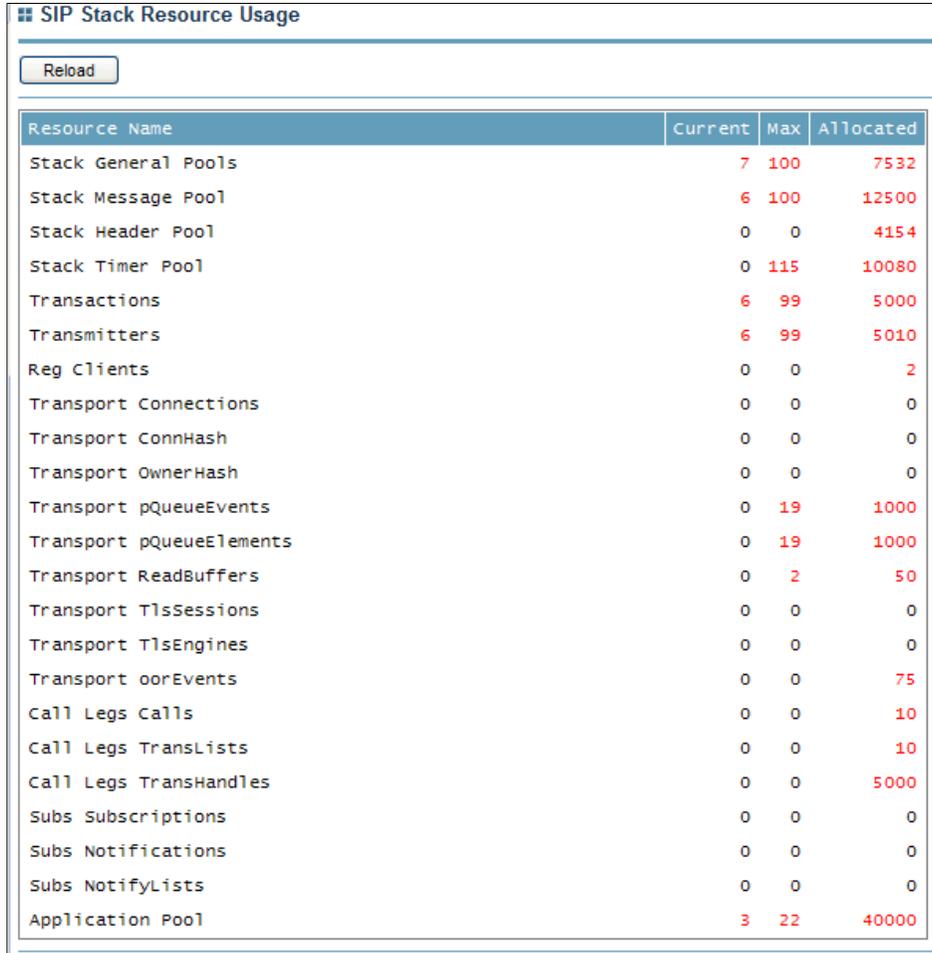


The screenshot shows the 'Private Schedule' interface. At the top, there are two radio buttons: 'All Users' (unselected) and 'Search User' (selected). Next to 'Search User' is a text input field containing 'user' and a 'Search' button. Below this is a table with three columns: 'User ID', 'Name', and 'Private Schedule Count'. The table lists 12 users with their respective IDs, names, and private schedule counts. At the bottom of the table, there are navigation icons: a left arrow, a right arrow, and the number '2'.

User ID	Name	Private Schedule Count
ucuser5	UCS User 5	39
ucuser4	UCS User 4	23
ucuser3	UCS User 3	20
ucuser15	UCS User 15	16
ucuser9	UCS User 9	12
ucuser1	UCS User 1	5
ucuser11	UCS User 11	2
ucuser10	UCS User 10	2
ucuser12	UCS User 12	1
ucuser18	UCS User 18	1

6.9.2.5 SIP Stack

The SIP Stack Resource Usage screen shows a count of use for each SIP resource. This screen is useful to troubleshoot SIP protocol issues between Gateway server and clients.



Resource Name	Current	Max	Allocated
Stack General Pools	7	100	7532
Stack Message Pool	6	100	12500
Stack Header Pool	0	0	4154
Stack Timer Pool	0	115	10080
Transactions	6	99	5000
Transmitters	6	99	5010
Reg Clients	0	0	2
Transport Connections	0	0	0
Transport ConnHash	0	0	0
Transport OwnerHash	0	0	0
Transport pQueueEvents	0	19	1000
Transport pQueueElements	0	19	1000
Transport ReadBuffers	0	2	50
Transport TlsSessions	0	0	0
Transport TlsEngines	0	0	0
Transport oorEvents	0	0	75
Call Legs Calls	0	0	10
Call Legs TransLists	0	0	10
Call Legs TransHandles	0	0	5000
Subs Subscriptions	0	0	0
Subs Notifications	0	0	0
Subs NotifyLists	0	0	0
Application Pool	3	22	40000

- Property items
 - **Stack General Pools:** General Pools of SIP Stack module
 - **Stack Message Pool:** Message Pools of SIP Stack module
 - **Stack Header Pool:** Header Pools of SIP Stack module
 - **Stack Timer Pool:** Timer Pools of SIP Stack module
 - **Transactions:** Transaction module
 - **Transmitters:** Transmitter module
 - **Reg Clients:** Registered Client module
 - **Transport Connections:** Connection resources of the Transport module
 - **Transport ConnHash:** ConnHash resources of the Transport module
 - **Transport OwnerHash:** OwnerHash resources of the Transport module

- **Transport pQueueEvents:** pQueueEvents resources of the Transport module
- **pQueueElements:** pQueueElements resources of the Transport module
- **Transport ReadBuffers:** ReadBuffers resources of the transport module
- **Transport TlsSessions:** TlsSessions resources of the transport module
- **Transport TlsEngines:** TlsEngines resources of the transport module
- **Transport oorEvents:** oorEvents resources of the transport module
- **CallLegs Calls:** Calls resource of the Call module
- **CallLegsTransLists:** TransLists resource of the Call module
- **CallLegsTransHandles:** TransHandles resource of the Call module
- **Subs Subscriptions:** Subscription resource of the Subscription module
- **Subs Notifications:** Notification resource for the Subscription module
- **Subs NotifyLists:** Notifylist resource of the Subscription module
- **Application Pool:** Resource of Application module

6.9.3 Statistics

iPECS UCS provides statistical information for services (call, chatting, desktop sharing, etc.) and malfunctions. To use statistics, the default usage of 'Statistics Operation' must be 'Yes' in **6.6.1 Properties**.

6.9.3.1 Warning

The Warning Statistics screen shows the number of warning events that occur in the UCS Server daily or monthly.

- You can select to view All Users or Selected User data as well as daily or monthly information.
- In the daily display, data is arranged hourly and in the monthly display, data is arranged daily.
- In addition, if Hide rows with no data are selected, the applicable rows are not displayed.

All Users/Daily

Warning Statistics														
<input checked="" type="radio"/> All Users <input type="radio"/> Search User														
<input checked="" type="radio"/> Daily <input type="radio"/> Monthly 2008-04-08 <input type="button" value="Query"/> <input checked="" type="checkbox"/> Hide rows that have no data														
Time	1002	1003	1102	1202	1203	1301	1302	1305	1501	1601	1602	1701	1702	Total
00:00 ~ 01:00	0	0	0	0	0	8	4	0	0	0	0	0	0	12
01:00 ~ 02:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
09:00 ~ 10:00	0	0	0	0	0	0	2	0	0	0	0	0	0	2
10:00 ~ 11:00	0	0	0	0	0	4	0	1	0	0	0	0	0	5
11:00 ~ 12:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
12:00 ~ 13:00	0	0	1	0	0	1	1	0	0	0	0	0	0	3
13:00 ~ 14:00	0	0	1	0	0	0	0	7	0	0	0	0	0	8
14:00 ~ 15:00	0	0	2	0	0	2	3	0	0	0	0	0	0	7
15:00 ~ 16:00	0	0	3	0	0	2	2	1	0	0	0	1	6	15
16:00 ~ 17:00	0	0	0	0	0	5	4	1	0	0	0	8	8	26
17:00 ~ 18:00	0	0	2	0	0	3	2	3	0	0	0	3	6	19
18:00 ~ 19:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
19:00 ~ 20:00	0	0	0	0	0	4	0	0	0	0	0	0	0	4
21:00 ~ 22:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Total	0	0	9	0	0	33	18	13	0	0	0	12	20	105

All Users/Monthly

Warning Statistics

All Users Search User

Daily Monthly 2008-04-08 Hide rows that have no data

Day	1002	1003	1102	1202	1203	1301	1302	1305	1501	1601	1602	1701	1702	Total
1	0	0	5	0	0	10	10	0	0	0	0	0	0	25
2	0	3	38	9	0	4	4	20	0	0	0	21	0	99
3	0	0	20	19	0	3	5	16	0	0	0	24	0	87
4	0	0	1	0	0	11	5	0	0	0	0	1	2	20
6	0	0	1	0	0	17	16	1	0	0	0	2	0	37
7	1	1	2	0	0	15	22	8	0	0	0	2	0	51
8	0	0	9	0	0	33	18	13	0	0	0	12	20	105
9	0	0	6	0	0	0	2	0	0	0	0	7	6	21
10	0	0	2	0	0	3	5	2	0	0	0	0	0	12
11	0	2	3	0	0	0	0	1	0	0	0	0	0	6
14	0	0	1	0	0	5	1	1	0	0	0	59	0	67
15	0	0	3	0	0	0	2	1	0	0	0	4	0	10
16	0	0	5	0	0	0	2	2	0	0	0	2	9	20
Total	1	6	96	28	0	101	92	65	0	0	0	134	37	560

Searched User/Monthly

Warning Statistics

All Users Search User UCS User 1(ucuser1)

Daily Monthly 2008-04-08 Hide rows that have no data

Day	1002	1003	1102	1202	1203	1301	1302	1305	1501	1601	1602	1701	1702	Total
4	0	0	0	0	0	0	1	0	0	0	0	1	0	2
7	0	0	0	0	0	0	1	0	0	0	0	0	0	1
14	0	0	0	0	0	0	1	0	0	0	0	0	0	1
15	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	4	0	0	0	0	1	0	5

► **Export:** exports queried data to CSV formatted document.

The figure below is the screenshot of the exported CSV document shown in spreadsheet format.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Daily : 2008-04-08 : All Users															
2	Time	1002	1003	1102	1202	1203	1301	1302	1305	1501	1601	1602	1701	1702	Total	
3	00:00 ~ 01:00	0	0	0	0	0	8	4	0	0	0	0	0	0	12	
4	01:00 ~ 02:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
5	02:00 ~ 03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	03:00 ~ 04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	04:00 ~ 05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	05:00 ~ 06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	06:00 ~ 07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	07:00 ~ 08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	08:00 ~ 09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	09:00 ~ 10:00	0	0	0	0	0	0	2	0	0	0	0	0	0	2	
13	10:00 ~ 11:00	0	0	0	0	0	4	0	1	0	0	0	0	0	5	
14	11:00 ~ 12:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
15	12:00 ~ 13:00	0	0	1	0	0	1	1	0	0	0	0	0	0	3	
16	13:00 ~ 14:00	0	0	1	0	0	0	7	0	0	0	0	0	0	8	
17	14:00 ~ 15:00	0	0	2	0	0	2	3	0	0	0	0	0	0	7	
18	15:00 ~ 16:00	0	0	3	0	0	2	2	1	0	0	0	1	6	15	
19	16:00 ~ 17:00	0	0	0	0	0	5	4	1	0	0	0	8	8	26	
20	17:00 ~ 18:00	0	0	2	0	0	3	2	3	0	0	0	3	6	19	
21	18:00 ~ 19:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
22	19:00 ~ 20:00	0	0	0	0	0	4	0	0	0	0	0	0	0	4	
23	20:00 ~ 21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	21:00 ~ 22:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
25	22:00 ~ 23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	23:00 ~ 24:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	Total	0	0	9	0	0	33	18	13	0	0	0	12	20	105	
28																
29																

6.9.3.2 Call

The Call Statistics screen shows the call log for each UCS Client on daily or monthly basis.

- You can select to view All Users or Selected User data as well as daily or monthly information.
- In the daily display, data is arranged hourly and in the monthly display, data is arranged daily.
- In addition, if 'Hide rows that have no data' is selected, the applicable rows are not displayed.

All Users/Daily

Call Statistics

All Users Search User

Daily Monthly 2008-04-08 Hide rows that have no data

Time	Incoming	Outgoing	Conference	Missed Call	Total
08:00 ~ 09:00	3	7	0	3	13
09:00 ~ 10:00	1	0	0	0	1
10:00 ~ 11:00	2	2	0	1	5
14:00 ~ 15:00	0	3	9	2	14
15:00 ~ 16:00	1	0	6	0	7
16:00 ~ 17:00	0	0	6	0	6
17:00 ~ 18:00	1	23	3	0	27
18:00 ~ 19:00	10	10	0	0	20
19:00 ~ 20:00	28	29	0	1	58
20:00 ~ 21:00	15	15	0	0	30
Total	61	89	24	7	181

All Users/Monthly

Call Statistics

All Users Search User

Daily Monthly 2008-04-08 Hide rows that have no data

Day	Incoming	Outgoing	Conference	Missed Call	Total
1	5	8	0	3	16
2	8	63	16	6	93
3	12	40	0	12	64
4	3	20	0	17	40
6	10	20	0	1	31
7	6	16	0	5	27
8	61	89	24	7	181
9	1	2	4	4	11
10	4	4	0	0	8
14	13	17	1	4	35
15	1	6	0	5	12
Total	124	285	45	64	518

6.9.3.3 Feature Usage

The Feature Usage Statistics screen shows the number of times each feature was used on a daily or monthly basis.

- You can select to view All Users or Search User data as well as daily or monthly information.
- In the daily display, data is arranged hourly and in the monthly display, data is arranged daily.
- In addition, if 'Hide rows that have no data' is selected, the applicable rows are not displayed.

All Users/Daily

Feature Usage Statistics

All Users Search User

Daily Monthly 2008-04-08 Hide rows that have no data

Time	IM	Sharing	File Send	web Push	Video	Total
00:00 ~ 01:00	129	6	0	0	0	135
01:00 ~ 02:00	2	0	0	0	0	2
08:00 ~ 09:00	10	2	1	3	2	18
09:00 ~ 10:00	63	0	9	0	2	74
10:00 ~ 11:00	66	0	4	2	4	76
11:00 ~ 12:00	6	0	0	0	0	6
12:00 ~ 13:00	0	0	0	0	4	4
13:00 ~ 14:00	2	0	0	0	0	2
14:00 ~ 15:00	10	0	0	0	0	10
15:00 ~ 16:00	4	12	0	0	0	16
16:00 ~ 17:00	18	0	0	0	0	18
17:00 ~ 18:00	20	0	0	0	0	20
18:00 ~ 19:00	16	0	0	0	14	30
19:00 ~ 20:00	63	0	0	0	54	117
20:00 ~ 21:00	30	0	0	0	30	60
Total	439	20	14	5	110	588

All Users/Monthly

Feature Usage Statistics

All Users Search User

Daily Monthly 2008-04-08 Hide rows that have no data

Day	IM	Sharing	File Send	web Push	Video	Total
1	10	2	6	8	41	67
2	10	8	12	7	10	47
3	4	2	0	0	4	10
4	62	0	90	0	52	204
6	78	8	26	305	18	435
7	163	6	16	9	4	198
8	439	20	14	5	110	588
10	260	0	4	0	19	283
14	10	6	0	1	8	25
15	4	2	2	0	0	8
16	2	0	1	0	1	4
Total	1042	54	171	335	267	1869

6.9.3.4 ICR Result

The ICR Result Statistics screen shows the number of incoming calls routed with ICR and the routing result on daily or monthly basis.

- You can select to view All Users or Search User data as well as daily or monthly information.
- In the daily display, data is arranged hourly and in the monthly display, data is arranged daily.
- In addition, if 'Hide rows that have no data' is selected, the applicable rows are not displayed.

All Users/Daily

ICR Result Statistics

All Users Search User

Daily Monthly 2008-04-08 Hide rows that have no data

Time	Success	Failure	Incoming
08:00 ~ 09:00	1	0	1
13:00 ~ 14:00	9	0	11
14:00 ~ 15:00	9	0	9
Total	19	0	21

All Users/Monthly

ICR Result Statistics

All Users Search User

Daily Monthly 2008-04-08 Hide rows that have no data

Day	Success	Failure	Incoming
2	10	9	19
3	6	19	28
7	1	0	1
8	19	0	21
Total	36	28	69

6.9.3.5 Login Count

The Login Count Statistics screen shows the number of times each UCS Client has attempted to login on a daily or monthly basis.

- You can select to view All Users or selected User data.

Searched User/Monthly

Login Count Statistics							
<input type="radio"/> All Users	<input checked="" type="radio"/> Search User	<input type="text" value="user"/>	<input type="button" value="Search"/>	<input type="radio"/> Daily	<input checked="" type="radio"/> Monthly	<input type="text" value="2008-04-16"/>	<input type="button" value="Query"/>
User ID	Name	Count					
ucuser3	UCS User 3	192					
ucuser15	UCS User 15	134					
ucuser1	UCS User 1	106					
ucuser4	UCS User 4	77					
ucuser9	UCS User 9	62					
ucuser2	UCS User 2	58					
ucuser5	UCS User 5	36					
ucuser13	UCS User 13	33					
ucuser10	UCS User 10	24					
ucuser14	UCS User 14	21					

◀ 1 2 ▶

- Information is arranged in order by login counts.

Chapter 7

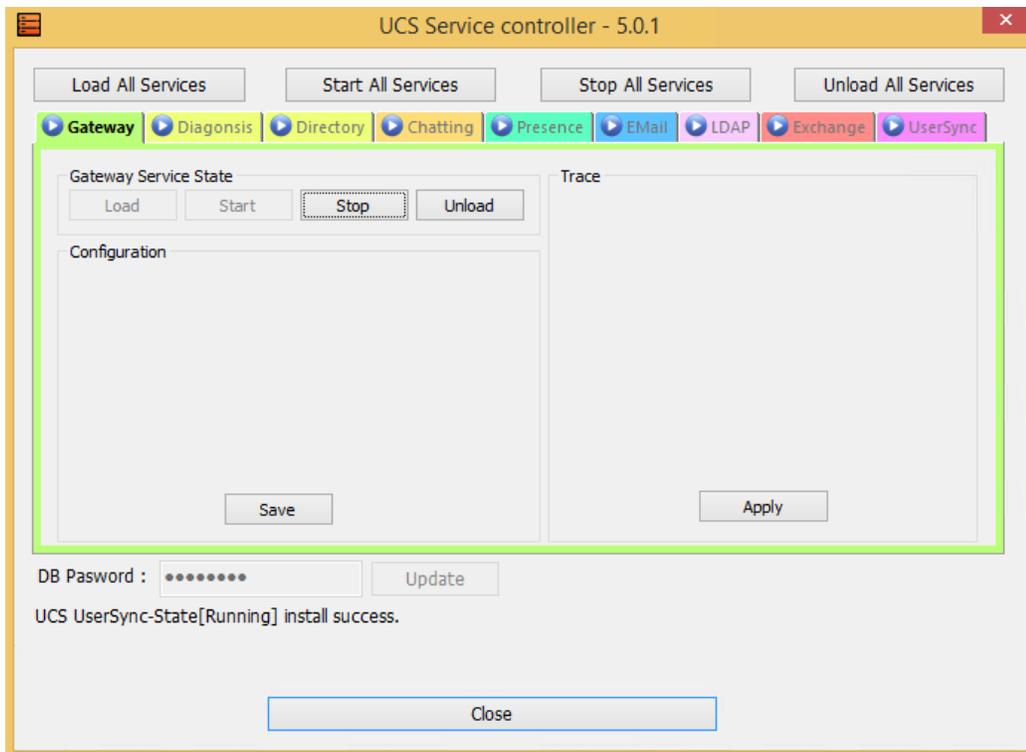
Administration (Service Controller)

The iPECS UCS Server applications are running as a service on Windows. The services are required to register before execution. If services are running, service programs will not stop before stopping and unloading these. And these will keep working after restarting system. The UCS service programs can load/start/stop/unload using the iPECS UCS service controller. Also, each service program can be set trace options and configurations.

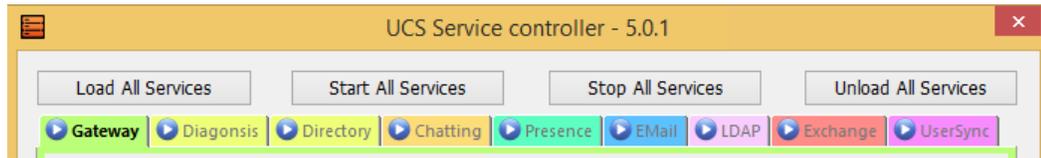
To execute the “iPECS UCS service controller”:

- Click “Launch iPECS UCS Server” icon in Windows wallpaper.
- Select menu in **[Start Menu – All Program– iPECS - UCS Server]**.

Following screen will be shown after execute “Launch iPECS UCS server”.



7.1 Control All services

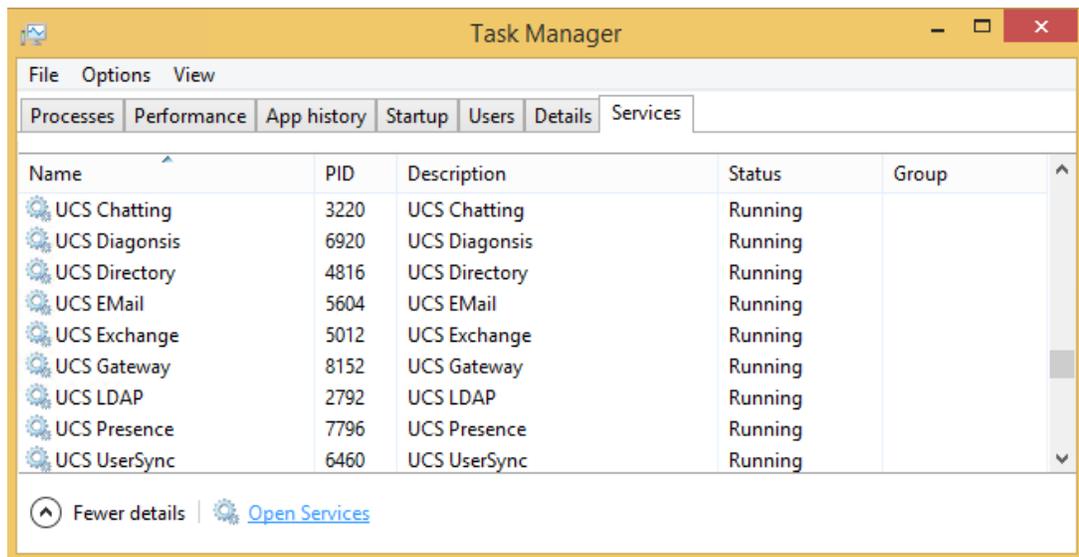


Every tab icon shows the status of each service status.

-  : Run after loading
-  : Stop after loading
-  : Unload

7.1.1 Load All Services

All UCS services are loaded one by one from Gateway service. Loaded services can be shown in the “Windows Task Manager”.



7.1.2 Start All Services

All UCS services are started one by one from Gateway service

7.1.3 Stop All Services

All UCS services are stopped one by one. The Gateway service will stop at the end.

7.1.4 Unload All Services

All UCS services are unloaded one by one. Once all services are unloaded, the UCS services will not be shown in Windows Task Manger.

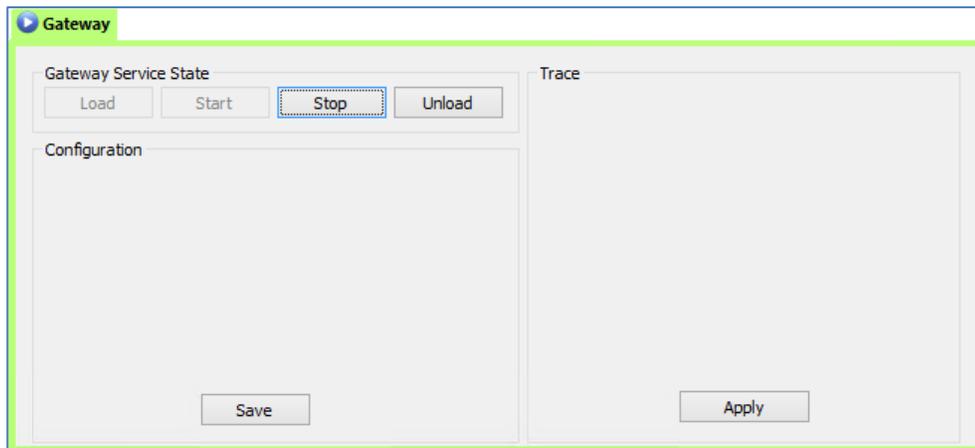
7.2 Control of each Service

Individual Service control tabs have following operations.

- ▶ Load: Register a UCS service program as Windows service.
- ▶ Start: Start service.
- ▶ Stop: Stop service.
- ▶ Unload: unregister a UCS service program from Windows service.

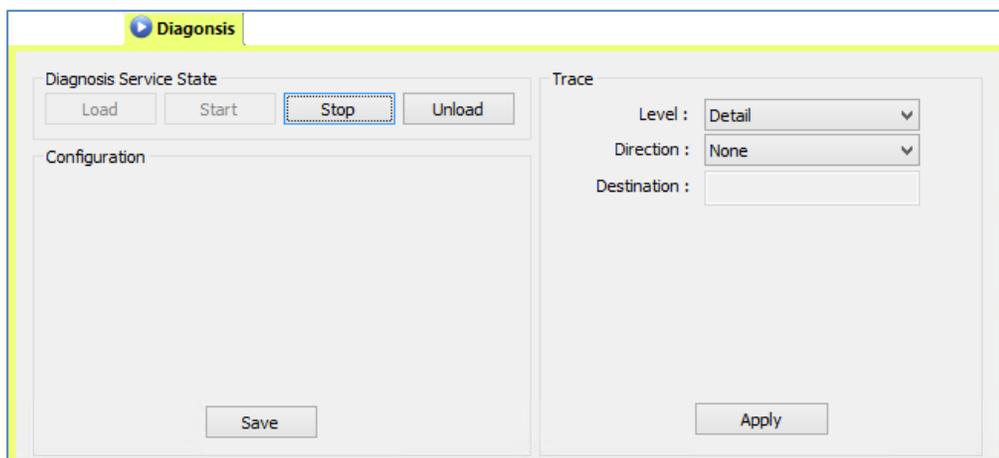
7.2.1 Gateway

The Gateway service transmits SIP (Session Initiation Protocol), TCP (Transmission Control Protocol) and messages between application services and UCS clients. This service depends on PostgreSQL DB service program. If PostgreSQL is not running, the Gateway will not run. The PostgreSQL is installed during UCS server installation and run automatically.



7.2.2 Diagnosis

The Diagnosis service checks other UCS services' connection status and saves their status into the DB. This service depends on the Gateway service.



7.2.3 Directory

The Directory service offers login and user-searching features. This service depends on the Gateway service.

The screenshot shows the 'Directory' configuration window. It features a 'Directory Service State' section with buttons for 'Load', 'Start', 'Stop', and 'Unload'. Below this is a large 'Configuration' area. To the right is a 'Trace' section with dropdown menus for 'Level' (set to 'Detail') and 'Direction' (set to 'None'), and a text field for 'Destination'. An 'Options' section contains checkboxes for 'Server' and 'Client', and a 'Key Value' text field set to '0'. 'Save' and 'Apply' buttons are located at the bottom of the configuration area.

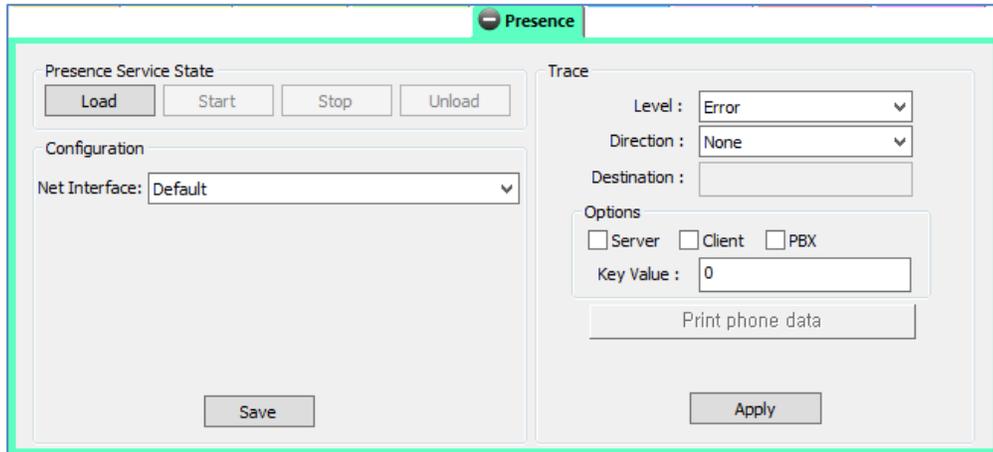
7.2.4 Chatting

The Chatting service has 1:1 chatting and group chatting features to the UCS clients. This service depends on the Gateway service.

The screenshot shows the 'Chatting' configuration window. It features a 'Chatting Service State' section with buttons for 'Load', 'Start', 'Stop', and 'Unload'. Below this is a large 'Configuration' area. To the right is a 'Trace' section with dropdown menus for 'Level' (set to 'Detail') and 'Direction' (set to 'None'), and a text field for 'Destination'. An 'Options' section contains checkboxes for 'Server' and 'Client', and a 'Key Value' text field set to '0'. 'Save' and 'Apply' buttons are located at the bottom of the configuration area.

7.2.5 Presence

The Presence service shows registered member's IM and phone status to each other. Also it communicates with iPECS PBX and provides IMR feature to the UCS client. This service depends on the Gateway service.

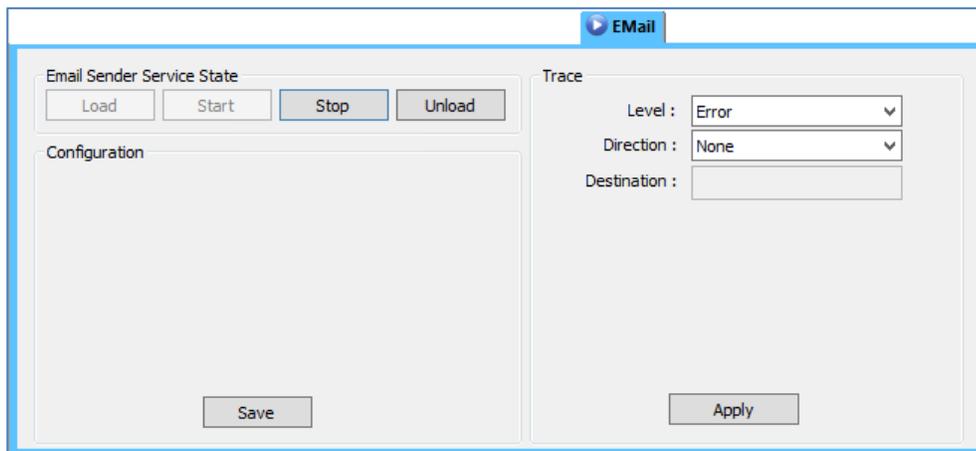


The screenshot shows the 'Presence' configuration window. It is divided into two main sections: 'Presence Service State' and 'Trace'. The 'Presence Service State' section includes buttons for 'Load', 'Start', 'Stop', and 'Unload'. Below this is the 'Configuration' section, which has a 'Net Interface' dropdown menu currently set to 'Default'. At the bottom of this section is a 'Save' button. The 'Trace' section includes dropdown menus for 'Level' (set to 'Error') and 'Direction' (set to 'None'), and a text input for 'Destination'. Below these are 'Options' with checkboxes for 'Server', 'Client', and 'PBX', and a 'Key Value' text input set to '0'. A 'Print phone data' button is located below the 'Options'. At the bottom of the 'Trace' section is an 'Apply' button.

- Configuration
 - **Net Interface:** Select one of network interfaces, which are installed in the PC, to use for Presence service. The default means that the service selects a network interface automatically. If the connection has problem but there is no connection defect factor (Firewall, NAT), select other network interface to solve problem. This feature can be available on unloaded status.

7.2.6 Email Sender

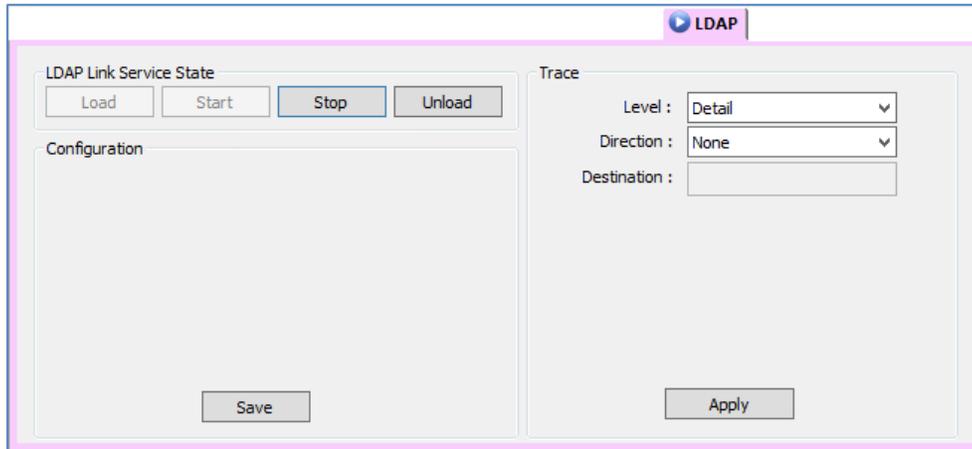
The Email Sender service sends an email about created user account to the email address which is set when account is created. This service depends on the Gateway service.



The screenshot shows the 'Email' configuration window. It is divided into two main sections: 'Email Sender Service State' and 'Trace'. The 'Email Sender Service State' section includes buttons for 'Load', 'Start', 'Stop', and 'Unload'. Below this is the 'Configuration' section, which is currently empty. At the bottom of this section is a 'Save' button. The 'Trace' section includes dropdown menus for 'Level' (set to 'Error') and 'Direction' (set to 'None'), and a text input for 'Destination'. At the bottom of the 'Trace' section is an 'Apply' button.

7.2.7 LDAP Link

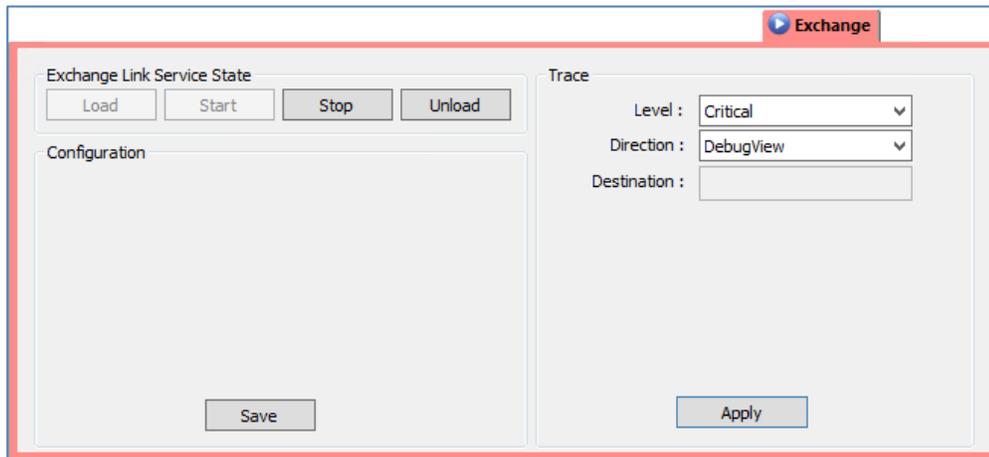
The LDAP Link service provide synchronization feature with other databases (Microsoft Active Directory, ORACLE, MySQL). User information, like name, address etc., will be synchronized. This service depends on the Gateway service.



The screenshot shows the LDAP Link configuration window. At the top right, there is a tab labeled 'LDAP'. The window is divided into two main sections. On the left, under 'LDAP Link Service State', there are four buttons: 'Load', 'Start', 'Stop', and 'Unload'. Below this is a large 'Configuration' area, which is currently empty. At the bottom of this section is a 'Save' button. On the right, under 'Trace', there are three settings: 'Level' set to 'Detail', 'Direction' set to 'None', and 'Destination' which is an empty text box. At the bottom of this section is an 'Apply' button.

7.2.8 Exchange Link

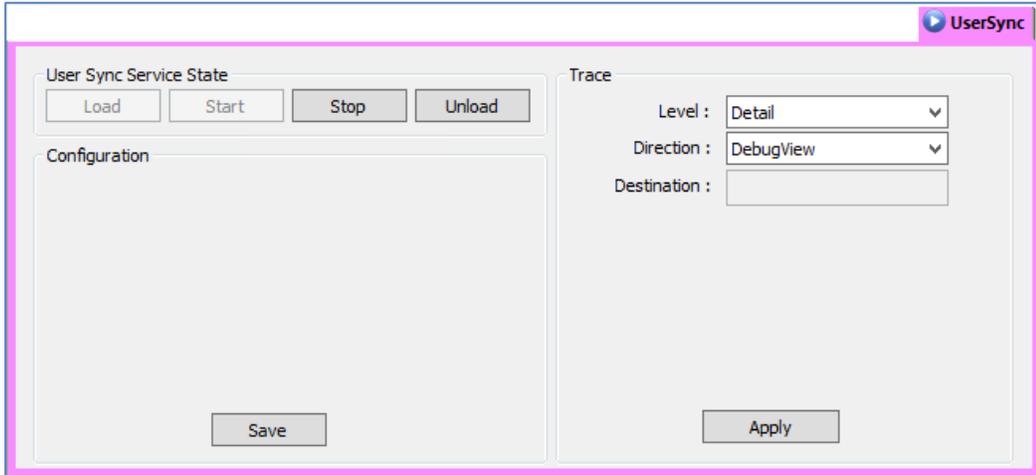
The Exchange Link service provides schedule synchronization from Microsoft Exchange server. User schedules will be synchronized. This service depends on the Gateway service.



The screenshot shows the Exchange Link configuration window. At the top right, there is a tab labeled 'Exchange'. The window is divided into two main sections. On the left, under 'Exchange Link Service State', there are four buttons: 'Load', 'Start', 'Stop', and 'Unload'. Below this is a large 'Configuration' area, which is currently empty. At the bottom of this section is a 'Save' button. On the right, under 'Trace', there are three settings: 'Level' set to 'Critical', 'Direction' set to 'DebugView', and 'Destination' which is an empty text box. At the bottom of this section is an 'Apply' button.

7.2.9 User Sync

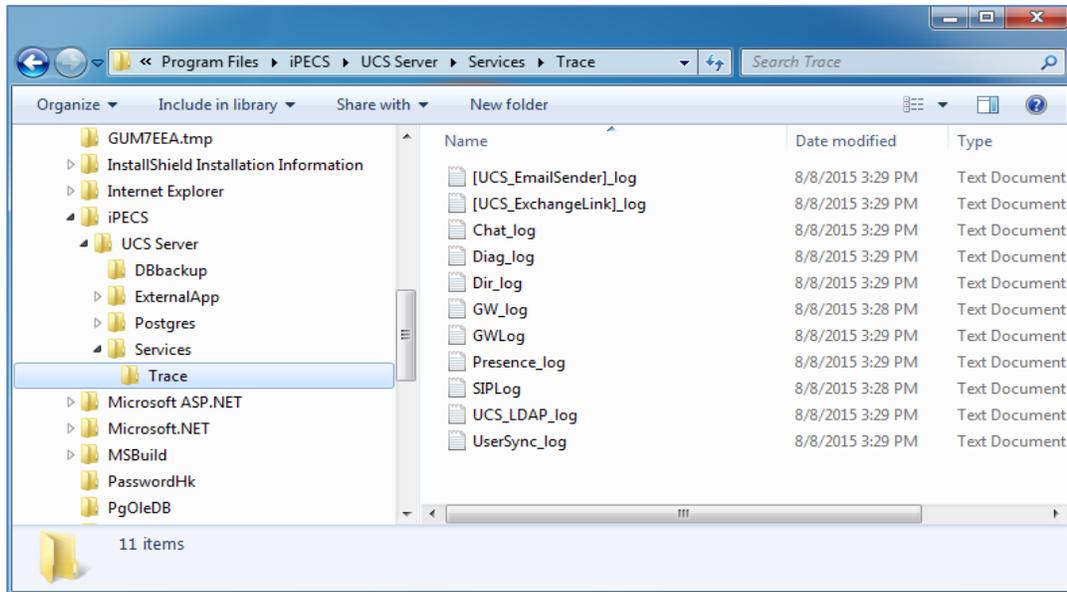
The User sync service can synchronize users' password from Microsoft Active Directory server. If the UCS user and AD user have same ID, password will be synchronized. This service depends on the Gateway service.



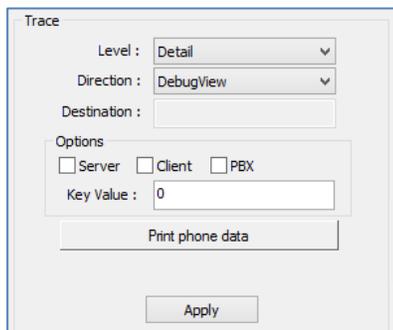
The screenshot shows the 'UserSync' configuration window. It is divided into two main sections: 'User Sync Service State' and 'Trace'. The 'User Sync Service State' section contains four buttons: 'Load', 'Start', 'Stop', and 'Unload'. Below these buttons is a large, empty 'Configuration' text area with a 'Save' button at the bottom. The 'Trace' section contains three controls: a 'Level' dropdown menu set to 'Detail', a 'Direction' dropdown menu set to 'DebugView', and a 'Destination' text input field. An 'Apply' button is located at the bottom of the 'Trace' section. The window title bar includes a play icon and the text 'UserSync'.

7.3 Trace files

Trace files are created using each service names under “Services\Trace” in the UCS installed directory. If trace data is necessary, iPECS UCS maintenance team will obtain these.



Each service may have following trace settings.



- **Level:** Error (default)
 - **Critical:** Critical level trace data will be printed.
 - **Error:** Critical and Error level trace data will be printed.
 - **Debug:** Critical, Error and Debug level trace data will be printed.
 - **Detail:** All level trace data will be printed.

The relation of the Level is as follows:

Detail ⊃ Debug ⊃ Error ⊃ Critical

- **Direction:** None (default)
 - **None:** Only printing at trace file.
 - **Debugview:** Printing trace data to the Debugview and trace file.

- **Options**
 - **Server:** Trace data, which is transmitted with other services, will be printed.
 - **Client:** Trace data, which is transmitted with clients, will be printed.
 - **PBX:** Trace data, which is transmitted with PBX system, will be printed.
 - **Key Value:** Trace data, which is transmitted with specific client, will be printed.
- **Print phone data:** Whenever pressed, all UCS client status will be printed.

NOTE

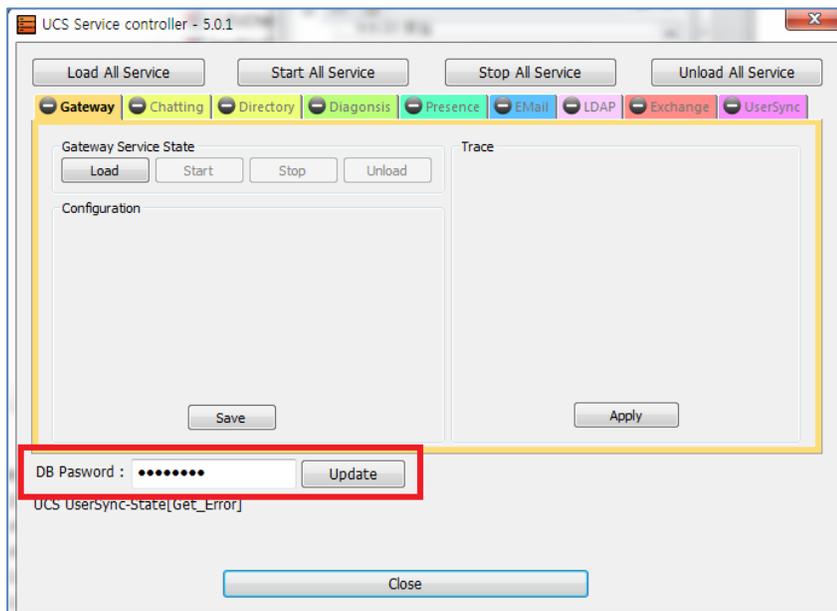
Trace configuration about Gateway is set in web admin. Refer to the 7.1.9.2 SIP Parameter

The Debugview is a tool which can see trace information in real time. This tool can be downloaded from <https://technet.microsoft.com/en-us/library/bb896647.aspx>. If there is an error when downloading, type "Debugview download" in the web search site.

7.4 Change password to Access Database

UCS Service applications save and load UCS data from their database (PostgreSQL). To access the database, UCS Service applications must know the password of the database (PostgreSQL) user.

If the database password is changed, changing value must be set in UCS Service applications. To change it, unload all services and type password in password edit box. The password box will be activated after unloading all services.



Upgrade and Uninstallation

8.1 Upgrade

iPECS UCS Server supports upgrading to the latest version. To do an upgrade, all UCS Server service applications must be unloaded from service list. To do an upgrade from UCS P4 to P5, all UCS Server applications must be shut down.

8.1.1 Upgrade from UCS P4 to P5

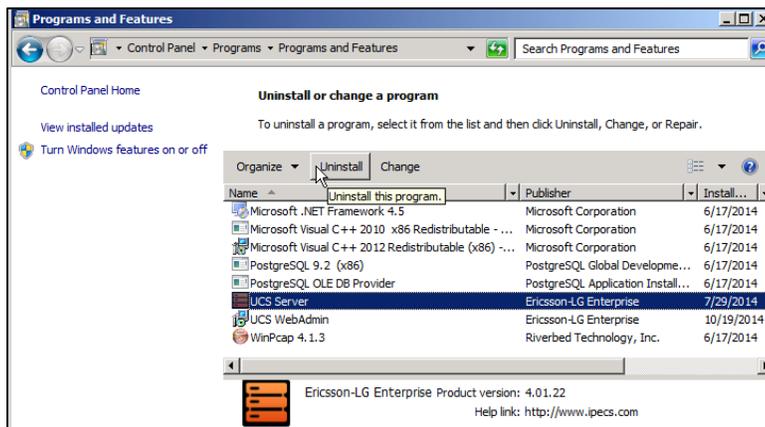
Upgrading iPECS UCS Server from P4 to P5 is a multi-step process. Failure to follow the step-by-step process may result in failure of the iPECS UCS Server installation.



CAUTION

Upgrading iPECS UCS Server from P4 to P5 is only available up to UCS Server 4.1Ag. iPECS UCS Server is not able to upgrade from P4 to P5 for 4.1Ah and later..

1. Backup UCS Server database file, and save it in another storage device. Refer to **6.1.3.1 Backup Database** for details.
2. Shut down existing iPECS UCS Server.
3. Go to **[Control Panel – Program and Features]**. Uninstall following programs.



- UCS Server
- UCS WebAdmin
- PostgreSQL 9.2

NOTE

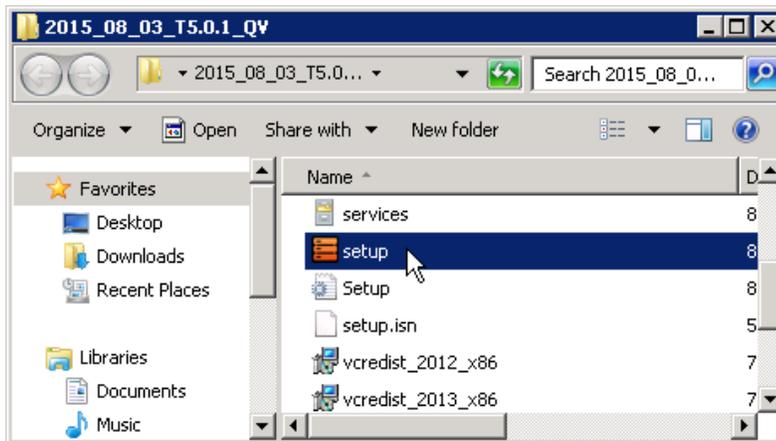
In order to upgrade UCS Server application from P4 to P5 you must first uninstall P4 and install P5. iPECS UCS Server database upgrade from P4 to P5 is supported in process of UCS P5 Server Installation

4. Reboot UCS Server PC.

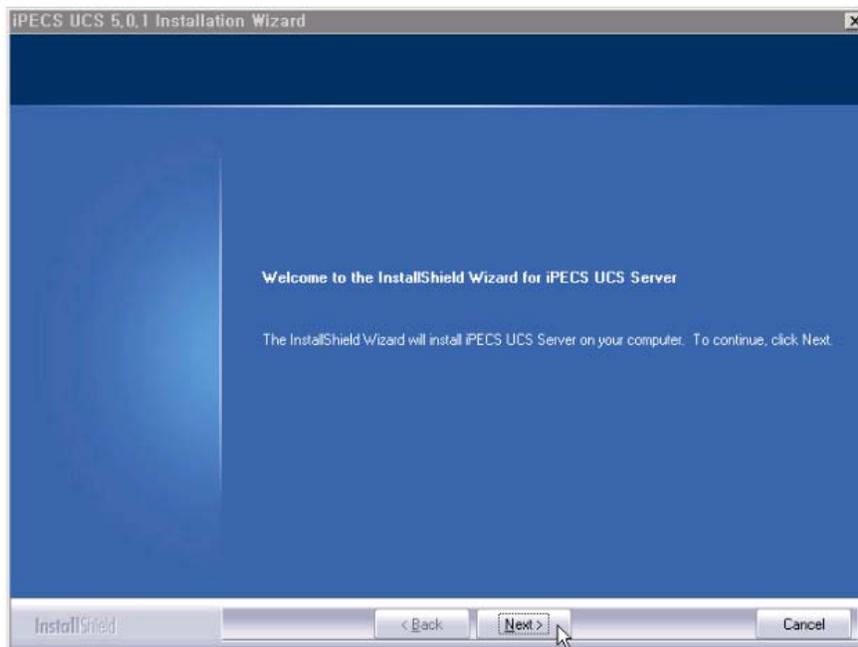
**CAUTION**

iPECS UCS Server PC must be rebooted. If not, UCS P5 Installation will fail.

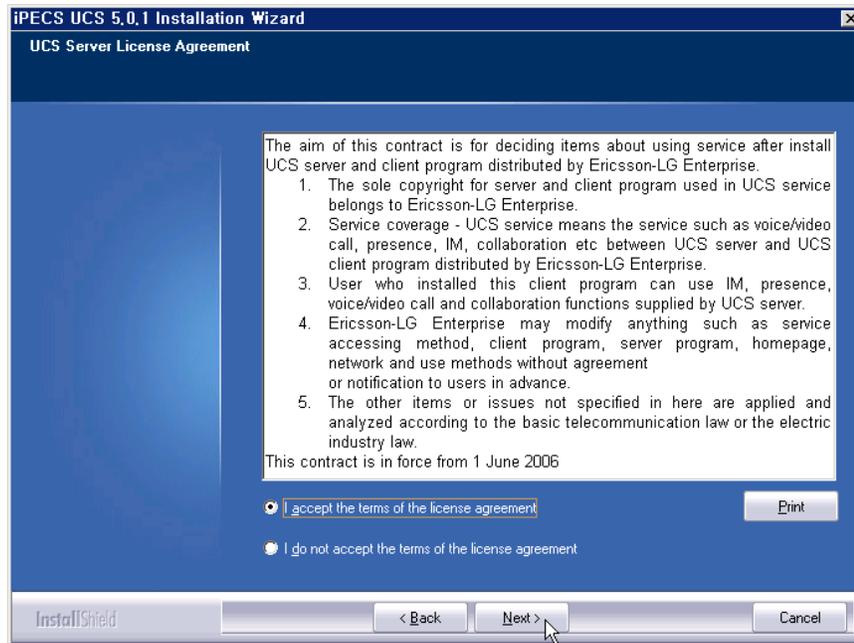
5. Run “setup.exe” in UCS Installation Folder.



6. The display of UCS Server installation is shown as below. Click **[Next]**.



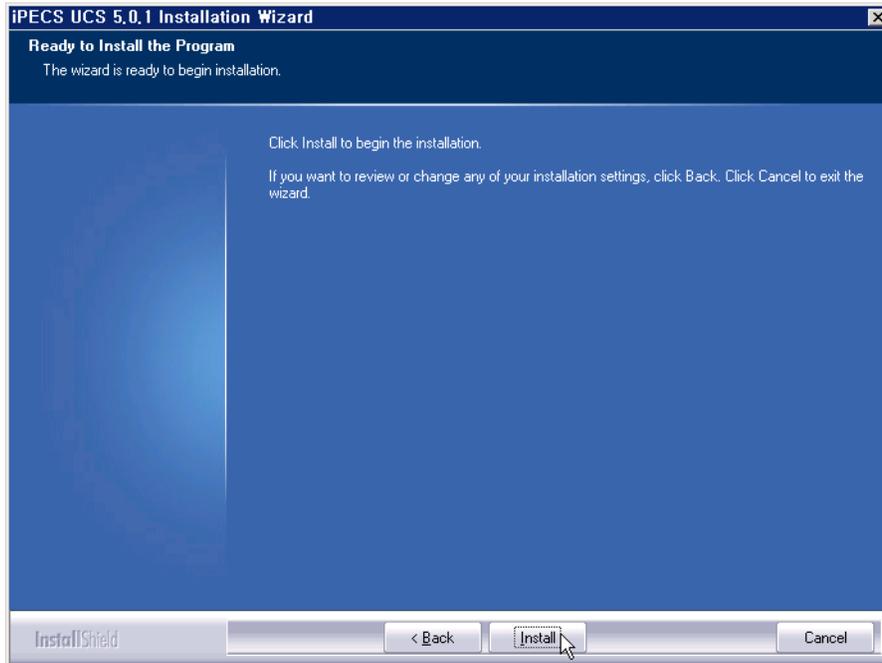
7. The Software License Agreement window appears. Read and accept the license terms then click **[Next]**.



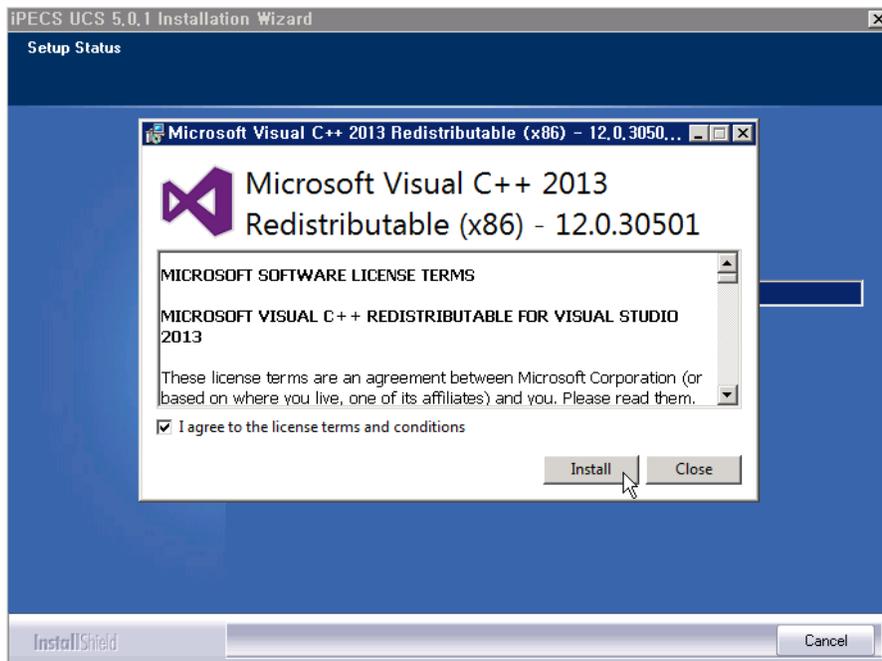
8. Select a Setup Type. If you want to change the setup directory, then select **[Custom]**. Selecting **[Typical]** is recommended. Click **[Next]**.



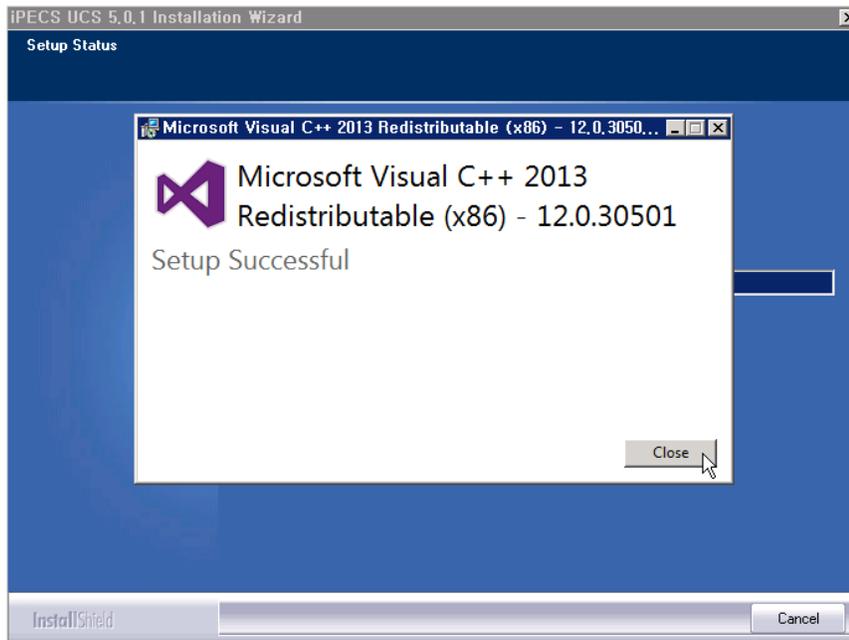
9. Before starting installation of UCS Server applications, review the settings. Click **[Next]**.



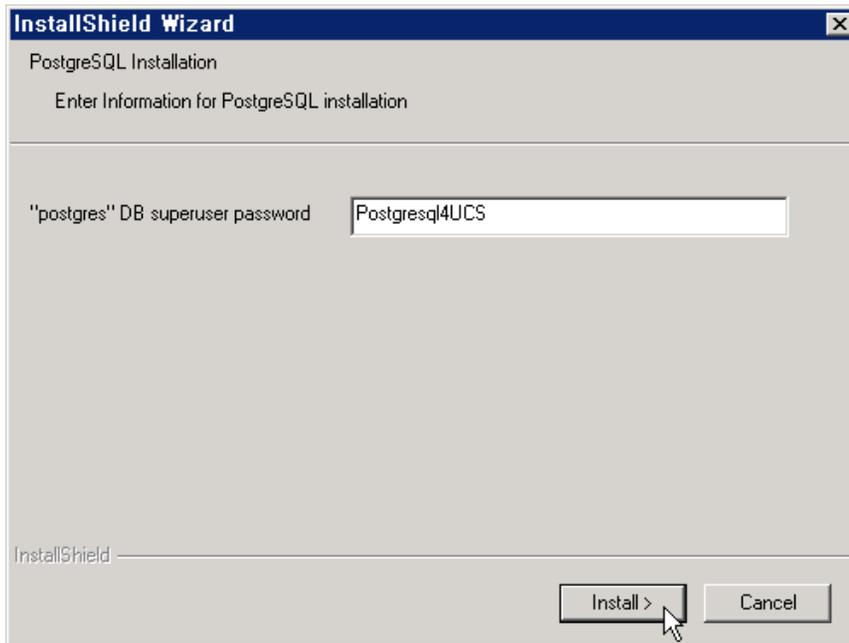
10. After installation of the UCS Server applications, the installation of VC++ 2013 Redistributable (x86) starts. Click **[Install]**.



11. When installation of VC++ 2013 Redistributable (x86) is complete, click **[Close]**.



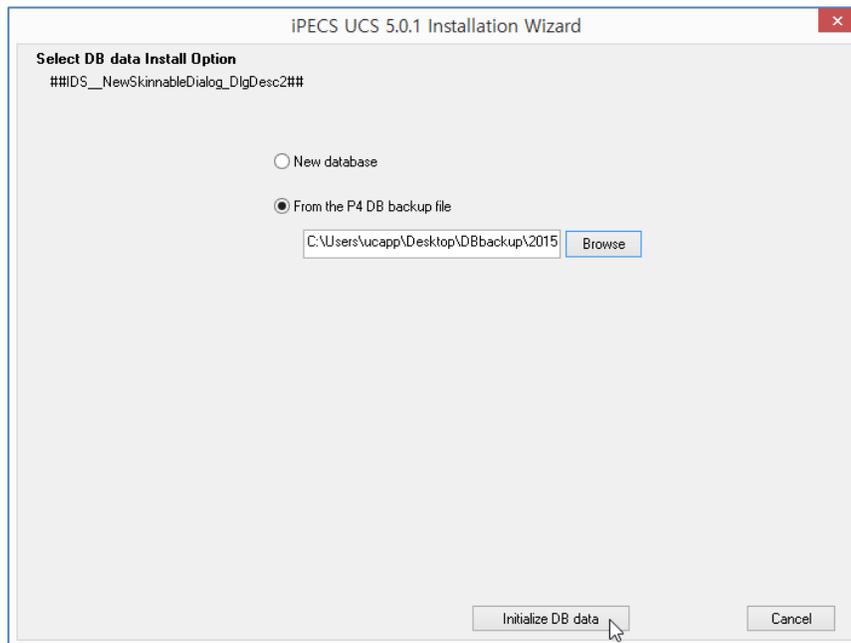
12. In the PostgreSQL Information window, enter a password for UCS database, and click **[Install]**.



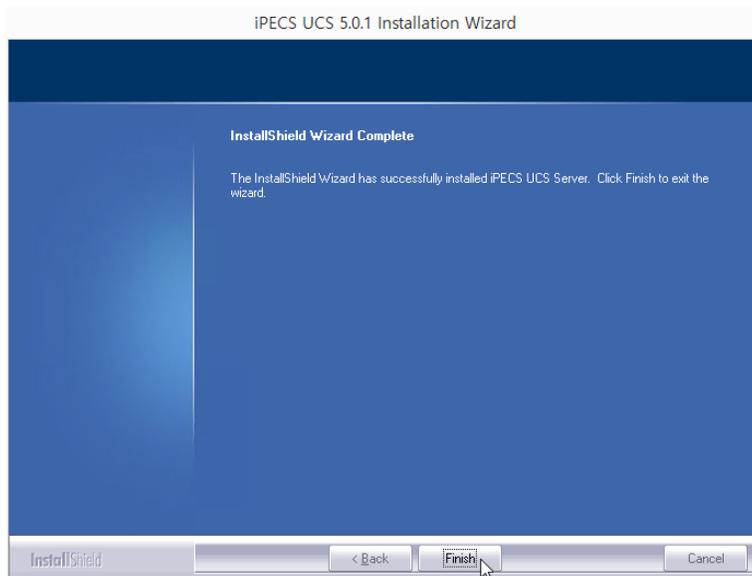
13. Installing postgresQL DBMS.



14. Select “**From the P4 DB backup file**”, then click [Browse]. Select P4 database file backed up in the previous step. Click [**Initialize DB data**].



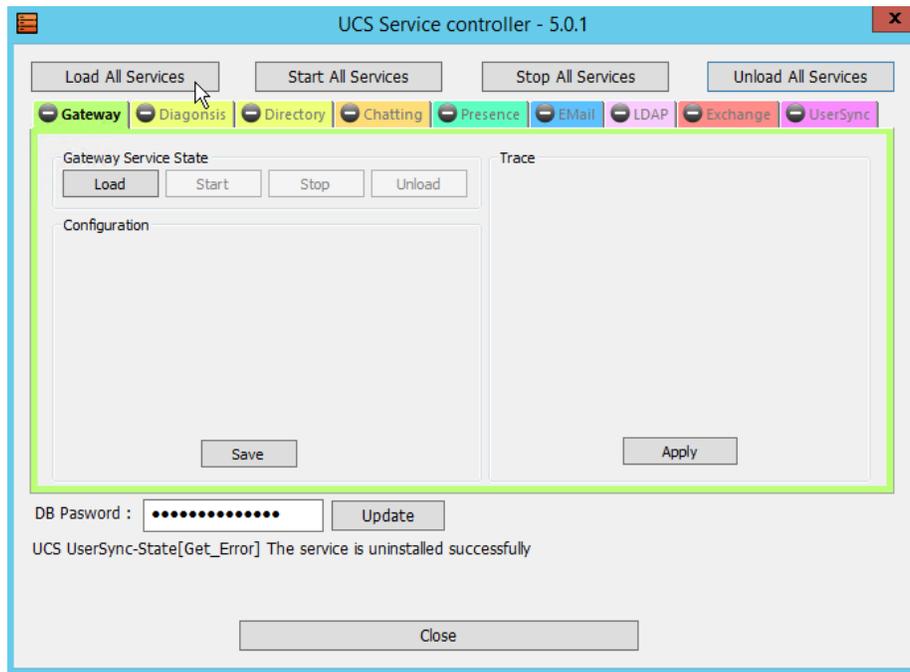
15. The installation of iPECS UCS Server package is complete, click [**Finish**].



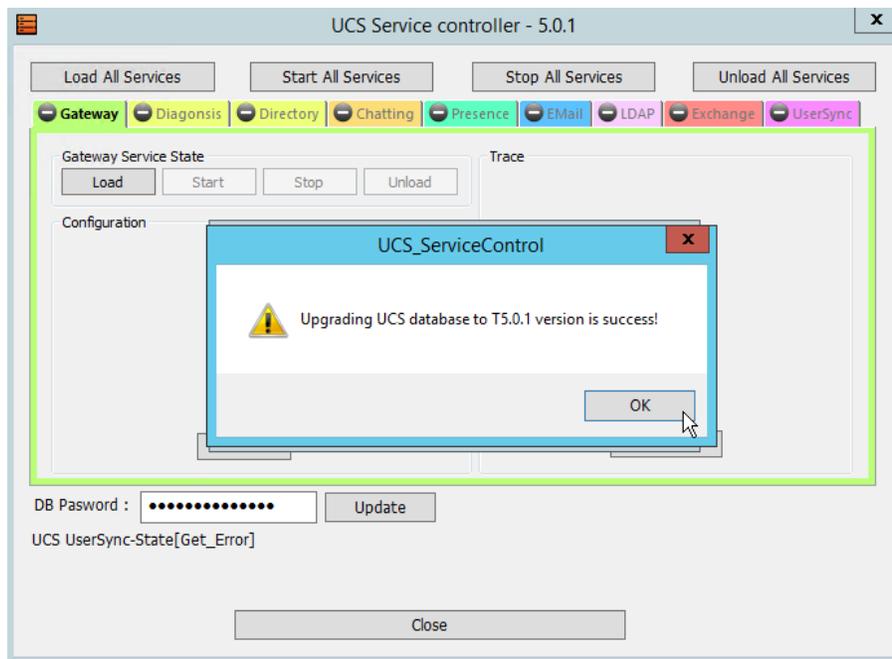
16. After finishing the installation, the UCS Server Manager icon below is shown in Windows wallpaper. Click [**UCS Server Manager**].



17. To finish database upgrade, the UCS Server service applications must be registered as a service of Windows OS. Click **[Load All Service]**.



18. After loading all services, the database upgrade is complete. Click **[OK]**.

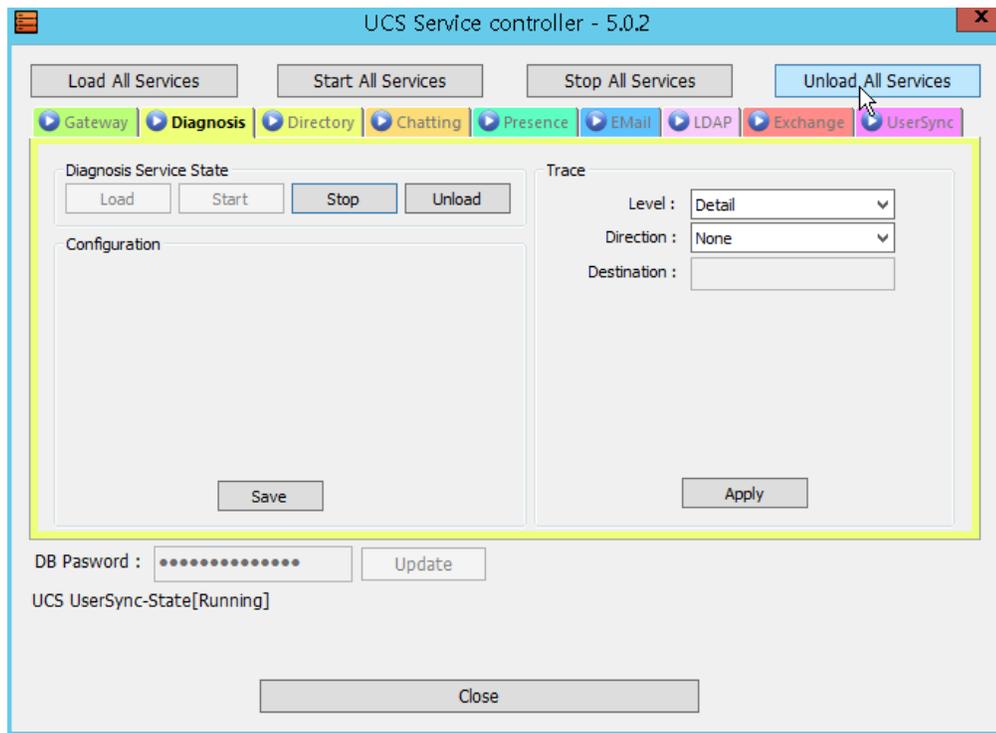


19. The services must be started. Click **[Start All Services]**. The upgrade is finished.

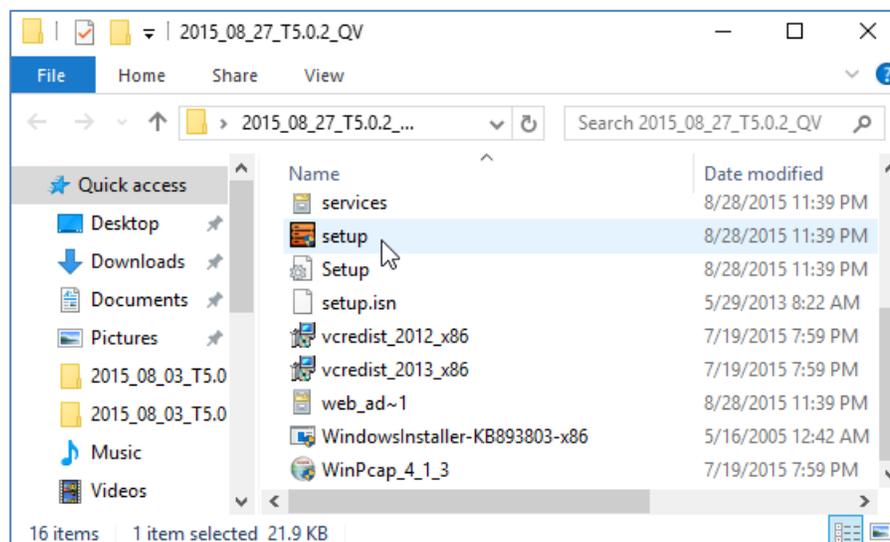
8.1.2 UCS P5 Version Upgrade

If a previous version of iPECS UCS Server is installed, upgrade of iPECS UCS Server is required. At this time, you must unload all the existing iPECS UCS Server Services.

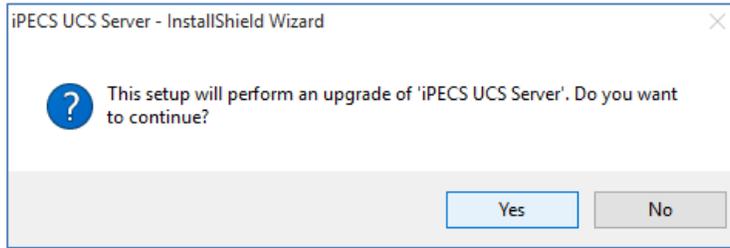
1. Unload all iPECS UCS Server services. Click **[Unload All Services]**



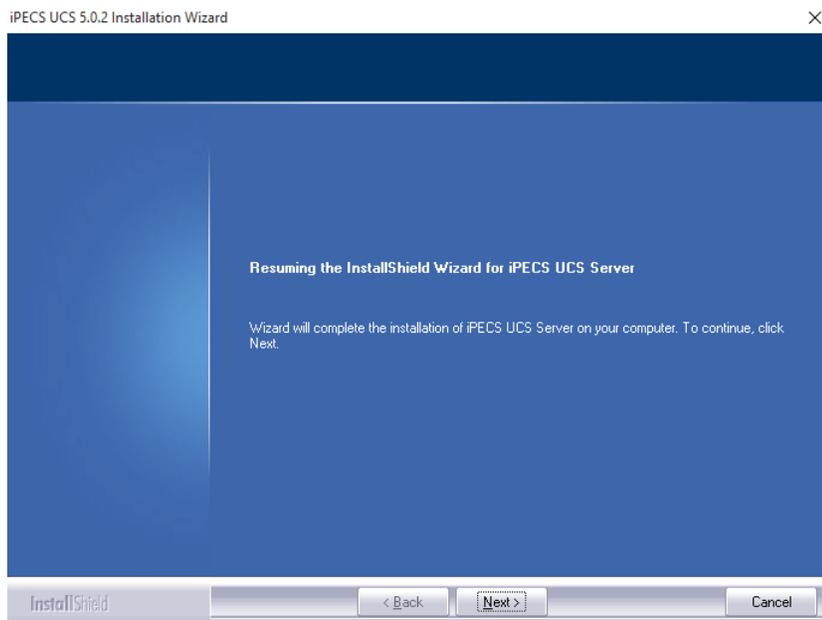
2. Run "setup.exe" in UCS Installation Folder.



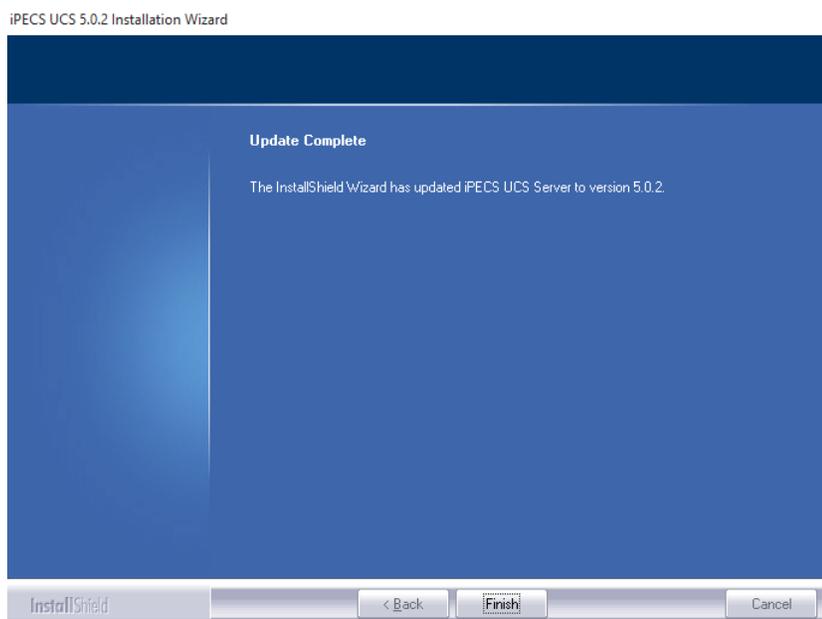
3. The display of UCS Server installation is shown as below. Click **[Yes]**.



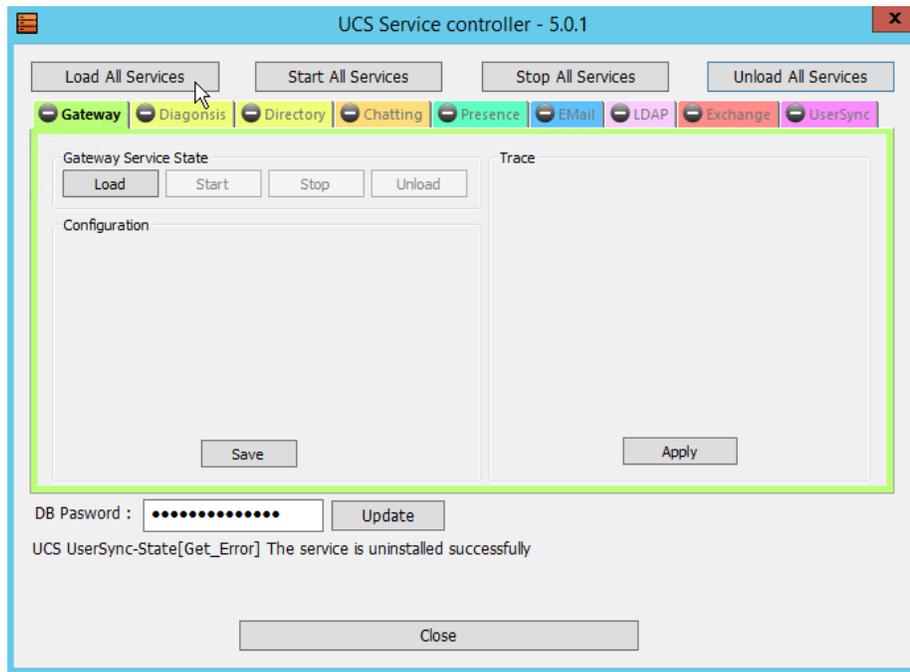
4. To upgrade to new version, click **[Next]**.



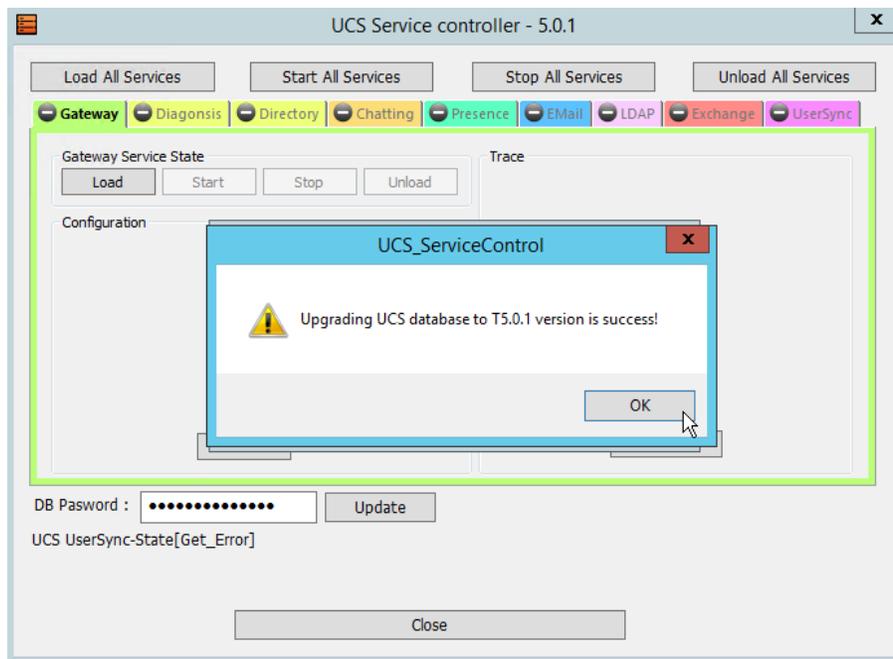
5. The installation for upgrading is finished. Click **[Finish]**.



- To finish database upgrade, the UCS Server service applications must be registered as a service of Windows OS. Click **[Load All Services]**.



- After loading all services, the database upgrade is complete. Click **[OK]**.

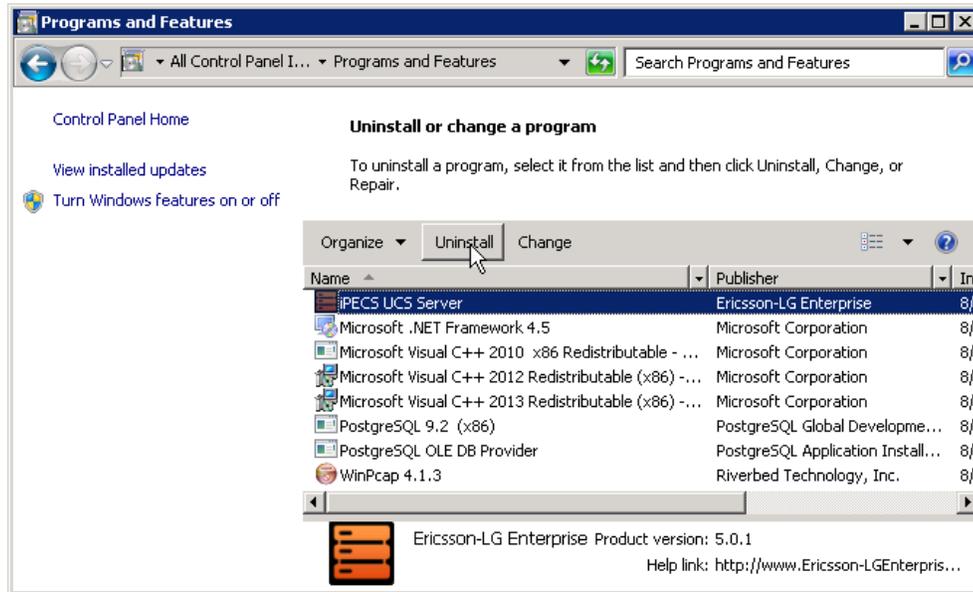


- The services must be started. Click **[Start All Services]**. The upgrade is finished.

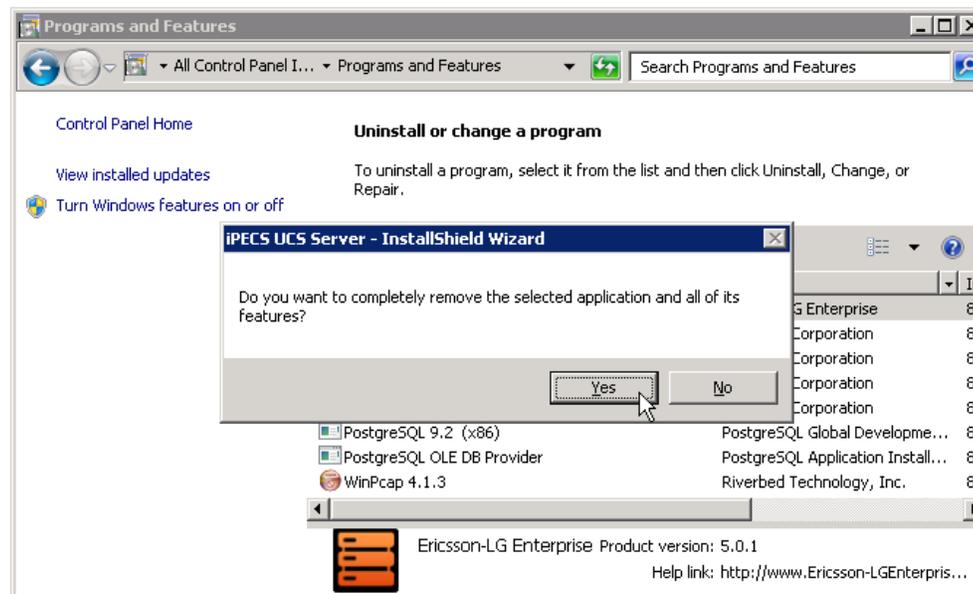
8.2 Uninstallation

iPECS UCS can be removed through [Control Panel – Uninstall a program]. Before uninstallation, you must unload all UCS service applications from Windows OS. Refer to **7.1.4 Unload All Service** for details.

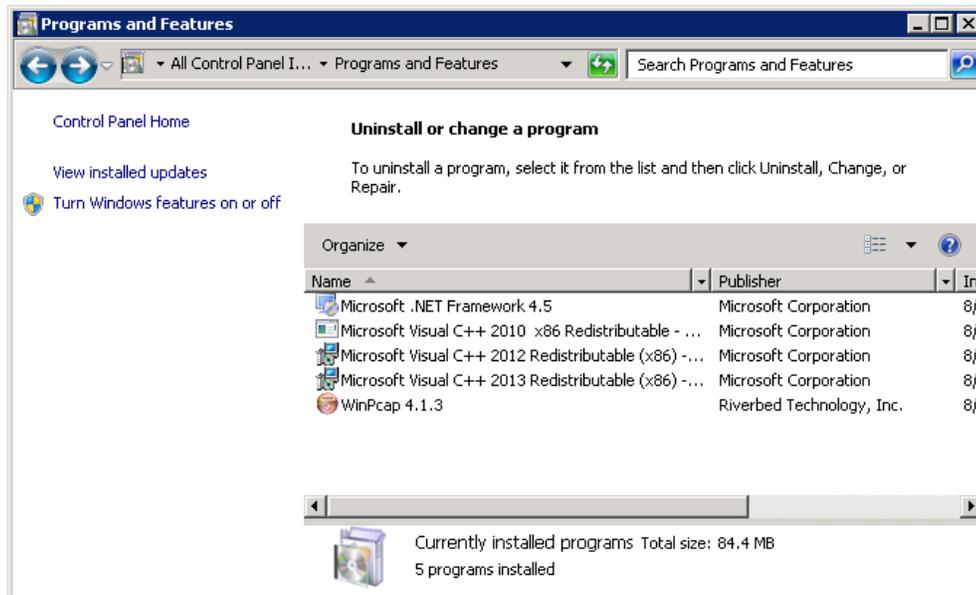
1. Select 'UCS Server', then click [Uninstall] button.



2. Click [Yes] to remove.



3. The component programs of installation package are as follows. Remove any unnecessary programs.



- Microsoft .NET Framework 4.5
- Microsoft Visual C++ 2010 Redistributable (x86)
- Microsoft Visual C++ 2012 Redistributable (x86)
- Microsoft Visual C++ 2013 Redistributable (x86)
- WinPcap 4.1.3

Appendix

Port Table

The Ports can be changed if UCS Server or PBX administrator changes them.

iPECS Unified (UCP, eMG80, eMG800) with UCS Standard

CASE	Source	Destination	Port Usage(Bi-Directional)
UCS Clients ↔ Unified	Any	Unified IP	UDP: 5588, TCP: 5588, 7878, 8899
UCS Clients ↔ VOIM	Any	VOIM IP	UDP: 6000~6095, UDP 8000~8095, 9000~9095

iPECS Unified (UCP, eMG80, eMG800) with UCS Premium

CASE	Source	Destination	Port Usage(Bi-Directional)
UCS Clients ↔ Unified	Any	Unified IP	UDP: 5588, TCP: 5588, 7878, 8899
UCS Clients ↔ VOIM	Any	VOIM IP	UDP: 6000~6095, UDP 8000~8095, 9000~9095
UCS Clients ↔ UCS Server	Any	UCS Server IP	UDP: 25060 TCP: 80, 25056 ~ 25060, 3389
Unified ↔ UCS Server	Unified	UCS Server IP	UDP:5588, 6254

iPECS-CM with UCS Premium

CASE	Source	Destination	Port Usage(Bi-Directional)
UCS Clients ↔ CM	Any	CM IP	UDP: 5588, TCP: 5588, 7878, 8899
UCS Clients ↔ VOIM	Any	VOIM IP	UDP: 6000~6511, UDP 8000~8511,
UCS Clients ↔ UCS Server	Any	UCS Server IP	UDP: 25060 TCP: 80, 25056 ~ 25060, 3389
CM ↔ UCS Server	PBX	UCS Server IP	UDP:5588, 6254

Log Messages

Code	Message	Default Category	Supplementary Information
1001	Server Process Started	Notice	PROCESS NAME
1002	Server process Stopped	Warning	PROCESS NAME
1003	Server Process No Answer	Warning	PROCESS NAME
1101	PBX System Connected	Notice	SITE NAME, IP ADDRESS and SYSTEM TYPE
1102	PBX System No Answer	Warning	SITE NAME, IP ADDRESS and SYSTEM TYPE
1103	Presence Service Started	Notice	SITE NAME, IP ADDRESS and SYSTEM TYPE
1201	ICR Routing Result	Notice	CALLER NUMBER, CALLED NUMBER and DESTINATION NUMBER
1202	ICR Routing Fail Report	Warning	CAUSE, CALLER NUMBER, CALLED NUMBER and DESTINATION NUMBER
1203	Invalid ICR Request	Warning	CALLER NUMBER, CALLED NUMBER and DATE_TIME
1301	UCS Client No Answer	Warning	USER and IP ADDRESS
1302	UCS Client Re-Login	Warning	USER, IP ADDRESS (BEFORE) and IP ADDRESS (AFTER)
1303	UCS Client Login	Notice	USER and IP ADDRESS
1304	UCS Client Logout	Notice	USER and IP ADDRESS
1305	UCS Client Login Fail	Warning	USER ID, IP ADDRESS and CAUSE
1311	Inbound Call Log	Notice	DATE_TIME, USER ID and DESTINATION NUMBER
1312	Outbound Call Log	Notice	DATE_TIME, USER ID, DESTINATION NUMBER and CO LINE NUMBER
1314	IM Event Log	Notice	DATE_TIME, USER ID and PEER ID
1315	Sharing Event Log	Notice	DATE_TIME, USER ID and PEER ID
1316	File Sending Event Log	Notice	DATE_TIME, USER ID and PEER ID
1317	Web Push Log	Notice	DATE_TIME, USER ID and PEER ID
1318	Video Log	Notice	DATE_TIME, USER ID and, PEER ID
1320	File Receive Event Log	Notice	DATE_TIME, USER ID, PEER ID, FILE NAME and FILE SIZE
1321	SMS Send Event Log	Notice	DATE_TIME, SENDER and RECEIVER
1322	SMS Receive Event Log	Notice	DATE_TIME, SENDER and, RECEIVER
1323	Note Send Event Log	Notice	DATE_TIME, SENDER, RECEIVER
1324	Note Receive Event Log	Notice	DATE_TIME, SENDER and RECEIVER
1325	Missed Call Log	Notice	DATE_TIME, USER ID and, DESTINATION NUMBER
1326	Admin Message Log	Notice	DATE_TIME, RECEIVER and SUBJECT
1327	Whiteboard Event Log	Notice	DATE_TIME, USER ID and PEER ID

Code	Message	Default Category	Supplementary Information
1328	Desktop Sharing Event Log	Notice	DATE_TIME, USER ID and, PEER ID
1329	Video Presentation Event Log	Notice	DATE_TIME, USER ID and PEER ID
1330	Remote Monitoring Event Log	Notice	DATE_TIME, USER ID and PEER ID
1401	Chat Room Created	Notice	TYPE, CREATOR, ROOM NAME, SUBJECT, ACCESS TYPE and MEMBER COUNT
1402	Chat Room Deleted	Notice	TYPE, OPERATOR and ROOM NAME
1403	Enter Chat Room	Notice	TYPE, MEMBER and ROOM NAME
1404	Exit Chat Room	Notice	TYPE, MEMBER and, ROOM NAME
1501	Voice Network Code Mismatch	Warning	SITE NAME, IP ADDRESS, VN CODE (DB) and VN CODE (PBX)
1601	DB Table not Exist	Warning	TABLE NAME
1602	DB View not Exist	Warning	VIEW NAME
1701	Call Connection Fail	Warning	USER, DESKTOP PHONE NUMBER and CAUSE
1702	Desktop Phone Number Mismatch	Warning	USER, DESKTOP PHONE NUMBER and CONNECTED NUMBER
1801	Schedule Folder Created	Notice	NAME and, CREATED BY
1802	Schedule Folder Deleted	Notice	NAME and DELETED BY
1803	Schedule Folder Name Changed	Notice	OLD NAME, NEW NAME and CHANGED BY
1804	Schedule Item Created	Notice	FOLDER, SUBJECT and CREATED BY
1805	Schedule Item Deleted	Notice	FOLDER, SUBJECT and DELETED BY
1806	Schedule Item Contents Changed	Notice	FOLDER, SUBJECT and CHANGED BY

SRN (Software Release Note)

The table below shows major items for each software release. Refer to SRN document on Global Partner Site for details.

Title	Related Chapters in Manual	Type	Version
UCS Server Service	Chapter7. Administration(Service Controller)	New	T5.0.1
SSO for Windows Client	6.4.5.1 SSO on AD Joined Windows PC	New	T5.0.1
SSO (password Synchronization)	6.4.5.2 SSO with AD Password Synchronization	New	T5.0.1
Exchange Server Status	6.4.4 Exchange Link Server	New	T5.0.1
Single Sign On to synchronize schedule information with Exchange Server	6.4.4 Exchange Link Server	New	T5.0.1
Synchronization of schedule information with Office365	6.4.4 Exchange Link Server	New	T5.0.1
Register All User Group Member	6.2.5 Presence Registration	Change	T5.0.1
UCS Client Upload	6.6.9 Client Upload	Change	T5.0.1

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