

SysFreezer 6.0 Product Overview

System Recovery / Data Security / Asset Survey / Remote Control / Cost Saving

I. Product Introduction

1. Stand-Alone Version

SysFreezer “Stand-Alone” is a version suitable for single workstation.

■ [Product Characteristic]: System Recovery & Data Security

To meet the requirement of user’s realistic operation and bring “System Recover & Data Security” into practice more efficiently, SysFreezer is capable to store up to 30 different states of Windows operating system and allows switching back and forth among different states without affecting data in hard disk.

■ [Common Problems]: System Malfunction

Computer has become an essential tool for working and learning. Frequent computer users often have to face the following system failures. These problems are annoying and difficult to deal with. They usually need IT expert’s aid to fix.

- Improper operation causing computer crash, Windows system corruption, system instability, accidental file deletion, and data loss.
- System being crashed by intentional destruction or hacker attack.
- System efficiency being reduced; system can’t be operated by normal procedure.
- System configuration being corrupted or eliminated and can’t be recovered.
- System failed due to virus infection.
- Partition been intentionally formatted or deleted.
- Unable to remove software after its installation failed.
- System failed to start up following data corruption caused by power interruption.

■ [Practical Function]: Instant Recovery

SysFreezer “Stand-alone” version is a utility tool designed and developed to overcome the problems above. With SysFreezer installed, whenever the system has a problem such as Format, Fdisk, deleting partition or repartitioning hard disk, you only press Reset button and the system will be instantly restored to the state before the problem occurred. In this case, you can avoid re-installing operating system and application programs as well as re-configuring the system. Thus plenty of time for maintenance can be saved.

2. Network Version

In addition to be used as “Stand-alone” version for single workstation, SysFreezer also supports both LAN and WAN network environments.

■ [Product Characteristic]: Centralized Management & Instant Recovery

Some PC management/maintenance utility products are huge in size and expensive. They usually require not only dedicated

servers and databases but also operations by professional IT staffs. Such utility software is not suitable to every different kind of corporate.

SysFreezer doesn't require a dedicated server based on its design. No matter where Client PCs are, they can be managed and maintained by the central Console as long as they can connect to the network. The characteristic of "Centralized Management & Instant Recovery" reduces the work load and enhances the work efficiency of the administrator.

■ **[Common Problems]: Heavy maintenance workload**

Most PC problems within the corporate are involved with faulty operation, virus infection, incorrect setting and etc. IT staffs would engage lots of their time with the maintenance works for such routine and low-technique problems. This could generate significant work loads for IT staffs. Below are some examples:

- IT staffs need approach each of the hundreds or thousands of PCs in a corporate to take inventory of software and hardware assets.
- How could IT staffs count and deal with all the PCs inside the corporate using illegal software?
- When installing new software or upgrading application software, IT staffs need repeat the same installation process for hundred times.
- When purchasing a batch of new PCs, IT staffs need approach each of them to install particular software programs.
- How could IT staffs shortly restore the information system when it's infected with virus?
- How could IT staffs have the system automatically recover from a crash caused by improper operation of computer beginner or accidental deletion of important data?
- How could branch offices in remote locations efficiently manage and maintain their PCs at minimum costs?
- For public use PCs (e.g. computer lab, cyber café and library), IT staffs need regularly do the following routine works: scanning disk for virus, anti-virus update, Windows update, patch update, reinstalling OS and application software and resetting computer parameter.

■ **[Practical Function]: Centralized Management and Maintenance**

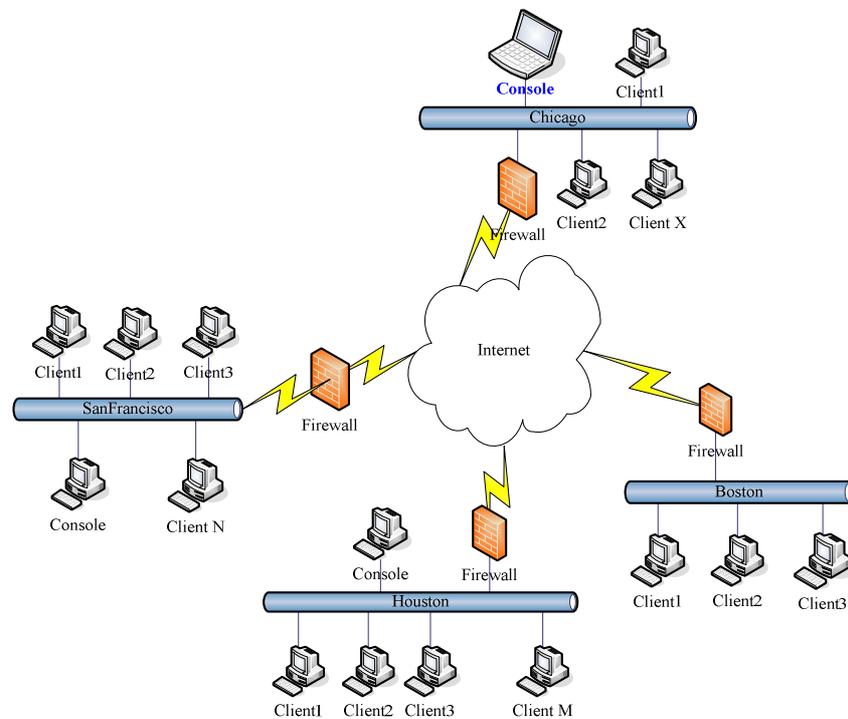
Overall, the enterprise information system nowadays has become huge and complicated. With SysFreezer, IT staffs can manage and maintain all PCs of the whole organization including remote PCs in different locations from a central Console PC through the network. This way most common PC problems and routine works can be easily done. Here are some examples and their benefits:

Examples	Benefits
Client's PC problems can be resolved more quickly. For system problems caused by program error, improper operation, hacker attack or virus infection, system and data can be quickly restored to normal state.	The possibility to interrupt works is minimized. This can efficiently reform the working environment and enhance the job satisfaction of each functional division's employees.
Taking inventory of computer software and hardware assets is easy, but it's very niggling and time-consuming. Also human error could happen in this operation. With "Asset Management" function, inventory for software and hardware assets can be quickly taken and a statistics report will be automatically generated.	Restrain software piracy and prevent hardware loss or replacement. IT staffs can specifically identify which software should be upgraded and which hardware should be renewed in order to ensure efficient use of computer resource.

<p>Forming online Help Desk by remote management and maintenance functions allows client to request instant online support regardless of geographical limitation. No matter what vital problems on client PC such as Windows crash, system instability, accidental file deletion, file corruption, virus infection and intentional system configuration change, the administrator can fix most of them from the console PC and instantly restore client PC to the previous normal state.</p>	<p>Shorten the process and approach for system support and reduce costs of labor, traffic, time and traveling for maintenance works. IT staff can ensure normal operation of enterprise information system through network and information technologies at least cost and time.</p>
<p>When a client PC experiences a problem and requests supports from IT division, the administrator, no matter whether he is inside or outside the company, can connect to it immediately and fix the problem by remote functions such as remote control, file transfer and remote command. Also functions such as “system instant recovery” and “NetCopy” can shorten the problem-solving process.</p>	<p>Ensure and improve the stability of the computer system. This can enhance the productivity and competitiveness of the company.</p>
<p>Managing client PCs on the network centrally can reduce the difficulties of system management. Works such as PC maintenance, asset management, system recovery, etc. can be performed on remote PCs by network and system technologies. The amount of PC supported by each IT staff can be increased and the work load for technical support can be reduced.</p>	<p>Allow IT staffs who originally take charge of technical support having spare time and energy to engage in more productive and value-added jobs.</p>

■Illustration:

SysFreezer is a software product which is easy to install, maintain and remove. Its network version requires neither additional network hardware devices nor extra rewiring works. The hardware/software requirement for SysFreezer implementation is not demanding. There is no need to set up a network server. Installation can be easily completed with peer-to-peer network formed by Windows and configured with TCP/IP communication protocol. Besides, the modular design for various functions of SysFreezer strengthens the expansion capability for future upgrade. Below is the diagram of the product structure:



Nowadays, most companies use computer and network as operation tools. Since most employees are not computer experts, it's certainly important to manage and maintain all computers in a company and ensure their stability for daily operation. Whenever a computer system in headquarters or worldwide branch has a problem caused by sudden breakdown, virus attack or improper use, the work efficiency and division productivity will be notably affected if it can't be fixed immediately. Contrarily, if the company implements proper utility software, most computer problems can be promptly resolved from a remote location. This way the cost for computer maintenance and management can be greatly reduced.

The diagram above is an example for product structure. This company establishes four branches in different locations to service their customers. The personnel cost will be higher if they recruit four MIS staffs for PC maintenance. Or else it's hardly to instantly maintain and manage computers due to geographical situation. In this case, it's essential to implement IT products to reduce cost as well as enhance work efficiency.

If this company implements SysFreezer, the Console PC in its headquarters in Chicago can manage not only all local Client PCs but also all Client PC in the branches in San Francisco, Houston and Boston through the Internet.

SysFreezer enables the administrator to eliminate the geographical restriction and accomplish centralized management and maintenance from the Console PC in Chicago through the network. Also the administrator can divide Client PCs (e.g. General Manager PC, accountant PC, advisor PC and employee PC) into different groups and grant IT staffs different authority for each group. Besides, the Console PCs in San Francisco and Houston can manage local Client PCs within the LAN.

Due to possible limited resource of fixed IP address in some areas, SysFreezer supports login by IP address as well as by Dynamic Domain Name Service (DDNS). For example, you can enter "SysFreezer.demogroup.com" as Console address on Client PC. Then it will sign into the Console PC in headquarters immediately to be managed. In this case, no matter where the administrator of headquarters is, he can immediately provide support to all Client PCs of the entire organization as long as he can access the Internet.

Through the relevant functions of SysFreezer, you can aid the company with Client/Server computing environment to

accomplish “Centralized Management & Instant Recovery” for its information system. This can eliminate the geographical restriction, centrally manage Client PCs on the network, quickly maintain the entire system and manage software and hardware equipments. After all, business operation and information system can maintain normal condition, maintenance cost can decline and working efficiency of each division can rise.

II. Version Description

■Program

SysFreezer 6.0 ("Stand-alone" or "Client")	<ol style="list-style-type: none"> 1. Stand-alone: Workstation version for single PC. 2. Client: During the installation, SysFreezer 6.0 has an option "Network Module" which makes the PC as a Client controllable by Console.
SysFreezer 6.0 Console	The PC installed with "SysFreezer 6.0 Console" can control the Client PCs installed with both "SysFreezer 6.0" and "Network Module".

■Version

Category	Description	Key Type
SysFreezer 6.0 ("Stand-alone" or "Client")	Two registration methods for SysFreezer 6.0: <ol style="list-style-type: none"> 1. Register each PC from the local GUI. 2. Register multiple Clients through the network from the remote Console. 	<ol style="list-style-type: none"> 1. Serial No. key 2. License key
SysFreezer 6.0 Console for LAN	After a serial number for LAN version is entered on the Console PC, it can control only Clients under the same subnet.	License key
SysFreezer 6.0 Console for WAN	After a serial number for WAN version is entered on the Console PC, it can control Clients from different subnets or WAN.	License key
[Additional]: SysFreezer 6.0 Console	<ul style="list-style-type: none"> · When the amount of Clients is expanded, the customer can order a new Console license key in order to control those additional Clients. This new key is associated with the original Console license key and doesn't work for any other Console. · If the system of Console PC is completely reinstalled, you must enter the new key following the original key. The new key can't be used independently. 	License key

III. System Requirements

Hardware

Category	Console	Client
CPU	P4 521(2.8GHz) or above; other compatible CPU or above	Celeron 420(1.60GHz) or above; other compatible CPU or above
Hard drive	<input type="checkbox"/> 5400 RPM or above <input type="checkbox"/> 300MB free space or above	<input type="checkbox"/> 500MB free space or above <input type="checkbox"/> Capacity: 8GB or above <input type="checkbox"/> Support large capacity hard drives larger than 512GB <input type="checkbox"/> Support S-ATA / IDE / EIDE / SCSI hard drives <input type="checkbox"/> Support ATA 33 / 66 / 100 / 133 <input type="checkbox"/> File system: Support FAT32 / NTFS
RAM	According to the number of Client PCs: <input type="checkbox"/> Under 1,000 Clients: 512MB ~ 1024MB <input type="checkbox"/> 200MB more memory will be occupied whenever adding additional 1000 Clients for control. Also performing various functions on Clients will dynamically occupy memory. Thus it's recommended to add 1GB memory for every additional 1000 Clients.	256MB or above
Network card	10M / 100M / 1000M	
Display card	Support 32-bit color	
Sound card	No specific requirement.	

Software

Category	Console	Client
Operating system	<input type="checkbox"/> Windows 2000 / 2003 <input type="checkbox"/> Windows XP 32bit <input type="checkbox"/> Windows Vista 32bit Series	<input type="checkbox"/> Windows 2000 / 2003 <input type="checkbox"/> Windows XP 32bit <input type="checkbox"/> Windows Vista 32bit Series
	[Note]: "Non-recovered folder" function doesn't support Windows 2000 [Note]: Due to SysFreezer's recovery function (which recovers system data), please be cautious in the operation when it's installed in a Windows Server.	
Service pack	<input type="checkbox"/> Windows 2000: Service Pack 4 or above <input type="checkbox"/> Windows XP: Service Pack 2 or above	
Network configuration	<input type="checkbox"/> TCP/IP protocol <input type="checkbox"/> 10MB or above bandwidth <input type="checkbox"/> Console IP setting: Console requires a fixed IP or DNS name so that it can be addressed by Client.	
Browser	IE6.0 or above	

IV. Prior to Installation

[Notes]:

1. Please ensure that the computer works normally and meets the minimum system requirement.
2. The current user of operating system must have the authority of system administrator.
3. SysFreezer can only protect all the partitions of the first physical hard disk detected by BIOS. It can't protect data of any other hard disks in the computer.
4. When installing SysFreezer Client, each recovery point initially occupies 0.05% continuous hard disk space. For instance, you want to install SysFreezer Client Program on a 250GB hard disk and support a maximum of 5 recovery points. Then the installation of SysFreezer will require at least $[250\text{GB} \times 0.05\% \times 5 = 640\text{MB}]$ continuous space.

[Suggestions]:

1. If an older version of SysFreezer or a similar recovery product from other manufacturers has been installed, please must remove it!
2. Before installing SysFreezer, it's strongly recommended to perform "Scandisk" to check and fix hard disk error. Also please perform "Defragment" to defragment hard disk data. These two actions will enhance the efficiency of SysFreezer after it's installed.
3. Scan the entire system for virus and make sure the system is not infected by any virus. Then temporarily disable anti-virus software. This is because few anti-virus software products may consider SysFreezer's installation action a virus invasion.
4. CMOS setting
 - Disable the "Virus Warning" setting in CMOS.
 - Check the correspondence between the physical hard disk details and the hard disk parameters shown in CMOS. If any parameter is not correspondent, you have to access BIOS setting and verify the hard disk's model and capability.
5. If the system uses a multi-boot tool, please ensure that the multi-boot program installed in the system doesn't occupy MBR. If it does, you must remove the program; otherwise, the system might be affected after SysFreezer is installed.

V. SysFreezer 6.0 Features

1. “Stand-alone” or “Client”

SysFreezer “Stand-alone” is a version suitable for workstation. If “network management module” is selected during installation of SysFreezer, it will be expanded as a network version (LAN version or WAN version) and become Client which can be controlled by Console.

Function Category		Description	Stand alone	Client
User Interface	DOS mode	<input type="checkbox"/> Allow access to the “DOS mode” user interface by hotkey before Windows starts. PS2/USB mouse is supported in DOS mode.	•	•
		<input type="checkbox"/> The DOS mode enables recovery operation even while system is damaged. Client of LAN version or WAN version takes requests from Console through network to remotely execute functions such as NetCopy.		•
	Windows mode	<input type="checkbox"/> Product functions can be directly executed under the “Windows mode” user interface. Some commands require a reboot in order to take effect. <input type="checkbox"/> Simplified Windows GUI makes operation easy to understand. It offers two operation modes: (1) Regular mode: Large icon and button. Default control panel. (2) Advanced mode: Display full control panel for all functions. (Only “Admin” account can access advanced mode.)		•
Display / Hide tray icon	During installation, the administrator can select whether to “Display” or “Hide” the tray icon of SysFreezer under Windows. The administrator won’t recognize the user interface of SysFreezer if “Hide” is selected.	•	•	
	After Client signs into Console, the tray icon display/hide setting for Client can be managed from Console.		•	
Installation	Double-click automated installation	The parameters required for installation can be preset on “Setup.cfg” which must be saved in the same directory as “Setup.exe”. Then double click on Setup.exe and the installation will automatically complete. This installation method is suitable for large-scale implementation and saves manpower.	•	•
	Network management module	<input type="checkbox"/> SysFreezer can’t switch from “Stand-alone” to “Client” after installation is completed. <input type="checkbox"/> During installation, if “network management module” option is selected, SysFreezer will become Client controllable by “Console for LAN” or “Console for WAN”.		•
Upgrade	Automatic upgrade	<input type="checkbox"/> Client automatically checks whether any upgrade pack is available on Console; if any, Client will automatically download and install the upgrade pack. <input type="checkbox"/> Available option for automatic upgrade: When any upgrade pack is detected,		•

		<p>Client will prompt users. The upgrade pack will be downloaded and executed only if users confirm this operation.</p> <ul style="list-style-type: none"> □ Upgrade pack contains the Save setting which takes place right after the upgrade pack is installed. After SysFreezer is upgraded, system will automatically save the state as a new “dynamic recovery point” or the “primary recovery point” according to this Save setting. 		
	Manual upgrade	<ul style="list-style-type: none"> □ The built-in upgrade utility enables the administrator to manually install upgrade packs in order to upgrade SysFreezer. □ Upgrade pack contains the Save setting which takes place right after the upgrade pack is installed. After SysFreezer is upgraded, system will automatically save the state as a new “dynamic recovery point” or the “primary recovery point” according to this Save setting. 	•	•
	Upgrade history	<p>All upgrade history information of SysFreezer such as upgrade pack ID number, upgrade date and upgrade details is available to view.</p>	•	•
		<p>System automatically records the information of upgrade packs which Client has downloaded from Console.</p>		•
Uninstall	Prior to uninstall	<ul style="list-style-type: none"> □ The administrator has to enter a password in order to uninstall SysFreezer. Hard drive data will not be damaged after uninstall. □ You can select an action from the three options below prior to uninstall: <ul style="list-style-type: none"> (1) Recover to the state of “primary recovery point” (2) Recover to the state of any “dynamic recovery point” (3) Save current state of hard drive □ Uninstall from DOS mode does not damage hard drive data but will recover hard drive to the state of primary recovery point prior to uninstall. 	•	•
	Forcible uninstall	<p>The administrator can choose whether to forcibly uninstall SysFreezer. During uninstall, system keeps all non-recovered data (non-recovered folder and file). But if the partition doesn’t have enough free space to save non-recovered data in itself, user can do the follows:</p> <ul style="list-style-type: none"> (1) System will stop uninstall operation and warn the administrator to take a proper action to save non-recovered data. (2) Data in non-recovered folders of this partition will NOT be kept if the administrator chooses forcible uninstall. 	•	•
Product Characteristics	“Install and Play!”	<ul style="list-style-type: none"> □ SysFreezer only protects the first physical hard drive. □ SysFreezer has adopted “Install and Play!” technology for system recovery protection and has no requirement to re-partition hard drive, reserve buffering space or re-install operating system. 	•	•
	Recovery point	<ul style="list-style-type: none"> □ “Recovery point” includes primary recovery point and dynamic recovery point. Each “recovery point” denotes an independent Windows operating environment. □ Amount of recovery points: “Recovery point” includes a “primary recovery 	•	•

	<p>point” and maximum 29 independent “dynamic recovery points”. During installation, the administrator can set the limit for the amount of available recovery points (2~30 recovery points).</p> <ul style="list-style-type: none"> □ It only takes a reboot and a few seconds to finish saving the current state as a new “dynamic recovery point”. The time taken to update (save as) the “primary recovery point” depends on the volume of data. □ When saving a recovery point, the administrator has the option to replace (save as) an existing recovery point no longer needed in order to release the space occupied by it. 		
Switch back and forth between recovery points	<ul style="list-style-type: none"> □ Support multi-point recovery function. The administrator can arbitrarily switch hard drive state Back and FORTH between different recovery points □ Among different “recovery points”, the administrator can save each computer state (e.g. Working Environment 1, 2, 3...; Gaming Environment 1, 2, 3...) for various applications and switch back and forth to any “recovery point” without affecting the others. 	•	•
Dynamic hard disk space management	<p>(1) During installation: occupy very little hard disk space. During installation, each “recovery point” set for maximum occupies only 0.05% of hard disk space. For example, for a 100GB hard drive, each recovery point occupies only 50MB.</p> <p>(2) Daily use: allocate hard disk space dynamically. Regarding the buffer zone in hard drive, SysFreezer can dynamically acquire hard disk space according to the volume transition of protected data. The administrator does not need to reserve space in advance for buffer zone during the installation and can efficiently manage hard disk space.</p>	•	•
Automatic hard disk space optimization	<ul style="list-style-type: none"> □ Every time when a new recovery point is created, SysFreezer optimizes the protected data (combines all fragmental files and folders in hard drive to enhance system efficiency). □ System automatically checks the hard drive during system startup and verifies whether it’s necessary to automatically optimize the data protected by SysFreezer according to the detected condition of hard drive. Besides, the administrator can manually defragment hard drive under DOS mode to optimize hard drive space. 	•	•
Instant recovery	<ul style="list-style-type: none"> □ High speed: To execute Recover command, the administrator just needs to restart the computer and the system will be recovered to the selected recovery point instantly. □ Great protection: Protect the hard drive from harmful activities or improper operation through booting from C drive such as deleting files, formatting hard drive, and etc. In just a reboot, the protected partitions will be recovered to the state of an appointed recovery point. □ Slight loading: After SysFreezer’s drivers are installed, its kernel computing 	•	•

		<p>hardly affects the performance of the operating system.</p> <ul style="list-style-type: none"> □ Hard drive is under complete protection. All hard drive activities are monitored from the fundamental of Windows system. Whenever any data is updated in the hard drive, the update data is backed up in real time. 		
Settings	Recovery mode	<p>Three recovery modes are available under both DOS mode and Windows mode: (Action taken automatically upon every system bootup.)</p> <p>(1) Auto Recover: System is automatically recovered every time when it boots up. (Suitable for public computers in computer lab, Internet café, etc.)</p> <p>(2) Auto Reserve (No Recover): System keeps the current hard drive state and is not recovered every time when it boots up. (Suitable for home users.)</p> <p>(3) Time Recover: System automatically recovers every a certain amount of days.</p>	•	•
	CMOS protection	<ul style="list-style-type: none"> □ This feature protects the CMOS setting. Whenever CMOS setting is changed, it can be automatically restored to its original. □ Three types of CMOS protection available under DOS mode and Windows mode: <ul style="list-style-type: none"> (1) No protection (2) Automatic protection <p>If a hard drive parameter in CMOS is changed, it will automatically be recovered to the original CMOS setting.</p> (3) Manual protection <p>If a CMOS setting is changed, a dialog will pop up in the next system boot to offer users three options: Recover, Save and Ignore. (If you select Ignore, system will NOT prompt a warning in the future whenever this particular setting is changed again.)</p> □ CMOS protection feature may fail due to incompatibility with some motherboards. 	•	•
	Password protection	<ul style="list-style-type: none"> □ Due to security concerns, all operations for system recovery require entering the password to access the user interface so that malicious man-made damages can be avoided. □ Change password: The administrator is required to enter the old password and then the new password in order to change the password setting for system access. 	•	•
	User authority	<ul style="list-style-type: none"> □ System built-in “Admin” is the super administrator that possesses the greatest authority. Admin is empowered to create multiple user accounts and set different authority for each. This can prevent shared computers from system failure caused by improper operation. □ Available user authority items include “One-Time No Recovery”, “Recovery”, “Create Recovery Point”, “Settings”, “Folder Manager”, “Product Upgrade”, “Network Configuration”, “Set Console Address”, etc. □ Admin is empowered to authorize other user accounts to change the password 	•	•

		as well as suspect other user accounts.		
	Low disk space alert	Able to set a warning point for low free space in protected partitions. System monitors the usage status of hard disk all the time. Whenever the available disk space falls under a certain percentage, the system will pop up a warning message to remind the administrator to release more space through the following two methods: (1) Update “primary recovery point”. (2) Delete “dynamic recovery point” which is no longer used.	•	•
	Automatic detection & action	Detect any change of the current system and trigger a preset action corresponding to it. <input type="checkbox"/> Automatically detect changes-- System can automatically detect the following changes: (1) A new Windows update is installed. (2) A new application program is installed under Windows. (3) The appointed file or folder has been modified. <input type="checkbox"/> Preset corresponding action-- When a change is detected, trigger one of the following preset actions: (1) Prompt a warning to users. (2) Automatically create a “dynamic recovery point” at the next boot up. (3) Immediately create a “dynamic recovery point” to save the current hard drive state.	•	•
	Network parameter	Able to set the local computer name, IP, gateway and DNS.	•	•
	Communication with Console	<input type="checkbox"/> Set the port for communication with Console: To firm up network security, SysFreezer uses one port only. <input type="checkbox"/> Set the IP address and DNS of the Console for communication. Support setting multiple Consoles. <input type="checkbox"/> If multiple Consoles have been set, Client will automatically log in the one which responds first. <input type="checkbox"/> Console can be addressed by computer name (valid only for LAN), IP address or DNS.		•
	“Microsoft Update” server setting	Able to set the location of the update server (WSUS server) for “Microsoft Update” during installation.		•
System Recovery	Hard drive protection types	<input type="checkbox"/> During installation, the administrator can self define the partitions to be protected. They can select one of the following hard drive protection types according to their needs: (1) Protect system partition (C:) only (2) Protect all partitions (3) Protect system partition (C:) and any other selected partitions.	•	•

	<ul style="list-style-type: none"> □ During installation, the administrator is allowed to select the partition(s) to be protected. This makes flexible protection feature for the system. The administrator is strongly recommended to protect the system partition of the first physical hard disk. 		
Primary recovery point	<p>(1) Establishment</p> <p>When the administrator sets up SysFreezer under Windows, it requires a reboot to complete the installation. The Windows environment right before the reboot is the state of the “primary recovery point”.</p> <p>(2) Update</p> <ul style="list-style-type: none"> □ After SysFreezer is installed, the administrator can update the “primary recovery point” by the following two methods: <ul style="list-style-type: none"> (a) Save the current hard disk state or any existing “dynamic recovery point” as the “primary recovery point” under DOS mode. (b) System recovers to the state of any existing recovery point and switches to Install Mode. After that, the “primary recovery point” is updated. □ All dynamic recovery points will be permanently deleted at the time when the primary recovery point is updated. 	•	•
Dynamic recovery point	<p>(1) Save</p> <ul style="list-style-type: none"> □ Create “dynamic recovery point”: The administrator can save the current state of the system as a new “dynamic recovery point”. □ The administrator can input some information including created time, date, and description for each new “dynamic recovery point”. The information can be displayed in various languages under Windows. But under DOS, it can be displayed or input in English only. □ Support up to 29 “dynamic recovery points”. When the maximum number of recovery points is reached and the administrator continues creating a new point, the system will automatically replace the oldest one. <p>(2) Add automatically</p> <p>Automatically create a new recovery point after:</p> <ul style="list-style-type: none"> (a) New Windows updates are installed. (b) A new application program is installed. (c) The appointed file or folder is modified. (d) SysFreezer is upgraded. <p>(3) Delete</p> <p>The administrator can delete any “dynamic recovery point” except the “primary recovery point” to release disk space. For those data which will be no longer used, the administrator can delete the corresponding recovery point.</p>	•	•
Recovery	<ul style="list-style-type: none"> □ The administrator can switch the hard disk state back and forth between different existing recovery points; which means the administrator can recover 	•	•

		<p>the system to any “dynamic recovery point” or the “primary recovery point”.</p> <ul style="list-style-type: none"> □ The administrator can switch the hard disk state between different recovery points. This operation will neither affect other points nor make them disappear. 		
	One-time no recovery (Reserve)	<ul style="list-style-type: none"> □ Executing “One-time no recovery” will keep the current hard disk state and restart the PC. After reboot, the hard disk will pick up from the last state. (No recovery is performed.) □ “One-time no recovery” function is effective only when system is in “Auto Recover” mode which automatically recovers the system at each boot. Executing “One-time no recovery” function will have the system excepted from automatic recovery only at the next boot. 	•	•
	Install Mode	<ul style="list-style-type: none"> □ When the administrator needs to add or modify a large amount of data and confirm that other existing recovery points will no longer be used, it is recommended to execute “Install Mode” to save the operation time of updating the primary recovery point. □ Executing “Install Mode” will temporarily disable the protection of system recovery in order to facilitate adding or modifying a large amount of data without uninstalling SysFreezer. When data update is complete, the present hard disk state will be saved as the “primary recovery point”. (All the other dynamic recovery points will be automatically deleted.) □ Hard disk is temporarily unprotected in Install Mode. Since all updates will be written to hard disk and not undoable, the administrator must do all the operations in Install Mode with caution. □ Option to either save the current hard disk state or recover to the state of a particular recovery point prior to entering Install Mode. □ Two methods to exit “Install Mode”: <ul style="list-style-type: none"> (1) Exit manually (Default) The administrator can manually have the system exit Install Mode (2) Exit automatically The administrator can set the system to automatically exit Install Mode after reboot. This can prevent the system from being unprotected due to human carelessness. 	•	•
	Resume feature	<p>When saving the current state as the “primary recovery point”, a large amount of data in hard disk is transferred. Data could be lost due to purposeful termination, unexpected power off or irregular shutdown. With the Resume feature, SysFreezer will automatically pick up from where it left off after reboot and continue the unfinished work. No data will be lost.</p>	•	•
Data Security	Folder synchronization	<ul style="list-style-type: none"> □ Set automatic file or folder synchronization between two folders for backup purpose. The administrator can define the conditions for automatic synchronization according to their operation or need. System provides three 	•	•

		<p>modes to trigger “Folder Synchronization”:</p> <p>(1) Automatically trigger synchronization when a USB drive is connected.</p> <p>(2) Time synchronization: Automatically trigger synchronization at a scheduled time.</p> <p>(3) Automatically trigger synchronization when any file or folder is updated.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Able to set multiple folder/file synchronization tasks. Each task can be named so that it can be easily managed. <input type="checkbox"/> Support simplex and duplex synchronization between “source file” and “destination file”. <input type="checkbox"/> Option to whether apply synchronization setting to sub-folders. <input type="checkbox"/> Define inclusions and exclusions for synchronized file types <ul style="list-style-type: none"> (1) “Folder Synchronization” allows setting inclusions for file types. E.g. Set to synchronize *.doc files only. (2) “Folder Synchronization” allows setting exclusions for file types. E.g. Set to synchronize all types of files except *.doc and *.xls. <input type="checkbox"/> Able to make a separate synchronization policy for the three file operations: Add, Delete and Rename. <input type="checkbox"/> System can automatically back up the “source file” while running “Folder Synchronization”. 		
	Non-recovered folder	<ul style="list-style-type: none"> <input type="checkbox"/> Reserve space for non-recovered folders: Set the reserved space for “non-recovered folders” during installation. <input type="checkbox"/> All data in protected partitions will be restored to a previous state after executing Recover command. But with the “non-recovered folders” function of SysFreezer, the administrator can define which files or folders are non-recovered and will remain as is after recovered. <input type="checkbox"/> Changes to non-recovered folders or files are synchronized among different recovery points. <input type="checkbox"/> Folders and files in “non-recovered folders” will be kept and saved after SysFreezer is removed. 	•	•
	Lock folder	This feature is to lock particular folders from being accessed. The administrator needs enter a password in order to access the locked folders. This feature can protect data from being accessed by unauthorized users.	•	•
Application Tool	Multiple boot utility	<ul style="list-style-type: none"> <input type="checkbox"/> Offers a multiple-boot utility which can split a hard drive into multiple partitions and each partition can be used to install a different OS. Maximum support 30 partitions for 30 independent operating systems. <input type="checkbox"/> Supported operating systems: Windows 2003 Server, Windows XP 32-bit and Windows Vista 32-bit 	•	•
	Backup management	<ul style="list-style-type: none"> <input type="checkbox"/> The administrator can directly execute “NetCopy” function without a boot disk. <input type="checkbox"/> Local hard disk copy: Support hard drive cloning on the same local machine. 	•	•

		Copy from a hard drive to maximum three others at the same time. [Note]: Network version support “NetCopy” function.								
		Able to change settings such as computer name, IP, DNS, etc. under Windows.		•						
	DOS command	Support DOS commands for user’s operation.	•	•						
	Request support	Clients can inform the console of any problem and request assistance from the console.		•						
Local Properties	Information of protected partitions	Display “recovery point” details:	•	•						
		<table border="1"> <tr> <td>(1) Information of all recovery points</td> <td>(4) Used space in protected partitions</td> </tr> <tr> <td>(2) Hard disk size</td> <td>(5) Free space in protected partitions</td> </tr> <tr> <td>(3) Total space in protected partitions</td> <td>(6) Disk space pie chart</td> </tr> </table>			(1) Information of all recovery points	(4) Used space in protected partitions	(2) Hard disk size	(5) Free space in protected partitions	(3) Total space in protected partitions	(6) Disk space pie chart
		(1) Information of all recovery points			(4) Used space in protected partitions					
(2) Hard disk size	(5) Free space in protected partitions									
(3) Total space in protected partitions	(6) Disk space pie chart									
<table border="1"> <tr> <td>(1) Total reserved space</td> <td>(3) Available space</td> </tr> <tr> <td>(2) Used space</td> <td>(4) Disk space pie chart</td> </tr> </table>	(1) Total reserved space	(3) Available space	(2) Used space	(4) Disk space pie chart						
(1) Total reserved space	(3) Available space									
(2) Used space	(4) Disk space pie chart									
Information of non-recovered data	Display the usage status of the hard disk space reserved for “non-recovered file/folder”:	•	•							
Hard drive status		Display the usage status of each partition:	•	•						
		<table border="1"> <tr> <td>(1) Disk label</td> <td>(4) Used space</td> </tr> <tr> <td>(2) File system</td> <td>(5) Free space</td> </tr> <tr> <td>(3) Total size</td> <td>(6) Protection type</td> </tr> </table>			(1) Disk label	(4) Used space	(2) File system	(5) Free space	(3) Total size	(6) Protection type
		(1) Disk label			(4) Used space					
(2) File system	(5) Free space									
(3) Total size	(6) Protection type									

2. Console

SysFreezer supports two different network environments including LAN and WAN. Installation of SysFreezer Console enables the administrator to do remote setting , remote management, remote maintenance, remote backup management to one, partial or all Clients through LAN or WAN. Numerous Clients are centrally managed and maintained.

Category		Description	Console	
			LAN	WAN
Network Communication	Network structure	<input type="checkbox"/> Running standard TCP/IP protocol. <input type="checkbox"/> Regardless of static or dynamic IP, the network connection between Console and Client can be achieved as long as the network supports TCP/IP.	•	•
	Parameter setting	<input type="checkbox"/> The administrator can define the port number for the communication between Client and Console to prevent communication from being affected by network. <input type="checkbox"/> For the functions which require higher bandwidth, SysFreezer offers three	•	•

		<p>communication modes for different network environments:</p> <p>(1) LAN mode: Suitable when all clients are from LAN.</p> <p>(2) WAN mode: Suitable when all clients are from WAN.</p> <p>(3) Mixed mode: Suitable when clients are from both LAN and WAN.</p> <p>SysFreezer LAN version only support “LAN mode”. SysFreezer WAN version supports all the three modes.</p>		
	Console startup management	<p><input type="checkbox"/> Management authority setting</p> <p>The built-in user account “Admin” on Console is the super administrator with the greatest authority. With “Admin”, multiple administrator accounts with various authorities can be added. In other words, various authorities can be given to different administrators according to their responsibilities to avoid improper operation. When Console starts up, it will have different functions available based on the login account.</p> <p><input type="checkbox"/> Automatic startup</p> <p>Available setting to automatically initialize the Console Program after system startup without entering the user account and password.</p>	•	•
	Client quantity	LAN version: A Console can manage up to 253 Clients.	•	
		WAN version: No specific limit from the software aspect. For hardware, it’s recommended to add 1GB memory for every 1000 clients.		•
	Connection	When Client starts up, it will try to log in Console. If the Console is online and accepts the login request, the Client will be controlled by the Console.	•	•
Product Management	Mass registration for clients	Register remote clients from a central location which is Console. With this mass registration feature, the administrator doesn’t need to approach each client for registration.	•	•
	Product upgrade	<p><input type="checkbox"/> When any upgrade version of SysFreezer is available, all logged-in clients will be automatically upgraded to the new version. The administrator can benefit from this feature to easily complete the upgrade for numerous clients.</p> <p><input type="checkbox"/> This product update feature supports upgrades for DOS kernel, driver and any module under Windows.</p> <p><input type="checkbox"/> The administrator can distribute the upgrade pack to online clients any time through the Product Update feature to upgrade the Client Program.</p> <p><input type="checkbox"/> The administrator can check which clients have downloaded the upgrade pack.</p> <p><input type="checkbox"/> The administrator can start or stop the download task for upgrade packs any time.</p>	•	•
	Remote uninstall	<p><input type="checkbox"/> The administrator can remotely uninstall SysFreezer Client Program from Console PC. The hard disk data on Clients will not be damaged after uninstall.</p> <p><input type="checkbox"/> Select the action prior to uninstall</p>	•	•

		<p>When uninstalling SysFreezer, you can choose to execute one of the following actions prior to uninstall:</p> <ol style="list-style-type: none"> (1) “Primary recovery point” (2) Any “dynamic recovery point” (3) Save current hard disk state <p><input type="checkbox"/> If Client is running out of hard disk space, the administrator can choose whether to forcibly uninstall SysFreezer. When removing SysFreezer, system keeps all non-recovered folders and files. But if the partition doesn’t have enough free space to keep the non-recovered data, the administrator can take one of the following actions according to Client’s status:</p> <ol style="list-style-type: none"> (1) System stops the uninstall process and prompt a warning to users so that they can take proper actions to keep non-recovered data. (2) If the administrator chooses to forcibly uninstall SysFreezer, the non-recovered data in this partition will not be kept. 		
	System log	SysFreezer provides “system log” files which record computer operation errors for reference purpose.	•	•
Remote Setting	Network configuration	<p>Set the network configuration on remote Client so that the administrator doesn’t need to approach each Client:</p> <ol style="list-style-type: none"> (1) Computer name <p>When there are multiple Clients, it is not necessary to set the computer name for each. A sequentially numbered extension following the computer name you set will be automatically assigned to each Client.</p> (2) IP setting <p>Set to automatically obtain IP (DHCP) or assign IP, subnet mask and gateway to each computer.</p> (3) DNS setting <p>Set “Preferred DNS” and “Alternate DNS” or disable DNS server.</p> 	•	•
	Remote parameter setting	<p>On Console, the administrator can do the following settings for remote Client:</p> <ol style="list-style-type: none"> (1) Set the administrator password for local operation on Client. (2) Set the recovery mode of Client: Auto Recover, Auto Reserve (No Recovery) or Time Recover. (3) Set the CMOS protection mode of Client: Unprotected, Auto Recover or Manual Recover. (4) Set the alert for low hard disk space of protected partitions on Client. 	•	•
	CMOS synchronization setting	<p><input type="checkbox"/> This feature can synchronize the CMOS of all Clients. The administrator first selects a PC as the source PC and copies its CMOS settings to other Clients.</p> <p><input type="checkbox"/> Notes for CMOS synchronization setting:</p> <ol style="list-style-type: none"> (1) Client PC must be in the same brand and model. 	•	

		<p>(2) CMOS password can't be synchronized.</p> <ul style="list-style-type: none"> <input type="checkbox"/> CMOS synchronization setting may not work due to compatibility issues with some PCs. 		
	Set Console address	<ul style="list-style-type: none"> <input type="checkbox"/> The administrator on Console can set the Console address list (IP or DNS) on remote Client for communication purpose. <input type="checkbox"/> When there are multiple Consoles, the administrator can set a list of Console addresses for Client to log in. For example, when adding a new Console address, the administrator can add it to the list or replace an existing one on the list with it on Client. <input type="checkbox"/> Able to have Client immediately re-log in Console based on the new Console address list. <input type="checkbox"/> Client will try to contact Console by IP or DNS starting from the first one on the list and so on. (e.g. If the first Console on the list is not online, Client will try to contact the second one.) <input type="checkbox"/> Allow the administrator to set the port number for the communication between Client and Console. 	•	•
	Import / Export configuration of Console	<ul style="list-style-type: none"> <input type="checkbox"/> Able to export various setting parameters of Console as a file which can be either restored to the Console in the future or imported to a different Console. <input type="checkbox"/> Able to import backup configuration file to a new Console. No need for re-configuration. 	•	•
	Display / Hide Client Icon	<p>(1) Client icon display</p> <ul style="list-style-type: none"> <input type="checkbox"/> The administrator can define the name display type (computer name, login name or customized name) of Client icons. <input type="checkbox"/> Four display types of Client icons: Large icon, small icon, list and details. <input type="checkbox"/> "Details" type displays clients' detailed information including computer name, login name, all recovery points details, current recovery point, maximum no. of recovery points, CMOS protection mode, recovery mode, the title of the dialog being opened and the license registration status. It also allows the administrator to drag and move the columns according to their priority. <input type="checkbox"/> Interface setting: Able to choose whether to load the client icon information from last time. <input type="checkbox"/> Able to choose to display either the computer name or the login name for Client icon. <p>(2) Hide client tray icon</p> <p>The SysFreezer tray icon on the bottom right of the screen can be set as hidden.</p>	•	•
Remote	Network	<ul style="list-style-type: none"> <input type="checkbox"/> Able to inspect the network connection state (e.g. average delay, packet 	•	•

Management	inspection	<p>loss, TCP rate and route trace information) between Console and an appointed Client or IP address. This provides reference for problem solving when network connection is not normal.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Able to trace all passing nodes from Console to the appointed Client or IP address and test the network connection condition from each node to Console. <input type="checkbox"/> Able to test the upload/download transmission rate between Client and Console. <input type="checkbox"/> Assess the overall network status between the appointed Client and Console according to the final test result. 		
	Search client	<ul style="list-style-type: none"> <input type="checkbox"/> When there are many clients, you can quickly search clients by the following search methods and automatically create a group: (System supports wildcard characters.) <ol style="list-style-type: none"> 1. by a range of IP addresses 2. by computer name 3. by client login name <input type="checkbox"/> Support multi-condition search. (e.g. IP=192.168.0.*; CN=ABC*; CN denotes computer name.) 	•	•
	Group management	<ul style="list-style-type: none"> <input type="checkbox"/> SysFreezer offers two methods to define a group: <ol style="list-style-type: none"> (1) Conditional: Clients can be set as the same group when they are all fitting a particular condition. For example, IP address is under a certain range, computer name includes a certain string of characters, or login name includes a certain string of characters. (2) Manual: Manually select some clients and group them. <input type="checkbox"/> Different groups can be displayed with different icons. <input type="checkbox"/> A group can have different sub-groups. <input type="checkbox"/> A Client can belong to multiple groups. <input type="checkbox"/> Clients located in different local area networks can belong to the same group. 	•	•
	Remote login	The administrator can send a Remote Login command from Console to log into a particular remote Client's system and domain with the appointed user ID and password.	•	•
	Time synchronization	The administrator can send a "time synchronization" command from the Console to synchronize the time setting of all remote Clients with the Console.	•	•
	Hard disk space check and alert	<ul style="list-style-type: none"> <input type="checkbox"/> The administrator can directly check the usage status of the protected partitions on remote Clients from Console. <input type="checkbox"/> The trigger percentage level for low disk space alert on Client can be set either on Client or Console. (Low disk space alert: When the remaining disk space is lower than the preset percentage level, system will actively 	•	•

		prompt a warning on Client.)		
	Remote startup / shutdown / restart	<input type="checkbox"/> The administrator can send the following remote commands from Console to Clients: (1) Remote startup: Wake up Clients. (This feature is valid only for LAN.) Client's network card, motherboard and BIOS must support Wake-On-LAN. (2) Remote restart (3) Remote shutdown: Forcibly shut down Clients. (4) Remote log out Windows (Log out from the current Windows user account. After that, the administrator need re-enter the user ID and password in order to log in Windows again.) <input type="checkbox"/> SysFreezer sends a warning (duration of warning can be customized) to Clients before the remote command is really executed. This warning is to warn users about the coming execution and remind them to immediately do corresponding actions such as saving files before shutdown/logout.	•	•
	Remote folder management	The administrator on Console can do the following non-recovered operations to the folders and files of protected partitions on Client: (1) Add non-recovered data Set folders and files on remote Client as non-recovered. These non-recovered folders and files will be exceptional from recovery and survive after recovery. (2) Cancel non-recovered setting Cancel non-recovered setting in order to switch non-recovered folders and files back to regular ones. (3) Search non-recovered data Display a list showing which folders and files on Client have been set as non-recovered. (4) Delete non-recovered data Delete non-recovered folders and files set on remote Client in order to release disk space.	•	•
	Remote lock	<input type="checkbox"/> The administrator on Console can remotely lock Client from the following operations: (1) Lock "mouse": The will make the mouse on Client not working. (2) Lock "keyboard": This will make the keyboard on Client not working. (3) Lock "screen": This will make Client screen black out or display the customized screen or texts. <input type="checkbox"/> Able to do unlock operation to the locked Client.	•	•
	Send message	<input type="checkbox"/> The administrator can do real-time chat through a message dialog on Console. With "Send Message" function, the administrator can send text	•	•

		<p>messages and bmp images from Console to Client. Client can also reply and communicate with Console.</p> <ul style="list-style-type: none"> <input type="checkbox"/> One-to-many messaging <p>The administrator on Console can do one-to-one or one-to-many real-time messaging with Clients and pop up a dialog on Clients for interactive communication.</p> <ul style="list-style-type: none"> <input type="checkbox"/> The administrator sends real-time messages to Clients and each message includes sender, send time and contents. On the other hand, each message sent from Client to Console shows Client name, IP address, send time and contents. <input type="checkbox"/> The administrator can set up multiple text messaging groups and chat with all these groups at the same time. Client can only chat in the groups appointed by the administrator from Console. <input type="checkbox"/> Customized images can be added on Console. <input type="checkbox"/> Settings <p>Set the following properties for “Send Message” on Console:</p> <ol style="list-style-type: none"> (1) The text format of messages such as font, size and color can be set on Console. (2) The administrator can set the following limits for text messaging on Console: <ul style="list-style-type: none"> (a) Set the maximum number of characters for each message. The limit is 1024. (b) Set the maximum number of images attached for each message. The limit is 100. (c) Set the maximum size of each image. The limit is 1024KB. (d) Set the chat dialog on Client to be closed synchronously. 		
	File transfer	<ul style="list-style-type: none"> <input type="checkbox"/> The administrator can directly send the appointed folders or files on Console to a specific folder on Client. <input type="checkbox"/> The administrator on Console can just right click on the selected Client icon to start one-to-one file transfer. The operation is easy. <input type="checkbox"/> When file transfer is complete, Client can automatically open the transferred folder or file. <input type="checkbox"/> “File Transfer” function is valid only for Clients on LAN. 	•	
Remote Maintenance	Windows update	<p>The following procedure can be scheduled (every month / every week / every day):</p> <p>All Clients automatically wake up at a scheduled time and switch to Install Mode, switch the system user account to the default “administrator”, run Windows Update with WSUS server, switch the system back to the original user account after update is complete, exit Install Mode (automatically save as</p>	•	•

		a new “dynamic recovery point” or the “primary recovery point) and automatically shut down.		
	Create new recovery point on remote Client	<input type="checkbox"/> Save the current hard disk state of Client as a “dynamic recovery point” for future system restore purpose. <input type="checkbox"/> Define the name and description of the new “dynamic recovery point”. <input type="checkbox"/> Able to replace an appointed existing recovery point with the newly created point. Also able to manually do loop backup which replaces the oldest recovery point with the latest hard disk state. <input type="checkbox"/> Support up to 30 recovery points.	•	•
	Delete recovery point on remote Client	<input type="checkbox"/> For those “dynamic recovery points” which will be no longer used on Client, the administrator can remotely delete them to release disk space: (1) Delete a particularly named “dynamic recovery point”. (2) Delete the oldest “dynamic recovery point”. (3) Delete the “dynamic recovery point” which was saved at the time closest to a specific time. <input type="checkbox"/> Able to delete multiple recovery points at the same time.	•	•
	Recover remote Client	Recover the hard disk of Client to the state of any saved recovery point (the “primary recovery point” or a particular “dynamic recovery point”). For example, the administrator can choose to recover Client to the “primary recovery point”, the current recovery point, the latest “dynamic recovery point” or the oldest “dynamic recovery point”. Also he can select a recovery point by the recovery point name or create time.	•	•
	One-time no recovery on remote Client	<input type="checkbox"/> Sending the “one-time no recovery” command to Client will make the system no recover at the next boot; which means the current hard disk state of Client will remain as is at the next boot. <input type="checkbox"/> “One-time no recovery” function only works when Client is set in “Auto Recover” mode. When system is in “Auto Recover” mode, it automatically recovers at each boot. “One-time no recovery” function makes Client not recover at the next boot.	•	•
	Install Mode	<input type="checkbox"/> The administrator on Console can execute “Install Mode” command on remote Client in order to proceed with maintenance operation. <input type="checkbox"/> When the administrator needs to add or modify a large amount of data and confirm that other existing recovery points will no longer be used, it is recommended to execute “Install Mode” to save the operation time of updating the primary recovery point. <input type="checkbox"/> When a large amount of data is modified/added and not wished to be recovered, enabled to execute “Install Mode” to one, partial or all Clients to temporarily disable the recovery protection. <input type="checkbox"/> Executing “Install Mode” will temporarily disable the protection of system recovery in order to facilely add or modify a large amount of data	•	•

		<p>without uninstalling SysFreezer. When data update is complete, the present hard disk state will be saved as the “primary recovery point”. (All the other dynamic recovery points will be automatically deleted.)</p> <ul style="list-style-type: none"> □ Hard disk is temporarily unprotected in Install Mode. Since all updates will be written to hard disk and not undoable, the administrator must do all the operations in Install Mode with caution. □ Option to either save the current hard disk state or recover to the state of a particular recovery point prior to entering Install Mode. □ Two methods to exit “Install Mode”: <ul style="list-style-type: none"> (1) Exit manually (default) The administrator on Console can manually have the selected Clients exit “Install Mode”. (2) Exit automatically The administrator can set Client to automatically exit Install Mode after reboot. This can prevent the system from being unprotected due to human carelessness. 		
	Scheduling	<ul style="list-style-type: none"> □ The administrator on Console can schedule anytime or a routine to remotely execute commands such as Recover, One-Time No Recovery, Create New Point, Startup, Restart, Shutdown and Windows Update on all clients. (“Remote Startup” function only works for Clients on LAN.) □ Able to schedule multiple tasks at the same time. When multiple tasks are scheduled, you can search the task by “Subject”, “Task Name”, “Begin Time” or “End Time”. □ The administrator can set up a fixed-routine or cyclic schedule such as every month / week / day / minutes for the execution of each task. Also he can send a warning message to remind Client to take corresponding actions (e.g. saving files) before running the scheduled task. □ Three states can be set for each scheduled task: “Standby”, “Pause”, and “Complete”. 	•	•
	Remote control	<ul style="list-style-type: none"> □ The administrator can take over the control of an appointed Client by locking and controlling its keyboard and mouse in order to pursue “remote control”. The administrator can assist the Client with installing/uninstalling applications, solving problems or demonstrating operations without leaving the seat. □ The administrator can remotely control a particular Client anytime from Console. The Client’s screen will appear in “full-screen” or “window mode” on Console’s desktop. □ The following features are available when remote controlling Client: <ul style="list-style-type: none"> (1) Lock the mouse and keyboard of Client during remote control. (2) One-to-many remote control: Able to synchronize the actions of 	•	•

		<p>keyboard and mouse of a Client to all the others. The administrator remote controls one Client and the remote control operation will be synchronized to all the others. This feature only works for Clients in the same subnet.</p> <p>(3) The administrator on Console can send the “Ctrl+Alt+Del” command to Client during remote control.</p> <p><input type="checkbox"/> Function setting</p> <p>The administrator can set the following properties for remote control on Console:</p> <p>(1) Display remote screen in either “full-screen” or “window mode”.</p> <p>(2) Synchronize mouse of both sides during remote control.</p> <p>(3) Automatically change the display resolution of Console to match Client’s during full-screen remote control. This can ensure optimal screen quality and transmission during remote control.</p> <p>(4) Synchronize the clipboard of Console and Client during remote control.</p> <p>(5) Automatically close the desktop background during remote control in order to enhance the remote control efficiency.</p>		
	Monitoring	<p><input type="checkbox"/> With “monitoring” function, the administrator on Console can monitor one/partial/all remote Clients’ screens anytime without leaving the seat. For WAN environment, this function has no limit for the number of clients being monitored, but the capability will depend on the on-site network bandwidth and computer efficiency.</p> <p><input type="checkbox"/> The administrator on Console can monitor up to 253 Clients’ screen at the same time on LAN environment.</p> <p><input type="checkbox"/> Supports two browsing modes to browse Client’s screen: “full-screen mode” and “multi-window mode”.</p> <p><input type="checkbox"/> “Multi-window monitoring” function is to transmit all Clients’ screens alternately to Console’s screen so that multiple Client’s screens can be displayed on Console’s at the same time.</p> <p><input type="checkbox"/> The administrator can do the following operations when monitoring Client screen:</p> <p>(1) Display Client’s mouse movement.</p> <p>(2) Able to remote control Client anytime during monitoring.</p> <p>(3) Able to send files to the selected Client or receive files from it anytime.</p> <p><input type="checkbox"/> Function setting</p> <p>The administrator can set the following properties for monitoring on Console:</p> <p>(1) Set to browse Client’s screen in either “full-screen mode” or</p>	•	•

		<p>“multi-window mode”.</p> <p>(2) During multi-screen monitoring, remote screens can be displayed lined up by computer name, login name or IP address on Console. The administrator can choose “single switch” or “page switch” as browse method for multi-screen monitoring. The screens of multiple Clients can be monitored from Console at the same time.</p> <div style="border: 1px solid black; padding: 5px;"> <p>“Single switch” browse: Multiple Clients’ screens are displayed one by one alternately on Console.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>“Page switch” browse: Multiple Clients’ screens are displayed page by page alternately on Console. Each page contains multiple Clients’ screens.</p> </div> <p>(3) “Monitoring” function provides the following settings to fulfill various management needs:</p> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> <input type="checkbox"/> Quality of monitoring screen: The administrator can set the transmission rate of monitoring and the image compression type to suit various network environments. <input type="checkbox"/> The transmission rate of monitoring can be set from 0.25FPS/sec to 36FPS/sec. <input type="checkbox"/> Three image compression types: fast compression, standard compression, and JPEG compression. <input type="checkbox"/> Compression rate can be adjusted according to circumstances. </div> <p>(4) Set whether to display Client’s mouse movement.</p>		
	Remote command	<ul style="list-style-type: none"> <input type="checkbox"/> The administrator on Console can send a “remote command” to Client to initialize or stop any application program installed on Client. <input type="checkbox"/> “Remote command” can be one customized by the administrator. <input type="checkbox"/> With “Remote Command” function, the administrator can double click on a preset shortcut icon or enter command parameters on Console to execute the command to Clients. 	•	•
	Send “Ctrl + Alt + Del” key	The administrator on Console can send the “Ctrl+Alt+Del” command to Client anytime.	•	•
Remote Information	Asset management	<p>Console can take inventory of software and hardware assets from all online Clients through the network and a statistics report for all the asset information will be automatically generated. If there’s any change for software or hardware assets on Client, system automatically prompts a warning about the details of changes.</p> <p>(1) Asset inventory: Console can remotely obtain the software and hardware asset information of Clients on the network in order to take inventory of assets.</p> <p>(2) Asset shift warning: When the current inventory check result is different from the previous one, system pops up a warning so that the</p>	•	•

		<p>administrator on Console can instantly review the changes of Clients' software and hardware assets between two checks.</p> <p>(3) Asset report: After running inventory check, system instantly generates a statistics report including "software information" and "hardware information" categories based on the inventory check result. The report can be exported as a RTF file (readable by MS Word) or Excel file.</p>												
System information	<p>The administrator on Console can obtain the following information of Client through the Internet:</p> <table border="1"> <tr> <td>(1) Computer name</td> <td>(6) CPU</td> </tr> <tr> <td>(2) Login name</td> <td>(7) Memory usage</td> </tr> <tr> <td>(3) IP address</td> <td>(8) CPU usage</td> </tr> <tr> <td>(4) MAC address</td> <td>(9) Available memory</td> </tr> <tr> <td>(5) Operating system</td> <td>(10) Virtual memory usage</td> </tr> </table>	(1) Computer name	(6) CPU	(2) Login name	(7) Memory usage	(3) IP address	(8) CPU usage	(4) MAC address	(9) Available memory	(5) Operating system	(10) Virtual memory usage		•	•
(1) Computer name	(6) CPU													
(2) Login name	(7) Memory usage													
(3) IP address	(8) CPU usage													
(4) MAC address	(9) Available memory													
(5) Operating system	(10) Virtual memory usage													
Hard drive information	<p>The administrator on Console can obtain the usage status of each partition on Client through the Internet:</p> <table border="1"> <tr> <td>(1) Disk label</td> <td>(5) Free space</td> </tr> <tr> <td>(2) File system</td> <td>(6) Free space percentage</td> </tr> <tr> <td>(3) Total capacity</td> <td>(7) Size of non-recovered data</td> </tr> <tr> <td>(4) Used space</td> <td>(8) Protection type</td> </tr> </table>	(1) Disk label	(5) Free space	(2) File system	(6) Free space percentage	(3) Total capacity	(7) Size of non-recovered data	(4) Used space	(8) Protection type		•	•		
(1) Disk label	(5) Free space													
(2) File system	(6) Free space percentage													
(3) Total capacity	(7) Size of non-recovered data													
(4) Used space	(8) Protection type													
Application information	<p><input type="checkbox"/> The administrator on Console can check the real-time information as follows on Client:</p> <table border="1"> <tr> <td>(1) Process name</td> <td>(5) Memory usage</td> </tr> <tr> <td>(2) Thread number</td> <td>(6) User name</td> </tr> <tr> <td>(3) Process ID</td> <td>(7) Path of process</td> </tr> <tr> <td>(4) CPU usage</td> <td></td> </tr> </table> <p><input type="checkbox"/> The administrator on Console can not only check the real-time information of Client as above but also stop a specific process running on Client.</p>	(1) Process name	(5) Memory usage	(2) Thread number	(6) User name	(3) Process ID	(7) Path of process	(4) CPU usage			•	•		
(1) Process name	(5) Memory usage													
(2) Thread number	(6) User name													
(3) Process ID	(7) Path of process													
(4) CPU usage														
Recovery information	<p><input type="checkbox"/> Console can display the following recovery point information of Client:</p> <table border="1"> <tr> <td>(1) Recovery state</td> <td>(6) Free space in protected partitions</td> </tr> <tr> <td>(2) Trigger percentage level for low disk space alert</td> <td>(7) Used space in protected partitions</td> </tr> <tr> <td>(3) Recovery mode</td> <td>(8) Total space reserved for non-recovered data</td> </tr> <tr> <td>(4) CMOS protection mode</td> <td>(9) Used space for non-recovered data</td> </tr> <tr> <td>(5) Sequence number, name, create time and description</td> <td>(10) Free space for non-recovered data</td> </tr> </table>	(1) Recovery state	(6) Free space in protected partitions	(2) Trigger percentage level for low disk space alert	(7) Used space in protected partitions	(3) Recovery mode	(8) Total space reserved for non-recovered data	(4) CMOS protection mode	(9) Used space for non-recovered data	(5) Sequence number, name, create time and description	(10) Free space for non-recovered data		•	•
(1) Recovery state	(6) Free space in protected partitions													
(2) Trigger percentage level for low disk space alert	(7) Used space in protected partitions													
(3) Recovery mode	(8) Total space reserved for non-recovered data													
(4) CMOS protection mode	(9) Used space for non-recovered data													
(5) Sequence number, name, create time and description	(10) Free space for non-recovered data													

		<div style="border: 1px solid black; padding: 2px; text-align: center;">of each recovery point</div> <ul style="list-style-type: none"> <input type="checkbox"/> From Console, the administrator can export remote information (e.g. system information, hard drive information, application information and recovery information) of on-line Clients as a report and save it in an appointed folder on Console. 		
Remote Backup Management	NetCopy	<ul style="list-style-type: none"> <input type="checkbox"/> Copy the hard disk contents of the sender PC exactly to other appointed Clients on the LAN through the network. This can quickly complete the installation and setting of operating system and all application programs and enable the administrator to easily set up new PCs or maintain data. <input type="checkbox"/> Automated setting operation <ul style="list-style-type: none"> (1) For multiple PCs with exactly the same hardware components (e.g. computer lab, Internet café and training center), the administrator can preset the parameters of network configuration including IP address, subnet mask, gateway, computer name and DNS for each Client before performing NetCopy. Then copy the sender PC's hard disk contents rapidly and completely to the appointed Clients. After that, the network configuration of each Client will be automatically complete as preset. The administrator doesn't need to approach each Client and reset the network configuration. (2) NetCopy's parameters of network configuration for each Client can be saved or exported so that the administrator doesn't need to redo network configuration next time when performing NetCopy again. <input type="checkbox"/> Able to directly execute "NetCopy" function from Console. No need to boot up Clients with a bootable disk or USB drive. But while Client's hard disk is brand new or Windows is not installed yet on Clients, the administrator can boot up Clients with a bootable disk or USB drive and perform "NetCopy" <input type="checkbox"/> Able to do one-to-many "NetCopy" and copy the protected partitions, all partitions or the entire hard disk (sector by sector) of a sender PC to multiple receiver PCs. <input type="checkbox"/> One-to-many "NetCopy": Able to do NetCopy for up to 253 Clients at the same time. <input type="checkbox"/> Using NDIS Driver (DOS Driver) for NetCopy enhances the compatibility of network card. <input type="checkbox"/> Transmission rate can reach 6MB/sec or above. <input type="checkbox"/> Support copy from small hard drive to large hard drive. <input type="checkbox"/> When setting up multiple PCs, it's recommended to use "NetCopy" to quicken the installation operation. 	•	
	Make boot disk	Able to make DOS boot disk including bootable USB drive for backup management. (Bootable USB drive supports USB-FDD and USB-HDD.)	•	•

	Update DOS module	<ul style="list-style-type: none"><li data-bbox="483 91 1326 170">□ The administrator on Console can update/upgrade the DOS module and NDIS driver of network card on multiple Clients.<li data-bbox="483 185 1326 264">□ When any update for DOS module is available, the administrator can directly send it to all Clients for update without reinstalling SysFreezer.	•	•
--	-------------------	---	---	---