

# The Konica Minolta Guide to LDAP

This guide details how to set up the: Bizhub 250/350, 420/500, 361/421/501, 600/750 Bizhub C250, C252, C300, C351, C352, C450 Bizhub C203, 253, 451, 550, 650









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#### LDAP, Lightweight Directory Access Protocol, is an Internet protocol that Konica Minolta machines can use to look up E-Mail Addresses from a server running Active Directory with LDAP Service\* \*Server 2008, LDAP is installed separately to Active Directory\*

To set up LDAP on the Konica Minolta Bizhub machines, please follow the instructions below: *NB: this is a guide only and is not indicative of actual settings for your network or machine as the LDAP structure varies from Network to Network and machine.* 

It is advisable for the Network Administrator to configure settings as a knowledge of the Network is required.

## C250, 252, C300, C351, C352, C450, BH420/BH500, BH600/BH750

### Setting up via the Control Panel -

- 1) Press on Utility/Counter
- 2) Press on Administrator Setting and enter the Admin code of 12345678
- 3) Press on Network Setting
- 4) Press on LDAP Setting
- 5) Press on 'Enabling LDAP Function' and select 'ON'. Press 'OK'

6) The machine will then take you out of Network Settings and you will have to follow steps 3 & 4 again

7) Press on 'Setting Up LDAP' and the following screen will appear

Setting Up LDAP		
		1/4 <b>◆Back</b> Fwd. ◆
Server Address	150. 16. 85. 10	
Search Base 🖌	dc=bgb, dc=kme, dc=intern	
	Reset All Settings	Cancel OK

- 8) Enter the IP address of the server where LDAP is configured
- 9) Enter in the 'Search Base' of the domain.

As a rough guide you can find the domain by right clicking 'My Computer' and going in to the Properties. Under the 'Computer Name' tab it will say 'Domain' as below. The basic rule for the Search Base is if the customer has a separate container of employee e-mail addresses that are outside of the root of the domain this must also be specified. If they do not, you only need to input the root.

For example, the customer has a container called Sales, and his domain is mydomain.co.uk. The search base would be: ou=Sales,dc=mydomain,dc=co,dc=uk

Without the Sales container, it would be dc=mydomain,dc=co,dc=uk(Searches entire domain)

My Computer Properties

	7		-
System Restore	Automa	atic Updates	Remote
General Corr	puter Name	Hardware	Advance
Windows uses the following information to identify your computer on the network.			
omputer <u>d</u> escription:	Pete Ellis		
	For example: " Computer".	Kitchen Computer"	or "Mary's
ull computer name:	UK01LT69.bg	b.kme.intem	
o use the Network Ider	bgb.kme.intern	to join a	Network ID
Domain: Fo use the Network Iden Iomain and create a loc D.	bgb.kme.intern ntification Wizard al user account,	l to join a click Network	Network ID
Domain: Fo use the Network Ider Iomain and create a loc D. To rename this compute	bgb.kme.intern ntification Wizard al user account, r or join a domain	to join a click Network n, click Change.	Network ID
Jomain: To use the Network Ider Iomain and create a loc D. To rename this compute	bgb.kme.intern ntification Wizard al user account, r or join a domair	1 to join a click Network n, click Change.	Network ID
omain: o use the Network Ider omain and create a loc D. o rename this compute	bgb.kme.intern ntification Wizard al user account, r or join a domain	to join a click Network n, click Change.	Network ID
omain: omain and create a loc J. o rename this compute	bgb kme intern ntification Wizard al user account, r or join a domain	to join a click Network n, click Change.	Network ID
lomain: o use the Network Ider omain and create a loc D. o rename this compute	bgb kme intern ntification Wizard al user account, r or join a domain	to join a click Network n, click Change.	Network ID
lomain: o use the Network Ider omain and create a loc D. o rename this compute	bgb kme intern ntification Wizard al user account, r or join a domain	n click Network n, click Change.	Network ID

10) Press the 'FWD' button to progress to the next screen

11) These next settings are very much dependent on the customer's server and how it has been set up. For example, the Hotline in Basildon runs on a different network to the LDAP server. On our machines, we have to set the 'General Settings' to 'Simple' but on the next screen we have to force the domain within the User Name. On other machines in the building that are on the same network as the server, 'General Settings' are set to GSS-SPNEGO and the domain does not need to forced.

Setting Up LDAP		
[		2/4 ←Back Fwd. →
Enable SSL	Port No.	General Settings
ON	389 1~65535	anonymous Simple
OFF		Digest-MD5 GSS-SPNEGO
	eset All ettings	Cancel K

12) Press the 'FWD' button to progress to the next screen

13) Enter the 'Login Name' and 'Password' of an account that is set up on the server. Setting Up LDAP

This is us			3/4 HBack	F₩d. →
forcing	Login Name	bgb)UK011911		
tne domain				
domain	Password	****		
	🛛 🗌 Domain Name	bgb.kme.intern		
		Reset All Settings	Cancel	ОК

- 14) Enter in the 'Domain Name' as discovered in Step 9.
- 15) Press the 'FWD' button to progress to the next screen
- 16) Set as required

			4/4	<b>+</b> Back	🛛 🖣 Fwd. 🕈
	Enable		Disable		
	Reset All Settings	]		Cancel	OK

On the machine, a 'Check Connection' button will appear here. Once you have entered the settings, press on this button to ensure the machine can see the LDAP server

Set up of LDAP is now complete.

### You can also set this up via a web browser.

To do this, follow the instructions below:

1) Enter the IP address of the Konica Minolta machine into Internet Explorer and press Go

2) Log into the web page using the Admin code for the machine. Depending on which machine you have, this will either be 8 x 0's (0000000) or 12345678.

3) Click on the Network tab at the top of the screen

4) Then click on LDAP

5) Once you have input the settings, be sure to click on 'Check LDAP Setting'

🕙 Network Setting - Admin Mode - Mi	crosoft Internet Explorer		_ 2 🔀	
Elle Edit View Favorites Iools Help 🧤				
🚱 Back 🝷 🐑 💌 🛃 🐔	🔎 Search 🤺 Favorites 🧔	🖉 - چ 🚍 🖵 🛍		
Address Address http://150.16.169.27/a_network.	×ml	▼	🔁 Go 🕴 Links 🂙	
KONICA MINOLTA	Ready to Scan	600	~	
Scope Web Connection	Low Paper	<b>?</b>		
Logout	System User Box	Print Scan Network		
►TCP/IP	LDAP			
►NetWare	LDAP	Enable 💌		
►IPP	LDAP Server Address	150.16.85.10		
▶ FTP	Port Number	389 (1-65535)		
►SNMP	Enable SSL			
► SMB	Port Number(SSL)	636 (1-65535)		
►Apple Talk	Search Base	dc=bgb,dc=kme,dc=intern		
►LDAP	Search Timeout	60 Seconds (5-300)		
►E-Mail	Max # of LDAP Hits	100 (5-1000)		
►SSL/TLS	Authentication Method	anonymous 💌		
>Authentication	Login Name	bgb\UKD11911		
►IS OpenAPI	Password			
	Domain Name	bgb.kme.intern		
		Check LDAP Setting Apply Clear		
🚳 Applet 2356, status started				
Applier 3356_status started		Service Se	nec	

### Bizhub 250/350

### Setting up via the Web Browser-

#### It is easier to configure the Bizhub 250/350 via the web interface.

- Log into Admin Mode using the code of 8 x 0's (00000000) and click on the Network tab. Make sure you enable LDAP under the 'LDAP' heading before you go into 'LDAP Server Setting'
- 2) Select any available set of 3 dashes (allowed up to 5 servers) we will assume Hot2003 does not exist

ENNICA MINOLTA	🌍 Ready to 🌍 Ready to	Scan Print			250
Log-out	System	User Box	Print	Fax/Scan	Network
▼ Common Setting ► TCP/IP	LDAP Server				
▶ IP Filtering	1	2	3	4	5
▶ IPP	□ HOT2003				
▶ NetWare					Delete
NetWare Status					
Windows					
▶ AppleTalk					
▶ LDAP					
LDAP Server Setting					
E-Mail/Internet FAX					
► FTP Configuration					
SNMP Setting					
SSL/TLS					
▶ IP Relay Settings					

3) The LDAP Server screen opens as below, you may need to force the domain as shown. Search base will be your FQDN in dc=, format. Domain Name would be your normal domain logon name.

CONICA MINOLTA	Ready to Scan Ready to Print	250		
Log-out	System User Box	Print Fax/Scan Network		
▼ Common Setting ▶ TCP/IP	LDAP Server Setting			
▶ IP Filtering	LDAP Server Name	HOT2003		
▶ IPP	LDAP Server Address	10 . 120 . 210 . 201		
▶ NetWare	SSL/TLS	Disable 💌		
NetWare Status	Port Number	389 (1-65535)		
▶ Windows	Search Base	dc=hotline2k3,dc=hotline,dc=local		
▶ AppleTalk	Connection timeout	60 Sec (5-300)		
▶ LDAP	Maximum number of Search	100 (5-100)		
LDAP Server Setting	Authentication Setting	Simple		
E-Mail/Internet FAX	Domain Name	hotline2k3		
FTP Configuration	Login Name	hotline2k3\administrator		
SNMP Setting	Password			
► SSL/TLS				
IP Relay Settings		_Check connection		
	-   Forcing th Domain	ne		

# Bizhub C203 – 650 (Bizhub 361-501 is similar)

# Setting up via the Control Panel –

## At Machine:

1. Press Utility/Counter

<ol><li>Press "Adm</li></ol>	ninistrator Settings"
Job List	Use the menu buttons or keypad to make a selection.
Meter Count	Utility
user Status	1 One-Touch/User Box Registration
	2 User Settings
	3 Administrator Settings
	4 Check Consumable Life
Delete	
Job Details	
У M С К	10/24/2008 16:12 🖗 Close

3. Enter the Administrator Password, default = 12345678 and press "OK"

Rookmark	Use the keyboard or keypad to type in the Administrator password. Press [C] to erase the entered the Administrator password.
	Utility > Administrator Settings
	XXXXXXXXXX
Utility	
Administrator Settings	1 2 3 4 5 6 7 8 9 0 - ^
	<b>q wertyuiop</b>
	asdfghjkl;:1
	ZXCVbnm,./\Shift
	10/24/2008 16:13 🕅 🖉 🕼 🕼 🖉 🖉 Cancel OK

4. Press "Fax Settings"

	Use the menu buttons or keypad to make a	a selection.
Bookmark	Administrator Settings	
Utility	1 System Settings	6 Copier Settings
Administrator	2 Administrator/ Machine Settings	7 Printer Set Lings
	3 One-Touch/User Box Registration	8 Fax ettings
	4 User Authentication/ Account Track	9 System Connection
	5 Network Settings	0 Security Settings
	10/24/2008 16:13 <sup>™</sup> Memory 100%	Close

# 5. Press "Function Settings"

	Use the menu	I buttons or keypad to ma	ke a selection	
Bookmark	Administrat	or Settings > Fax Setti	ngs	
Utility	1	Header Information	6	PBX Connection Setting
Administrator Settings	2	Header/Footer Position	7	Report Settings
Fax Settings	3	ine Parameter Setting	8	Job Settings List
	4	TX/RX Settings	a	
		Tunction Settings	9	
	10/24/2008 Memory	16:13 100%		Close

6. Press "Forward TX Setting"

Dealmout	Use the menu	i buttons or keypad to make	a sele	ction.
	Administrat	cor Settings > Fax Settings	> Func	tion Settings
Utility	1	Function ON/OFF Setting	6	Remote RX
Administrator Settings	2	Dial-In Settings	7	Incomplete TX Hold
	3	Memory RX Setting	8	PC-Fax RX Setting
	4	Closed Network RX	9	TSI User Box Setting
Settings	5	Forward TX Setting		
	10/24/2008 Memory	16:13 100%		Close

7. Press all as arrowed then "Select from Address Book"

	Specify the forwarding destination and the output method. Enter destination using the dial buttons or the keypad.
Bookmark	Administrator Settings > Function Settings > Fax Forwarding Settings
Utility	Yes     No       Output Method     Eesterd
Administrator	Forward & Print Select No Selection
	Forward & Print 1 2 3 Tone
	4         5         6         Pause           7         8         9         -
Settings	* 0 # Select from Address Book
Fax Forwarding Settings	10/24/2008 16:14 🚳 🚺 ОК

8. Here you have a couple of options, you can select "Index" and search for a recipient or select "Destination Type" and "E-Mail" then select the recipient. The latter is shown below

Boolmark	Select destination (max. 1) to forward incoming faxes. The registered one-touches can be viewed and selected from their respective address types.
	Administrator Settings > Fax Forwarding Settings > Select from Address Book
	Index Registration Number Destination Type
Utility	E0001:test@test.com
· · · · · · · · · · · · · · · · · · ·	Fax E-Mail PC (SMB) FTP Group
Administrator Settings	Test 1/ 1
Function Settings	
Fax Forwarding Settings	
Select from Address Book	10/24/2008 16:16 🕅 🕺 🚺

8. Press "OK" you will then be returned to the screen as in 7 only this time you will see your selected recipient in the Forward Dest. Dialogue box.

Doolmark	Specify the forwarding de Enter destination using t	stination and the he dial buttons o	e output method. pr the keypad.							
	Administrator Settings > Function Settings > Fax Forwarding Settings									
	Yes	No								
Utility	Output Method	Forward Dest.	test@test.com							
Administrator Settings	Forward & Print	Select Line	NO Selection							
Fax Settings	Forward & Print (If TX Fails)	1 2 4 5	3Tone6Pause							
Function Settings		7 8 * 0	9							
Fax Forwarding Settings	10/24/2008 16:16 👹 Memory 100%		ОК							

9. Press "OK" then "Close" until back to main screen

Setting up via the Web Interface-

1. Enter the IP address of the Konica Minolta machine into Internet Explorer and press Go

2. Log into the web page using the Admin code for the machine. Default = 12345678.

- 3. Click on the Network tab at the top of the screen
- 4. Then click on LDAP Setting and set to Enable

	🌆 Administrator			Logout ?
Model Name:bizhub C550				C.
Maintenance Security	Box	Print Setting	Store Address	Network
TCP/IP Setting	LDAP Setting	1.00		
E-mail Setting	Enabling LDAP	0		
LDAP Setting				OK Cancel
► LDAP Setting				
Setting Up LDAP				
IPP Setting				
FTP Setting				
SNMP Setting				
SMB Setting				
Web Service Settings				
Bonjour Setting				
NetWare Setting				
AppleTalk Setting				
Network Fax Setting				
WebDAV Settings				
OpenAPI Setting				
TCP Socket Setting				

4) Select "Setting Up LDAP" and select any available radio button. we will assume Hot2003 does not exist.
 5 Select "Edit"

🔵 ΚΟΝΙCΛ ΜΙΝΟ	LTA	200 A	dministrato	or			1	ogout
Stoff Web Con lodel Name:bizhub Cé	nection 550							
Maintenance	Security		Box	¢	Print Setting	Store Address	1	Network
TCP/IP Setting		LDA	P Server	List				
E-mail Setting		No.	Default	LDAP Se	rver Name	Check Connection	Edit	Delete
LDAP Setting		1	e	hot2003		Check Connection	Edit	Delete
LDAP Setting		2	C				Edit	Delete
Setting Up LDA	Po:	З	0			]	Edit	Delete
IPP Setting		4	C			5	Edit	Delete
ETP Setting		5	0				Edit	Delete
SNMP Setting								
SMB Setting							OK	Cance
Web Service Settin	nas							
Boniour Setting	37							
NetWare Setting								
AppleTalk Setting								
Network Fax Settir	a							
WebDAV Settings	20							
OnenAPI Setting								
opon a coording								

6. Enter you network settings in the dialogue box's including password. The copier will use the Admin credentials to interrogate LDAP (**none of this is seen by end user**)

Scoff Web Connection						
Nodel Name:bizhub C550						C.
Maintenance Security	Box Pr	int Setting	Stor	e Address	Netw	ork
TCP/IP Setting	Setting Up LDAP					
E₋mail Setting	No.	55	1			
LDAP Setting	LDAP Server Name	1	hot2003			
I DAP Setting	Server Address	2	Please	check to en	ter host name	
E Service Unit DAD		1	10.120.210	.201		
Setting Up LDAP	Port Number		389	(1-66535)		
IPP Setting	L Enable SSL	9	696	(1 CEEDE)		
FTP Setting	Port Number (SSL)		dombotline"	(1-65535)	a desta a d	
SNMP Setting	Timeout	1	eo	2K3,8C=N0(III	ie,dc-iocai	
SMB Setting	May Search Results	8	100	5-1000)		
Web Service Settings	Authentication Method	2	NTLM v1	(000) T		
Bonjour Setting	Login Name		administrat	or	1	
NetWare Setting	Password	1				
ApploTalk Satting	Domain Name		hotline2k3			
Network Few Cetting	Select Server Authentication	Method	Set Value		•	
Network Fax Setting	Use Referral		ON 👻			
WebDAV Settings	Initial Setting for Search Deta	uls				
OpenAPI Setting	Name		OR	•		
TCP Socket Setting	E-mail	1	OR	-		
	Fax Number	1	OR	-		
	Last Name	1	OR	-		
	First Name	1	OR	-		
	City	]	OR			
	Organization	1	OR	-		
	Organizational Unit		OR	-		

6. Select "OK" you will then be returned to the screen as in 5-6 above, where you can 'Test' the connection. If all OK you can Logout.

To use the LDAP search function the procedure will vary slightly depending on the machine model. For this example we will use the Bizhub C550.

For File Type selection please refer to the relevant User Manual

#### **User Mode:**

- 1. Place Document(s) in document feeder
- 2. Select "FAX/SCAN"
- 3. Select Address Search Tab
- 4. Select "Search"
- 5. Enter firstname or lastname or part thereof
- 6. Select "Start Search"
- 7. Machine will retrieve names from the LDAP server matching search criteria
- 8. Select Recipient(s) \*Select "Name-Dest" then name\*Only if Fax Unit Fitted
- 9. Select "OK"
- 10. Press "Start"

## Setting up and Printing using User Authentication on Bizhub's C203-C650

Login to the machine's web browser as Administrator

#### Set up machine to "look" at LDAP Server before enabling

**Authentication**, if machine can already search LDAP for basic email search then any errors with this set up will most likely be due to configuration and not machine.

Maintenance Security		Bo	×	Print Setting	Store Address		Network
A thentication	Exte	rnal Sei	ver List				
User Auth/Account Track	No.	Default	External	Server Name	External Server	Ed	Delete
External Server	1	0				Edit	Delete
Pofoult Function	2	0				Edit	Delete
Permission	3	6				Edit	Delete
User Registration	4	0				Edit	Delete
Account Track Registration	5	0				Edit	Delete
SSL/TLS Setting	6	0				Edit	Delete
Address Reference Setting	7	6				Edit	Delete
Permission of Address	8	6				Edit	Delete
Change	9	0				Edit	Delete
Auto Logout	10	6				Edit	Delete
Administrator Password	11	0				Edit	Delete
Setting	12	6				Edit	Delete
	13	0				Edit	Delete
	14	6				Edit	Delete
	15	0				Edit	Delete
	16	6				Edit	Delete
	17	0				Edit	Delete
	18	6				Edit	Delete
	19	0				Edit	Delete
	20	0				Edit	Delete

Click on "Security" then "External Server Registration" then "Edit"

OK Cancel

Click on "Edit" and enter details as per your network

SCONICA MINOLTA	Administrator Logout ?						
Maintenance Sec	urity Print Setting Store Address Network						
Authentication	External Server Registration						
User Auth/Account Trac	k No. 1						
External Server Registration	External Server Name hot2003 External Server Type LDAP						
Default Function Permission	Active Directory Default Domain Name						
User Registration	NTLM						
Account Track Registration	NDS						
SSL/TLS Setting	Default NDS Tree Name						
Address Reference Setting	Default NDS Context Name						
Permission of Address Change	LDAP Server Address						
Auto Logout	10.120.210.201						
	Port No. [389 (1-65535)						
	Enable SSL						
	Port No.(SSL) [636 (1-65535)						
	Search Base  dc=hotline2k3,dc=hotline,dc=local						
	Timeout 60 sec. (5-300)						
	Authentication Method Simple						
	Search Attribute uid						
	OK Cancel						

Click "OK" then "OK" to confirmation message, you will then be returned to the screen shown previously only now you will see the server listed. You can add multiple servers if required

Maintenance Security		Bo	Print Setting	Store Address		Network		
Authentication	External Server List							
Vser Auth/Account Track	No.	Default	External Verver Name	External Server Type	Edit	Delete		
External Server Registration	1	e	hot2003	LDAP	Edit	Delete		
Default Eunetion	2	•			Edit	Delete		
Permission	З	e			Edit	Delete		
User Registration	4	•			Edit	Delete		
Account Track Registration	5	6			Edit	Delete		
SSL/TLS Setting	6	e			Edit	Delete		
Address Reference Setting	7	e			Edit	Delete		
Permission of Address	8	e			Edit	Delete		
Change	9	0			Edit	Delete		
Auto Logout	10	•			Edit	Delete		
Administrator Password	11	6			Edit	Delete		
Setting	12	•			Edit	Delete		
	13	6			Edit	Delete		
	14	•			Edit	Delete		
	15	e			Edit	Delete		
	16	•			Edit	Delete		
	17	e			Edit	Delete		
	18	0			Edit	Delete		
	19	e			Edit	Delete		
	20	0			Edit	Delete		

OK Cancel

E KONICA MINOLTA	Administrator	Logout 🢡		
Model Name:bizhub C253				C.
Maintenance Security	Print Setting	Store Address	Network	
▼ Authentication	User Auth/Account T	rack		
User Auth/Account Track	General Settings	OF	-	
External Server Registration	Public User Access Ticket Hold Time Setti	ng (Active ON	- (External Server) (MFP)	]
Default Function Permission	Directory) Account Track	OF	•	
User Registration	Account Track Input M	lethod Acc	ount Name & Passwo	rd 💌
Account Track Registration	Synchronize User Aut Account Track	nentication & Syr	nchronize \star	
SSL/TLS Setting	Number of Counters A Users	ssigned for	(1-999)	
Address Reference Setting	When Number of Jobs			
Permission of Address Change	Maximum	J.212		
Auto Logout				

Showing Enabling *User Authentication* - option can be set for Public User Access for BW access if required. Default Function permissions can also be set if required, eg: Total copy/print restriction (ALL users).

Click "OK" to all Messages then Logout.

### **User Mode**

User is shown Logon Screen on Copier consisting of:

- Username (1)
- Password (2)
- Domainname (3)
  - (1) Users Domain Login Name
  - (2) Users Domain Password
  - (3) No need to touch (fixed unless multiple servers/domains are used)

Press "Login"

The Machine will now Authenticate against the Domain Controller all machine functions should now be available.

NB:Once a user has successfully logged into the machine an account will be created on the machine consisting of "username" for usage accounting tracking purposes