



ATCOM LDAP user manual

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Contact ATCOM

Overview of ATCOM

ATCOM is the leading VoIP hardware manufacturer in global market. We have been keeping innovating with customer's needs oriented , working with partners to establish a total solution for SMB VoIP with IP phone , IP PBX and Asterisk cards

With over 10 years' experience of R&D , manufacturing and service in network and VoIP filed ; mission of creating the biggest value for IP terminals , we commit ourselves in supplying the competitive IP phone and other terminals for IP PBX , soft switch , IMS , NGN providers and carriers; supplying the competitive total VoIP solution for SMB market. We keep improving the customer's experience and creating the bigger value with our reliable products. Until now, our VoIP products have been available in 100+ countries and used by millions of end users.

Contact Sales

Address	Area C, A2F , Block 3 ,Huangguan Technology Park , #21 Tairan 9th Rd, Chegongmiao , Futian District , Shenzhen China
Tel	+ (86) 755-83018618-8806
Fax	+ (86) 755-83018319
E-mail	sales@atcomemail.com

Contact Technical Support

Tel	+ (86) 755-83018618-8001
E-mail	Support@atcomemail.com

Website Address: <http://www.atcom.cn/>

Download Center: <http://www.atcom.cn/download.html>

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How to use ATCOM LDAP

This guide provides configurations on the LDAP server and ATCOM IP phones.

1 Introduction

LDAP (Light Directory Access protocol) is a X.500-based Directory Access Protocol Standard and is extendable according the demand. LDAP is a stored as a information directory which there is only one unique group or group in the directory and several devices or applications may share a directory between each other.

An LDAP directory can be distributed among many servers on a network, then replicated and synchronized regularly.

2 Configuration

Please note that LDAP phonebook support on all model now, please access to the webpage, and go to 'phonebook- LDAP', then you can find the configured options is like following picture.

NOTE: There is a different interface between color screen IP phone and common IP phone, but the feature is same.

LDAP

Enable LDAP:	<input type="text" value="No"/>		
LDAP Name Filter:	<input type="text"/>	LDAP Number Filter:	<input type="text"/>
Server Address:	<input type="text"/>	Port:	<input type="text" value="389"/>
Base:	<input type="text"/>		
Username:	<input type="text"/>	Password:	<input type="text"/>
Max Hits (1-32000):	<input type="text" value="50"/>		
LDAP Name Attributes:	<input type="text"/>	LDAP Number Attributes:	<input type="text"/>
LDAP Display Name:	<input type="text"/>	Protocol:	<input type="text" value="Version 3"/>
LDAP Lookup For Incoming Call:	<input type="text" value="No"/>	LDAP Lookup For Callout:	<input type="text" value="No"/>
LDAP Sorting Results:	<input type="text" value="No"/>		

3. Attributes

3.1 Common Attributes

Attribute	Name	Description
cn	commonName	Full name of the entry
gn	giveName	First name also called Christian name
sn	surname	Surname, last name or family name
telephoneNumber	telephoneNumber	Office phone number
homePhone	homeTelephoneNumber	Home phone number
mobile	mobileTelephoneNumber	Mobile or cellular phone number
pager	pagerTelephoneNumber	Pager telephone number
company	company	Company name
o	organizationName	Organization name
ou	organizationUnitName	Usual department or any sub entity or larger entity

3.2 Attributes on ATCOM configured page

Enable LDAP	
Parameter	Ldap.enable

Description	<p>This parameter enables or disables LDAP feature on the IP phone</p> <p>0- Disabled(default)</p> <p>1- Enable</p>
LDAP Name Filter	
Parameter	Ldap.name_filter
Description	<p>LDAP name filter is the search criteria for name loop up, the format of the search filter is compliant to the standard string representations of LDAP search filters (RFC 2254).The "*" symbol in the filter stands for any character. The "%" symbol in the filter stands for the name prefix entered by the user.</p>
Examples	<ul style="list-style-type: none"> ● ((cn=%)(sn=%)(telephoneNumber=%)) When the cn or sn or telephoneNumber of the LDAP contact starts with the entered prefix, the record will be displayed on the phone LCD screen. ● (&(cn=*)(sn=%)) When the cn of the LDAP contact is set and the sn of the LDAP contact start with the entered prefix, the record will be displayed on the phone LCD screen. ● (!(cn=%)) When the cn of the LDAP contact does not start with the entered prefix, the record will be displayed on the phone LCD screen.
LDAP Name Filter	
Parameter	Ldap.number_filter
Description	<p>LDAP number filter is the search criteria for number loop up, the format of the search filter is compliant to the standard string representations of LDAP search filters (RFC 2254).The "*" symbol in the filter stands for any character. The "%" symbol in the filter stands for the name prefix entered by the user.</p>
Examples	<ul style="list-style-type: none"> ● ((telephoneNumber=%)(mobile=%)(ipPhone=%)) When the telephoneNumber or mobile or ipPhone of the LDAP contact starts with the entered prefix, the record will

	<p>be displayed on the phone LCD screen.</p> <ul style="list-style-type: none"> • (&(telephoneNumber=*)(mobile=%)) When the telephoneNumber of the LDAP contact is set and the sn of the LDAP contact start with the entered prefix, the record will be displayed on the phone LCD screen.
Server Address	
Parameter	ldap.host
Description	This parameter specifies the domain name or IP address of the LDAP server
Default Value	Blank
Examples	<ul style="list-style-type: none"> • 172.16.0.235 • ldap.atcom.com
Port	
Parameter	ldap.port
Description	This parameter specifies the LDAP server port
Default Value	389
Base	
Parameter	ldap.port
Description	This parameter specifies the LDAP search base which corresponds to the location in the LDAP directory. The search base narrows the search scope and decreases directory search time
Examples	<ul style="list-style-type: none"> • dc=atcom, dc=com
Username	

Parameter	ldap.user
Description	This parameter specifies the user name to login the LDAP server. if the LDAP server allows anonymous to login, the parameter can be left blank. Otherwise you need to provide the user name to access the LDAP server.
Examples	<ul style="list-style-type: none"> ● dc=manager, dc=atcom, dc=com
Password	
Parameter	ldap.password
Description	This parameter specifies the user name to login the LDAP server. if the LDAP server allows anonymous to login, the parameter can be left blank. Otherwise you need to provide the password to access the LDAP server.
Examples	<ul style="list-style-type: none"> ● secret
Max Hits(1~32000)	
Parameter	ldap.max_hits
Description	This parameter specifies the maximum number of the search results to the returned by the LDAP server. if the value of the "Max.Hits" is blank, the LDAP server will return all searched results. Please note that a very large value of the "Max.Hits" will show down the LDAP search speed, therefore the parameter should be configured according to the available bandwidth.
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LDAP Name Attributes	
Parameter	ldap.name_attr

Description	This parameter specifies the name attributes of each record to be returned by the LDAP server, this parameter compresses the search results. The user can configure multiple name attributes separated by space.
Examples	<ul style="list-style-type: none"> ● cn sn displayName This requires the "cn", "sn" and "displaynName" attributes set for each contact record on the LDAP server. ● givenName This requires the "givenNme" attributes set for each contact record on the LDAP server
LDAP Number Attributes	
Parameter	ldap.numb_attr
Description	This parameter specifies the number attributes of each record to be returned by the LDAP server. This parameter compresses the search results. The user can configure multiple number attributes separated by space.
Examples	<ul style="list-style-type: none"> ● mobile telephoneNumber ipPhone This requires the "mobile", "telephoneNumber" and "ipPhone" attributes set for each contact record on the LDAP server
LDAP Display name	
Parameter	ldap.display_name
Description	This parameter specifies the display name of the contact record displayed on the LCD screen, this parameter value must start with "%" symbol
Examples	<ul style="list-style-type: none"> ● %cn The desired display name of the contact record is the cn attribute
Protocol	
Parameter	ldap.version

<p>Description</p>	<p>This parameter specifies the LDAP protocol version supported on the phone, make sure the protocol value corresponds with the version assigned on the LDAP server.</p> <p>2- version 2 3- version 3 (default)</p>
<p>LDAP Lookup For Incoming Call</p>	
<p>Parameter</p>	<p>ldap.call_in_lookup</p>
<p>Description</p>	<p>This parameter enables or disables the phone to perform on LDAP server when receiving an incoming call</p> <p>0- Disabled (default) 1- Enables</p> <p>NOTE: if the caller number contains the special characters(for example '\!' or space), the phone will match the search criteria in the parameter "LDAP Name Filter (ldap.name_filter)". If not, the phone will match the search criteria in the parameter "LDAP number Filter (ldap.number_filter)"</p>
<p>LDAP Lookup For Callout</p>	
<p>Parameter</p>	<p>ldap.call_out_lookup</p>
<p>Description</p>	<p>This parameter enables or disables the phone to perform on LDAP server when placing a call</p> <p>0- Disabled (default) 1- Enables</p> <p>NOTE: if the caller number contains the special characters(for example '\!' or space), the phone will match the search criteria in the parameter "LDAP Name Filter (ldap.name_filter)". If not, the phone will match the search criteria in the parameter "LDAP number Filter (ldap.number_filter)"</p>
<p>LDAP Sorting Results</p>	

Parameter	ldap.ldap_sort
Description	<p>This parameter enables or disables the phone to sort the search results in alphabetical order or numerical order.</p> <p>0- Disabled (Default)</p> <p>1- Enabled</p>

3.3 Configuration example

The following setting as a starting point and adjust the filter and display attributers according to your requirement. The following shows example of OpenLDAP phone configuration.

```

LDAP Name Filter: (|(cn=%)(sn=%))
LDAP Number Filter: (|(telephoneNumber=%)(Mobile=%)(ipPhone=%))
Server Address: 172.16.0.235
Port: 389
Base: dc=atcom,dc=cn
Username: cn=manager,dc=atcom,dc=cn
Password: secret
Max.Hits(1-32000): 50
LDAP Name Attributes: cn sn
LDAP Number Attributes: Mobile telephoneNumber ipPhone
LDAP Display Name: %cn
Protocol: Version 3
LDAP Lookup For Incoming Call: Enabled
LDAP Lookup For Callot: Enabled
LDAP sorting Results: Enabled

```

To use LDAP feature, it need to press the directory button then could find LDAP key or configure a DSS key as an LDAP key.

4 Configuration on ATCOM Phone

LDAP ?		
Enable LDAP	<input type="text" value="Enable"/>	
LDAP Name Filter	<input type="text" value="((cn=%)(sn=%))"/>	?
LDAP Number Filter	<input type="text" value="((telephoneNumber=%)(M"/>	?
Server Address	<input type="text" value="172.16.0.235"/>	Port <input type="text" value="389"/> ?
Base	<input type="text" value="dc=atcom,dc=cn"/>	?
Username	<input type="text" value="cn=manager,dc=atcom,dc"/>	?
Password	<input type="password" value="*****"/>	?
Max Hits	<input type="text" value="50"/>	? (1~32000)
LDAP Name Attributes	<input type="text" value="cn sn"/>	?
LDAP Number Attributes	<input type="text" value="Mobile telephoneNumber i"/>	?
LDAP Display Name	<input type="text" value="%cn"/>	?
Protocol	<input type="text" value="Version 3"/>	
LDAP Sorting Results	<input type="text" value="Enable"/>	?
LDAP Lookup For Incoming Call	<input type="text" value="Enable"/>	?
LDAP Lookup For dialing	<input type="text" value="Enable"/>	?