# LabLock Product Manual



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# 1. Product Manual

LabLock Version 1.1.0 JAKO-Solutions, Inc. support@jako-solutions.com sales@jako-solutions.com info@jako-solutions.com/

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# **JAKO-Solutions**

# 2. Scope

LabLock 1.0.0 is a 32-bit application but is also 64-bit aware. LabLock 1.0.0 has been tested in Windows 10 Professional. If you are using Windows 10 in a mission-critical setting, please consider using the Windows 10 Enterprise LTSB Edition. LabLock 1.0.0 is not in the Windows Store and therefore will not run in Windows 10 S.

# 3. Requirements

The requirements below list the minimal configuration. Any better hardware or newer software may be used. If you experience problems, nonetheless, please do not hesitate to contact us.

#### Software

- Windows 10
- .NET 4.7 or higher

#### Architecture

- 32-bit
- 64-bit

#### Hardware

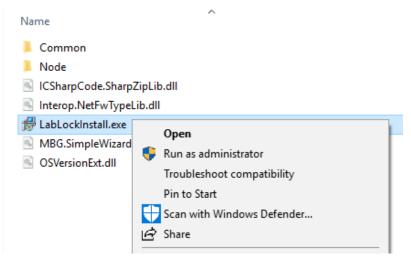
- 1 gigahertz (GHz) or faster processor
- At least 2 gigabytes (GB) for 32-bit or 4 GB for 64-bit
- 1GB available disk space

#### Web Browser

- Firefox
- Chrome
- Microsoft Edge
- Internet Explorer 11

# 4. Installation

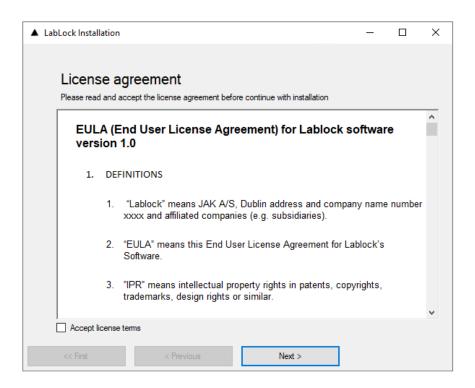
Open installation folder, right click on **"LabLockInstall.exe"** file from the installation folder and click on **"Run as administrator"** to start the installation



This will open the installation wizard. Click "Start" to begin the installation.

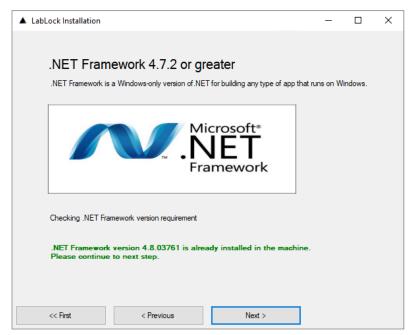
JAKO-Solutions - LabLock Installation		-		×
LabLock installation assistant				
This tool will guide you with the installation of LabLock performing the steps below:				
<ul> <li>Pre-requisites check and install: .NET Framework 4.7.2 or greater Node js v13.14.0 (Windows 7) / v14.15.3 (Windows 10)</li> <li>LabLock components installation Execute LabLock components installer to deploy all required components</li> <li>Deploy web application Deployment of web files for LabLock Web</li> <li>Configure LabLock services Deployment of LabLock services and trial license generation</li> </ul>	ABLOCK			
OS Version detected : WindowsServer20162019 (10.0.17763)				
Please select Start to start the guided process and follow the steps		St	art	

Read the EULA (End User License Agreement), click the checkbox to accept the license terms, and click on "**Next**"

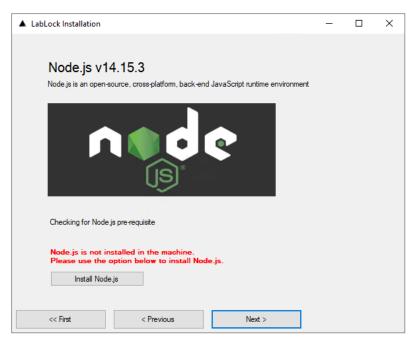


Click on "Install .NET 4.7.2" to install .NET on the PC.

Click "Next" to continue with the installation.



Click on "NodeJS" to install NodeJS on the PC.



Once the installation is completed a pop up will be displayed. Click **"ok"** to confirm NodeJS is installed.

Click "Next" to continue with the installation.

▲ LabLock Installation	-	×
Node.js v14.15.3 Node.js is an open-source, cross-platform, back-end JavaScript runtime enviro	onment	
Checking for Node is pre-requisite Node is Version '14.15.3' is installed. Continue to the next step.		
<< First < Previous Next >		

Click "Install LabLock components" to start the installation process of LabLock Service.

▲ LabLock Installation	-		×
LabLock components installation			
Checking for LabLock components			
Use the install option below to proceed with the installation of LabL	ock compon	ents.	
Install LabLock components			
<< First < Previous Next >			

Click "Next" to continue the installation of LabLock Service.

🛃 LabLock		_	
Welcome to the LabLoc	k Setup Wiz	ard	
The installer will guide you through the s	teps required to insta	II LabLock on your co	mputer.
WARNING: This computer program is pr Unauthorized duplication or distribution or or criminal penalties, and will be prosecu	of this program, or any	portion of it, may res	ult in severe civil
	< Back	Next >	Cancel

Select LabLock service port and click "Next".

Note: By default, LabLock uses the port 8081 for the service API traffic.

🙀 LabLock		_		×
LabLock API service po	rt			5
Setup defaults for lablock API service po	ort			
Port:  8081				
	< Back	Next >	Ca	ancel

Select LabLock web portal port and click "Next".

Note: By default, LabLock uses the port 3000 for the Web traffic.

🛃 LabLock		_		×
LabLock settings Port				5
LabLock web Port				
LabLock Port:  3000				
13000				
	< Back	Next >	Ca	ncel

Select LabLock installation folder and click "Next".

Note: By default, LabLock folder is located on "C:\Program Files\JAKO-Solutions\LabLock\"

abLock	-		$\times$
Select Installation Folder			5
The installer will install LabLock to the following folder.			
To install in this folder, click "Next". To install to a different folder, enter it be	elow o	r click ''Bro	wse".
<u>F</u> older:			
C:\Program Files\JAKO-Solutions\LabLock\		Browse.	
		Disk Cos	t
Install LabLock for yourself, or for anyone who uses this computer:			
○ Everyone			
● Just me			
< Back Next >		Car	ncel

Click "Next" in "Confirm Installation" windows to start LabLock Service installation.

🕼 LabLock	_		×
Confirm Installation			5
The installer is ready to install LabLock on your computer.			
Click "Next" to start the installation.			
< Back Next >		Ca	ncel

Once LabLock service is installed click "Close" to return to LabLock wizard.

提 LabLock	_		×
Installation Complete			5
LabLock has been successfully installed.			
Click "Close" to exit.			
Please use Windows Update to check for any critical updates to the .NET F	ramew	ork.	
< Back Close		Ca	ncel

Click on "Validate" to validate LabLock service installation.

LabLock Installation					—		$\times$
LabLock co	ompone	nts install	ation				
Checking for LabLo	ck component	s					
Use the install of	ption below	to proceed wit	h the installation o	f LabLock	compon	ents.	
Install LabLock co	mponents	Validate					
	-						
<< First	< Pre	evious	Next >				

After clicking **"Validate"**, if the installation was successful the following message will appear: **"LabLock version 1.1.0 already installed in the machine"**.

Click "Next" to move to the next window.

LabLock Installation	_	×
LabLock components installation		
Checking for LabLock components		
LabLock version '1.0.0' already installed in the machine.		
Install LabLock components Validate		
<< First < Previous Next >		

Click "Deploy" to bring the LabLock web interface into effect.

LabLock Installation			-	×
Deploy Lab	Lock Web App			
Deploy LabLock ma	nagement web app			
Web app is not	deploved.			
Please use the	option below to deploy.			
Deploy				
<< First	< Previous	Next >		
SS (11St	< rievious	wear >		

Once the Web interface is installed, it will show a message in green. Click "**Next**" to continue.

LabLock Installation	_	×
Deploy LabLock Web App		
Deploy LabLock management web app		
Web app already deployed Continue to the next step.		
	1	
<< First < Previous Next >		

Click on "**Reboot**" to restart the PC or Finish to go back to Windows. **Note:** The computer will need to be restarted to begin using LabLock.

LabLock Installation			_		×		
Deploy Lab	Lock componer	nts					
Deploying installed l	abLock components						
KAgentService -	LabLock API agent serv	ice configured OK					
KSuspendAgentService - LabLock Suspend agent service configured OK							
.LabLockdet and	installation temporary .li	cense files generated					
Re-boot the comput	er to complete setup.						
Reboot							
<< First	< Previous	Finish					

# 5. Getting Started

After the LabLock installation is complete, restart the PC to start using the product. LabLock portal can be accessed remotely or locally from different web browsers.

Open one of the supported web browsers (Edge, Chrome, Mozilla) and type in the following URLs:

For local access: http://localhost:port or http://127.0.0.1:port

For remote access: introduce computer name or IP followed by the port. Example: <u>http://computername:port</u> or <u>http://ip:port</u> Where the port is the port number configured during the installation. By default, LabLock uses port "3000"

Username	
Password	
Local Authentication	¢
Log in	

The login page to introduce your username and password will appear.

If Active Directory is used, it is recommended to use "UserPrincipalName" for the user, however, SamAccountName can be used and accepted depending on your AD user configuration.

Once the credentials are accepted, you will be redirected to the LabLock landing page.

LabLock Top menu contains the main 5 sections of LabLock: Dashboard, Restrictions, Settings, Import/Export, and Activity.

J	-	LabL	ock		×	+		
	←	$\rightarrow$	C	(i) 127	7.0.0.1:3000/das	hboard		
	8	<u>6</u>	Dash	board	Restrictions	Activity	Settings	Import/Export

On the right side of the menu, there is a dropdown menu with the information of the user logged into the LabLock interface. The dropdown menu shows the full name of the logged in user. Click on the user's full name to open menu.

		8 localadmin 🕶
	User: localadmin	
	Role: Administrator	
	IP: localhost:3000	
	Lablock version: 1.0.0	
	License status	
	(?) Help	
	⊖ Logout	
lunti		

The menu contains the following information:

**User:** This is the local user for local authentication or the SAMaccountname for AD authentication of the logged user to the LabLock portal.

Role: This is the role that the user is part of.

**IP:** This is the IP from the computer that is logging into the LabLock portal.

LabLock Version: This is the version of LabLock installed on the PC.

License Status: This is a link to a Windows where the license status is displayed.

Help: This is a link to the documentation located on the LabLock website.

Logout: This is a button to log the user from the LabLock portal.

License Status Window gives an overview of the status of license where the following information can be found:

License: Maybe "Permanent" or "Temporary".

License ID: This is the ID of the license file.

Computer: This is the name of the computer where the license file is activated.

**Customer name:** The name of the company assigned by JAKO-Solutions when the license is generated.

Customer ID: This is the JAKO-Solutions customer ID.

## 6. Dashboard

Dashbo	_				
	TOP-F0CFN70			A Restrictions	
Manufacturer:	Innotek GmbH	OS Name:	Microsoft Windows 10 Pro	Restrictions enabled	
Model:	VirtualBox	OS Version:	Windows10 (10.0.19042)		
System type:	x64-based PC	OS Config:	Standalone Workstation	Available core restrictions:	70
Memory:	32,626 MB	Product ID:	00330-52085-37096-AAOEM	Applied core restrictions:	1
Avail. memory:	26,869 MB	Platform:	Win32NT	Available system keys:	206
System locale:	EN-US	Build type:	Multiprocessor Free	Applied system keys:	0
Started time:	1/11/2021 21:38:20	Release ID:	10.0.19042 N/A Build 19042	Allowed applications:	0
ٺ		÷		Suspend Restrictions	
20 User	details				
User	Session type		Login date		
LabLock	RemoteInteractive		3/11/2021 16:31:01		

The top version of the dashboard contains 3 parts: Desktop details, Restrictions Dashboard, and user details:

**Desktop details:** This section displays computer details. It will provide the computer name, operation system, and time when the PC was turned on.

There are 3 buttons where the PC can be logged off, restarted, and shut down.

**Restrictions:** This section details the restriction's status. In this section, you can suspend the LabLock restrictions temporarily by clicking suspend. Restrictions will be activated automatically if the suspension count down reaches 0. Restrictions can be activated by clicking the suspend button again.

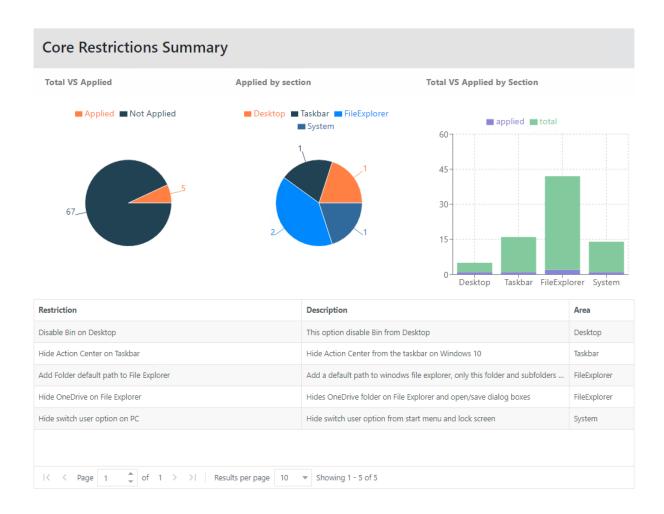
Suspend button is disabled if no restrictions are set in the Restrictions section.

**User Details:** This section contains the user's details. If a user is logged on to the PC, it will show what users are logged in and when they logged into the PC.

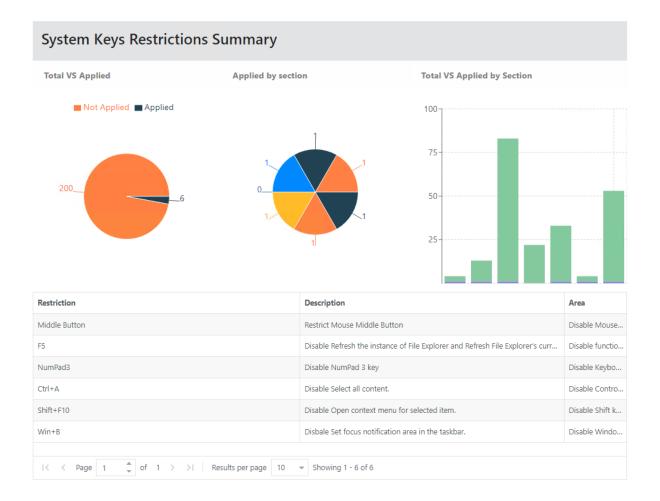
You can screenshot the desktop by clicking on the "camera" icon.

You can also send a 100-character message to the PC where LabLock is installed by clicking on the "**message**" icon.

**Note**: Users that are part of the interactive group will not have screenshots and message icons. Those users aren't fully logged into Windows OS, they're just running a process or service. Therefore, message and screenshot options are disabled. When Core restrictions are applied, it will activate a Core restriction summary. The graphics will give you overall information about the applied restrictions and total restrictions.



When System Keys restrictions are applied, it will activate a Core restriction summary. The graphics will give you an overview of applied restrictions and total restrictions.



# 7. Restrictions Menu

Restrictions are divided into 5 different sections: Core, System Keys, Apps, Startup, and Firewall.

#### 7.1 Core

Core tab is a section where you can configure restrictions based on Desktop, Taskbar, FileExplorer and System.

#### 7.1.1 Desktop

In this section, you can find restrictions related to Desktop.

Core	System Keys	Apps	Startup	Firewall	
	Desktop				
	<ul> <li>Hide the De</li> <li>Disable edit</li> <li>Disable Edge</li> <li>Hide Bin on</li> </ul>	sktop ① Desktop e ① Desktop	0		
	Taskbar				
	FileExplorer				
	System				

Hide the Desktop	Hides all desktop icons and disables desktop context menus
Disable edit Desktop	Protects desktop icons and desktop files/folders from tampering: they can be executed, but cannot be edited or deleted
Disable Edge	Disables the ability to swipe using touch from the edges of the screen
Hide Bin on Desktop	Hides the Bin from the Desktop

Table 1 : Desktop restrictions

#### 7.1.2 Taskbar

In this section, you can find restrictions related to the Taskbar.

Desktop
Taskbar
<ul> <li>Disable StartMenu</li> <li>Disable changes to StartMenu</li> <li>Hide programs from StartMenu</li> <li>Hide System Tray icons</li> </ul>
FileExplorer
System

Disable StartMenu	Disables the StartMenu button
Disable changes to StartMenu	Blocks the users' ability to change StartMenu
Hide programs from StartMenu	Hides the programs list in the Start Menu
Hide Search and Cortana	Disables the ability to search and run local files from the Start Menu and Taskbar
Hide TaskView	Disables the TaskView functionality
Hide Taskbar	Hides the Taskbar completely
Lock Taskbar	Disables the ability to resize and move the Taskbar
Disable the right-click Menu	Disables the right-click settings menu in the Taskbar
Hide Clock	Hides the system Clock located on the right-side area of the Taskbar.

Hide Windows Ink Workspace	Hides the Ink Workspace icon from the right-side area of the Taskbar.
Hide Language preferences	Hides Language preference icon from the right side of the Taskbar.
Hide Action Centre	Hides the Action Centre from the right side of the Taskbar.
Hide People Icon	Hides the People icon from the right side of the Taskbar.
Hide News and Interests	Hides News and Interest icon from the Taskbar.
Hide Touch Keyboard	Hides the Touch keyboard icon from the Taskbar.
Hide System Tray icons	Hides the System Tray icons located on the right-side area of the Taskbar.

Table 2: Taskbar restrictions

# 7.1.3 File explorer

In this section, you can find restrictions related to the File Explorer.

Core	System Keys Apps Startup Firewall
	Desktop
	Taskbar
	FileExplorer
	<ul> <li>Block File Explorer</li> <li>Add folder default path</li> <li>c:\GMP_Data</li> <li>Disable Context menus</li> <li>Disable Options menu</li> <li>Disable top menus and Ribbon</li> <li>Disable top menus and Ribbon</li> <li>Disable navigation Pane</li> <li>Disable Quick Access</li> <li>Hide Special Folders</li> <li>Hide Special Folders</li> <li>Hide Network</li> <li>Hide OneDrive</li> <li>Hide Dropbox</li> </ul> Disable Access to Drives on File Explorer
	A: B: C: D: E: F: G: H: I: J: K: L: M: N:
	O:         P:         Q:         R:         S:         T:         U:         V:         W:         X:         Y:         Z:         All
	System

Blocks access to File Explorer. When selected, any File explorer window open will be automatically closed.
· · · · · · · · · · · · · · · · · · ·
The File Explorer and the "Open" and "Save As" dialog boxes are redirected to the selected folder path. Other parts of these components are also disabled such as the navigation bar and buttons. The navigation menus will also be disabled for the dialog boxes.
Disables context menus on the File Explorer.
Disables access to the Folder Options menu on the File Explorer.
Disables top menus, ribbon, and bars in the File Explorer and the "Open" and "Save As" dialog boxes.
Disables the navigation pane (left column of file explorer).
Disables the Quick Access from the navigation pane on File Explorer and in the "Open" and "Save As" dialog boxes.
Removes special folders (3D Objects, Desktop, Documents, Downloads, Music, Pictures, and Videos) from This PC on File Explorer and "Open" and "Save As" dialog boxes.
Hide the "This PC" folder in File Explorer and the "Open" and "Save As" dialog boxes.
Hides the "Network folder in File Explorer and the "Open" and "Save As" dialog boxes.
Hides the OneDrive folder in File Explorer and the "Open" and "Save As" dialog boxes.
Hides the Dropbox folder in File Explorer and the "Open" and "Save As" dialog boxes.
Disables access to selected drives in File Explorer and the "Open" and "Save As" dialog boxes.

Table 3: File Explorer restrictions

# 7.1.4 **System**

In this section you can find restrictions related to the System.

e	System Keys Apps Startup Firewall	
	Desktop	
	Taskbar	
	FileExplorer	
	System	
0	<ul> <li>Disable Control Panel</li> <li>Disable Administrative tools</li> <li>Block Windows Settings application</li> </ul>	
	<ul> <li>Disable Remote Desktop Protocol service</li> <li>Disable the detection of USB drives</li> </ul>	
0	<ul> <li>No ability to write into USBs</li> <li>Disable Autoplay Menu for external Devices</li> </ul>	
(	Hide Shutdown option	
0	<ul> <li>Hide Switch User option</li> <li>Disable Help option</li> </ul>	
Ι.		
	Lock PC When Idle	

Disable Control Panel	Disables the Control Panel and the options displayed within the control panel section.
Disable Administrative tools	Blocks access to common administrative tools, including Windows Task Manager, Regedit, Cygwin, Process Explorer, and Microsoft Management Console.
Block Windows Settings application	Blocks Windows Settings application.
Disable Remote Desktop Protocol service	Disables the Remote Desktop Protocol service from the PC.
Disable the detection of USB drives	Disable the detection of USB drives.
No ability to write into USBs	Disables the ability to write to USB drives.

Disable Autoplay Menu for external Devices	Disables the Autoplay menu that is displayed when a new external drive is detected (DVD, USB, External hard drive)
Hide Shutdown option on PC	Hides the shutdown option from the Start menu and the Lock screen.
Hide switch user option on PC	Hides the switch user option from the Start menu and the Lock screen.
Disable Help option	This option disables the help.
Lock PC when idle	The PC is automatically locked when there is no activity (value is in minutes).

Table 4: System restrictions

Click **"Undo**" to remove restrictions that were selected but not applied along with different restrictions tabs.

Click "Clear all" to remove all applied restrictions from the LabLock.

# 7.2 System Keys

The system keys tab allows you to block keyboard keys, keys combinations, and Mouse buttons. It is divided into subsections to represent different groups of keys:

Disable Mouse buttons         Left Button       Middle Button       Right Button         Disable Function keys         Exc.       PrintScreen       Pause       1       2       3       4       5       6       7       8       9       0       +       BackSpace       Tab       Q       W       E       R       T       Y         Disable Keyboard keys       Exc.       PrintScreen       Pause       1       2       3       4       5       6       7       8       9       0       +       BackSpace       Tab       Q       W       E       R       T       Y         U       I       P       (       Return       A       S       P       G       H       J       X       L       I       Z       X       C       V       N       M         Comma       Period       Question       SpaceBar       Left       Up       Right       Down       Inset       Del       Home       End       PageDown         NumPad5       NumPad6       NumPad6       NumPad6       NumPad6       NumPad6       NumPad6       NumPad6       NumPad8       At+F8	Core	System Keys	Apps	Startup	Firewall										
Left Button       Middle Button       Right button         Disable Function keys         F1       F2															
Disable Function keys         F1       F2       F3       F3       F6       F7       F8       F9       F10       F11       F12         Disable Keyboard keys         Esc       PrintScreen       Pause       1       2       3       4       5       6       7       8       9       0       +       BackSpace       Tab       Q       W       E       R       T       Y         U       I       0       P       (       _       Return       A       S       D       F       G       H       J       K       L       I       I       Z       X       C       V       B       N       M         Comma       Period       Question       SpaceBar       Left       UP       Right       Down       Inset       Poie       Home       End       PageDown         NumPad3	Di	isable Mouse k	outtons	_											
F1       F2       F3       F4       F5       F6       F7       F8       F9       F10       F11       F12         Disable Keyboard keys         Esc       PrintScreen       Pause       1       2       3       4       5       6       7       8       9       -       +       BackSpace       Tab       Q       W       E       R       T       Y         U       I       0       P       (       _       Return       A       S       D       F       G       H       J       K       L       :       I       I       Z       X       C       V       B       N       M         Comma       Period       Question       SpaceBar       Left       Up       Right       Down       Inset       Dei       Home       End       PageDown         NumPad3       Num	L	Left Button Mid	dle Button	Right bu	utton										
Disable Keyboard keys         Esc       PrintScreen       Pause       1       2       3       4       5       6       7       8       9       0       +       BackSpace       Tab       Q       W       E       R       T       Y         U       I       0       P       (       Return       A       S       D       F       G       H       J       K       L       :       I       L       Z       X       C       V       B       N       M         Comma       Period       Question       SpaceBar       Left       Up       Right       Down       Insert       Del       Home       End       PageUp       PageDown         NumPad1       NumPad2       NumPad3	Di	isable Functior	n keys												
Esc       PrintScreen       Pause       1       2       3       4       5       6       7       8       9       0       +       BackSpace       Tab       Q       W       E       R       T       Y         U       1       0       P       (       _       Return       A       S       D       F       G       H       J       K       L       :       I       X       C       V       B       N       M         Comma       Period       Question       SpaceBar       Left       Up       Right       Down       Insert       Del       Home       End       PageUp       PageDown         NumPad1       NumPad2       NumPad3       NumPad4       NumPad5       NumPad6       NumPad7       NumPad8       NumPad9       NumPad0         Next       Divide       Multiply       Subtract       Enter       Add       Decimal       Decimal       Disable       Alt +A       Alt +F       Alt +A       Alt +F       Alt +A       Alt +F       Alt +	F	F1 F2 F3 F	4 F5	F6 F7	F8 F9	F10	F11	F12							
U       I       O       P       (       Return       A       S       D       F       G       H       J       K       L       I       I       V       Z       X       C       V       B       N       M         Comma       Period       Question       SpaceBar       Left       Up       Right       Down       Insert       Dei       Home       End       PageUp       PageDown         NumPad1       NumPad2       NumPad3       NumPad4       NumPad5       NumPad6       NumPad6       NumPad8       NumPad9       NumPad0         Next       Divide       Multiply       Subtract       Enter       Add       Decimal         Disable Alt combination keys       Att       Alt +A       Alt+E       Alt+I       Alt+F       Alt+H       Alt+A       Alt+E       Alt+BageDown       Alt+Esc       Alt+Spacebar       Alt+UnderlinedLetter         Disable Control combination keys       Ctri       Ctri+A       Ctri+C       Ctri+D       Ctri+E       Ctri+F       Ctri+L       Ctri+N       Ctri+FS       Ctri+A       Ctri+Z       Ctri+F3         Ctri+DEL       Ctri+Right       Ctri+Up       Ctri+Down       Ctri+Sift+N       Ctri+Sift+Sift <td< td=""><td>Di</td><td>isable Keyboar</td><td>d keys</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Di	isable Keyboar	d keys												
Comma       Period       Question       SpaceBar       Left       Up       Right       Down       Insert       Del       Home       End       PageUp       PageDown         NumPad1       NumPad2       NumPad3       NumPad4       NumPad5       NumPad6       NumPad7       NumPad8       NumPad9       NumPad0         Next       Divide       Multiply       Subtract       Enter       Add       Decimai         Disable       Alt       Att+A       Att+E       Att+H       Att+L       Att+N       Att+D       Alt+P       Alt+Enter       AltGR       Alt+F4       Alt+F4       Att+F8         Att+Left       Alt+A       Alt+E       Alt+H       Alt+L       Alt+N       Alt+D       Alt+P       Alt+Enter       AltGR       Alt+F4       Alt+F4         Alt+Left       Alt+Right       Alt+PageUp       Alt+PageDown       Alt+Esc       Alt+Spacebar       Alt+UnderlinedLetter         Disable Control combination keys       Ctri+C       Ctri+D       Ctri+E       Ctri+E       Ctri+F1       Ctri+N       Ctri+N       Ctri+V       Ctri+X       Ctri+Y       Ctri+Z       Ctri+F3         Ctri+DEL       Ctri+Right+Spacebar       Ctri+D       Ctri+Bit       Shift+Ctri+F10       Sh	E	Esc PrintScreen	Pause	1	2 3 4	5	6 7	89	0 -	+ Ba	ckSpace	Tab Q	W	E R T	Y
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#### 7.2.1 Disable mouse buttons

Left Button	Disable the left mouse button.
Middle Button	Disable the middle mouse button.
Right button	Disable the right mouse button.

Table 5: Mouse key restrictions

## 7.2.2 Disable function keys

F1	Disable Help
F2	Disable Rename selected item
F3	Disable Search for a file or folder
F4	Disable Switch focus to address bar
F5	Disable Refresh the instance of File Explorer and Refresh File Explorer's current view
F6	Disable Cycle through elements on the screen
F7	Disable F7
F8	Disable F8
F9	Disable F9
F10	Disable Enable app menu bar
F11	Disable Switch active window full-screen mode
F12	Disable F12

Table 6: Functions key restrictions

# 7.2.3 Disable keyboard system keys

Esc	Close current task
PrintScreen	Take a screenshot and stores in the clipboard
Pause	Disable Pause key
`	Disable ` key
1	Disable number 1 key

2	Disable number 2 key
2	
3	Disable number 3 key
4	Disable number 4 key
5	Disable number 5 key
6	Disable number 6 key
7	Disable number 7 key
8	Disable number 8 key
9	Disable number 9 key
0	Disable number 0 key
-	Disable – key
+	Disable + key
Backspace	Disable Backspace key
Tab	Disable Move forward through options
Q	Disable Q key
W	Disable W key
E	Disable E key
R	Disable R key
Т	Disable T key
Y	Disable Y key
U	Disable U key
1	Disable I key
0	Disable O key
P	Disable P key
(	Disable ( key
_	Disable _ key
Return	Disable Return key

A	Disable A key
S	Disable S key
D	Disable D key
F	Disable F key
G	Disable G key
Н	Disable H key
J	Disable J key
К	Disable K key
L	Disable L key
;	Disable ; key
'	Disable ' key
1	Disable   key
١	Disable \ key
Z	Disable Z key
Х	Disable X key
С	Disable C key
V	Disable V key
В	Disable B key
N	Disable N key
M	Disable M key
Comma	Disable Comma key
Period	Disable Period key
Question	Disable Question key
Spacebar	Disable Spacebar key
Left	Disable Left key
Up	Disable Up key
L	1

Down	Disable Down key
Right	Disable Right key
Insert	Disable Insert key
Del	Disable Delete key
Home	Disable Home key
End	Disable End key
PageUp	Disable PageUp key
PageDown	Disable PageDown key
NumPad1	Disable NumPad 1 key
NumPad2	Disable NumPad 2 key
NumPad3	Disable NumPad 3 key
NumPad4	Disable NumPad 4 key
NumPad5	Disable NumPad 5 key
NumPad6	Disable NumPad 6 key
NumPad7	Disable NumPad 7 key
NumPad8	Disable NumPad 8 key
NumPad9	Disable NumPad 9 key
NumPad0	Disable NumPad 0 key
Next	Disable Next key
Divide	Disable Divide key
Multiply	Disable Multiple key
Subtract	Disable Subtract key
Enter	Disable Enter key
Add	Disable Add key
Decimal	Disable Decimal key
L	

Table 7: General system keys restrictions

# 7.2.4 Disable Alt key combination system keys

Alt	Disable Alt key and Disable Bar menu
Alt+A	Disable the Select Favourite tab from the bar menu
Alt+E	Disable the Select Edit tab from the bar menu
Alt+I	Disable open the Insert file menu
Alt+F	Disable Search the current topic
Alt+H	Disable Select Help from the bar menu
Alt+L	Disable open the Developer tab in the Ribbon
Alt+N	Disable Display the Connection Settings menu
Alt+D	Disable Select address bar
Alt+P	Disable Display preview panel on File explorer
Alt+Enter	Disable Open Properties settings for the selected item
AltGR	Disable AltGR key
Alt+Tab	Disable Switch between open apps while pressing Tab multiple times
Alt+F4	Disable Close active window. (If no active window is present, then shutdown box appears)
Alt+F8	Disable Reveals typed password in Sign-in screen
Alt+Left	Disable Go back
Alt+Right	Disable Go Forward
Alt+PageUp	Disable Move up one screen
Alt+PageDown	Disable Move down one screen
Alt+Esc	Disable Cycle through open windows
Alt+Spacebar	Disable Open context menu for the active window
Alt+UnderlinedLetter	Disable Runs command for the underlined letter in apps
Table 8: Alt combinations key	

Table 8: Alt combinations key restrictions

# 7.2.5 Disable Control key combination system keys

Ctrl	Disable Control key
Ctrl+A	Disable Select all content
Ctrl+C	Disable Copy selected items to the clipboard
Ctrl+D	Disable Delete selected item to the Recycle Bin
Ctrl+E	Disable Select search box
Ctrl+F	Disable Open search
Ctrl+L	Disable Focus on the address bar
Ctrl+M	Disable Starts mark mode
Ctrl+N	Disable Open new window
Ctrl+V	Paste content from the clipboard
Ctrl+W	Disable Close active window
Ctrl+X	Disable Cut selected items to the clipboard
Ctrl+Y	Disable Redo an action
Ctrl+Z	Disable Undo an action, including undelete files (limited)
Ctrl+F3	Disable Open search
Ctrl+DEL	Disable Delete selected item to the Recycle Bin
Ctrl+Left	Disable Change Start menu size
Ctrl+Right	Disable Change Start menu size
Ctrl+Up	Disable Change Start menu size
Ctrl+Down	Disable Change Start menu size
Ctrl+Shift+N	Disable Create a new folder on desktop or File Explorer
Ctrl+Shift+Esc	Disable Open Task Manager
Ctrl+Shift	Disable Switch keyboard layout
Ctrl+F5	Disable Refresh current window
Ctrl+Alt+Tab	Disable View open apps

Ctrl+Left+Spacebar	Disable Select multiple items on desktop or File Explorer
Ctrl+Right+Spacebar	Disable Select multiple items on desktop or File Explorer
Ctrl+Up+Spacebar	Disable Select multiple items on desktop or File Explorer
Ctrl+Down+Spacebar	Disable Select multiple items on desktop or File Explorer
Ctrl+Home	Disable Scroll to top of the console
Ctrl+End	Disable Scroll to the bottom of the console
Ctrl+Esc	Disable Open Start menu

Table 9: Control combinations key restrictions

# 7.2.6 Disable Shift key combination system keys

Shift	Disable Shift key
Shift+Delete	Disable Delete selected item permanently skipping RecycleBin
Shift+F10	Disable Open context menu for selected item
Shift + Ctrl + F10	Disable Open context menu for selected item

Table 10: Shift combinations key restrictions

# 7.2.7 Disable Windows key combination system keys

Win	Disable Open Start menu
Win+A	Disable Open Action center
Win+B	Disable Set focus notification area in the taskbar
Win+C	Disable Launch Cortana app
Win+D	Disable Display and hide the desktop
Win+E	Disable Open File Explorer
Win+F	Disable Launch Feedback Hub app
Win+G	Disable Launch Game bar app
Win+H	Disable Open dictation feature
Win+I	Disable Open Settings app
Win+J	Disable Set focus on a tip for Windows 10 when applicable

Win+M Win+N Win+O	Disable Open Connect settings Disable Minimize all windows Disable Open OneNote Disable Lock device orientation Disable Open Project settings
Win+N Win+O	Disable Open OneNote Disable Lock device orientation
Win+O	Disable Lock device orientation
Win+P	Disable Open Project settings
Win+Q	Disable Open Search
Win+R	Disable Open Run command
Win+S	Disable Open Search
Win+T	Disable Cycle through apps in the taskbar
Win+U	Disable Open Ease of Access settings
Win+V	Disable Open Clipboard bin
Win+W	Disable Open the Windows Ink Workspace
Win+X	Disable Open Quick Link menu
Win+Y	Disable Change input between desktop and Mixed Reality
	Disable Switch input between the desktop experience and Windows Mixed Reality
Win+Left	Disable Snap app or window left
Win+Right	Disable Snap app or window Right
Win+Pause	Disable Show System Properties dialog box
Win+Tab	Disable Open Task View
Win+Alt+D	Disable Open date and time in the taskbar
Win+Ctrl+Enter	Disable Open Narrator
Win+Ctrl+D	Disable Create new virtual desktop
Win+Ctrl+F4	Disable Close active virtual desktop
Win+Ctrl+Right	Disable Switch to the virtual desktop on the right
Win+Ctrl+Left	Disable Switch to the virtual desktop on the left
Win+Ctrl+F	Disable Open search for the device on a domain network
Win+Ctrl+Q	Disable Open Quick Assist
Win+Ctrl+Shift+B	Wake up the device when black or a blank screen

Win+Shift+S	Disable Create part of the screen screenshot
Win+Shift+V	Disable Cycle through notifications
Win+PrintScreen	Disable Capture full screenshot in the Screenshots folder
Win+Alt+1	Open Jump List of the app in number 1 position from the taskbar
Win+Alt+2	Open Jump List of the app in number 2 position from the taskbar
Win+Alt+3	Open Jump List of the app in number 3 position from the taskbar
Win+Alt+4	Open Jump List of the app in number 4 position from the taskbar
Win+Alt+5	Open Jump List of the app in number 5 position from the taskbar
Win+Alt+6	Open Jump List of the app in number 6 position from the taskbar
Win+Alt+7	Open Jump List of the app in number 7 position from the taskbar
Win+Alt+8	Open Jump List of the app in number 8 position from the taskbar
Win+Alt+9	Open Jump List of the app in number 9 position from the taskbar
Win+Alt+0	Open Jump List of the app in number 10 position from the taskbar

Table 11: Win combinations key restrictions

#### 7.3 Apps

The Apps tab is a white list of applications allowed to run on the PC.

Applications can be configured by adding the path of the executable file ".exe" or adding a folder where all executable files ".exe" within it and its subfolders will be allowed to run.

By default, the list is empty. The module won't block any applications until at least one application is added.

**Note:** The Task Manager is never blocked from the Apps Tab for security reasons. If you want to block Task Manager, it can be blocked from the **"Core -> Systems"** section.

Core System Key	Apps	Startup	Firewall				
Allowed App	ications <sup>®</sup>						
C:\Program File	s (x86)\			-	+	¢-	
C:\Program File	5\			-		Installed programs	
notepad.exe				-		Running Applications	
rundll32.exe				-		Clear	

This section lists applications that are whitelisted by LabLock. Therefore, applications not listed on the Apps table will be blocked by LabLock.

Windows folder paths can also be added to the table. All .exe files in subfolders of added folder paths will be allowed to run.

On the right-hand side of the screen there is a "**Settings**" button where you have 3 predefined options:

- **Installed programs:** This option will add "C:\Program Files\" and "C:\Program Files (x86)\" folder paths to the list of allowed applications.
- **Running applications:** This option will add currently running apps to the list of allowed applications.
- Clear: This option will remove all the applications from the list.

In addition, you can add executables or paths by clicking on the "+" sign located on top of the table. Individual entries can be deleted by clicking on the "-" sign located in each line of the table.

#### 7.4 Startup

The Startup tab allows you to add paths to executables and scripts that will be executed by Windows at Start-up.

Core	System Keys	Apps	Startup	Firewall						
St	artup Prograr	ns								
	:\LabLock.ps1					-	+			
E	xecutable or com	mand				-				
				Apply	Undo	Clear All				

By clicking the "+" sign located at the top of the table, you will be able to add new lines to the list of Startup programs.

Each line will also have a "-" sign to delete the script or executable previously added.

#### 7.5 Firewall

The firewall tab allows configuring local Firewall rules on the PC where LabLock is located. The screen is divided into two tables: LabLock firewall rules and Windows firewall rules.

re	System Keys	Apps	Startup	Firewall						
Lal	block firewa	ll rule	s							Add
Na	me <sup>0</sup>	Port	0	Action	Direction	Protoco	<b>0</b>	Interface	,0	
Lab	olock_test	4000	)	Allow	Inbound	TCP	ТСР			$\otimes$
Wi	Windows firewall rules <sup>1</sup> Clear default Windows rules									
Na	me <sup>®</sup>					Port®	Action	Direction	Protocol®	Interface
Wir	Windows Media Player Network Sharing Service (HTTP-Streaming-In)							Inbound	TCP	Pr-Pl

**LabLock firewall rules:** This table will display any rules created from this functionality. The rules added can also be deleted by clicking the remove button on the right-hand side of each rule.

To add new rules, you will need to click the "Add" button. A popup window will be displayed with the following:

Add new firewall rule

Name

Name

Port

Port

Direction

Inbound

Outbound

Protocol

TCP

UDP

Action

Allow

Block

Profile

Private

Domain

Name: Name for the firewall rule.

Port: Port number of the firewall rule. The numbers allowed are between 1 and 65535

Allow/Block: Determines if the port for the rule should be allowed or blocked.

Inbound/Outbound: Implements the rule as inbound or outbound.

TCP/UDP: This shows the protocol of the rule. It can be TCP or UDP.

**Profile:** Contains 3 options, Domain, Public, and Private. The table will show "D-PR-PL" depending on the option selected. Multiple options are allowed.

Note that the rules can only be added by a specific port number using this functionality.

**Windows firewall rules:** This table will display any rules created in the computer outside LabLock. These rules can't be removed from the application but can be useful when creating rules that can't override the existing rules setup. To see the rules, click "Load Windows rules". Once the Windows rules are loaded, you can also hide them by clicking on "Clear default Windows rules".

Finally, click "Apply" to implement configured restrictions.

Click "**Undo**" to remove restrictions that were selected but not applied along with different restrictions tabs.

Click "Clear all" to remove all applied restrictions from the LabLock.

# 8. Settings Menu

Settings menu allows you to configure the different LabLock options. Settings are divided into 3 different sub-sections: Roles, AD, and General.

#### 8.1 Roles

The Roles tab allows access to different profiles within LabLock. These roles must be attached to existing Local Windows groups or Active Directory security groups.

les	AD General					
#	Role name	Description	Group	Permissions	Status	
1	Administrator	Administrator role. It has access to the whole application	Administrators	Dashboard Restrictions Settings Activity Import/Export	active	đ
2	Validation	Test_Validation	Validation	Dashboard Activity	deactivated	ľ

On the landing screen, there will be a list with all the roles created, a description, the group they belong to, the permissions granted for the role, and the status of the role. By default, there will be an Administrator role belonging to the Administrators local Windows group to access the application.

**Note:** To do the initial setup, only a user belonging to the Administrators windows group will be allowed to log in to LabLock.

You can also create new roles or edit existing ones:

• To create a new role, click on add role button

<u>8</u>\*

• To edit an existing role, click on the button

Name	
Description	
Windows group Local	\$
Group name	
Active 🔽	
an nevenn	
Permissions	Allow
<b>Permissions</b> Dashboard	Allow
Dashboard	
Dashboard Restrictions	

When pressing either button, a new screen will be displayed where we can set the following fields:

Role name: This is the name of the LabLock role

Description: This is a description of the LabLock Role

**Group:** This is the group used. The group can be a Windows local group or an Active Directory security group.

Permissions: This section is used to set the permissions of the group.

Status: The status of the role in LabLock, can be activated or deactivated.

Name: This is the name of the LabLock role.

**Description:** This is a description of the LabLock Role.

**Windows group:** Windows group can be "**Local**" or "**Active Directory**". If "**Local**" is selected the user will be authenticated against a local user and group. However, if "**Active Directory**" is selected, the authentication will be done against an AD user and AD security group using LDAP.

**Group name:** This is the name of the local group or the name of the AD security group. For AD will be using the group DistinguishedName. For a user called "LabLock\_User", the DN could be as follows: "CN=LabLock\_users, OU=Groups, OU=LabLock, DC=LABLOCK, DC=local"

**Health-check button:** This button can be used to check the connectivity of AD groups. Click the button and if the AD group exists and the connection is configured correctly, the button will become green.

Active: Select active to make the group active or unchecked the option to disable the group

**Permissions:** Select the permissions to be granted to the role. You can choose from Dashboard, Restrictions, Activity, Settings, and Import/Export.

Cancel: Click "Cancel" to discard the changes and come back to the list Roles screen.

Save: Click "Save" to save the new group configuration.

#### 8.2 AD

In this tab, you can configure the settings to connect to an Active Directory server. You will need a valid AD service account. Once you fill this section with a user, LDAP authentication will be activated.

Roles	AD	General			
Use	ername			userPrincipalName	
Pas	sword				
Bas	BaseDN		dc=LABLOCK,dc=local		
Por	t			389	
				Test connection	
				Apply	

**NOTE:** Filling this option allows to use LDAP authentication. LDAP and Local Authentication can be used simultaneously.

**Username:** User should add Active Directory account. Use "UserPrincipalName" account property for the Active Directory user.

Password: Password of the Active Directory service account.

**BaseDN:** stand for Base DistiguishedsName, this should be the domain controller name. For example "dc=domain,dc=com".

**Port:** This is the LDAP authentication port used by your domain. By default, the ports used can be 389 for LDAP and 636 for LDAPS.

**Test Connection:** the "**Test Connection**" button is used for checking the AD connectivity. If the authentication call is successful, it will display a box with a check icon with a green background. However, if the health check fails, it will show a box with an "X" inside with a red background.

Apply: Click Apply to save the changes.

# 8.3 General

oles AD General	
Lablock port	3000
Session expiration	60 Minutes
Suspend restrictions time	20 Minutes
Suspend restrictions Hotkey combination	Control + Winkey + 7
Hotkey password	
Hide user notifications	
Brand	
Choose Windows Background image	
Snapshots path	C:\ProgramData\LabLock\Screenshots
Backups retention period	30 Days
Backups path	C:\ProgramData\LabLock\Backups
	Apply

General section contains general LabLock configuration settings:

Option	Explanation
LabLock port	The port will be used to connect to LabLock
Session Expiration	In the Session Expiration option, it can be created to automatically log out from a session in LabLock
Suspend restrictions time	In Suspend restrictions time can be configured a time (in minutes) to temporally disable LabLock windows restrictions
Suspend restrictions Hotkey combination	In Suspend Restrictions Hotkey combination can be configured as a hotkey combination to disable restrictions from locally in the computer. This hotkey can be executed without login to
Hotkey password	In Hotkey password, it can be configured a password to suspend windows restrictions temporally from the local computer
Hide user notifications	In Hide user notification, it can be enabled or disabled information notifications for Windows
Brand	In Brand, you can add the brand of your company to the notifications. This brand will only be shown if the Hide user notifications option is disabled

Choose Windows background image	In Choose Windows background image, it can be configured as a background image for Windows users.
Snapshot path	In the Snap-shot path option, it can be configured the folder path where the snapshot taken in the dashboard will be saved.
Backups retention period	In the Backups retention period, it can be configured the retention period for the backup's files. LabLock will delete the backup files older than the period selected automatically.
Backups path	In the Backups path option, it can be configured the folder path where the backups file will be saved. LabLock will generate a backup Zip file with the configuration and logs in a daily basis.

Table 12: General settings

# 9. Import / Export Tab

Import / Export menu is used to import and export LabLock configuration between different instances. There are two sections within this menu, one to Export configurations and another one to Import existing configurations.

## 9.1 Export

In the Export section, you will export the current LabLock restrictions and settings configurations into a file that can be shared with other computers.



Click on the **"Export"** button to download the LabLock export configuration file. This file has a unique MD5 number that is created when the configuration file is requested. This MD5 number is recorded in the **"Activity"** menu.

# 9.2 Import

In the Import section, you will import the existing LabLock restrictions and settings configurations from other LabLock instances.

Import <sup>®</sup>			
Import configuration from file	Choose file	Browse	
Restrictions		Settings	
Core		C Roles	
System keys		AD settings	
Apps		C General	
💽 Startup			
Firewall		Import now	

Click "Browse" to upload a LabLock configuration file.

Once loaded, you have different checkboxes for the different "**Restrictions**" and "**Settings**" available in LabLock. By default, all the sections will be imported.

Checked the sub-sections that you want to import to the system

Then click the "Import now" button to upload them and apply the configuration.

In the **"Activity"** section can be checked the MD5 number of the configuration file is imported for traceability.

# 10. Activity Tab

The activity menu can be used to view, search and trace the different activities and changes to the restrictions in the LabLock web portal, such as applied restrictions, warnings, user login information, and more. Use the search box to find specific entries.

username	Computer name / IP	25/06/2021 09:00	25/06/2021 21:17
Login 🗆 Dashboard 🗆 Re	strictions 🗆 Settings 🗆 Import / Exp	Search	
Recent Activity			Export

On the top menu, you can filter the different entries based on the username, the IP accessing LabLock, the start and end dates, and even the different menu(s) within the LabLock application: Login, Dashboard, Restrictions, Settings, and Import/Export.

Applied restrictions can be inspected by locating the appropriate entry and then clicking the more info button

By default, the activity log has a limit of 50 explorable entries, which can be expanded to 200 or 1000 entries, at the bottom, while the total number of log entries can be exported.

Log entries can be exported by clicking export, located at the upper right corner. Logs can be exported in CSV format.

Following logs can be registered in the LabLock Activity section:

Filter	Message
Login	User or password is incorrect
Login	is locked
Login	is part of two or more groups
Login	doesn't have permissions to login to LabLock from
Login	login to LabLock from
Dashboard	took a screenshot from
Dashboard	Suspended restrictions from
Dashboard	Log off the PC from
Dashboard	Restarted the PC from

whutdown the PC from mport the configuration file with the identification number MD5 {the MD5 number} export the configuration file with the identification number MD5 {the MD5 number}
export the configuration file with the identification number MD5 {the MD5 number}
xport activity log file in pdf format from
xport activity log file in csv format from
hanged LabLock port from {Old port} to {New port} from
Nodify Session Expiration time from {Old time} minutes to {New time} minutes from
isable Single sign on from
hanged Suspend Restrictions time from {old value} to {new value) from
hanged hotkey combination from
hanged hotkey password from
ctivate hide user notifications from
isable hide user notifications from
dded {name of brand} brand from
isable {when bran is empty} from
hange Background image path from {Old path} to {New Path} from
isable background image path {When the path is empty}
hange Snapshot path from {Old Path} to {New Path} from
hanged backup retention period from {Old day} days to {New day} days from
hange backup path from {Old Path} to {New Path} from
reate the role {Name of the role} based on {Local PC/AD} from
1odify the role {Name of the role} based on {Local PC/AD} from
nable the role {Name of the role} based on {Local PC/AD} from
isable the role {Name of the role} based on {Local PC/AD} from
dded Active directory settings from
Iodified Active Directory settings from
pplied new restrictions from
emoved all restrictions from

Table 13: Activity logs details

# 11. EULA (End User License Agreement) for LabLock software

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