

Lenovo ThinkServer Partner Pack for System Center Configuration Manager User Guide



**Note:** Before using this information and the product it supports, ensure that you read and understand Appendix A "Notices in page 30".

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# **1** Introduction

The purpose of this guide is to explain the processes involved in monitoring and managing Lenovo servers through the Lenovo ThinkServer Partner Pack for System Center Configuration Manager (SCCM).

## 1.1 System Overview

The Lenovo Partner Pack for Microsoft System Center Configurations Management (SCCM) provides centralized firmware management of Lenovo ThinkServer servers' components, including ThinkServer System Manager, BIOS, "Deployment Manager Application", "Windows Driver Package for Deployment Manager" and "Linux Driver Package for Deployment Manager" and "Linux Driver Package for Deployment Manager" and users notification feature. Implemented as a plug-in of SCCM, the Partner Pack is integrated into SCCM by using the native Admin Console interface allowing IT administrators to manage ThinkServers by using familiar tools and "one pane of glass" management.

The Lenovo ThinkServer Partner Pack for Microsoft System Center Configurations Manager manages the Lenovo ThinkServer with only Intel® Xeon® processor E5-2600 v3 or Intel® Xeon® processor E5-2600 v2 product family and above.

Knowledge on other tools is not necessary to use the Lenovo ThinkServer Partner Pack.

## **1.2 Key Features and Benefits**

The Lenovo ThinkServer Partner Pack for SCCM provides the following features:

- It can be possible to perform platform firmware upgrades remotely via the plug-in. It will provide this capability only on 5<sup>th</sup> generation and later servers (Applicable RQ750).
- Centralized firmware upgrade via the plug-in will provide the ability to upgrade the firmware on the target host via its ThinkServer System Manager. The firmware components that can be upgraded in this manner are:
  - 1. ThinkServer System Manager
  - 2. BIOS
  - 3. Deployment Manager Application
  - 4. Windows Driver Package for Deployment Manager
  - 5. Linux Driver Package for Deployment Manager
- It is possible for users to specify a firmware bundle file from local host or a network location with necessary information. Network protocol supported: Samba(CIFS), NFS, and TFTP.
- From the plug-in it will be possible to specify a group of Lenovo servers and upgrade the firmware of their components.
- Centralized firmware upgrade will run in the background and users will be allowed to check on the status of the firmware upgrade in real-time.
- There will be a wizard to guide the user in launching the firmware upgrade.

- It will automatically notify user when the firmware upgrade process is done.
- It will automatically detect the firmware version of all monitored servers as scheduled.
- It will automatically notify users which servers need a firmware upgrade.
- It is possible to import existing ThinkServer System Manager Credentials from a SCOM database.
- It is possible for the user to manage (add, edit, delete) ThinkServer System Manager Credentials.
- Only firmware upgrade is supported, downgrade is not supported.

Notice: when *ThinkServer System Manager NIC Selection* of BIOS is configured as *Shared NIC Port*, all features of this plugin are not available.

## 2 Installing Lenovo ThinkServer Partner Pack

Run the *LenovoThinkServerPartnerPack.EXE* installation file from the installation package and follow the prompts. This will extract the Lenovo ThinkServer Partner Pack for System Center Configuration Manager into the directory you choose during the installation process.

The default location is C:\Program Files(x86)\LenovoThinkServerPartnerPack

For detailed information please refer to the Installation Guide.

# **3** Working with Lenovo ThinkServer Partner Pack

This section explains various features of the Lenovo ThinkServer Partner Pack's user interface.

## 3.1 Firmware Type

Lenovo ThinkServer Partner Pack for System Center Configuration Manager can support the following five types of firmware:

- 1. ThinkServer System Manager
- 2. BIOS
- 3. Deployment Manager Application
- 4. Windows Driver Package for Deployment Manager
- 5. Linux Driver Package for Deployment Manager

If the specified firmware's version is lower than installed, it will not be able to continue to update.

Attention: RQ750 can support only ThinkServer System Manager and BIOS.

### 3.2 Firmware Upgrade

On the left pane, right click the **Firmware upgrade** tab to view the Firmware **Upgrade Wizard** screen.

🖕 System Center 2012 Configuration Manager (Connected to ESM - ESM Central) (Evaluation, EXPIRED) - 🗖 🗙						
Search A 😥						
All Objects Scope Options	tt Save Current Search As Save Active Search					
← → ▼ 📫 \ ► Software Library ►	Overview   Lenovo ThinkServer Partner Pack		- 🕏			
Software Library	Software Library					
Configure Auto Notify	Firmware Upgrade: Firmware Upgrade Configure Lenovo Host: Configure Lenovo Host	Firmware Upgrade History: Show firmware upgrade history view. Configure Auto Notify: Configure Auto Notify				
Assets and Compliance     Software Library						
Monitoring						

Figure 1: Monitoring Overview Screen

### 3.2.1 Firmware Upgrade Wizard Step 1

When specify a firmware bundle file from a local location:

	Firm	are Upgrade Wizard	X
Select Firmware Bund	dle File		
Select Firmware Bundle File Firmware Bundle File Info Upgrade Server List	<ul> <li>Local</li> <li>Firmware Bundle:</li> <li>Network</li> <li>Protocol:</li> <li>User Name:</li> <li>Password:</li> <li>IP Address:</li> <li>Bundle File Path:</li> <li>Bundle File Name:</li> </ul>		Browse
		< Previous Next > Upgrade	Cancel

Figure 2: Select local firmware bundle file screen

Click *Browse* button to choose a local bundle file.

		Firmware Upgrade Wizard		
Select I	Firmware Bundle File			
Select Firmware Bung		Open		
Firmware Bundle File	🍥 💿 * 🕇 退 «	Local Disk (C:) 🕨 bdl 🛛 🗸 🖒 Seard	ch bdl 🔎	]
Upgrade Server List	Organize 👻 New fold	ler	III 🕶 🔟 🞯	
	🔶 Eavorites	▲ Name	Date modified Type	- L
	Pavortes     Desktop     Downloads     Recent places      This PC     Desktop     Documents     Downloads     Music     Pictures     Videos     Local Disk (C:)	BMC_RD350-450-550-650-TD350_v0080         LEPT_1.7.74.bdl         trm_v104-60759.bdl         trm_v105-61234.bdl         trm_v106-61423.bdl         trm_v108-16888.bdl         V83TS090.bdl         V83TS095.bdl         WIND_4.3.41.bdl	6/8/2014 7:43 PM         BDL Fild           6/17/2014 9:51 PM         BDL Fild           8/21/2014 2:22 PM         BDL Fild           8/21/2014 2:22 PM         BDL Fild           8/22/2014 3:07 AM         BDL Fild           8/22/2014 3:24 PM         BDL Fild           8/12/2014 1:213 AM         BDL Fild           8/13/2014 2:07 PM         BDL Fild           6/17/2014 9:51 PM         BDL Fild	
	🙀 Network	✓ < III Parme: tron ∪109,16099 hdl v   hdll	*bd0	>
			Open Cancel	
		< Previous	Next > Upgrade	Cancel

Figure 3: Click browse button screen

When specify a firmware bundle file from a network location (Attention: RQ750 can support only TFTP):

1. Samba (CIFS): User Name, Password, IP address, Bundle File Path and Bundle File Name are required.

	Firmy	ware Upgrade Wizard
Select Firmware Bund	lle File	
Select Firmware Bundle File Firmware Bundle File Info Upgrade Server List	<ul> <li>Local</li> <li>Firmware Bundle:</li> <li>Network</li> <li>Protocol:</li> <li>User Name:</li> <li>Password:</li> <li>IP Address:</li> <li>Bundle File Path:</li> <li>Bundle File Name:</li> </ul>	Samba(CIFS)       V
		< Previous Next > Upgrade Cancel

Figure 4: Select the firmware bundle file picture of the CIFS protocol

2. NFS: IP Address, Bundle File Path, Bundle File Name are required. Note: Windows Component *NFS Client* is required.

For example: [Bundle File Path] input home/share/nfs [Bundle File Name] input tsm\_v106-61423.bdl

	Firm	ware Upgrade Wizard		X
Select Firmware Bund	lle File			
Select Firmware Bundle File Firmware Bundle File Info Upgrade Server List	<ul> <li>Local</li> <li>Firmware Bundle:</li> <li>Network</li> <li>Protocol:</li> <li>User Name:</li> <li>Password:</li> <li>IP Address:</li> <li>Bundle File Path:</li> <li>Bundle File Name:</li> </ul>	NFS	×	Browse
		< Previous	Next > Up	grade Cancel

Figure 5: Select the firmware bundle file picture of the NFS protocol

3. TFTP: IP Address, Bundle File Name are required. For example: [Bundle File Name] input tsm\_v106-61423.bdl

	Firm	ware Upgrade Wizard	x
Select Firmware Bund	dle File		
ISelect Finware Bundle File Firmware Bundle File Info Upgrade Server List	<ul> <li>Local</li> <li>Firmware Bundle:</li> <li>Network</li> <li>Protocol:</li> <li>User Name:</li> <li>Password:</li> <li>IP Address:</li> <li>Bundle File Path:</li> <li>Bundle File Name:</li> </ul>	Image:	
		< Previous Next > Upgrade Cance	el

Figure 6: Select the firmware bundle file picture of the TFTP protocol

Firmware Upgrade Wizard						
Firmware Bundle Fil	e Info					
Select Firmware Bundle File Firmware Bundle File Into Upgrade Server List	Type: Version: Image Name: Note:	ThinkServer System Manager 1.06.61423 2RIT_TSM_v106_61423.bin TSM v1.06.61423 firmware bundle test image for RD550/650, TD350 platforms				
		< Previous Next > Upgrade Cancel				

### 3.2.2 Firmware Upgrade Wizard Step 2

Figure 7: Firmware bundle file info screen

### 3.2.3 Firmware Upgrade Wizard Step 3

Check desired devices to upgrade.

About RQ750 BIOS upgrade, Partner Pack will not check the version in the upgrade process, So the BIOS bundle file which is lower than the current version of the BIOS can also be upgraded, The reason is that Partner Pack is unable to get the bundle file's version by RQ750's BMC.

	Firmware Upgrade Wizard	x
Upgrade Server List		
Select Firmware Bundle File Firmware Bundle File Info Upgrade Server List	Firmware Type:       1.06.61423         ThinkServer System Manager IP       Version         192.168.8.147       1.4.60759	
	< Previous Next > Upgrade Cancel	

Figure 8: Upgrade server list screen

Choose corresponding machine model when upgrading BIOS firmware. BIOS firmware upgrading will cause hardware reset, please save your working contents before doing that.

### 3.2.4 Firmware Upgrading List

This Screen displays the current running firmware upgrade.

💽 System Center 2012 Configuration Manager (Connected to ESM - ESM Central) (Evaluation, EXPIRED)	- 🗆 ×			
Home Search	^ 🔞			
All Saved Search Save Current Save Current Close Search Save Current S				
skupe opularis ave kuretenun A 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	- 4			
Software Library  Firmware Upgrading List:				
A POverview Host Frimware Type Current Version Target Version Status Detail Upgrade Tim	<u>م</u>			
Participation Management 192.168.8.147 ThinkGerver System Manager 14.60759 1.06.61423 Upgrading 13% Stated at 20	)15-02-01 23:59:53			
Carteria Software Updates				
Operating Systems				
Lenovo Inninserver Partner Pack     Enovo Inninserver Partner Pack				
C Firmware Upgrade History				
Configure Lenovo Host				
Configure Auto Notify				
🛃 Assets and Compliance				
🖓 Software Library				
Monitoring				
Cli Administration				

Figure 9: Upgrading status screen

## 3.3 Firmware Upgrade History

This Screen displays all Firmware upgrade history.

🕞 System Center 2012 Configuration Manager (Connected to ESM - ESM Central) (Evaluation, EXPIRED)							
Search							^ <b>(</b>
		×					
All Saved Search Save Current Objects Searches Settings Search	Save Current Search As	Close					
Scope Options Sa	ve Ar	tive Search					
← → - Q \ ► Software Library ► O	verview 🕨 Lenov	ro ThinkServer Partner Pack 🔸 F	irmware Upgrade	e History			- 2
Software Library <	Firmware Upgrade	History:					
▲ @ Overview			с IV. 1	<b>T</b> 111 -	Chatra	Deteil	Unamedia Tinan
Application Management	102 169 9 0	Windows Driver Package for De	2 02 62492	2 05 65276	Finished	100%	Einiched at: 2/2/2015 6/49/26 AM
Software Undates	102 168 8 47	RIOS	1 03 62482	1.05.65376	Finished	100%	Finished at: 2/2/2015 6/49/26 AM
b Constitute Systems	192 168 8 147	ThinkServer System Manager	1 13 62482	1 15 65376	Finished	100%	Finished at: 2/1/2015 6:49:26 AM
Operating systems	192 168 8 247	Deployment Manager Applicativ	2 03 62482	2 05 65376	Finished	100%	Finished at: 2/2/2015 6:49:26 AM
Lenovo Thinkserver Partner Pack	192.168.10.101	Linux Driver Package for Deploy	2.13.62482	2.15.65376	Failed	There is already another firmware u	Started at: 2/2/2015 6:49:26 AM
G Firmware Upgrade History							
Configure Lenovo Host							
Configure Auto Notify							
Assets and Compliance							
Software Library	Class						
Monitoring	Ciear						
Administration							

Figure 10: Firmware upgrade history screen

Information listed below will be displayed:

- Host: ThinkServer System Manager IP
- Type: Firmware type
- Status: Finished, Failed
- Current Version: The current version of firmware for upgrade.
- Target Version: The version to upgrade.
- Detail: The information about upgrade process.
- Upgrade Time: The end time of upgrade.

### 3.4 Configure Lenovo Host

- 1. It is possible to import existing ThinkServer System Manager Credentials from a SCOM database.
- 2. It will be possible for users to manage (add, edit, delete) ThinkServer System Manager Credentials.

### 3.4.1 Import ThinkServer System Manager Information

🕞 System Center 2012 Configuration Manager (Connected to ESM - ESM Central) (Evaluation, EXPIRED) 📃 🗾 🗙				
Home Search	^ 🚱			
All Objects Scope Options Save Current Sa Saved Search Search Search Search Save Current Sa	ve Current Search As Active Search			
← → ▼ 📰 \ ► Software Library ► Ove	rview 🔸 Lenovo ThinkServer Partner Pack 🔸 Configure Lenovo Host 🔹 😴			
Software Library    Application Management  Application Management  Software Updates  Coperating Systems  Lenovo ThinkServer Partner Pack  Firmware Upgrade Firmware Upgrade History  Configure Lenovo Host  Configure Auto Notify	Configure Lenovo Host			
Assets and Compliance				
Software Library				
Monitoring				
Administration				
Ready	li.			

Figure 11:Configure Lenovo host screen

Right Click Configure Lenovo Host tab to show ThinkServer System Manager Credential Management

ThinkServer System Manager Credential Management			
	Host	IP Address	UserName
		192.168.8.147	lenovo
	ThinkServer System Man	ager Credential M	anagement 💌
	SCOM Host		
	Domain Name:		
	User Name:		
	Password:		
		OK	Cancel
	Import Add	E dit	Delete

Figure 12: ThinkServer System Manager info import screen

ThinkServer System Manager Credential Management 🛛 💌			
	Host	IP Address	UserName
	LENOV0148.TestDomain.com	192.168.8.147	lenovo
	Import	Edit	Delete
	Add		Delete

Figure 13: ThinkServer System Manager Credential Management screen

Information listed below will be displayed:

- Host: The hostname of the OS installed on the machine.
- IP Address: The ThinkServer System Manager IP Address.
- User Name: User name used to login into the ThinkServer System Manager
  - 1. Click the Import button to open Import screen.
  - 2. Click the Add button to open Add ThinkServer System Manager screen.
  - 3. Click the *Edit* button to open Edit ThinkServer System Manager screen.
  - 4. Click the Delete button to open Delete ThinkServer System Manager screen.

#### 3.4.2 Add ThinkServer System Manager Information

This window provides an interface for user to add a new ThinkServer System Manager. The default value of User Name is *Lenovo*, Password is *len0vO*.

ThinkServer System Manager Credential Management		
IP Address:		
User Name:	lenovo	
Password:	*****	
	Save Cancel	

Figure 14: Add ThinkServer System Manager information screen

#### 3.4.3 Edit ThinkServer System Manager Information

The window provides an easy interface for user to edit an existing ThinkServer System Manager.

The default value of IP Address, User Name and Password can be displayed.

ThinkServer System Manager Credential Management		
IP Address:	192.168.8.147	
User Name:	lenovo	
Password:	****	
	Save Cancel	

Figure 15: Edit ThinkServer System Manager info screen

### 3.4.4 Delete ThinkServer System Manager Information

This window provides an interface for user to manage credential information of ThinkServer System Manager.

	ThinkServer System Manager Credential Management			
		Host	IP Address	UserName
			192.168.8.147	lenovo
	<ul><li>✓</li></ul>		192.168.8.149	lenovo
Ľ				
		Import Add	Edit	Delete

Figure 16: Delete ThinkServer System Manager Information Screen.

### 3.5 Configure Auto Notify

System Center 2012 Configuration Manage	ger (Connected to ESM - ESM Central) (Evaluation, EXPIRED)	_ 🗆 X		
Home Search		^ 🔞		
All Saved Search Save Current Sa	ve Current Close			
Objects Searches - Settings Search S	Search As			
Scope Options Save	Active Search			
← → ▼ □ \ ► Software Library ► Over	rview 🔸 Lenovo ThinkServer Partner Pack 🔸 Configure Auto Notify	- 😂		
Software Library <				
	Configure Auto Notify			
Overview     Application Management	Configure Auto Notify			
Software Updates				
Operating Systems				
🔺 🧮 Lenovo ThinkServer Partner Pack				
🔉 Firmware Upgrade				
📢 Firmware Upgrade History				
Configure Lenovo Host				
Configure Add User Mail	Configure			
LDAP/AD Configuration				
SMTP Configuration				
Assets and Compliance				
Software Library				
Monitoring				
Administration				
Ready				

Figure 17: Configure auto notify screen

### 3.5.1 Add User Mail

The window provides an interface for user to choose which users should be notified.

- User Name: The user should be notified.
- Mail Address: The mail address.
- Upgrade Complete: whether the user should be notified when a firmware upgrade has finished (Failed or Succeed).
- Auto Notify: whether the user should be notified when a monitored device needs a firmware upgrade.

			Add User Mail			×
	User Con Use	ifiguration er Name:		Add		
ſ	User List					
		User Name	Mail Address		Upgrade Complete	Auto Notify
		user1	esmpro@mail.esmmailsv		~	<ul> <li>Image: A start of the start of</li></ul>
		user	esmpro@mail.esmmailsv		~	✓
			S	ave Del	ste	Cancel

Figure 18: Add User Mail screen

Click the [Save] button to save email info into the local database.

#### 3.5.2 LDAP/AP Configuration.

This window provides an interface for user to configure an available LDAP or AD server.

LDAP/AD Configuration		
Protocol: O LDAP O AD Server IP: 192.168.8.142 Domain: Testdomain.com User Name: Administrator Password: ********* OK Cancel	] ] ]	

Figure 19: LDAP/AD configuration screen

### 3.5.3 SMTP Configuration

The window provides an easy interface for user to specify a SMTP server used to send notification mails.

SMTP Configuration			x
Server IP: Server Port:	25	Default	
	OK	Cancel	

Figure 20: SMTP Configuration screen

## 4 Firmware Upgrade Notify Service

A service named *Lenovo Upgrade Notify Service* will be installed as *Auto Start* after Lenovo ThinkServer Partner Pack has been installed.

Properly configured as 3.4 described, the service will run in background to check all monitored devices to see if any device has a newer version of firmware than other compatible devices. When found, the service will send a mail contains all devices which need a firmware upgrade to all configured address to notify corresponding users.

### 4.1.1 Mail Notification Time

Lenovo Upgrade Notify Service will send mail in two cases:

- 1. The service can send mail when firmware update finished, regardless of success or failure.
- The service can send mail when it detects a new version firmware. Service will check all managed host's firmware version every 30 minutes, and to get the highest firmware version. When any lower firmware version has been found, service will trigger mail.

#### 4.1.2 Mail Format

 The mail of update complete. Subject: Notify User Firmware Upgrade Finished Body:

Firmware upgrade finished:		
Firmware Type	HOST	Status
ThinkServer System Manager	192.168.8.147	Succeed
This is a system generated mail, ple	ease do NOT reply di	rectly.

 The mail of auto notification.
 Subject: Firmware Upgrade Notify Body:

New Firmware Versi	New Firmware Version detected (Grantly):			
ThinkServer System Manager: Version (1.8.16888)				
BIOS:				
Product	Name		Version	
RD6	50		1.12.0	
RD350/1	RD450		0.96.0	
Windows Driver Pac	kage for Deploy	yment	Manager: Version (4.3.41)	
Firmware listed belo	w can be upgrad	led:		
ThinkServer System	Manager:			
IP	)		Current Version	
192.168	.8.147		1.6.61423	
BIOS:				
IP	Product Nat	ne	Current Version	
192.168.8.147	RD650		1.10.0	
192.168.8.149	RD450		0.95.0	
Windows Driver Pac	kage for Deploy	ment	Manager:	
IP	)		Current Version	
192.168	.8.149		0.0.0	
New Firmware Versi	on detected (RC	2750):		
ThinkServer System	Manager: Versi	on (2.2	2.0)	
BIOS: Version (0.22.	0)			
Firmware listed belo	Firmware listed below can be upgraded:			
ThinkServer System	Manager:			
IP			Current Version	
192.168	.8.121		2.1.0	
BIOS:				
IP Current Version				
192.168	.8.121		0.21.0	
This is a system generated mail, please do NOT reply directly.				

# 5 Troubleshooting

### 5.1 Error messages

This table displays the Configure Lenovo Host error messages and their resolutions.

Error Message	Resolution
There are no suitable machine.	Please connect one or more 5 <sup>th</sup> generation machine ThinkServer System Manager.
The ThinkServer System Manager IP is existing.	Delete the ThinkServer System Manager add again.
The specified server is unable to connect.	Check whether the SCOM server has installed.
Failed to delete ThinkServer System Manager Info.	The local database operation failure, please try again.
Domain Name cannot be empty.	Please enter a valid domain name.
Failed to edit ThinkServer System Manager Info.	The local database operation failure, please try again.
Password cannot be empty.	Please enter a valid password.
User Name cannot be empty.	Please enter a valid user name.
SCOM Host cannot be empty.	Please enter a valid SCOM host.
Please select at least one row to remove.	Select only one row of information for editing.
A password must be minimum 1 character long and maximum 16 characters long. White spaces are not allowed.	Please enter the password with 1-16 characters) specification character.
Username must be minimum 1 ASCII character and maximum 16 ASCII characters. User names are case-sensitive.	Please enter the characters in conformity with the (1-16 ASCII) standard.

This table displays the Firmware Upgrade Lenovo host error messages and their resolutions.

Error Message	Resolution
The Bundle File Name cannot be empty.	Please enter a valid bundle file name.
The Bundle Path cannot be empty.	Please select a valid bundle file.
Please input a valid IP address.	Please enter a valid IP address.
The Password cannot be empty.	Please enter a valid password.

The Protocol cannot be empty.	Please enter a valid protocol.
The User Name cannot be empty.	Please enter a valid user name.
Please select at least one row to upgrade.	Please check at least one row.
There are no ThinkServer System Manager Information, please execute Configure Lenovo Host.	Local database is in the absence of ThinkServer System Manager information, please go to 【ThinkServer System Manager Configuration Management】.
The specified bundle file is not existed	Please make sure that the bundle file path is valid when choosing a network location. To check the availability: Samba (CIFS): type the full path of the bundle files folder into the address bar of Windows Explorer and press <i>Enter</i> , input username and password, confirm. NFS: execute "mount // <u>yourNFSIP/yoursharefolder</u> Y:", check whether or not your NFS path can be mounted and show itself inside Windows Explorer. TFTP: use any ftp tool or just Windows Explorer to access the TFTP server. Note: The specified path cannot contains of  it must been replaced by /

This table displays the configure auto notify error messages and their resolutions.

Error Message	Resolution
Domain cannot be empty.	Please enter a valid domain name.
Password cannot be empty.	Please enter a valid password.
Server IP cannot be empty.	Please enter a valid server IP.
The LDAP/AD is not applicable, please check your input.	Please check the LDAP/AD server Settings.
User Name cannot be empty.	Please enter a valid user name.
The SMTP Server is not applicable, please check your input.	Please contact the mail server administrator, and check if the mail server is accessible.
Server IP cannot be empty.	Please enter a valid server IP.
Server Port cannot be empty.	Please enter a valid server port.
Mail address is not exist.	Given user name doesn't have a valid email

	address, please enter a user name that has a valid email address.
The User Name already exists.	Given user name is already existing in the local database, please enter another one.
Save failed.	The local database operation failure, please try again.
User Name cannot be empty.	Please enter a valid user name.
The mail address removed failed!	The local database operation failure, please try again.
Please select at least one row to remove.	Please select at least item which want to remove.

## 6 Appendix A. Notices

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