

Enabling bizhub HDD Security Features

- bizhub C650/C550/C451
- bizhub C353/C253/C203
- bizhub 501/421/361
- bizhub 751/601



COUNT **ON** KONICA MINOLTA

1 Enabling bizhub HDD Security - Overview

This guide is intended to assist the bizhub Multi-Function Printer (MFP) Administrator with the steps and procedures necessary to ensure that the appropriate HDD Security Features are enabled and functioning.

The process and procedure involved in setting up or enabling the HDD Security Functions of a typical bizhub MFP are outlined as follows;

- ✓ The first step in MFP security is changing the default Administrator Password to a secure password, an AlphaNumeric password is highly recommended (no spaces).
- Next, it is very critical that the user not forget any of the passwords created using this guide. Some of the passwords created in this guide will require a service technician, replacement parts and significant cost and down time to be corrected.
 - → If the Administrator Password is forgotten, it must be set again by the Service Engineer. Contact your Technical Representative.

If the MFP in question is being installed for the first time or has been previously sanitized;

- Enable the Encryption Key Setting. See Section 2
- Enable Overwrite Temporary Data. See Section 3
- Enable HDD Lock Password. See Section 4
- Enable User Box/Secure Box Auto Deletion Settings. See Section 5
- Enable Overwrite All HDD Data End of Life HDD Sanitization. See Appendix A

If the MFP is currently running and has stored information, addresses, on-touch locations, etc already in use the following is recommended;

- It is highly recommended to back up the HDD using the Konica Minolta HDD Backup Utility application. See Appendix B
- Enable the Encryption Key Setting. See Section 2
- Enable Overwrite Temporary Data. See Section 3
- Enable HDD Lock Password. See Section 4
- Enable User Box/Secure Box Auto Deletion Settings. See Section 5
- Enable Overwrite All HDD Data End of Life HDD Sanitization. See Appendix A
- Re-install the HDD Back copy of the MFP

Important Items to Remember...

- Do not leave or walk away from the machine when Administrator Settings screen is open and on the display. If it is absolutely necessary to leave the machine, be sure first to log off from the Administrator Settings.
- ✓ Do not set any number that can easily be guessed from birthdays, employee identification numbers, and the like for the Encryption Key/Passwords. Try to change the Encryption Key/Passwords at regular intervals.
- Make sure that nobody but the Administrator of the machine comes to know the Encryption Key/Passwords.

2 Enabling the Encryption Key Setting

✓ The supported MFP models in this guide can have the HDD Encryption Kit as an optional accessory. This accessory must be installed and enabled by a service technician prior to following the steps outlined in this section. This section will demonstrate the steps necessary to enable or change the Encryption Key. These settings can be completed by the MFP Administrator a service technician is not required.

Setting the Encryption Key (Encrypting the HDD)

- 1 Enter the Administrator Mode on the MFP display, *Utility/Counter button > Administrator* Settings > Input Admin Password > Security Settings.
- **2** Touch [HDD Settings].

	Use the menu buttons or keypad to make a selection.
Bookmark	Administrator Settings> Security Settings
Utility	1 Administrator Password 6 HDD Settings
Administrator Settings	2 User Box Administrator 7 Function Management Settings
Security	3 Administrator Security 8 Stamp Settings
Settings	4 Security Details
	5 Enhanced Security Mode 0 Priver Password Encryption Setting
	01/06/2007 15:24

3 Touch [HDD Encryption Setting].



4 A confirmation message appears. Select [Yes] and touch [OK].



5 Enter the new 20-digit Encryption Key from the keyboard and keypad. To prevent entry of a wrong Encryption Key, enter the Encryption Key again in [Encryption Passphrase Confirmation].

	Use the keyboard or keypad to enter the new Encryption Passphrase. Press IC1 to erase the entered the new Encryption Passphrase.
Bookmark	Administrator Settings > HDD Settings > HDD Encryption Setting

Utility	
+	
Administrator Settings	1 2 3 4 5 6 7 8 9 0 - ^
•	qwertyuiop@
Security Settings	asdfghjkl
+	ZXCVbnn./Shift
HDD Settings	
÷	
HDD Encryption Setting	04/03/2007 13:43 Jenory 02

Keyboard Operation Notes:

- → To clear all characters Press the [C] key.
- → To delete the last character entered Touch [Delete].
- → To show the upper case/symbol screen Touch [Shift].
- → To go back to the HDD Settings screen Touch [Cancel].
- 6 Touch [OK], Re-Enter the Encryption Key and Touch [OK].
 - → If the Encryption Key entered does not meet the requirements of the Password Rules, a message appears that tells that the Encryption Key entered cannot be used. Enter the correct Encryption Key. For details of the Password Rules, see Appendix C.
 - → If there is a mismatch in the Encryption Keys, a message appears that tells that there is a mismatch in the Encryption Keys. Enter the correct Encryption Key.
- 7 Make sure that a message appears prompting you to turn OFF and then ON the main power switch. Now, turn OFF and then turn ON the main power switch.
 - → When the main power switch is turned off, then on again, wait at least 10 seconds to turn it on after turning it off. if there is no wait period between turning the main power switch off, then on again, the machine may not function properly. Here is the sequence, through which the main power switch and sub power switch are turned on and off:

Turn off the sub power switch > Turn off the main power switch > Turn on the main power switch > Turn on the sub power switch

Bookmark	The encryption passphrase was set, changed or canceled. Turn the main switch OFF and ON.
Utility	
Administrator Settings	
Security Settings	
HDD Settings	
Setting	04/03/2007 13:43 Menory 0%

8 The following screen appears after the machine has been restarted.

Name Status	Job List	Reset the encryption passphrase or format the HDD.
	Neer Status	
10/06/2006 09:28	Job Details	

- 9 Enter the Administrator Mode on the MFP display, *Utility/Counter button > Administrator Settings > Input Admin Password > HDD Encryption Settings*.
- 10 Touch [HDD Format].

Bookmark					Encryption Encryption	Passphrasel Setting	to release	the error.
Utility Administrator Settings HDD Encryption Setting		HDD) For	mat		Reset Encr	yption Pass	phrase
	10/06/2 Memory	09:29 100%						Close

11 A confirmation message appears. Select [Yes] and touch [OK].

Bookmark	A Do	rou want to format the HDD?		
Utility Administrator Settings HDD Encryption Setting				
Setting	10/06/2006 Memory	Ves	No	ОК

- **12** Make sure that a message appears prompting you to turn OFF and then ON the main power switch. Now, turn OFF and then turn ON the main power switch.
 - → When the main power switch is turned off, then on again, wait at least 10 seconds to turn it on after turning it off. if there is no wait period between turning the main power switch off, then on again, the machine may not function properly. Here is the sequence, through which the main power switch and sub power switch are turned on and off: *Turn off the sub power switch > Turn off the main power switch > Turn on the main power switch > Turn on the sub power switch*

Bookmark	A Pla) was formatted. ease turn the main switch OFF and ON.
Utility		
+		
Administrator Settings		
÷		
HDD Encryption Setting		
+		
Format HDD		
	10/06/2006 Memory	2 09:31 100%



Changing the Encryption Key

- ✓ The Encryption Key can be changed or modified at any time by the Administrator using the Edit Button.
- The Encryption Key can be cancelled or released at any time by the Administrator using the Release Button.
 - 1 Enter the Administrator Mode on the MFP display, *Utility/Counter button > Administrator* Settings > Input Admin Password > HDD Settings > HDD Encryption Settings.
 - 2 Enter the currently registered 20-digit Encryption Key from the keyboard and keypad.

The Encryption Paceshrase can be changed or cancelled. Use the keyboard or veghaar to cher the current Encryption Passphrase. Press [C] to clear your entry completely.
Administrator Settings > HDD Settings > HDD Encryption Setting
Edit Release
X000XXXXXXXXXXXXXXXXX
← → Pere
1 2 3 4 5 6 7 8 9 0
q w e r t y u i o p e
a s d f g h j k l
Z X C V b n n . / Shift
2009/09/10 14:02

Keyboard Operation Notes:

- \rightarrow To clear all characters Press the [C] key.
- → To delete the last character entered Touch [Delete].
- → To show the upper case/symbol screen Touch [Shift].
- → To go back to the HDD Settings screen Touch [Cancel].
- 3 Select [Edit] and touch [OK].
 - → If there is a mismatch in the Encryption Keys, a message appears that tells that there is a mismatch in the Encryption Keys. Enter the correct Encryption Key.
- 4 Enter the new 20-digit Encryption Key from the keyboard and keypad.

To prevent entry of a wrong Encryption Key, enter the Encryption Key again in [Encryption Passphrase Confirmation].

- 5 Touch [OK].
 - → If the Encryption Key entered does not meet the requirements of the Password Rules, a message appears that tells that the Encryption Key entered cannot be used. Enter the correct Encryption Key. For details of the Password Rules, see Appendix C.
 - → If there is a mismatch in the Encryption Keys, a message appears that tells that there is a mismatch in the Encryption Keys. Enter the correct Encryption Key.

	Use the keyboard or keypad to enter the new Encryption Passphrase. Press ${\rm ICI}$ to erase the entered the new Encryption Passphrase.
Bookmark	Administrator Settings > HDD Settings > HDD Encryption Setting
	900000000000000000
Utility	
Administrator Settings	1234567890-
	qwertyuiop@
Security Settings	asd f g h j k l
+	ZXCVbnm./Shift
HDD Settings	
HDD Encryption Setting	04/03/2007 13:43

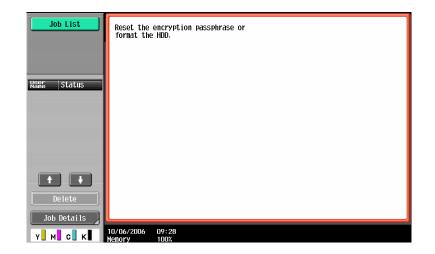
Keyboard Operation Notes:

- → To clear all characters Press the [C] key.
- → To delete the last character entered Touch [Delete].
- \rightarrow To show the upper case/symbol screen Touch [Shift].
- → To go back to the HDD Settings screen Touch [Cancel].
- 6 Touch [OK], Re-Enter the Encryption Key and Touch [OK].
 - → If the Encryption Key entered does not meet the requirements of the Password Rules, a message appears that tells that the Encryption Key entered cannot be used. Enter the correct Encryption Key. For details of the Password Rules, see Appendix C.
 - → If there is a mismatch in the Encryption Keys, a message appears that tells that there is a mismatch in the Encryption Keys. Enter the correct Encryption Key.
- 7 Make sure that a message appears prompting you to turn OFF and then ON the main power switch. Now, turn OFF and then turn ON the main power switch.
 - → When the main power switch is turned off, then on again, wait at least 10 seconds to turn it on after turning it off. if there is no wait period between turning the main power switch off, then on again, the machine may not function properly. Here is the sequence, through which the main power switch and sub power switch are turned on and off:

Turn off the sub power switch > Turn off the main power switch > Turn on the main power switch > Turn on the sub power switch

Bookmark	The encryption passphrase was set, changed or canceled. Turn the main switch OFF and ON.
Utility	
Administrator	
Settings	
•	
Security Settings	
+	
HDD Settings	
+	
HDD Encryption Setting	04/03/2007 13:43
	Memory 0%

8 The following screen appears after the machine has been restarted.



- 9 Enter the Administrator Mode on the MFP display, *Utility/Counter button > Administrator Settings > Input Admin Password > HDD Encryption Settings.*
- **10** Touch [HDD Format].

	Select	ehdd f	ormat]	or	[Reset	Encryption	Passphrase]	to release	the error.
Bookmark	Admini	.strato	r Sett	ings	> HDD	Encryption	Setting		
Utility Administrator Settings Utility Utility Administrator Settings Utility			HD	D Fo	rmat		Reset Encr	ryption Pass	phrase
	10/06/2 Memory		09:29 100%						Close

11 A confirmation message appears. Select [Yes] and touch [OK].

Bookmark	Do you want to	format the HDD?		
Utility Administrator Settings HDD Encryption Setting Format HDD				
	10/06/2006 09:29 femory 100%	Yes	No	ОК

- 12 Make sure that a message appears prompting you to turn OFF and then ON the main power switch. Now, turn OFF and then turn ON the main power switch.
 - → When the main power switch is turned off, then on again, wait at least 10 seconds to turn it on after turning it off. if there is no wait period between turning the main power switch off,

then on again, the machine may not function properly. Here is the sequence, through which the main power switch and sub power switch are turned on and off: *Turn off the sub power switch > Turn off the main power switch > Turn on the main power switch > Turn on the sub power switch*

Bookmark	ADI PIO) was formatted. ease turn the main switch OFF and ON.
Utility		
+		
Administrator Settings		
•		
HDD Encryption Setting		
+		
Format HDD		
	10/06/2006 Memory	09:31 100%



3 Enabling Overwrite Temporary Data

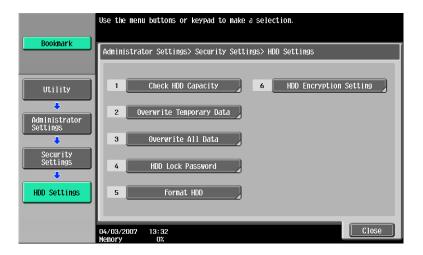
Overwrite Temporary Data should be enabled if the deletion of any latent image data that might be on the HDD after a print, scan or fax is required.

This feature requires two different settings;

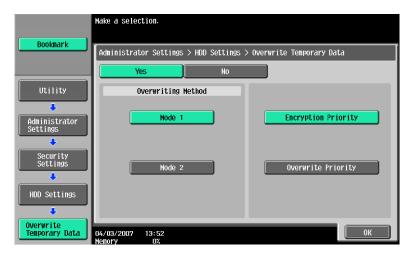
 \rightarrow Mode 1 (1x pass) or Mode 2 (3x pass)

Setting	Overwrite Method	Standards
Mode 1	Overwrite with 0 x 00	NAVSO P-5239-26 (US Navy) DoD 5220.22-M (Department of Defense)
Mode 2	Overwrite with 0 x 00 Overwrite with Oxff Overwrite with the letter "A" (Dx61) Verify	AFSSI5020 (US Air Force

- → [Encryption Priority] refers to overwriting the data in HDD and the buffered data at the full strength of the Encryption Key. It is recommended that [Encryption Priority] be selected to achieve a greater effect of encryption.
- → [Overwrite Priority] refers to overwriting the data in HDD and the buffered data at the strength of the selected overwrite mode (1 or 2)
- → [Encryption Priority] is the default setting.
- → NOTE: Encryption and Overwrite Priority will only be available when the Security Encryption Kit has been installed and enabled.
- 1 Enter the Administrator Mode on the MFP display, *Utility/Counter button > Administrator* Settings > Input Admin Password > Security Settings > HDD Settings.
- 2 Touch [Overwrite Temporary Data].



3 Touch [Yes], Touch [Mode 1] or [Mode 2], then touch [Encryption Priority] or [Overwrite Priority].



- 4 Touch [OK].
- 5 A confirmation message appears. Select [Yes] and touch [OK].



6 Make sure that a message appears prompting you to turn OFF and then ON the main power switch. Now, turn OFF and then turn ON the main power switch.

Booknark	Administrator Settings > HDD Settings > Hain Power OFF/ON Reminder
Utility Administrator Settings Security Settings	Turn the main switch OFF and ON
HDD Settings	04/08/2007 14:05 Heary 02

→ When the main power switch is turned off, then on again, wait at least 10 seconds to turn it on after turning it off. if there is no wait period between turning the main power switch off, then on again, the machine may not function properly. Here is the sequence, through which the main power switch and sub power switch are turned on and off:

Turn off the sub power switch > Turn off the main power switch > Turn on the main power switch > Turn on the sub power switch

4 Enabling HDD Lock Password

The HDD Lock Password function is standard in all bizhub MFP's. When this function is enabled a password is applied to the HDD BIOS and prevents intruder access to the hard disk data.

- Enter the Administrator Mode on the MFP display, Utility button > Administrator Settings > Input Admin Password > Security Settings > HDD Settings > HDD Settings
 - Use the keyboard or keypad to enter the Press [C] to erase the entered password. new password Bookmark Administrator Settings> HDD Settings> HDD Lock Password **** De-J Administrator Settings л Security Settings Л Shift HDD Settings HDD Lock Password A Enlarge Cancel 0K 15/20/2008 10:56
- 2 Enter a 20 character password.

- 3 Re-enter the 20 character password.
 - → If the password entered does not meet the requirements of the Password Rules, a message appears that tells that the password entered cannot be used. Enter the correct password. For details of the Password Rules, see Appendix C.
 - → If there is a mismatch in the password, a message appears that tells that there is a mismatch in the password. Enter the correct password.
- 4 Turn MFP Off, then On as prompted.

Changing the HDD Lock Password

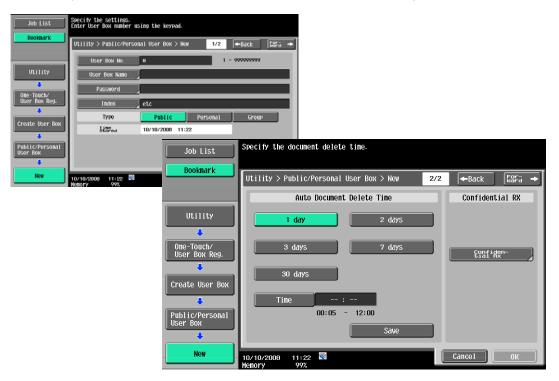
- ✓ The HDD Lock Password can be changed or modified at any time by the Administrator using the Edit Button.
- The HDD Lock Password can be cancelled or released at any time by the Administrator using the Release Button.
 - 1 Enter the Administrator Mode on the MFP display, Utility/Counter button > Administrator Settings > Input Admin Password > Security Settings > HDD Settings > HDD Lock Password
 - 2 Enter the currently registered 20-digit password from the keyboard and keypad.
 - 3 Select Edit to change or modify the 20-digit password.
 - 4 Select Release to cancel or release the 20-digit password.
 - **5** Turn MFP Off, then On as prompted.

5 bizhub MFP Box Data Deletion

bizhub Box functions like User Box, Secure Print, Encrypted PDF and ID & Print allow document data to be saved to the machine's internal hard disk. This data may be stored temporarily for printing or it can be stored for a period of time for use at a later date. All of the bizhub Box functions have the ability to delete or auto delete these stored documents.

User Box Document Deletion Settings

During the creation of a User Box the end user has the ability to set the deletion settings for that User Box. It is highly recommended that he deletion time be set before completing the User Box creation.



- → Document deletion settings can be made, as seen above, for as little as 5 minutes through 30 days.
- → User Box creation can be completed at the MFP or via PageScope WebConnection remotely.

Auto Delete Secure Print Documents

- 1 Enter the Administrator Mode on the MFP display, Utility/Counter button > Administrator Settings > Input Admin Password > System Settings > User Box Settings > Auto Delete Secure Documnents.
- 2 Specify the period from the date/time when a secure document was saved or last retrieved to the date/time when it is to be deleted automatically.

Reference

Using the Time button specify 5 minutes to 12 hours (on a 1-minute basis), or select 1 day, 2 days, 3 days, 7 days, or 30 days.



Encrypted PDF Delete Time

- 1 Enter the Administrator Mode on the MFP display, Utility/Counter button > Administrator Settings > Input Admin Password > System Settings > User Box Settings > Encrypted PDF Delete Time.
- 2 Specify the period from the date/time when a document was saved or last retrieved to the date/time when it is to be deleted automatically.

Reference

Using the Time button specify 5 minutes to 12 hours (on a 1-minute basis), or select 1 day, 2 days, 3 days, 7 days, or 30 days.

Declarant	Specify when encrypted PDF documents will be deleted.
Bookmark	Administrator Settings > User Box Settings > Encrypted PDF Delete Time
Utility	1 day 2 days
Administrator Settings	3 days 7 days
System Settings	30 days
User Box Settings	00:05 - 12:00
Encrypted PDF Delete Time	10/10/2008 11:28 🖏

ID & Print Delete Time

Before an Administrator can set the deletion times for ID & Print the ID & Print function must be enabled on the MFP. If it is not enabled the user will not see the ID & Print Delete Time button in Admin Mode.

- 1 Enter the Administrator Mode on the MFP display, Utility/Counter button > Administrator Settings > Input Admin Password > System Settings > User Box Settings > ID & Print Delete Time.
- 2 Specify the period from the date/time when a document was saved or last retrieved to the date/time when it is to be deleted automatically.

Reference

- Using the Time button specify 5 minutes to 12 hours (on a 1-minute basis), or select 1 day, 2 days, 3 days, 7 days, or 30 days.

	Specify the ID & Print Delete Time.
Bookmark	Administrator Settings > User Box Settings > ID & Print Delete Time
Utility	1 day 2 days
Administrator Settings	3 days 7 days
System Settings	Tine :
User Box Settings	00:05 - 12:00 Save
ID & Print Delete Time	I/10/2008 11:28 ₩ Hemory 99%.

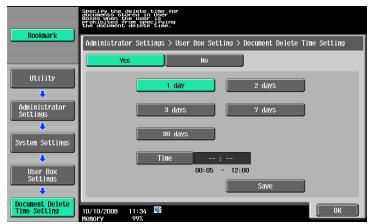
Document Delete Time Setting

This function enables the administrator to specify the period from the date/time when a document was saved in or retrieved from a User Box to the date/time when it is to be deleted automatically when the user cannot specify the document deletion time. When automatically specifying the document deletion time, select [Yes] and select the deletion time.

- 1 Enter the Administrator Mode on the MFP display, Utility/Counter button > Administrator Settings > Input Admin Password > System Settings > User Box Settings > Auto Delete Secure Documnents.
- 2 Specify the period from the date/time when a document was saved or last retrieved to the date/time when it is to be deleted automatically.

Reference

- Using the Time button specify 5 minutes to 12 hours (on a 1-minute basis), or select 1 day, 2 days, 3 days, 7 days, or 30 days.





Overwrite All Data Function (HDD Sanitization)

At the 'End of Life' or 'End of Lease' where the MFP is to be discarded the Overwrite All Data function overwrites and erases all data stored in all spaces of the HDD. This function also resets all passwords back to factory default settings, preventing any leakage of data.

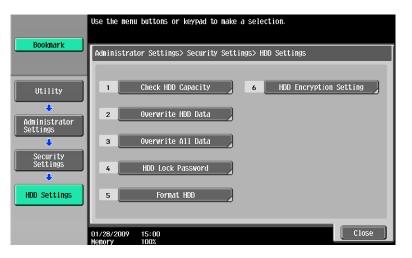
The HDD Overwrite Methods include the choice of eight different modes, [Mode 1] through [Mode 8] each Mode corresponding with a specific Government Standard.

Overwrite All Data takes less than one hour in [Mode 1] at the minimum and approximately 9 hours in [Mode 8] at the maximum.

Mode	Description	
Mode 1	Overwrites once with 0x00. Japan Electro	onic & Information Technology Association Russian Standard (GOST)
Mode 2	Overwrites with random numbers random numbers 0x00.	Current National Security Agency (NSA)
Mode 3	Overwrites with 0x00 0xff random numbers verifies.	National Computer Security Center (NCSC-TG-025) US Navy (NAVSO P-5239-26) Department of Defense (DoD 5220.22M)
Mode 4	Overwrites with random numbers 0x00 0xff.	Army Regulations (AR380-19)
Mode 5	Overwrites with 0x00 0xff 0x00 0xff.	Former NSA Standard
Mode 6	Overwrites with 0x00 0xff 0x00 0xff 0x00 0xff random numbers.	NATO Standard
Mode 7	Overwrites with 0x00 0xff 0x00 0xff 0x00 0xff 0xaa.	German Standard (VISTR)
Mode 8	Overwrites with 0x00 0xff 0x00 0xff 0x00 0xff 0xaa verifies.	US Air Force (AFSSI5020)

Setting the Overwrite All Data function

- 1 Enter the Administrator Mode on the MFP display, *Utility button > Administrator Settings > Input Admin Password > Security Settings > HDD Settings > HDD Settings.*
- 2 Touch [Overwrite All Data].



3 Select the desired mode and touch [Delete].

	Select the deleting method, and then touch [Delete].
Bookmark	Administrator Settings> HDD Settings> Overwrite All Data
	HDD Overwrite Method
Utility	Mode 1 Mode 2 Node 3
Administrator Settings	Hode 4 Hode 5 Node 6
Security Settings	Mode 7 Hode 8
HDD Settings	Delete
Overwrite All Data	04/03/2007 14:24

4 A confirmation message appears. Select [Yes] and touch [OK].



5 Make sure that a message appears prompting you to turn OFF and then ON the main power switch. Now, turn OFF and then turn ON the main power switch.

Bookmark	
	Administrator Settings> HDD Settings> Overwrite All Data
UL111Ly	
•	
Administrator Settings	All data has been overwritten and erased. Turn the main switch OFF and ON
Security Settings	
+	
HDD Settings	
+	
Overwrite All Data	03/04/2007 17:21 Nemory 100%

- → Check that all data has been overwritten and erased properly. Data is not erased properly if an error occurs during the procedure. For more details, consult the Service Representative.
- → When the main power switch is turned off, then on again, wait at least 10 seconds to turn it on after turning it off. if there is no wait period between turning the main power switch off, then on again, the machine may not function properly. Here is the sequence, through which the main power switch and sub power switch are turned on and off: Turn off the sub power switch > Turn off the main power switch > Turn on the main power

Turn off the sub power switch > Turn off the main power switch > Turn on the main power switch > Turn on the sub power switch

- → After the main power switch has been turned on, quickly turn it off and give the machine to the Service Engineer.
- → If the Overwrite All Data function is executed by mistake, contact the Service Engineer. For more details, consult the Service Representative.

Appendix B Utilizing the Konica Minolta HDD Back Up Utility

The HDD Backup Utility, which is to be installed in the PC of the Administrator of the machine, is application software used exclusively for accessing the HDD of an MFP. The HDD Backup Utility functions performed by the Administrator of the machine allow the image data saved in the HDD of the machine to be backed up and restored. It is not possible to open and review the backup data file directly.

To gain access to the machine from the HDD Backup Utility, the user must be an Administrator with knowledge of the Administrator Password. The Administrator Password entered during the authentication procedure is displayed as "*." When the Enhanced Security mode is set to [ON], the number of times in which authentication fails is counted.

2.1 Backup

⇒ In Backup, neither the Administrator Password nor CE Password is backed up.

- 1 Start the HDD Backup Utility.
- 2 Select this machine and click [Backup].

sic Settings					
vice list:			Number o	f Displayed Devices:1	Function Selection
atus Status Display	Registered name	Group name	Model name	Device address	129 Backup 129 Restore
😂 Online	MFP	Default Group			Device Selection Filter
					Display All

3 Enter the Administrator Password registered in the machine in the "Administrator password" box.

Connect to device		
Connect to the device to be backed up.		1/7
Enter the Administrator password.		
Registered name:	Device address:	
MFP		
Administrator password: Administrator password (confirmation):	NUMBER N	
Important	red for backup.	

→ If the "Save the administrator password" check box is selected, the Administrator Password entered is stored in the PC being used. If you do not want the Administrator Password stored, clear the "Save the administrator password" check box.

- 4 Click [Next].
 - → If a wrong Administrator Password is entered, a message appears that tells that there is a mismatch in the passwords. Enter the correct Administrator Password.
 - → If the Enhanced Security mode is set to [ON], entry of a wrong password is counted as unauthorized access. If a wrong Administrator Password is entered a predetermined number of times (once to three times) or more set by the Administrator of the machine, a message appears that tells that the machine accepts no more Administrator Passwords because of unauthorized access for any subsequent entry of the Administrator Password. The machine is then set into an access lock state. To cancel the access lock state, settings must be made by the Service Engineer; or, turn off, and then turn on, the main power switch of the machine. If the main power switch is turned off and on, the access lock state is canceled after the lapse of time set for [Release Time Settings]. When the main power switch is turned off, then on again, wait at least 10 seconds to turn it on after turning it off. If there is no wait period between turning the main power switch off, then on again, the machine may not function properly. Here is the sequence, through which the main power switch and sub power switch are turned on and off: Turn off the sub power switch → Turn off the main power switch.
 - → If the Administrator Password is forgotten, it must be set again by the Service Engineer. Contact your Technical Representative.
- 5 From "Backup media," select the check box of the desired media and click [Next].

Select backup target Select the target of backup from the device.			2/7
Select the backup target. © Backup Box © Backup [mage			Connected
Image Backup Target <u>M</u> edia: Media name ☑	Size 138,689.00 MB		=
Help(F1)	< <u>B</u> ack	<u>N</u> ext >	<u>C</u> ancel

6 Click [Browse] and specify the destination, in which the backup folder is to be saved.

3/7
Cornecte
Browse
up folder name] in the location d from the device.

7 Type a backup folder name that consists of 1 to 50 characters in the "Backup folder name" text box and click [Next].

Backup folder sel	tings			
Create the backu	o folder.			
				C
Enter the backup fo	der path and name.			
Backup folder path:				
C:\				Browse
Backup folder name				
Backup_20090120				
]				
Backup size:	148.1 MB			
Explanation				
The HDD Back specified in [Ba	up Utility creates the fol kup folder path], and s	der specified in [Ba aves the data acqu	ckup folder name] ir uired from the device	n the location 1.

8 To set a password for the backup file, select the corresponding check box and type a password that consists of 1 to 64 digits in the box for "Password for backup file" and "Password for backup file (confirmation)" and then click [Next].

Password settings	
Specify a password.	4/7
	Connect
To set a password for the backup files, select the checkbox and	enter the password.
Set a password for the backup files.	
Password for backup file:	
Descond for booling file (see Constitution) REPRESENT	
Password for backup file (confirmation):	
Explanation	
Setting a password for the backup files protects the files fro	
The password set here will be requirec when the saved data	is restored.
Help(F1)	< Back Next > Cancel

9 Check the data that has been set and click [Start].

If the configuration of the Polymological		Con
If the settings are correct, click [Start].		
Device to be backed up:	MFP	
Backup type:	Box Backup	
Backup folder	C\Backup_20090120_101357_001	
Backup size:	148.1 MB	
📕 Used disk space after backup:	18.3 GB	
Free disk space after backup:	18.9 GB	
Disk ratio after backup:		

10 Make sure that the backup procedure has been completed. Then, click [Finish].

Backup was	completed.
Target device:	MFP
Backup type:	Box Backup
Backup folder:	C:\Backup_20090120_101357_001
Report file:	C:\Documents and Settings\Administrator.DAD\Local Settings\Application Data
	View <u>r</u> eport

2.2 Restoring a Backup HDD File

- 1 Start the HDD Backup Utility.
- 2 Select this machine and click [Restore].

2evice list: Status Status Display Registered name (Number o	f Displayed Devices:1	Function Selection
			192/2010/0	the second s
	Group name	Model name	Device address	🚰 Backup 🎢 Restore
😂 Online MFP D	Default Group			-
				Device Selection Filter
				Display All

3 Click [OK].

(į)	Restoring will overwrite the data on the media built into the device. Click [OK] to restore or [Cancel] to cancel restoration.
	OK Cancel

4 Click [Browse] and specify the destination, in which the backup file is to be saved.

fer that you want to restore to the device.	1/5
irce with the Browse button.	
101357_001	Browse
rmation	
MFP	
Box Backup	
148.1 MB	
01/20/2009 10:13:57	
	ler that you want to restore to the device. Ince with the Browse button. I01357_001 Imation IMFP Rox Rackup I48.1 MB

→ If a password has been set for the backup data, type the password that consists of one to 64 digits set during Backup and click [OK].

	as been set for the backup files. sword that was set durng backup.
Password:	жж
Help(F1)	OK Cancel

- 5 Click [Next].
- 6 Type the 8-digit Administrator Password registered in the machine in the "Administrator Password" box.

Connect to device Connect to the device to be restored.					21
Enter the Administrator password.					
Registered name:		Device add	ress:		
MFP	-				
Save the administrator password.					
Administrator password:	******	6			-
Administrator password (confirmation).	-				-
Agministrator password (commutori).	1				
Important					
Make sure the device has been prepare Do not turn off the device during restore Do not shut down the OS.	ation.				
Do not unplug the network cable of the	device o	r the PC durin	ng restoration	l.	

- → If the "Save the administrator password" check box is selected, the Administrator Password entered is stored in the PC being used. If you do not want the Administrator Password stored, clear the "Save the administrator password" check box.
- 7 Click [Next].
 - → If a wrong Administrator Password is entered, a message appears that tells that there is a mismatch in the passwords. Enter the correct Administrator Password.
 - → If the Enhanced Security mode is set to [ON], entry of a wrong password is counted as unauthorized access. If a wrong Administrator Password is entered a predetermined number of times (once to three times) or more set by the Administrator of the machine, a message appears that tells that the machine accepts no more Administrator Passwords because of unauthorized access for any subsequent entry of the Administrator Password. The machine is then set into an access lock state. To cancel the access lock state, settings must be made by the Service Engineer; or, turn off, and then turn on, the main power switch of the machine. If the main power switch is turned off and on, the access lock state is canceled after the lapse of time set for [Release Time Settings]. When the main power switch is turned off, then on again, wait at least 10 seconds to turn it on after turning it off. If there is no wait period between turning the main power switch off, then on again, the machine may not function properly. Here is the sequence, through which the main power switch and sub power switch are turned on and off: Turn off the sub power switch → Turn off the main power switch → Turn on the main power
 - switch \rightarrow Turn on the sub power switch.
 - → If the Administrator Password is forgotten, it must be set again by the Service Engineer. Contact your Technical Representative.

8 Check the data that has been set and click [Start].

	pe restored to the device using the following settings.	3/5
Jean and		Conne
If the settings are corre		
 Restoration information 		
Target device:	MFP	
 Restoration source info 		
Hestoration source info	rmation	
Backup type:	Box Backup	
	C:\Backup_20090120_101357_001	
Backup folder:		
Backup folder: Backup size,	148.1 MB	

- 9 Click [OK]. Make sure that Restore procedure has been completed and then click [Finish].

Restoration ende	d with the following result.	5/			
Restoration	was completed.				
Target device:	MFP				
Backup type:	Box Backup				
Backup folder:	C:\Backup_20090120_101357_001				
Report file:	C:\Documents and Settings\Administrator.DAD\Local Settings\Application Data\KDf				
		View report			

Appendix C Recommended Password Rules

Password Rules

According to certain Password Rules, registration of a password consisting of a string of a single character or change of a password to one consisting of a string of a single character is rejected for the Administrator Password, User Password, Account Password, User Box Password, Secure Print Password, SNMP Password, WebDAV Server Password, and Encryption Key. For the Administrator Password, User Box Password, Account Password, WebDAV Server Password, SNMP Password, WebDAV Server Password, SNMP Password, WebDAV Server Password, User Box Password, Song Password, User Box Password, User Box Password, Song Password, User Box Password, User Password, Account Password, User Box Password, User Box Password, Song Password, User Box Password, Song Password, Song Password, User Box Password, Song Password, User Box Password, Song Password, Song Password, Song Password, User Box Password, Song Password, Song Password, User Box Password, Song Password, Song Password, Song Password, User Box Password, Song P

Study the following table for more details of the number of digits and characters that can be used for each password.

Types of passwords User Password	No. of digits 8 digits	 Characters Numeric characters: 0 to 9 Alpha characters: upper and lower case letters Symbols: !, #, \$, %, &, ', (,), *, ,, -, ., /, :, ;, <, =, >, ?, @, [,], ^, _, `, {, , }, ~, + Characters with umlaut (95 characters) Selectable from among a total of 188 characters
Encryption Key	20 digits	 Numeric characters: 0 to 9 Alpha characters: upper and lower case letters Symbols: !, #, \$, %, &, ', *, +, -, ., /, =, ?, @, ^, _, `, {, , }, ~ Selectable from among a total of 83 characters
Administrator Password	8 digits	 Numeric characters: 0 to 9 Alpha characters: upper and lower case letters Symbols: !, #, \$, %, &, ', (,), *, ,, -, ., /, :, ;, <, =, >, ?, @, [,], ^, _, `, {, , }, ~, + Selectable from among a total of 93 characters
Account Password User Box Password Secure Print Password	8 digits or more	 Numeric characters: 0 to 9 Alpha characters: upper and lower case letters Symbols: !, \$, %, &, (,), *, ,, -, ., /, :, ;, <, =, >, ?, @, [,], ^, _, `, {, , }, ~, +
WebDAV Server Password		Selectable from among a total of 90 characters

Precautions for Use of Umlaut

- The maximum number of digits allowed for the User Password is 64, if umlaut is used with all characters, however, the maximum number of digits allowed becomes 32 digits.
- Setting or entering an umlaut from the control panel may be disabled depending on the setting made in this machine, but not on the client PC side including PageScope Web Connection. If an umlaut is set in a password on the PC side, therefore, the umlaut cannot be entered from the control panel, which means that this particular password is not usable.





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