



Q-DAS Product Line

LDAP connection Desktop applications

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Document History

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1 Functional description

This documentation shows how user-specific information stored in the Active Directory is automatically transferred to the Q-DAS desktop applications. This makes it possible to automatically fill report headers with the current information from the Active Directory. The user information is not permanently stored in the Q-DAS user management, only temporarily.

LDAP (Lightweight Directory Access Protocol), a directory access protocol, is used for this purpose.

An "Active Directory" directory usually consists of several levels. These can be subdivided as follows:

- OU (Organizational Unit)
- DC (Domain Component)
- CN (Common Name)

To ensure a correct connection, these levels must be known.



The "LDAP.EXE" provided by Q-DAS is required for LDAP configuration. This is available after a standard installation. If this is not the case, you can request the required EXE via the Q-DAS homepage using the contact form or e-mail contact.

LDAP.exe

07.04.2022 10:59 Anwendung

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Due to the fact that the data is automatically obtained from the Active Directory, no other user can see the data of another user in the Q-DAS Desktop applications.



All users who want to use the LDAP connection for the Q-DAS Desktop applications must be available in the same organizational unit in the Active Directory.



2 Configuration LDAP.EXE

If available, the user-specific users are read out via LDAP. For this purpose, an entry must be made in the configuration database. This assigns all defined LDAP fields accordingly and fills them with content. To get these fields displayed, the Q-DAS tool "LDAP.EXE" must be started. The check mark at "use LDAP-API" must be set. The parameters for the connection to the Active Directory are read automatically.

👪 LDAP					-	\times
Root			u(for windowsuser)	AREA		
Colonger State Street	[LDAP]		sAMAccountName			_
d2(prefix: com, loc, de def: com)			AltUName	COST		
com						
d3(evtl. select-pre def: LDAP)			🖂 al 🔽 use LDAP-API	WORKSH	OP	
LDAP			Read Fields			
d4(evtl. topdomain)			Redu Fielus	DEPT		
			windowsuser	-		
d5(evtl. 2. topdomain)			Dennie	PLANT		
			Domain	-		
d6(evtl. 3. topdomain)	Configuring Logging Protocoll	1 7	DAD Lloor	NAME		
	0	,	LDAP-OSEI			
	Save in Config-DB		DNS-Domain	Telefon		
			DN3-Domain			
				Fax		_
				E-Mail		_
				ADGroups	;	_
connectionstring		and the second				
ILTE INVINC = //	s pinare (p1/02/V_13/13_0_6_3/0	ap.ual				
commandtext						



It should be noted that the organizational units must be specified from the lowest level to the highest level in the directory.



The LDAP.EXE uses the Active Directory directory of the current Windows user. Under certain circumstances, there may be an entry with the current user in the "Root" field. This entry (user name) must be removed manually from the string.



2.1 K-fields for output within the Q-DAS application

Subsequently, the assignment and output fields that are to be transferred from the Active Directory can be stored. Various output fields are available for this purpose. In order to create a link to the user data, the Active Directory designations (attributes) must be entered in the K fields. The assignment and output fields are briefly explained below:

Assignment or output field	Designation	Q-DAS K field	
u (for windowsuser)	Login user field (if not set: sAMAccountName)	K9509	
AltUName	Alternate username*	K9510	
Area	Area	K9511	
Cost	Cost center*	K9517	
Workshop	Workshop*	K9516	
Dept	Department*	K9512	
Plant	Company*	K9501	
Name	Name*	K9510	
Telephone	Phone number*	K9513	
Fax	Fax number*	K9514	
E-mail	E-Mail Address*	K9515	

*can be ignored if not needed.



2.2 LDAP function test

The "Read Fields" button can be used to test whether the selected attributes are correctly addressed.

👪 LDAP					-		×
Root d2(prefix: com, loc, de def: com)	[LDAP]		u(for windowsuser) sAMAccountName AltUName	AREA COST			_
d3(evtl, select-pre def: LDAP) d4(evtl, topdomain) d5(evtl, 2. topdomain)			Read Fields	WORKSHOP DEPT PLANT	>		
d6(evtl. 3. topdomain)	Configuring Logging Protocoll Save in Config-DB	1	Domain LDAP-User DNS-Domain	NAME Telefon Fax			
				E-Mail ADGroups			
connectionstring FILE NAME=\	\$\Share\BIN32\V_13\13_0_6_3\\d	ap.udl		,			_
commandtext SELECT sAMAccountName FROM 'LC	DAP://dc=,dc=loc' WHEP	RE objectCla	ss = 'user' and objectCategory <> 'co	mputer' order	by sAMA	AccountNa	ame

If the settings are correct, you can hover the mouse cursor over a selected attribute and the corresponding Active Directory will be displayed.

DEPT
department
PLANT Applications



2.3 Save settings to configuration database

Subsequently, the settings made must be saved in the corresponding configuration database via the "Save in Config-DB" button. For this purpose, the *.UDL link file must be selected, which contains the correspondingly used configuration database.

👪 LDAP		- 🗆 X
Root d2(prefix: com, loc, de, def: com) Com d3(evti, select-pre def: LDAP) LDAP d3=com d4(evti, topdomain) d3=LDAP d5(evti, 2, topdomain) d3=1	u(for windowsuser) SAMAccountName AltLName I all I use LDAP-API Read Fields Windowsuser Domain	AREA COST WORKSHOP DEPT Gepartment[PLANT
d6(evil. 3. topdomain) Configuring Logging Protoc Save in Config connectionstring	LDAP-User DNS-Domain	NAME Telefon Fax E-Mal D ADGroups
FILE NAME=\\\q-das\Share\BIN32\V_13\13_0_	3\dap.udl	
SELECT sAMAccountName FROM 'LDAP://dc=,dc=loc	VHERE objectClass = 'user' and objectCategory <>	'computer' order by sAMAccountName



The *.UDL link file required here with the configuration database used must be created manually.



2.4 Create LDAP link file (*.UDL)

In order to enable the Q-DAS Desktop application to connect to the Active Directory, a *.UDL link file must be created, in which the required connection parameters to the Active Directory are stored.

The following settings are to be made here:

Provider: OLE DB Provider for Microsoft Directory Services

Data source: Active Directory Server Directory

(to be found in the Q-DAS LDAP.EXE under the entry "DNS Domain")

🗊 Data Link Properties	×	🗊 Data Link Properties 🛛 🗙 🗙
Provider Connection Advanced All		Provider Connection Advanced All
Select the data you want to connect to:		Specify the following to connect to this data:
OLE DB Provider(s)		Enter the data source and/or location of the data: Data Source: testserver.com
Microsoft OLE DB Driver for SQL Server Microsoft OLE DB Provider for Analysis Services 14.0 Microsoft OLE DB Provider for ODBC Drivers		Location:
Microsoft OLE DB Provider for ODBe Divers Microsoft OLE DB Provider for Search Microsoft OLE DB Provider for SQL Server		Enter information to log on to the server: Use Windows NT Integrated security
Microsoft OLE DB Simple Provider MSDataShape		Use a specific user name and password:
OLE DB Provider for Microsoft Directory Services		User name:
OLE DB Provider for SQL Server Integration Services SQL Server Native Client 11.0		Password:
SQL Server Native Client RDA 11.0		Blank password Allow saving password
		3. Enter the initial catalog to use:
Next >>		Test Connection
OK Cancel H	lelp	OK Cancel Help



The *.UDL link file required here must be created manually.



2.5 Activation in product INI

In order to activate the LDAP connection, an entry within the used V13 product INI file in section [SYSTEM] with the reference to the *.UDL connection file to be used, must be added.

🔚 V13_	_qs_STAT.INI 🔀
37	;======================================
38	
39	
40	;======================================
41	;-SYSTEMSYSTEMSYSTEMSYSTEMSYSTEM
42	;======================================
43	[system]
44	
45	LDAP=\\\q-das\Share\BIN32\V_13\13_0_6_3\QDAS_LDAP.UDL
46	



The entry must be present in every product-specific INI.

2.6 Function test

If the Windows-user login is enabled and the LDAP connection is working properly, you can use the Q-DAS user management or in a report file to check whether the entries for the respective user are be transferred correctly. For this user, the user data fields can no longer be used within the Q-DAS software. If a customization is made in the Active Directory, this will also be done in the the Q-DAS desktop applications.

2.6.1 View within Q-DAS user management

User management	
Logged in as :	User name
han an theory of	Are at a fields
🔉 Filter/Search 🗙	Password
> 🏤 Operator	•••
> -etc Supervisor	Sector
> Department Head	Germany
	Department
- 9	Project Engineer
	Workshop
	Weinheim
	Lost centre DEWEI
	News
	Name
	Company Name
	Q-DAS
	Telephone
	+4962013941
	Telefax
	+4962013941
	E-Mail
	@hexagon.com
	Default User
	✓ Windows user
	Signature
Hide all levels Show all levels	
Password inquiry for external programs	User is allowed to change his data
Accept login for active user (Q-COM)	Use Windows registration
Q-DAS messages	Canceled after wrong password entry
Login dialogue configuration	Last PC user
Password guidelines	Sign off user automatically
	OK Cancel Help



2.6.2 View within the Q-DAS report file:

ፉ HEXAGON O Q-DAS	LDAP - User Information			
	Plant Sector	Germany		
	Op.Name.	Number of Sectors		
	Department/Cost area/Prod.	Project Engineer		
	Shop floor	Weinheim		
	Cost center	DEWEI		
	Telephone Number	+4962013941		
	Telefax Number	+4962013941		
	E-Mail Address	@hexagon.com		
	•			