

FAILOVER



IP SURVEILLANCE BEYOND IMAGINATION

INEX[®]



User's Manual

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Chapter 1 — Introduction

This document describes installation and operation of iNEX Failover software (administration failover, monitoring failover, recording failover, video wall failover, and federation failover), which is designed to be used with iNEX Standard software.

The failover service enhances system stability using a failover function. The failover services replace the administration, monitoring, recording, video wall, or federation service if any problems occur in the service. You can register as many failover services as the number of administration, monitoring, recording, video wall, and federation services.

NOTES:

- The failover service will replace only one of the recording or video wall services when a problem occurs in two or more services. The number of failover services must equal the number of recording or video wall services to replace all services.
- The failover service license expires after 90 days (administration, recording, video wall, and federation failover services only). If the license expires, uninstall the failover service from the failover server and install the administration or video wall service on the failover server.
- This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).
- The software included in this product contains some Open Sources. You may obtain the complete corresponding source code from us. See the Open Source Guide on the software CD (*OpenSourceGuide\OpenSourceGuide.pdf*) or as a printed document included along with this document.

Chapter 2 — Installation

2.1 Product Information

Package Contents

- Installation CD
- User's Manual
- WIBU-Key (USB Dongle)

NOTES:

- Up to four WIBU-Keys can be recognized by one failover server.
- If a WIBU-Key is disconnected from a failover server, the failover server will not operate properly.
- Stop running all services before connecting or disconnecting a WIBU-Key.

System Requirements

Server System

- Operating System: Microsoft® Windows® XP 32-bit/Vista (Home Standard, Business, Ultimate, Enterprise), Microsoft® Windows® 7 (Home Premium, Professional, Ultimate), Microsoft® Windows® 8 (Pro, Enterprise), Microsoft® Windows® Server 2003/2008/2012
- CPU: Intel Core i5-3570 3.30GHz/Intel Xeon E3 or faster (4cores or more)
- RAM: 2GB or more
- VGA: AMD Radeon™ HD 2400 or NVIDIA GeForce FX5500 (AMD recommended) (1280x1024, 32bpp or higher)
- Hard Disk Drive: 2 GB or more free space
- LAN: Gigabit Ethernet or faster

Client System

Recommended Requirements

- Operating System: Microsoft® Windows® 7 64-bit (Home Premium, Professional, Ultimate) (Microsoft® Windows® 8 (Pro, Enterprise) compatible)
- CPU: Intel Core i5-3570 3.30GHz or faster
- RAM: 4GB or more
- VGA: AMD Radeon™ HD 7700 or NVIDIA GeForce GTX650 (AMD recommended) (1280x1024, 32bpp or higher)
- Hard Disk Drive: 6GB or more free space
- LAN: Gigabit Ethernet or faster

Minimum Requirements

- Operating System: Microsoft® Windows® XP Home SP 3
- CPU: Intel Core 2 Duo E7200 2.53GHz or faster
- RAM: 2GB or more
- VGA: AMD Radeon™ HD 2400 or NVIDIA GeForce FX5500 (AMD recommended) (1024x768, 24bpp or higher)
- Hard Disk Drive: 1GB or more free space

- LAN: 10/100 Mbps Ethernet or faster

NOTE: The client system that is installed in a 32-bit operating system could have a problem that the video is not displayed, because of a memory shortage. Ask your dealer or distributor about details about it.

FishEye Client-Side Dewarping Recommended Requirements

- Operating System: Microsoft® Windows® 7 64-bit (Home Premium, Professional, Ultimate) (Microsoft® Windows® 8 (Pro, Enterprise) compatible)
- CPU: Intel Core™ i7-3770 3.40 GHz or faster
- RAM: 8GB or more
- VGA: AMD Radeon™ HD 7700 or NVIDIA GeForce GTX650 or higher (1280x1024, 32bpp), multi monitor
- Hard Disk Drive: 6 GB or more free space
- LAN: Gigabit Ethernet or faster

NOTES:

- In this document, the “server or server system” refers to a PC on which a iNEX service is running. The “client system” refers to a PC running the Client program.
- The iNEX service (except for the video analytics service) is installed and operates in 32-bit or 64-bit compatibility mode. The video analytics service and other iNEX programs (Client and Service Manager, etc.) are 32-bit applications.
- It is recommended to add a new unformatted hard disk drive to ensure stable recording. If you are setting up a hard disk drive which contains data, however, you are to delete partition(s) and the file system in advance after formatting. Refer to the PC/server's user manual or consult with the PC/server manufacturer for details about how to format or delete the partition(s) and file system.

2.2 Installation

NOTE: Disable your PC's Windows power saving function: *Start menu → Power Options → set both Turn off the display and Put the computer to sleep to Never (Power Options → Power Schemes tab → set both Turn off monitor and Turn off hard disks to Never when using the Microsoft® Windows® XP operating system).*

CAUTION: If an older version of iNEX software is installed on your computer, a screen appears asking you to upgrade the software. In this case, you are required to upgrade the software according to the instructions in the screen.

1. Insert the software CD in the failover server.
2. Run the Setup.exe file in the Setup folder of the software CD.

NOTE: The *User Account Control* window might appear when using the Microsoft® Windows® Vista or later operating system. Click *Allow* and install the software following the instructions.

3. Select the language in which to run the program and then click OK.



NOTES:

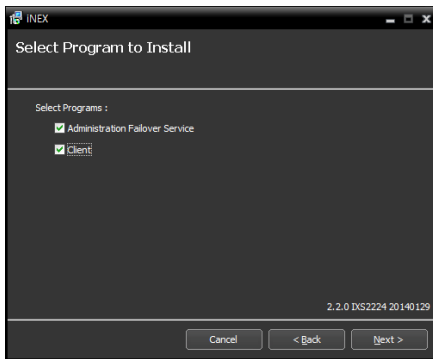
- To properly display the selected language, your PC's operating system should be set to support the selected language.
- To change the iNEX program's language after the software has been installed, select *Language Selector* in the *iNEX → Utility* folder of the *Start* menu before running the *iNEX* program.

- When the following screen appears, select **Install** and click **Next**.

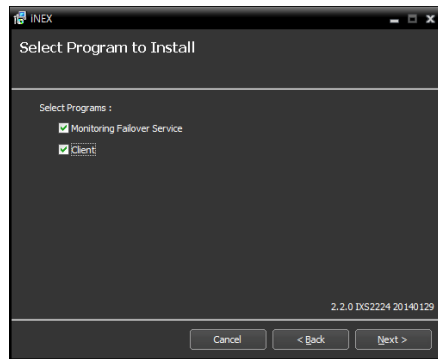


- Select a service to install and click **Next**. If you want to install Client program, click **Client** and click **Next**.

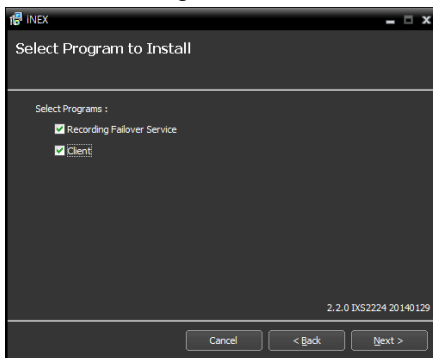
Administration failover service



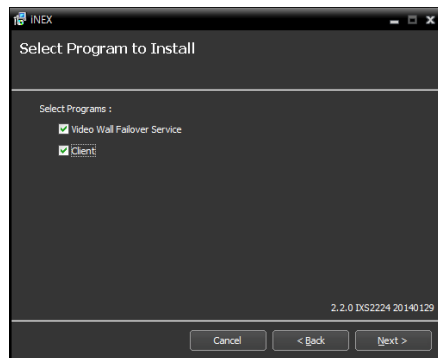
Monitoring failover service



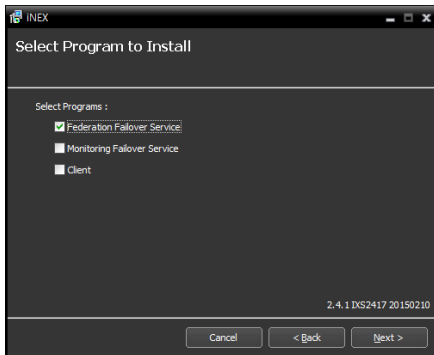
Recording failover service



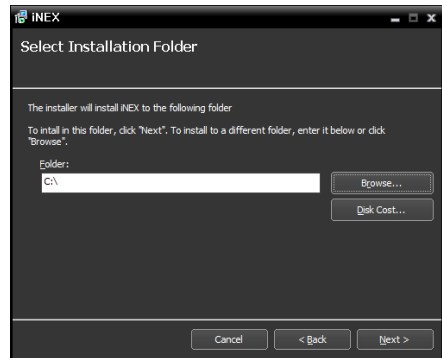
Video wall failover service



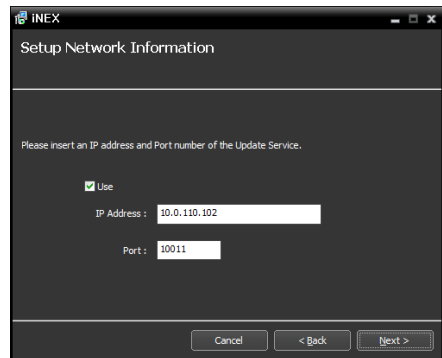
Federation failover service



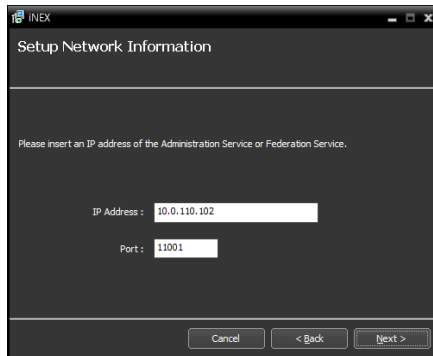
6. Designate the folder path to install the services. Clicking the Disk Cost... button shows the available and required disk space for each hard disk drive for the installation. Then click Next.



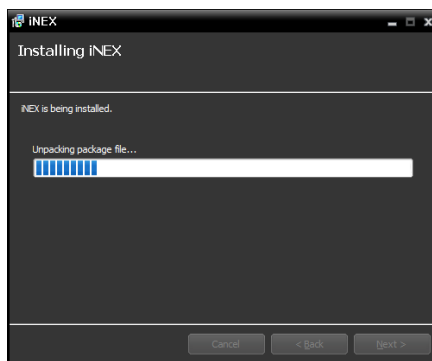
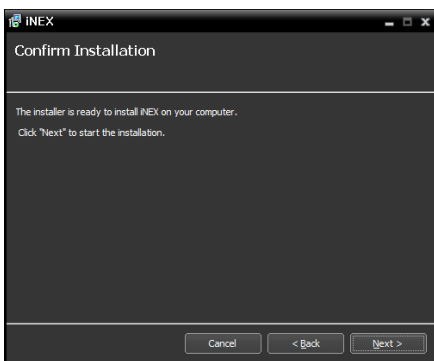
7. If you use the update service, it is required to enter the IP address and port number of the update server when installing the failover service. You can change the settings in the Service Manager program after completing installation.



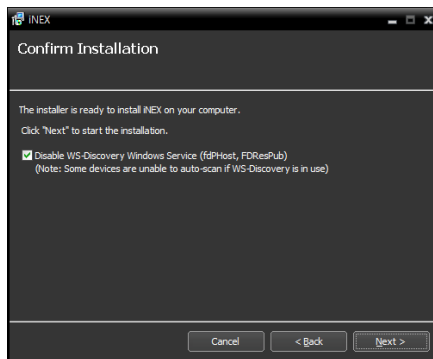
- It is required to enter the IP address and port number of the administration(federation) server. You can change the settings in the Service Manager program after completing installation if necessary. When the installation is complete, the failover service is connected to the administration(federation) service via the network if the both services are operating.



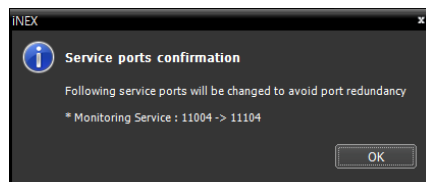
- When the following screens appear, click Next.



NOTE: The following screen appears when using Microsoft® Windows® Vista or later operating systems. It is recommended that you check the *Disable WS-Discovery Windows Service (fdPHost, FDResPub)* box. If you do not check the box, the iNEX program cannot auto-scan devices using ONVIF™ Conformance protocol when scanning devices for device registration.

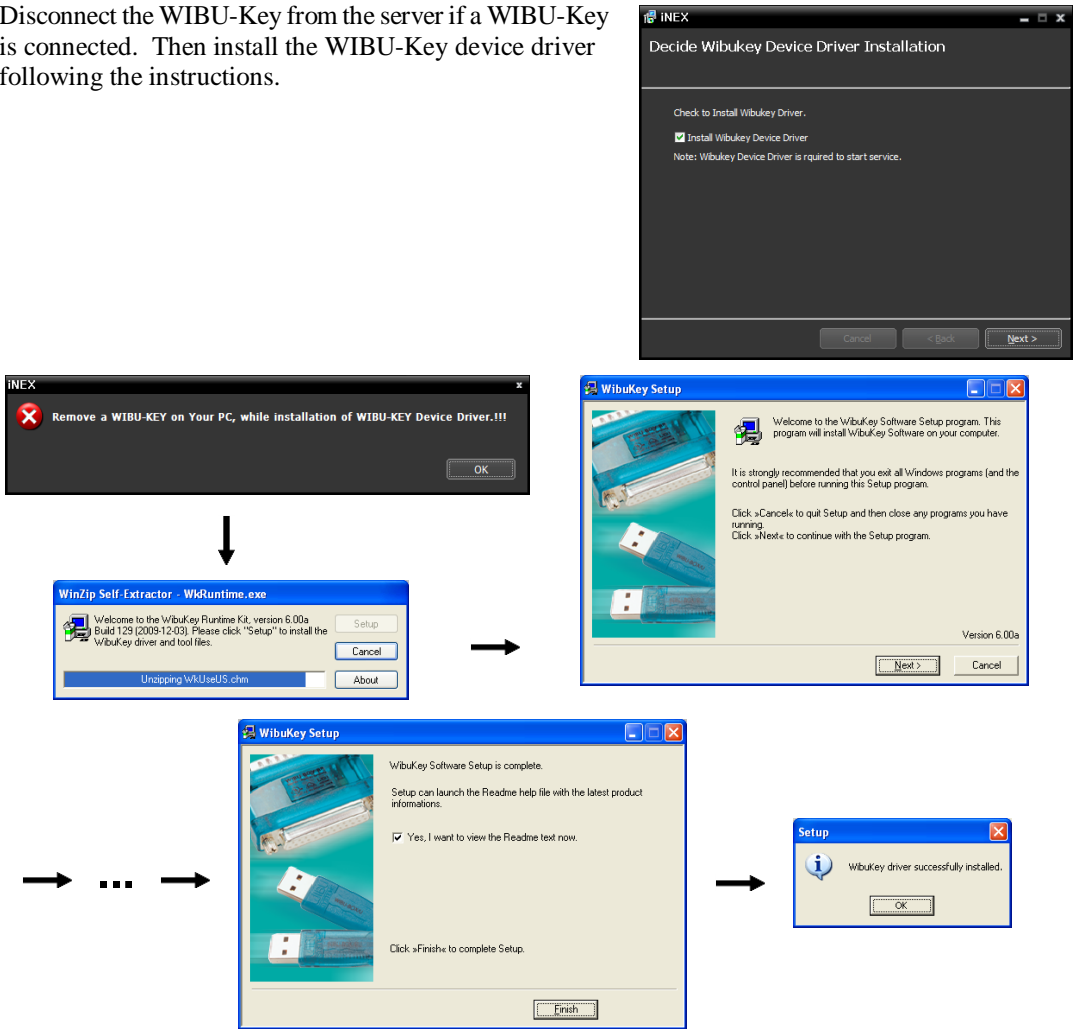


NOTE: The following screen appears when the port number of the service being installed is already in use, and the screen displays the port number that will be changed. The changed port number will be applied when the service starts operating after installation.



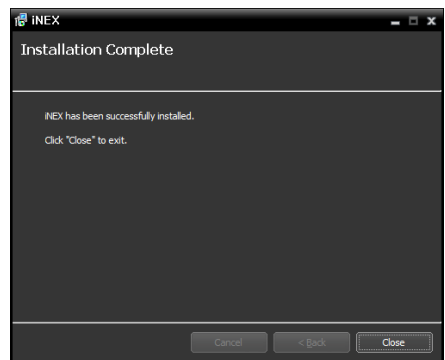
NOTE: .NET Framework and the Visual C++ Runtime Libraries are installed automatically, and it may take some time. This installation step will be skipped if the programs are already installed on your computer.

10. Disconnect the WIBU-Key from the server if a WIBU-Key is connected. Then install the WIBU-Key device driver following the instructions.



11. When the following screen appears, click the Close button to complete the installation.

NOTE: After successfully installing WIBU-Key device driver, the PC restarts automatically.



12. Connect WIBU-Keys to the failover server.

2.3 Uninstall

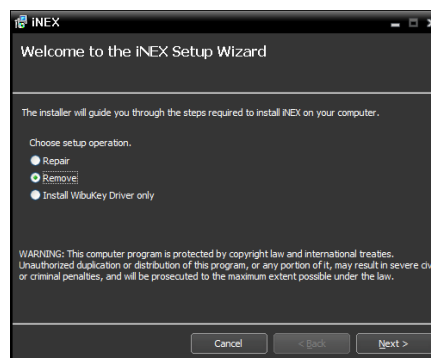
1. Stop running the services and iNEX program first.

NOTE: The iNEX software might not be uninstalled correctly if you uninstall it while the services or Client program is running.

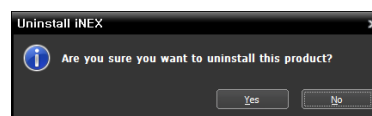
CAUTION: The iNEX software should be uninstalled following the procedures below. If you delete the installation folder manually, the iNEX software cannot be uninstalled or reinstalled.

2. Go to the Start Menu, and click iNEX. Click Uninstall iNEX.

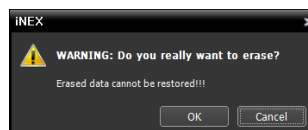
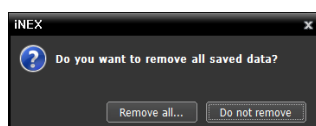
NOTE: You can uninstall the software by using the software CD. Insert the software CD in the server or Client PC and run the *Setup.exe* file. Select *Remove* and click *Next*.



3. Click Yes when the following screen appears.



4. Click the Remove All or Do not remove button when the following screen appears. Clicking the Remove All button deletes all saved data including recorded video and previous settings in the system. Clicking the Do not remove button uninstalls the software without deleting any saved data in the system and keeps all saved data in the system.



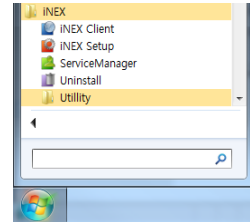
NOTE: The deleted data cannot be restored once the data is deleted.

5. Click the OK button to complete the uninstall process.

Chapter 3 — Getting Started

3.1 Running Services

When the service is installed, the service runs automatically. You can also start or stop running the service manually. Go to the Start Menu → Click iNEX → Run the Service Manager program.



Administration failover service

Service	Status	CPU Usage	Memory Usage
Administration Failover Service	Working	0 %	20188 KB

Monitoring failover service

Service	Status	CPU Usage	Memory Usage
Monitoring Failover Service	Working	0 %	14104 KB

Recording failover service

Service	Status	CPU Usage	Memory Usage
Recording Failover Service	Working	0 %	366672 KB

Video wall failover service

Service	Status	CPU Usage	Memory Usage
Video Wall Failover Service	Working	0 %	24316 KB

Federation failover service

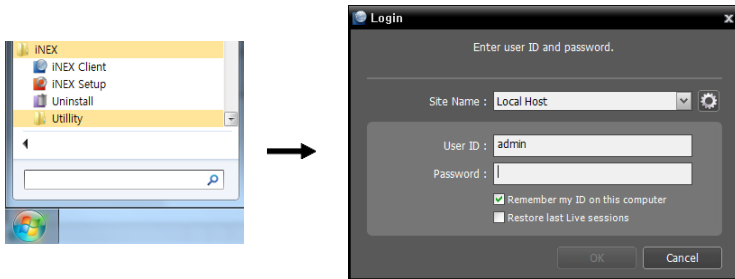
Service	Status	CPU Usage	Memory Usage
Federation Failover Service	Working	0 %	25060 KB


Check the status of service. If the service is not listed as Working under Status, start the service manually. Refer to the iNEX Standard User's Manual for details about the Service Manager program.

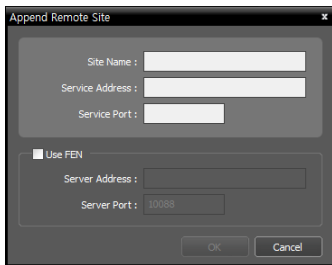
3.2 Log In

You are required to log in to the administration(federation) service as follows when running the Setup and Client programs.

Go to the Start Menu → Click iNEX → Run the iNEX Setup program and enter login information.



- **Site Name:** Select the administration(federation) service to connect to from the list. You can add other administration(federation) services to the list or modify information about the administration(federation) service in the list by clicking the  button at the right.



- **Site Name, Service Address, Service Port:** Designate the name of the administration(federation) service and enter the IP address and port number of the administration(federation) server (default: 11001/11000).

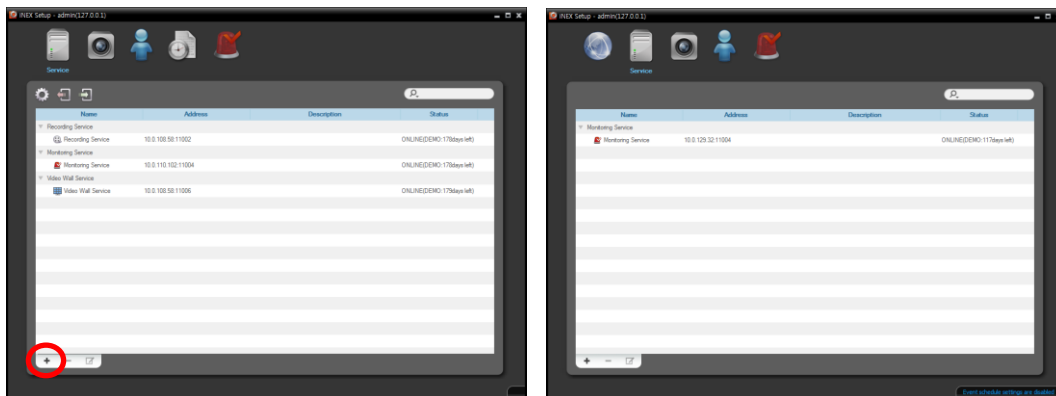
- **User ID, Password:** Enter your user ID and password. The default user ID is admin and default password is 12345678. You can change the user ID and password in the User menu. Refer to the iNEX Standard User's Manual for details.
- **Remember my ID on this computer:** Check the box if you want to save your ID for logging on.
- **Restore last Live sessions:** Check the box if you want to restore the previous live monitoring sessions in the current Live panels of the Client program (supported only for the Client program).

3.3 Registering Services

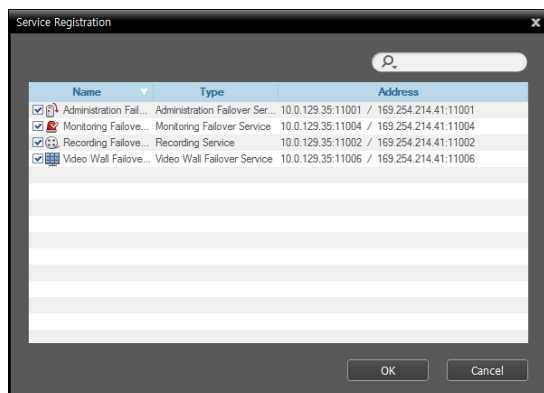
NOTE: Check that a monitoring, recording, or video wall service is registered. It is available to register each service's failover service only when the service is registered.

Go to the Start Menu → Click iNEX → Run the iNEX Setup program and enter login information.

Select the **Service** menu, and then register administration, monitoring, recording, video wall, or federation failover service following the procedures below.

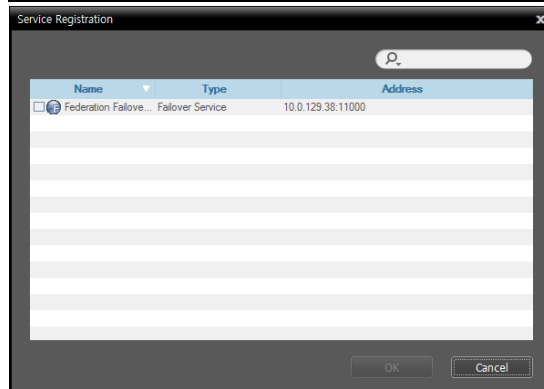


1. Click the **+** button at the bottom. The Service Registration window appears, and a list of available services is displayed with information about each service.

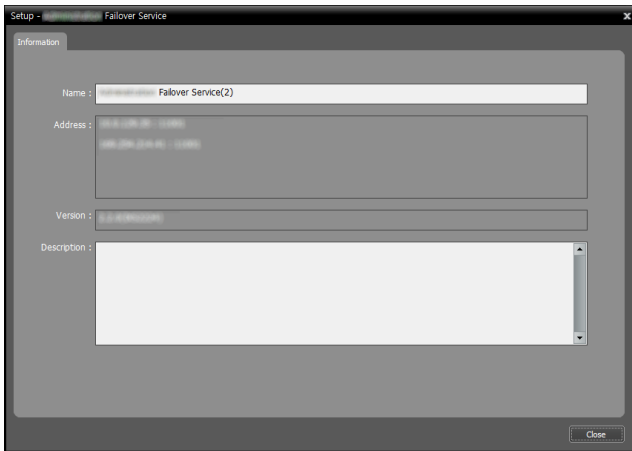
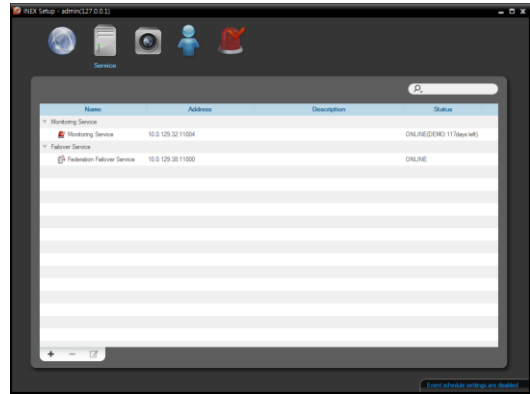
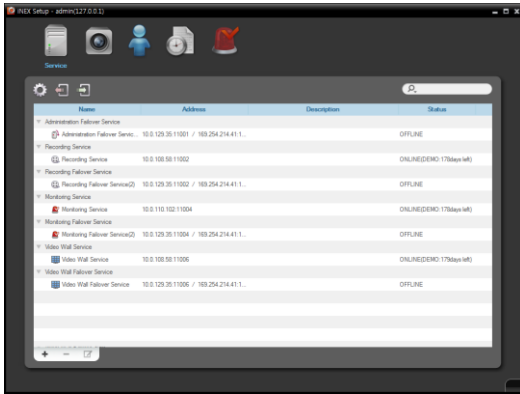


- **Name:** Displays services that are currently connected to the administration (federation) service via the network.
- **Type:** Displays the service type.
- **Address:** Display the IP address and port number of each server.

NOTE: Only the services of which the administration (federation) server information (*Service Manager* → *Option* → *Server Option*) matches the currently connected administration (federation) server are available.



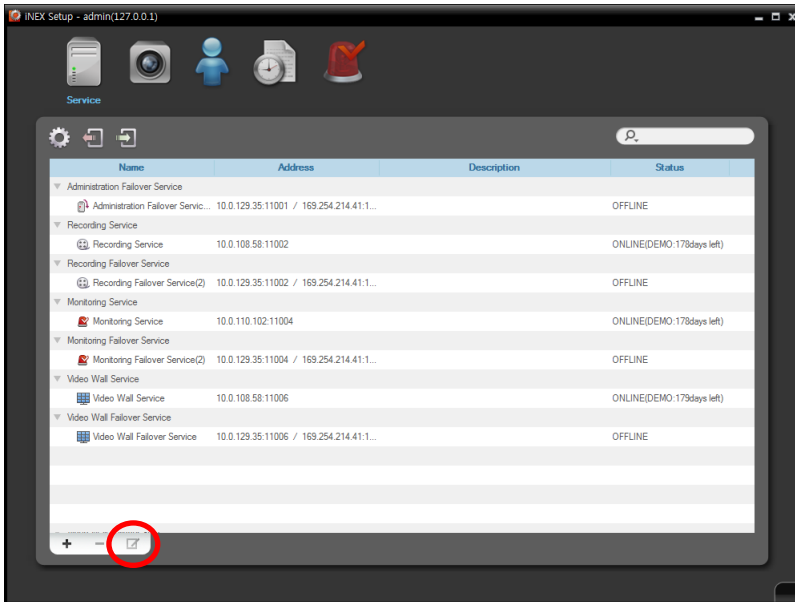
2. Select administration, monitoring, recording, video wall, or federation failover service to register on the iNEX system, and the selected services are displayed in the service list.



Select a failover service and click the button at the bottom. You can change the failover service's name.

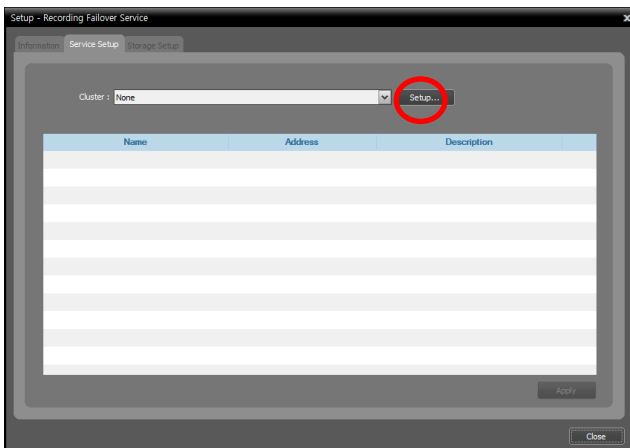
Chapter 4 — Failover Service Configuration

You are required to configure the recording failover service and video wall failover service for the services to operate properly. Setting up and operating the iNEX Client program of the iNEX failover software is identical to that of the iNEX Standard software.



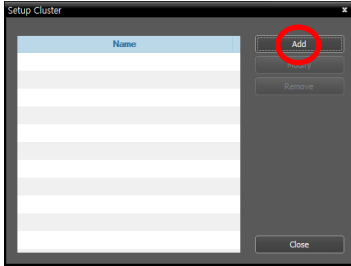
Select a failover service and click the button at the bottom.

Recording Failover Service

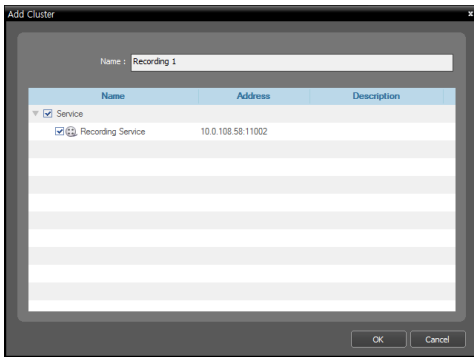


Click the Service Setup tab and click the Setup... button.





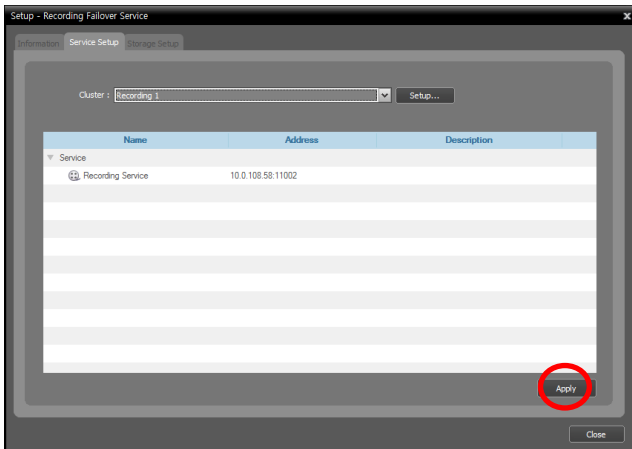
Click the Add button.



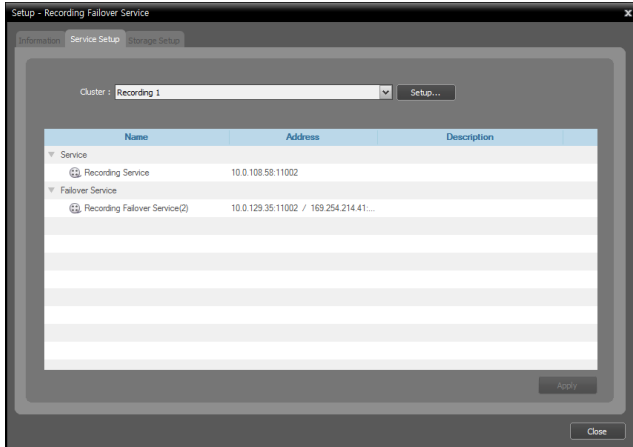
A list of available services is displayed. You can cluster more than one recording service for one failover service. Select recording services to cluster.

Enter the cluster name and click the OK button.

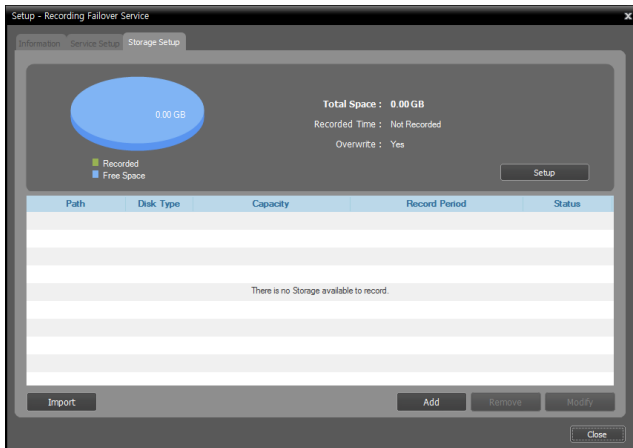
NOTE: Only the services of which the administration server information (*Service Manager* → *Option* → *Server Option*) matches the currently connected administration server are available.



A list of clustered services is displayed. If you have added more than one cluster, you can choose from the Cluster drop-down list. Click the Apply button.

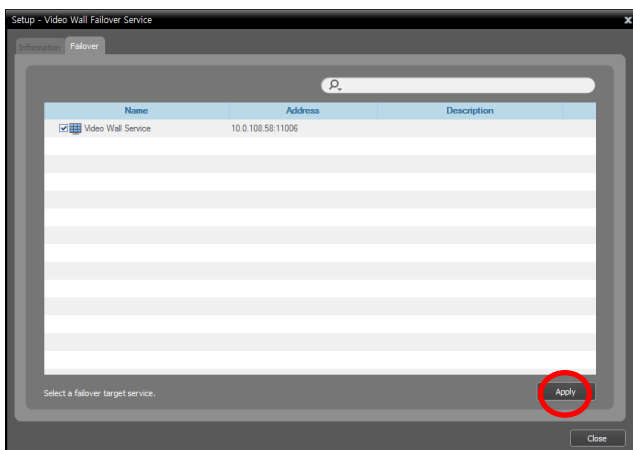


Whenever any problem occurs in one of the listed recording services, the failover service will replace the recording service.



Click the **Storage Setup** tab and assign storage for recording. Refer to the iNEX Standard User's Manual for details.

Video Wall Failover Service



Click the **Failover** tab and select a video wall service. It is not allowed to cluster video wall services, and the failover service will replace only one service.

Click the **Apply** button.

NOTE: Only the services of which the administration server information (*Service Manager* → *Option* → *Server Option*) matches the currently connected administration server are available.

WEEE (Waste Electrical & Electronic Equipment)

Correct Disposal of This Product

(Applicable in the European Union and other European countries with separate collection systems)



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.