User Guide

Dynamark Authentication Protocol

Supported technologies

D-/F-Series

D310/D310e

G-/Gx-Series

Dx-Series

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0 Version History

Revision	Date	Changes
R01	25-Jun-2021	First release of combined D/F-Series & D310/D310e & G/Gx-Series Dynamark authentication user guide.
R02	11-Apr-2025	Added Dx-Series support to document. Fixed description of LOGIN command (MD5 is only supported on D/F-Series). Updated document font.

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1 General

To authenticate from a remote server to the controller, printer or laser coder, an implemented TCP/IP server is needed on the remote peer.

Contact Domino to receive details about configuring the remote access.

There are several commands for the authentication process regarding user login and password policy.

The authentication server must provide and manage the information listed in the two tables below.

For each user:

Name of Variable	Description
nUserIndex: Integer	Unique index of this user.
strUserID: Text	Unique login-name.
nStatus: Integer	Enumeration of a status. Can be ACTIVE=0, EXPIRED, DORMANT, DELETED, LOCKED.
strSurname	Text
strForename	Text
strDepartment	Text
strGrantID	Text Encoded bitset, defining the permissions.
Groups: set	The set of groups to which the user belongs. Each group has a strGrantID as above.
strPassword	Text
expiry: Date	Date When this account will expire (can be not set).
nChangePasswordPeriod	Integer Period in days, after which a password must be changed.

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ChangePassword	Date When the next password change must take place.
nTimeout	Integer Time in minutes after which a user will be logged out if inactive.
nLoginattempts	Integer Number of unsuccessful login attempts.
bMustchangePassword	Boolean Flag that the user must change the password. Can be set e.g. by the admin if stolen passwords are assumed, or at first login of the user with a preset password.

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Globally for Password Policy:

Name of Variable	Description
nMinLength	Minimum length of password
nMinUpperChar	Minimum number of upper-case characters
nMinLowerChar	Minimum number of lower-case characters
nMinNumericChar	Minimum number of numeric characters
nMaxMultipleChar	Maximum number of multiple character occurrences
nMaxPartOfUserID	Maximum number of consecutive characters of the user-ID
nMinReusePassword	Minimum number of password changes until a password may be reused again
nMinSpecChar	Minimum number of special characters (see strSpecChar below)
nMaxLoginAttempts	Maximum number of unsuccessful login attempts allowed before the account is locked
strSpecChar	Characters of which a certain number must appear in the password (see nMinSpecChar above)
nPWChangeRemind	Number of days to warn the user that the password must be changed.
nExpiryRemind	Number of days to warn the user that the account will expire.

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2 G-Series Specifics

2.1 Authentication

The G-Series has four user levels. These user levels are "`User`", "`Settings`", "`Service`" and "`Manufacturer`". There is no password necessary for the level "`User`". The "`User`" level can only perform basic operations, such as loading of print messages, and turning print groups on.

The function "`LOGOUT`" is used to exit from any higher user level back to "`User`". To enter "`Settings`", "`Service`" or "`Manufacturer`", fixed passwords are sufficient.

If the authentication function is activated the "`User`" will no longer be allowed to load messages. To load and print messages, the minimum user level is "`Settings`". When the authentication function is activated, every user must sign in with a unique username and password.

If the external authentication function is activated, the menu "`change user level`" will give the possibility to enter a unique username and password. These two values will be sent to the external authentication server which will check the values and return the access rights either as "`Settings`", "`Service`" or "`Manufacturer`" for the user.

These access rights are passed in parameter "`strGroupID`" as plaintext and in the parameter "`strUserGrant`" as bit coded:

- "`Manufacturer" : "strUserGrant" = "00000008"`
- "`Service" : "strUserGrant" = "00000004"`
- "`Settings" : "strUserGrant" = "00000002"`
- "`User" : "strUserGrant" = "00000001"`

If the username and password do not match, an error message will be shown and the password entry will be cleared.

- The name of the last user who signed in will be remembered until printer is rebooted, so it is sufficient to re-enter just the password if a user wants to sign in again.
- The access rights of the current user either "`User`" or "`Settings`" or "`Service`" or "`Manufacturer`" will be shown on the screen.

If remote security mode is activated, the connection to the authentication server will be checked by client. The client tries to establish the connection every 20 seconds. The existing connection is monitored by sending of the command "`GETSECURITYMODE`" every 10 seconds. After one unanswered request, a fault condition will be detected. The loss of the connection will be reported with an alarm. The alarm can be configured in the menu "*Service* > *Set-Up* > *Alarms Errors*".

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3 Gx-Series Specifics

3.1 Authentication

The Gx-Series has four user levels. These user levels are "`User`", "`Settings`", "`Service`" and "`Administrator`". There is no password for the level "`User`". The "`User`" level can only perform basic operations, such as start/stop printing. To be able to load and print labels, the minimum user level is "`Settings`".

The command "`LOGOUT`" is used to exit from any higher user level back to "`User`". To enter "`Settings`", "`Service`" or "`Administrator`", fixed passwords are sufficient.

When the remote security mode is activated, every user must sign in with a unique username and password. The username and password values will be sent to the external authentication server which will check the values and return the access rights either as "`Settings`", "`Service`" or "`Administrator`" for the user.

These access rights are passed in parameter "`strGroupID`" as plaintext and in the parameter "`strUserGrant`" as bit coded:

- "`Administrator`" : "`strUserGrant`" = "`00000008`"
- "`Service`" : "`strUserGrant`" = "`00000004`"
- "`Settings`" : "`strUserGrant`" = "`00000002`"
- "`User`" : "`strUserGrant`" = "`00000001`"

If the username and password do not match, an error message will be shown and the password entry will be cleared.

- The name of the last user who signed in will be remembered until printer is rebooted, so it is sufficient to re-enter just the password if a user wants to sign in again.
- The access rights of the current user either "`User`" or "`Settings`" or "`Service`" or "`Administrator`" will be shown on the screen.

If remote security mode is activated, the connection to the authentication server will be checked by client. The client tries to establish the connection every 20 seconds. The existing connection is monitored by sending of the command "`GETSECURITYMODE`" every 10 seconds. After one unanswered request, a fault condition will be detected. The loss of the connection will be reported with an alarm. The alarm can be configured in the menu "*Home* > *Setup* > *Alert configuration*".

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4 Dx-Series Specifics

4.1 Authentication

The Dx-Series with remote security has four user levels. These user levels are "Logout", "Operator", "Supervisor" and "Administrator". There is no password for the level "Logout". The "Logout" level can only see the home screen. To be able to load and print labels, the minimum user level is "Operator".

The command "LOGOUT" is used to exit from any higher user level back to "Logout".

When the remote security mode is activated, every user must sign in with a unique username and password. The username and password values will be sent to the external authentication server which will check the values and return the access rights either as "Operator", "Supervisor" or "Administrator" for the user.

These access rights are passed in parameter "strGroupID" as plaintext and in the parameter "strUserGrant" as bit coded:

- "Administrator" : "strUserGrant" = "00000008"
- "Supervisor" : "strUserGrant" = "00000004"
- "Operator" : "strUserGrant" = "00000002"
- "Logout" : "strUserGrant" = "00000001"

If the username and password do not match, an error message will be shown and the user name and password entry will be cleared.

If remote security mode is activated, the connection to the authentication server will be checked by client. The client tries to establish the connection every 20 seconds. The existing connection is monitored by sending of the command "GETSECURITYMODE" every 10 seconds. After one unanswered request, a fault condition will be detected. The loss of the connection will be reported with an alarm.

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5 Command Syntax

The client connection to an authentication is based on TCP/IP via Ethernet.

The protocol is UTF-8-based. Every command starts with its token which can be of different length (e.g. GETUSER), followed by additional parameters which are comma separated (see 0) and terminated by a carriage-return and a linefeed character (0x0d, 0x0a).

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6 Answer Syntax

The returned answer is on of:

- **OK**
- **RESULT <COMMAND> [parameters…]**

  Where <COMMAND> is the same token as the sent command
- **ERROR <number>**

  (see 0)

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7 Parameter Syntax

The parameters are separated with commas as described below:

- No additional blanks, other than those belonging to the parameter before/after the comma can be inserted.
- A comma as a character of the parameter is encolsed in double quotes (, becomes ",")
- A double quote is escaped by a backslash (" becomes \")
- A backslash is escaped by another backslash (\ becomes \\)

Examples:

Parameter 1	Parameter 2	Result
Hello	World	Hello,World
Well, what's up?		Well",” what's up?
Well, what's up	Dude?	Well",” what's up,dude?
Here comes	A backslash\	Here comes,a backslash\\
“quoted”		\”Quoted\”

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8 Error Numbers

The enumeration below is used to send an ERROR as answer:

No.	Description
1	Permission denied
2	Command not supported
3	Communication failed
4	Invalid session ID
5	Database access failed (in case of an error with a database backend)
6	The user state should be changed from expired to active, but no valid expiry date is set (see ALTERUSER)
7	The operation tried to delete a user that is currently logged on (see DELETEUSER)
8	Unknown command
9	Unknown response
10	Unknown client (see REGISTER)
11	Client has already registered (see REGISTER)
12	The server cannot perform audit-trail entries and is instructed to deny requests
13	Wrong number of parameters
14	A parameter could not be converted (i.e. number expected, but alpha characters received)
15	An operation tries to edit a deleted account
16	An operation tries to add a group that already exists
17	An operation tries to edit a group that does not exist
18	An operation tries to edit an account that already exists
19	An operation tries to edit an account that does not exist

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20	File access failed (in case of an error with a file-based backend)
21	*Dongle not found*
22	An attempt was made to change the password of the special account “service”. This action is not possible.
23	User ID has once been used and was deleted. It cannot be reused due to CFR21 part 11 restrictions.
24	Unknown error
25	Not initialised
26	Not connected
27	The client has not registered
28	Command not supported in remote mode

Errors 4, 21, 26 and 27 occur on the client side, not the server side.

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9 Command Reference

Mandatory parameters are enclosed in angular bracket< >.

Optional parameters are enclosed in square brackets [ ].

The parameter names are prefixed to reflect their data type:

n: Number

str: String

b: Boolean as 0=false, 1=true

ADDGROUP

Command	
ADDGROUP <strExecutingUserID>, <strGroupID>, <strGrants>	
Description	
Adds a group with a set of granted permissions to the list of groups	
Parameter Description	
strExecutingUserID	ID of the user who executes this command
strGroupID	Name of the new group
strGrants	String representing the bitset of granted permissions
Result Description	
Success	OK
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported

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Examples
`ADDGROUP Administrator,dogs,0` In the example above, the user “Administrator” adds the group "dogs" to the list of groups. Dogs does not have any permission granted though (0).
See also
DELETEGROUP, GETGROUPS, ALTERGROUP

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ADDUSER

Command	
ADDUSER <strExecutingUserID>, <strUserID>, <strPassword>, <strUserGrant>, <strForename>, <strSurname>, <strDepartment>, <nStatus>, <nExpireDate>, <void>, <nPWChangePeriod>, <void>, <nInactivityTimeout>, <bExpireDate>, <bInactivityTimeout>	
Description	
Creates a new user account.	
Parameter Description	
strExecutingUserID	ID of the user who executes this command
strUserID	User-ID (i.e. login-name)
strPassword	Password as cleartext
strUserGrants	Encoded string representing the granted permissions
strForename	Forename of the user
strSurname	Surname of the user
strDepartment	Department of the user
nStatus	Status of this account. Can be Active Expired (see nExpireDate, bExpireDate) Dormant (i.e. temporarily disabled) Deleted (the account has been deleted, but is still present as reference due to *CFR21, part 11* compliance) Locked due to too many unsuccessful login attempts
nExpireDate	The date when the account will be expired in format YYYYMMDD
void	Not used
nPWChangePeriod	Timespan in days after which the password must be changed periodically. 0: No change forced >0: Number of days
void	Not used
nInactivityTimeout	Time in minutes until a user will be logged out automatically if no mouse/keyboard activity is notified.

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bExpireDate	(0/1) Enable/Disable account expiration
bInactivityTimeout	(0/1) Enables/disables automatic logout after a given time
Result Description	
Success	OK
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported
Examples – D-/F-Series with Dynamark 3	

```
ADDUSER Administrator,geek42,N0t_4U,f56a38de,Johann,von Neumann,
Mathematics,0,19570280,0,180,0,5,1,1
```

In the example above, the user “Administrator” adds the user "Johann von Neumann" from the Mathematics department. Johann’s login-name is geek42, his password is N0t_4U. The account is valid until February 2, 1957. Johann must change his password every 180 days.

Note: Dynamark 3 requires the strUserGrants to be a hexadecimal encoded string representing the granted permissions (see Bit2HexGrantConverter).

Examples – D-/F-Series with Dynamark 4

```
ADDUSER Administrator,geek42,N0t_4U,grantqs","1101111111111111111111111111
1111101111111110111111011001111011111111111111101111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111111
11111111111111111111111111,Johann,von Neumann,
Mathematics,0,19570280,0,180,0,5,1,1
```

In the example above, the user “Administrator” adds the user "Johann von Neumann" from the Mathematics department. Johann’s login-name is geek42, his password is N0t_4U. The account is valid until February 2, 1957. Johann must change his password every 180 days.

Note: Dynamark 4 requires the strUserGrants to be a binary encoded string representing the granted permissions. It needs to contain the prefix: grantqs","

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See also
GETUSER, GETUSERBYINDEX, DELETEUSER, ALTERUSER

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ALTERGROUP

Command	
ALTERGROUP <strExecutingUserID>, <strGroup>, <strGrants>	
Description	
Alters the permissions that have been granted for a group	
Parameter Description	
strExecutingUserID	ID of the user who executes this command
strGroupID	Name of the group to be altered
strGrants	Encoded string representing the granted permissions
Result Description:	
Success:	OK
Fault:	ERROR <NO>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported
Examples – D-/F-Series with Dynamark 3	

```
ALTERGROUP Administrator,cats,ffffeff
```

In the example above, the user Administrator alters the group cats and assigns the permissions ffffeff.

Note: Dynamark 3 requires the strUserGrants to be a hexadecimal encoded string representing the granted permissions (see Bit2HexGrantConverter).

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Examples – D-/F-Series with Dynamark 4
`ALTERGROUP Administrator,cats,grantqs","1101111111111111111111111111111110111111111 011111101100111011111111111111111011111111111111111111111111111111111111 111111111111111111111111111111111111111111111111111111111111111111111111 11111111111111` In the example above, the user Administrator alters the group cats and assigns the permissions: 1101111111111111111111111111111110111111111011111101100111011111111111111111011111111 111111111111111111111111111111111111111111111111111111111111111111111111111111111111 11111111111111111111111111111111. Note: Dynamark 4 requires the strUserGrants to be a binary encoded string representing the granted permissions. It needs to contain the prefix: grantqs","
See also
ADDGROUP, GETGROUPS

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ALTERUSER

Command	
ALTERUSER <strExecutingUserID>, <strUserID>, <void>, <strUserGrant>, <strForename>, <strSurname>, <strDepartment>, <nStatus>, <nExpireDate>, <void>, <nPWChangePeriod>, <void>, <nInactivityTimeout>, <bExpireDate>, <bInactivityTimeout>	
Description	
Alters the data of an existing user. The password cannot be altered using this command; due to the special treatment of password policy, use CHANGEPW instead.	
Parameter Description:	
strExecutingUserID	ID of the user who executes this command
strUserID	User ID (i.e. login-ID). The user must exist, hence the login-ID cannot be altered.
void	Not used
strUserGrants	Encoded string representing the granted permissions
strForename	Forename of the user
strSurname	Surname of the user
strDepartment	Department of the user
nStatus	Status of this account. Can be: Active Expired (see nExpireDate, bExpireDate) Dormant (i.e. temporarily disabled) Deleted (the account has been deleted, but is still present as reference due to *CFR21, part 11* compliance) Locked due to too many unsuccessful login attempts
nExpireDate	The date when the account will be expired in format YYYYMMDD
void	Not used
nPWChangePeriod	Timespan in days after which the password has to be changed periodically. 0: No change forced >0: Number of days
void	Not used

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nInactivityTimeout	Time in minutes until a user should be logged out automatically if no mouse/keyboard activity is notified.
bExpireDate	(0/1) Enable/Disable account expiration
bInactivityTimeout	(0/1) Enables/disables automatic logout after a given time.
Result Description:	
Success:	OK
Fault:	ERROR <NO>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported
Examples – D-/F-Series with Dynamark 3	

```
ALTERUSER Administrator,geek42,0,f56a38de,John,von
Neumann,Mathematics,0,19570208,0,180,0,5,1,1
```

In the example above, the user Administrator alters the forename of user geek42 from "Johann" to "John".

Note: Dynamark 3 requires the strUserGrants to be a hexadecimal encoded string representing the granted permissions (see Bit2HexGrantConverter).

Examples – D-/F-Series with Dynamark 4

```
ALTERUSER
Administrator,geek42,0,grantqs","1101111111111111111111111111111110111111
1110111111011001111011111111111111110111111111111111111111111111111111
1111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111,John,von Neumann,Mathematics,0,19570208,0,180,0,5,1,1
```

In the example above, the user Administrator alters the forename of user geek42 from "Johann" to "John".

Note: Dynamark 4 requires the strUserGrants to be a binary encoded string representing the granted permissions. It needs to contain the prefix: grantqs","

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See also
DELETEUSER, ADDUSER, GETUSER, GETUSERBYINDEX

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AUTHUSER

Command	
AUTHUSER <strUserID>, <strPassword>	
Description	
Authenticates a user by their login-ID and password.	
Parameter Description	
strUserID	User ID (i.e. login-name)
strPassword	There are two options for this command depending on the configuration of Dynamark: Default as hexadecimal encoded MD5 hash (see RFC 1321) Configurable not encoded and transfer as plaintext
Result Description	
Success:	RESULT AUTHUSER <nStatus>,[Message] OK Unknown User-ID Wrong password Optional: If [Message] is set and the login process fails, then the reason is given in the message. In this case nStatus is set to 256.
Fault:	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported

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Examples

`AUTHUSER geek42,f362256d0413d368d36c19af64e91609`
`RESULT AUTHUSER 0`
In the example above, the user geek42, whose password's MD5 hash is f362256d0413d368d36c19af64e91609, is to be authenticated. The login-ID/password is valid.
`AUTHUSER nOVICE,72713bf88d84eb28ad93e94ae8be1f84`
`ERROR 1`
In the example above, the user nOVICE, whose password's MD5 hash is 72713bf88d84eb28ad93e94ae8be1f84, is to be authenticated. The login-ID is wrong; perhaps user Novice accidentally used Caps-Lock?

See also
GETUSER, LOGIN

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AUTOLOGIN

Command	
AUTOLOGIN <strUserID>	
Description	
Informs the server that a user should be logged in automatically (needed to have a complete audit-trail)	
Parameter Description	
strUserID	User-ID (i.e. login-name)
Result Description:	
Success	RESULT AUTOLOGIN <nStatus> nStatus: OR combined bitset as a decimal number: 0x00=0: OK 0x01=1: Unknown User 0x02=2: Wrong password 0x04=4: - 0x08=8: Account expired 0x10=16: Account locked 0x20=32: Password expired 0x40=64: Remind when account will expire 0x80=128: Remind when password will expire
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported

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Examples

`AUTOLOGIN Anneliese`
`RESULT AUTOLOGIN 40`
In the example above, the user Anneliese should be automatically logged in. However, both the account and the password are expired, so the client should not login this user.

See also
AUTOLOGOUT

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AUTOLOGOUT

Command	
AUTOLOGOUT <strUserID>	
Description	
Informs the server that a user should be logged out automatically (this is needed to have a complete audit-trail). Returns the granted permissions for the logout state.	
Parameter Description	
strUserID	User-ID (i.e. login-name)
Result Description	
Success	RESULT AUTOLOGOUT <strGrantID>
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported
Examples	

```
AUTOLOGOUT Anneliese
RESULT AUTOLOGOUT 0a
```

In the example above, the user Anneliese will be automatically logged out by the client. The client may grant permissions 0a in the logout state afterwards.

See also
AUTOLOGIN

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CHANGEPW

Command	
CHANGEPW <strExecutingUserID>, <strUserID>, <strPassword>	
Description	
Changes the password of a user.	
Parameter Description	
strExecutingUserID	User-ID (i.e. login-name) of the user who executes this command.
strUserID	ID (i.e. login-name) of the user whose password should be changed. Can be the same as the executing user.
strPassword	Cleartext password
Result Description	
Success	RESULT CHANGEPW <nStatus>,<nTaintedPasswordPolicy> nStatus: 1: OK 2: Unknown User-ID 4: Password policy has been tainted, password has not been changed! nTaintedPasswordPolicy: OR combined bitset as a decimal number: 0x00=0: OK 0x01=1: Too short 0x02=2: Not enough upper-case characters 0x04=4: Not enough lower-case characters 0x08=8: Not enough numeric characters 0x10=16: Too many multiple characters 0x20=32: Too many consecutive characters that also appear in the User-ID 0x40=64: Not enough "special" characters 0x80=128: Password appears in the list of the formerly used N passwords and may not (yet) be reused.
Fault	ERROR <no>

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Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported

Examples

```
CHANGEPW: Administrator,geek42,Hällo_WÖRLD
RESULT CHANGEPW 0 0
```

In the example above, the user Administrator has changed the password for the user geek42 to Hällo_WÖRLD

```
CHANGEPW geek42,geek42,pwgeek
RESULT CHANGEPW 4 34
```

In the example above, the user geek42 failed to change their password. The password contains too many consecutive characters of the User-ID and too few upper-case characters.

See also

CHECKPW, SETPWPOLICY, GETPWPOLICY

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CHECKPW

Command	
CHECKPW <strUserID>, <strPassword>	
Description	
Checks if a password matches or fails the password policy	
Parameter Description	
strUserID	ID (i.e. login-name) of the user whose password should be checked.
strPassword	Clear text password
Result Description	
Success	RESULT CHECKPW <nTaintedPasswordPolicy> nTaintedPasswordPolicy: OR combined bitset as a decimal number: 0x00=0: OK 0x01=1: Too short 0x02=2: Not enough upper-case characters 0x04=4: Not enough lower-case characters 0x08=8: Not enough numeric characters 0x10=16: Too many multiple characters 0x20=32: Too many consecutive characters that also appear in the User-ID 0x40=64: Not enough "special" characters 0x80=128: Password appears in the list of the formerly used N passwords and may not (yet) be reused.
Fault	ERROR <no>
Supported technology	
LoginD-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported

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Examples

`CHECKPW geek42 UPPERlower123Spec!@|`
`RESULT CHECKPW 0`
In the example above, the password for the user geek42 matches the password policy.

See also
CHANGEPW, SETPWPOLICY, GETPWPOLICY

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DELETEGROUP

Command	
DELETEGROUP <strExecutingUserID>, <strGroupID>	
Description	
Deletes a group.	
Parameter Description	
strExecutingUserID	ID of the user who executes this command.
strGroupID	ID of the group to be deleted.
Result Description	
Success	OK
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported
Examples	
`DELETEGROUP cats` In the example above, the group “cats” is deleted.	
See also	
ADDGROUP, ALTERGROUP, GETGROUPS	

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DELETEUSER

Command	
DELETEUSER <strExecutingUserID>, <strUserID>	
Description	
Deletes the user	
Parameter Description	
strExecutingUserID	ID of the user who executes this command
strUserID	User-ID (ie.e login-name) of the user to be deleted
Result Description	
Success	OK
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported
Examples	
`DELETEUSER geek42` In the example above, the user “geek42” is deleted.	
See also	
ADDUSER, ALTERUSER, GETUSERS	

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GETDEPARTMENTS

Command	
GETDEPARTMENTS	
Description	
Returns all departments that have been assigned to users.	
Result Description	
Success	RESULT GETDEPARTMENTS [dep1],[dep2],[...]
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported
Examples	

```
GETDEPARTMENTS
RESULT GETDEPARTMENTS Mathematics,Astrophysics,Computer Science
```

In the example above, the Mathematics, Astrophysics and Computer Science departments are returned.

See also
ADDUSER, ALTERUSER

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GETGROUPS

Command	
GETGROUPS	
Description	
Returns all groups.	
Result Description	
Success	RESULT GETGROUPS [group_id-1],[grant_id-1],[group_id-2],[group_id-2] ...
Fault:	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported
Examples – D-/F-Series with Dynamark 3	

```
GETGROUPS
RESULT GETGROUPS cats,f6ae82d,dogs,0d0a
```

In the example above, the group cats with grant ID "f6ae82d" and the group dogs with the grant ID "0d0a" is returned.

Note: Dynamark 3 requires the strUserGrants to be a hexadecimal encoded string representing the granted permissions (see Bit2HexGrantConverter).

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Examples – D-/F-Series with Dynamark 4

`GETGROUPS`
 	
`RESULT GETGROUPS cats,`
`grantqs","11011111111111111111111111111111110111111111011111101100111101`
`111111111111111011111111111111111111111111111111111111111111111111111111`
`111111111111111111111111111111111111111111111111111111111111111111111111`
`,dogs, grantqs","0110000000000000001011100000000000000111100000000000000000`
`000000000000000000000000000000000000000000000000000000000000000000000000`
`000000000000000000000000000000000000000000000000000000000000000000000000`
`0000`

In the example above, the group cats with grant ID

`“1101111111111111111111111111111111011111111101111110110011110111111111111`
`11110111111111111111111111111111111111111111111111111111111111111111111111`
`11111111111111111111111111111111111111111111111111111111111”`

and the group dogs with the grant ID

`“01100000000000000010111000000000000001111000000000000000000000000000000000`
`00000000000000000000000000000000000000000000000000000000000000000000000000`
`00000000000000000000000000000000000000000000000000000000”`

is returned.
Note: Dynamark 4 requires the strUserGrants to be a binary encoded string representing the granted permissions. It needs to contain the prefix: grantqs","
See also
ADDGROUP, DELETEGROUP, ALTERGROUP

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GETMUSTCHANGEPW

Command	
GETMUSTCHANGEPW <strUserID>	
Description	
Returns if the user must change their password. For example, the first time the user logs in after the account has been created. In that case, the client should initiate a password change before a login can succeed.	
Parameter Description	
strUserID	User-ID (i.e. login-name) of the user whose flag is to be acquired.
Result Description	
Success	RESULT GETMUSTCHANGEPW bFlag bFlag: 0: No password change forced 1: Password change forced
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported
Examples	

`GETMUSTCHANGEPW geek42`
`RESULT GETMUSTCHANGEPW 1`
In the example above, the user geek42 must change their password.	

See also	
SETMUSTCHANGEPW	

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GETPWPOLICY

Command	
GETPWPOLICY	
Description	
Return the password policy that is applied to new created passwords.	
Result Description	
Success	RESULT GETPWPOLICY <nMinLength., <nMinUpperChar>, <nMinLowerChar>, <nMinNumericChar>, <nMaxMultipleChar>, <nMaxPartOfUserID>, <nMinReusePassword>, <nMinSpecChar>, <nMaxLoginAttempts>, <strSpecChar> <nMinLength. Minimum length of password <nMinUpperChar> Minimum number of upper-case characters <nMinLowerChar> Minimum number of lower-case characters <nMinNumericChar> Minimum number of numeric characters <nMaxMultipleChar> Maximum number of multiple character occurences <nMaxPartOfUserID> Maximum number of consecutive characters of the user ID <nMinReusePassword> Minimum number of password changes before a password can be used again <nMinSpecChar> Minimum number of special characters. See “strSpecChar” below. <nMaxLoginAttempts> Maximum number of unsuccessful login attempts before the account will be locked <strSpecChar> Characters of which a certain number must be used in the password. See “nMinSpecChar” above.
Fault	ERROR <no>

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Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported

Examples

```
GETPWPOLICY
RESULT GETPWPOLICY 8,3,3,1,4,5,3,1,3,@*!#
```

In the example above the password policy is:

- Minimum password length = 8 characters
- Minimum number of upper-case characters = 3
- Minimum number of lower-case characters = 3
- Minimum number of numeric characters = 1
- Maximum number of multiple character occurrences = 4
- Maximum number of consecutive characters of the user ID = 5
- Minimum number of password changes before a password can be used again = 3
- Minimum number of special characters = 1
- Maximum number of unsuccessful login attempts before the account will be locked = 3
- Special characters of which a certain number must be used in the password = @ * ! #

See also

SETPWPOLICY

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GETSECURITYMODE

Command	
GETSECURITYMODE	
Description	
Returns if the security mode is a simple scheme with a password mapped to a user level, or a CFR21, part 11 compliant mode with discrete users. Note: Marking system wise there is no difference between Mode 2 and Mode 3. The differentiation is designed for the server application only.	
Result Description	
Success	RESULT GETSECURITYMODE <nMode> nMode=1 There is no user/password scheme, but only a password mapped to a user-level. nMode=2 Discrete users with user-id/password are defined. The Authentication Server holds a local user definition database. nMode=3 Discrete users with user-id/password are defined. The Authentication Server connects to a remoted user definition database.
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Supported since Dynamark G-Series Software v4.06.1
Gx-Series	Supported since GxOEM 1.4.1.0, GxIC7 3.4.1.0 and GxIC10 v5.4.1.0
Dx-Series	Supported since 3.0.0.0

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Examples
GETSECURITYMODE RESULT GETSECURITYMODE 1 In the example above, there is no user/password scheme, only a password mapped to a user-level.

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GETSETTINGS

Command	
GETSETTINGS	
Description	
Returns the number of days to remind before account expiration/forced password change.	
Result Description	
Success	RESULT GETSETTINGS <nExpiryPeriodRemind>, <nPWChangePeriodRemind>
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported
Examples:	

```
GETSETTINGS
RESULT GETSETTINGS 30,30
```

In the example above, the user will be reminded 30 days before the account expires and 30 days before a password change will be forced.

See also:
SETSETTINGS

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GETUSER

Command	
GETUSER <strUserID>,[strPassword]	
Description	
Returns information about a user.	
Parameter Description	
strUserID	User-ID (i.e. login-name) of the user whose data is to be acquired.
strPassword	This parameter is optional. It is only sent in securitymode 0, where no distinct users exist. The first parameter is omitted, as all users (i.e. user levels) share a password.
Result Description	
Success	RESULT GETUSER <nStatus>, <nIndex>, <strUserID>, <strGrant>, <strUserGrant>, <strGroupsGrant>, <strForename>, <strSurname>, <strDepartment>, <nStatus>, <nExpireDate>, <nExpireCountdown>, <nPWChangePeriod>, <nPWChangeDate>, <nPWChangeCountdown>, <nInactivityTimeout>, <bExpireNotify>, <bPWChangeNotify>, <nLoginAttempts>, <bExpireDate>, <bInactivityTimeout>, <strGroupID> nReturnStatus 0: OK 1: Unknown User-ID nIndex Internal representation of the user as a numerical index strUserID User-ID (same as input parameter, or User-Level name in security mode 0) strGrant Granted permissions as a combination of the individually and per-group granted permissions strUserGrant Individual granted permissions

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	strGroupsGrant Permissions granted by the groups the user belongs to strForename Forename strSurname Surname strDepartment Department nStatus 0: Active 1: Expired 2: Dormant (i.e. temporarily disabled) 3: Deleted 4: Locked nExpireDate The date when the account will be expired in format YYYYMMDD nExpireCountdown Days until the account expires nPWChangePeriod Timespan in days after which the password has to be changed periodically. 0: No change forced >0: Number of days nPWChangeDate The date when the password has to be changed in format YYYYMMDD nPWChangeCountdown Days until the password has to be changed nInactivityTimeout

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	Time in minutes until a user should be logged out automatically if no mouse/keyboard activity is notified. bExpireNotify Flag (0/1) if the user should be informed when the account will expire bPWChangeNotify Flag (0/1) if the user should be informed when the password needs to be changed nLoginAttempts Number of unsuccessful login attempts bExpireDate (0/1) account expiration disabled/enabled bInactivityTimeout (0/1) inactivity timeout disabled/enabled strGroupID textual representation of the user's group/grant level
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Supported since Dynamark G-Series Software v4.06.1 Revised in v4.10.3 to support "bInactivityTimeout" and "nInactivityTimeout".
Gx-Series	Supported since GxOEM 1.4.1.0, GxIC7 3.4.1.0 and GxIC10 v5.4.1.0
Dx-Series	Supported since 3.0.0.0

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Examples – D-/F-Series with Dynamark 3

```
GETUSER Geek42

RESULT GETUSER 0, 11, geek42, f7fde7efaa2f, f7fde7efaa21, f7fde7efaa2f,
John, von Neumann, Mathematics, 0, 20501123, 3245, 180, 20250125, 92, 5,
0, 0, 0, 1, 1
```

In the example above:

- Return Status = OK
- Numerical Index = 11
- User-ID = geek42
- Granted Permissions = f7fde7efaa2f
- User Granted Permissions = f7fde7efaa21
- Group Granted Permissions = f7fde7efaa2f
- User's Forename = John
- User's Surname = von Neumann
- Department = Mathematics
- Account Status = Active
- Account Expiry Date = 23rd November 2050
- Days until the account expires = 3245
- Days between periodical password changes = 180
- Date when the password must be changed = 25th January 2025
- Days left until the password must be changed = 92 days
- Activity timeout = 5 minutes
- Expiry notification = The user will not be notified
- Password change notification = The user will not be notified
- Number of allowed unsuccessful login attempts = 0
- Account expiration = enabled
- Inactivity timeout = enabled

Note: Dynamark 3 requires the strUserGrants to be a hexadecimal encoded string representing the granted permissions (see Bit2HexGrantConverter).

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Examples – D-/F-Series with Dynamark 4

```
GETUSER Geek42

RESULT GETUSER 0, 11, geek42,
grantqs","11011111111111111111111111111111101111111110111111011001111011111
11111111111111011111111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111
, grantqs","00011111111111111111111111111111101111111110111111011001111011111
01111111111111111011111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111
11, grantqs","11011111111111111111111111111111101111111110111111011001111011111
11011111111111111110111111111111111111111111111111111111111111111111111111
11111111111111111111111111111111111111111111111111111111111111111111111111
1111, John, von Neumann, Mathematics, 0, 20501123, 3245, 180, 20250125,
92, 5, 0, 0, 0, 1, 1
```

In the example above:

- Return Status = OK
- Numerical Index = 11
- User-ID = geek42
- Granted Permissions = 11011111111111111111111111111111101111111110111111011001111011111 11111111111011111111111111111111111111111111111111111111111111111111111111111 1111111111

  11111111111111111111111111111111111111111111111111
- User Granted Permissions = 00011111111111111111111111111111101111111110111111011001111011

  11111111111111011111111111111111111111111111111111111111111111111111111111111 11111111111

  11111111111111111111111111111111111111111111111111
- Group Granted Permissions = 11011111111111111111111111111111101111111110111111011001111011111111111111 11011111111111111111111111111111111111111111111111111111111111111111111111111 11111111111111111111111111111111111111111111111111
- User's Forename = John
- User's Surname = von Neumann
- Department = Mathematics
- Account Status = Active

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- Account Expiry Date = 23rd November 2050
- Days until the account expires = 3245
- Days between periodical password changes = 180
- Date when the password must be changed = 25th January 2025
- Days left until the password must be changed = 92 days
- Activity timeout = 5 minutes
- Expiry notification = The user will not be notified
- Password change notification = The user will not be notified
- Number of allowed unsuccessful login attempts = 0
- Account expiration = enabled
- Inactivity timeout = enabled

Note: Dynamark 4 requires the strUserGrants to be a binary encoded string representing the granted permissions. It needs to contain the prefix: grantqs","

Examples – G-Series

```
GETUSER hugo <CR><LF>
RESULT GETUSER 0,1234, hugo,0, 00000008, 0,,,, 0,0, -1,0,20131206,
-1,0,0,0,0,0,0, Manufacturer
```

Examples – Dx-Series

```
GETUSER hugo
RESULT GETUSER 0,1234,hugo,0,00000008, 0,,,,0,0,-1,0,20250319,
-1,0,0,0,0,0,0, Administrator
```

See also

GETUSERBYINDEX, ADDUSER, ALTERUSER

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GETUSERBYINDEX

Command	
GETUSERBYINDEX nIndex	
Description	
Convenience command. Does the same as GETUSER but uses the previously acquired index of the user.	
Parameter Description	
nIndex	Index, previously acquired by a GETUSER
Result Description	
Success	RESULT GETUSERBYINDEX <nStatus>, <nIndex>, <strUserID>, <strGrant>, <strUserGrant>, <strGroupsGrant>, <strForename>, <strSurname>, <strDepartment>, <nStatus>, <nExpireDate>, <nExpireCountdown>, <nPWChangePeriod>, <nPWChangeDate>, <nPWChangeCountdown>, <nInactivityTimeout>, <bExpireNotify>, <bPWChangeNotify>, <nLoginAttempts>, <bExpireDate>, <bInactivityTimeout> nReturnStatus 0: OK 1: Unknown User-ID nIndex Internal representation of the user as a numerical index strUserID User-ID (same as input parameter, or User-Level name in security mode 0) strGrant Granted permissions as a combination of the individually and per-group granted permissions strUserGrant Individual granted permissions strGroupsGrant Permissions granted by the groups the user belongs to

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	strForename Forename strSurname Surname strDepartment Department nStatus 0: Active 1: Expired 2: Dormant (i.e. temporarily disabled) 3: Deleted 4: Locked nExpireDate The date when the account will be expired in format YYYYMMDD nExpireCountdown Days until the account expires nPWChangePeriod Timespan in days after which the password has to be changed periodically. 0: No change forced >0: Number of days nPWChangeDate The date when the password has to be changed in format YYYYMMDD nPWChangeCountdown Days until the password has to be changed nInactivityTimeout Time in minutes until a user should be logged out automatically if no mouse/keyboard activity is notified.

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	bExpireNotify Flag (0/1) if the user should be informed when the account will expire bPWChangeNotify Flag (0/1) if the user should be informed when the password needs to be changed nLoginAttempts Number of unsuccessful login attempts bExpireDate (0/1) account expiration disabled/enabled bInactivityTimeout (0/1) inactivity timeout disabled/enabled
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported

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Example – D-/F-Series with Dynamark 3

```
GETUSERBYINDEX 11

RESULT GETUSERBYINDEX 0, 11, geek42, f7fde7efaa2f, f7fde7efaa21,
f7fde7efaa2f, John, von Neumann, Mathematics, 0, 205001123, 3245, 180,
20250125, 92, 5, 0, 0, 0, 1, 1
```

In the example above:

- Return Status = OK
- Numerical Index = 11
- User-ID = geek42
- Granted Permissions = f7fde7efaa2f
- User Granted Permissions = f7fde7efaa21
- Group Granted Permissions = f7fde7efaa2f
- User's Forename = John
- User's Surname = von Neumann
- Department = Mathematics
- Account Status = Active
- Account Expiry Date = 23rd November 2050
- Days until the account expires = 3245
- Days between periodical password changes: 180
- Date when the password must be changed: 25th January 2025
- Days left until the password must be changed: 92 days
- Activity timeout: 5 minutes
- Expiry notification: The user will not be notified
- Password change notification: The user will not be notified
- Number of allowed unsuccessful login attempts: 0
- Account expiration: enabled
- Inactivity timeout: enabled

Note: Dynamark 3 requires the strUserGrants to be a hexadecimal encoded string representing the granted permissions (see Bit2HexGrantConverter).

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Example – D-/F-Series with Dynamark 4
GETUSERBYINDEX 11 RESULT GETUSERBYINDEX 0, 11, geek42, grantqs","11011111111111111111111111111111110111111111011111011001111 011111111111111110111111111111111111111111111111111111111111111111111111111 11111111111111111111111111111111111111111111111111111111111111111111111, gra ntqs","0001111111111111111111111111111111011111111101111101100111011111111111 111111011111111111111111111111111111111111111111111111111111111111111111111 1111111111111111111111111111111111111111111111111111111111111, grantqs","11011 111111111111111111111111111110111111111011111011001110111111111111111111011 111111111111111111111111111111111111111111111111111111111111111111111111111 111111111111111111111111111111111111111111111111111, John, von Neumann, Mathematics, 0, 205001123, 3245, 180, 20250125, 92, 5, 0, 0, 0, 1, 1
In the example above: • Return Status = OK • Numerical Index = 11 • User-ID = geek42 • Granted Permissions = 1101111111111111111111111111111111011111111101111101100111011111 111111111110111111111111111111111111111111111111111111111111111111111111111 1111111111 1111111111111111111111111111111111111111111111111111111 • User Granted Permissions = 00011111111111111111111111111111110111111111011111011001110 1 111111111111111011111111111111111111111111111111111111111111111111111111111 11111111111 1111111111111111111111111111111111111111111111111111111111 • Group Granted Permissions = 110111111111111111111111111111111101111111110111110110011101111111111111111 110111111111111111111111111111111111111111111111111111111111111111111111111 11111111111111111111111111111111111111111111111111111111 • User’s Forename = John • User’s Surname = von Neumann • Department = Mathematics

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- Account Status = Active
- Account Expiry Date = 23rd November 2050
- Days until the account expires = 3245
- Days between periodical password changes = 180
- Date when the password must be changed = 25th January 2025
- Days left until the password must be changed = 92 days
- Activity timeout = 5 minutes
- Expiry notification = The user will not be notified
- Password change notification = The user will not be notified
- Number of allowed unsuccessful login attempts = 0
- Account expiration = enabled
- Inactivity timeout = enabled

Note: Dynamark 4 requires the strUserGrants to be a binary encoded string representing the granted permissions. It needs to contain the prefix: grantqs","

See also

GETUSER, ADDUSER, ALTERUSER

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LOGIN

Command	
LOGIN <strUserID>,strPassword	
Description	
Log-in with a user-ID and password.	
Parameter Description	
strUserID	User-ID (i.e. login-name) of the user whose data is to be acquired.
strPassword	Depending on the coder the following options for this parameter are available: No encoding and transfer as plaintext (Available on all printer, default on all except D-/F-Series) Hexadecimal encoded MD5 hash (see RFC 1321) (Only available on D-/F-Series and default option there)
Result Description	
Success	RESULT LOGIN <nStatus>,[Message] <nStatus> nStatus: OR combined bitset as a decimal number: • 0x00=0: OK • 0x01=1: Unknown User • 0x02=2: Wrong password • 0x04=4: - • 0x08=8: Account expired • 0x10=16: Account locked • 0x20=32: Password expired • 0x40=64: Remind when account will expire • 0x80=128: Remind when password will expire • 0x100=256: Remote Login Requested Optional: If [Message] is set and the login process fails, then the reason is displayed using the given message text.
Fault	ERROR <no>

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Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Supported since Dynamark G-Series Software v4.06.1
Gx-Series	Supported since GxOEM 1.4.1.0, GxIC7 3.4.1.0 and GxIC10 v5.4.1.0
Dx-Series	Supported since 3.0.0.0

Example - Plaintext

```
LOGIN Administrator admin
RESULT LOGIN 0
```

Example – MD5

```
LOGIN geek42 f362256d0413d368d36c19af64e91609
RESULT LOGIN 0
```

In the example above, the User-ID “geek42“ with the password “f362256d0413d368d36c19af64e91609“ is successfully logged in.

```
LOGIN geek42 f362256d0413d368d36c19af64e91609
RESULT LOGIN 256,Server does not know this user
```

In the example above, the User-ID “geek42“ with the password “f362256d0413d368d36c19af64e91609“ cannot be logged in. A text box displaying “Server does not know this user” is shown on the user interface.

See also

AUTOLOGIN

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LOGOUT

Command	
LOGOUT <strUserID>	
Description	
Logout the user	
Parameter Description	
strUserID	User-ID (i.e. login-name)
Result Description	
Success	RESULT LOGOUT <strGrantID>
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Supported since Dynamark G-Series Software v4.08.2
Gx-Series	Supported since GxOEM 1.4.1.0, GxIC7 3.4.1.0 and GxIC10 v5.4.1.0
Dx-Series	Supported since 3.0.0.0
Examples	

`LOGOUT Anneliese`
`RESULT LOGOUT 0a`
In the example above, the user Anneliese will be logged out by the client. The client may grant permissions 0a in the logout state afterwards.	

See also	
AUTOLOGOUT	

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QUIT

Command	
QUIT	
Description	
Asks the server process to terminate gracefully	
Result Description	
Success	OK
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported
Examples	
`QUIT` `OK`	

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REGISTER

Command	
REGISTER <nTpeID>, <strIdentifier>	
Description	
Registers a client. The nTypeID and strIdentifier should be used to generate client-specific audit-trail entries, where a coherent set of devices has the same nTypeID, and the strIdentifier is unique for each device of this type.	
Parameter Description	
nTypeID	Numerical identifier for a coherent group of devices
strIdentifier	Unique identifier for this client
Result Description	
Success	OK
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Supported since Dynamark G-Series Software v4.06.1
Gx-Series	Supported since GxOEM 1.4.1.0, GxIC7 3.4.1.0 and GxIC10 v5.4.1.0
Dx-Series	Supported since 3.0.0.0
Examples	

`REGISTER 0,Domino`
`OK`
In the example above, the client called “Domino” has registered successfully.	

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SETMUSTCHANGEPW

Command	
SETMUSTCHANGEPW <strExecutingUserID>, <strUserID>, <bChange>	
Description	
Sets/resets the flag that the user must change the password before a login may succeed.	
Parameter Description	
strExecutingUserID	ID of the user who executes this command
strUserID	User-ID (i.e. login-name)
bChange	0/1
Result Description	
Success	OK
Fault	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported
Examples	

```
SETMUSTCHANGEPW Administrator,geek42,1
OK
```

In the example above, the Administrator has executed the command. The user geek42 must change their password when they next attempt to login.

See also
GETMUSTCHANGEPW

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SETPWPOLICY

Command	
SETPWPOLICY <strExecutingUser>, <nMinLength>, <nMinUpperChar>, <nMinLowerChar>, <nMinNumericChar>, <nMaxMultipleChar>, <nMaxPartOfUserID>, <nMinReusePassword>, <nMinSpecChar>, <nMaxLoginAttempts>, <strSpecChar>	
Description	
Sets the password policy that will be applied when new passwords are set	
Parameter Description	
strExecutingUser	ID of the user who executes this command
nMinLength	Minimum length of password
nMinUpperChar	Minimum number of upper-case characters
nMinLowerChar	Minimum number of lower-case characters
nMinNumericLowerChar	Minimum number of numeric characters
nMaxMultipleChar	Maximum number of multiple character occurrences
nMaxPartOfUserID	Maximum number of consecutive characters of the user-ID
nMinReusePassword	Minimum number of password changes until a password may be reused again
nMinSpecChar	Minimum number of special characters (see strSpecChar below)
nMaxLoginAttempts	Maximum number of unsuccessful login attempts until the account is locked
strSpecChar	Characters of which a certain number must appear in the password (see nMinSpecChar above)
Result Description	
Success	OK
Fault	ERROR <no>

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Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported

Examples

```
SETPWPOLICY Administrator,8,3,3,1,4,5,3,1,3,@*!#
OK
```

In the example above, the user Administrator has set the password policy to:

- Minimum length of password = 8
- Minimum number of upper-case characters = 3
- Minimum number of lower-case characters = 3
- Minimum number of numeric characters = 1
- Maximum number of multiple character occurrences = 4
- Maximum number of consecutive characters of the user-ID = 5
- Minimum number of password changes until a password may be reused again = 3
- Minimum number of special characters = 1
- Maximum number of unsuccessful login attempts until the account is locked =3
- Characters of which a certain number must appear in the password = @*!#

See also

GETPWPOLICY, CHANGEPW, CHECKPW, GETMUSTCHANGEPW

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SETSETTINGS

Command	
SETSETTINGS <nExpiryPeriodRemind>, <nPWChangePeriodRemind>	
Description	
Sets the number of days to remind about account expiration/forced password change	
Parameter Description	
nExpiryPeriodRemind	Number of days to remind before account expiration
nPWChangePeriodRemind	Number of days to remind before a forced password change
Result Description:	
Success:	OK
Fault:	ERROR <no>
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported
Examples	

```
SETSETTINGS 30.15
OK
```

In the example above, the reminder for account expiry is set to 30 days and the reminder for forced password change is set to 15 days.

See also
GETSETTINGS

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SIGN

Command	
SIGN <strUserID>, <SignId>	
Description	
User wants to sign electronically. The action is given by the SignId.	
Parameter Description	
strUserID	User-ID (i.e. login-name) of the user
strSignId	Actions to sign: 0: Send To Printer 1: Save Message/Label 2: Delete Message/Label 3: Rename Message/Label 4: Create Message/Label Store 5: Delete Message/Label Store 6: System Setup 7: Initial Setup Wizard 8: Restore 9: Remove File 10: Load File 11: Setup User 12: Setup Groups 13: Password Policy 14: Dynamic Text Setup 15: Print Field Offset 16: Laser Parameters 17: Delete User Action Log
Result Description:	
Success:	OK
Fault:	ERROR <no>

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Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.4.0
D310/D310e	Not supported
G-Series	Not supported
Gx-Series	Not supported
Dx-Series	Not supported

Examples

```
SIGN geek42,0
OK
```

In the example above, the user geek42 has signed “Send To Printer”.

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10 APPENDIX A: SIGNALS

Signals will be sent by the client. The server doesn't respond on signals.

10.1 SIG_USERCHANGED

Notification	
SIG_USERCHANGED	
Description	
This is a notification message and not a command. It will be sent if login/logout is activated with "MSG 1" or "MSG 2" and the operation was successful.	
Parameter Description	
strUserID	User-ID (i.e. login-name)
strUserGrants	Encoded string representing the granted permissions
strForename	Forename of the user
strSurname	Surname of the user
strDepartment	Department of the user
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.5.0
D310/D310e	Not supported
G-Series	Supported since Dynamark G-Series Software v4.08.2
Gx-Series	Supported since GxOEM 1.4.1.0, GxIC7 3.4.1.0 and GxIC10 v5.4.1.0
Dx-Series	Suported since 3.0.0.0
Examples – D-/F-Series with Dynamark 3	
`SIG_USERCHANGED geek42,13ffe,John,von Neumann,Production` Note: Dynamark 3 requires the strUserGrants to be a hexadecimal encoded string representing the granted permissions (see Bit2HexGrantConverter).	

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Examples – D-/F-Series with Dynamark 3
SIG_USERCHANGED geek42,grantqs","1101111111111111111111111111111111011111 1111011111101100111101111111111111111011111111111111111111111111111111 1111111111111111111111111111111111111111111111111111111111111111111111 11111111111111111,John,von Neumann,Production Note: Dynamark 4 requires the strUserGrants to be a binary encoded string representing the granted permissions. It needs to contain the prefix: grantqs","
Examples – Dx-/G-Series
SIG_USERCHANGED Hugo,00000008,Fname,Sname,Department

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11 APPENDIX B: MESSAGES

Messages will be sent by the server.

11.1 MSG

Message	
MSG <MessageId>	
Description	
Message sent by the server.	
Parameter Description	
MessageId	See “Authentication message-ids”
Supported technology	
D-/F-Series	Supported since Dynamark 3 Authentication Client 1.5.0
D310/D310e	Not supported
G-Series	Supported since Dynamark G-Series Software v4.08.2
Gx-Series	Supported since GxOEM 1.4.1.0, GxIC7 3.4.1.0 and GxIC10 v5.4.1.0 Only MSG2 and MSG3 are supported. MSG1 is not currently supported.
Dx-Series	Supported since 3.0.0.0
Examples	
`MSG1`	

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11.2 Authentication Message-IDs

MesgID	Message	Description of Message
1	MSG 1	Logging server has disconnected from the authentication server.
2	MSG 2,<strUserID>,<strUserGrants>, <strForename>,<strSurname>, <strDepartment>	Login – Sets the strUserID of the user to be logged in. See SIG_USERCHANGED.
3	MSG 3,<strLogoutGrants>	Logout – Would cause a logout.

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12 Document Reference

Doc-0018559 User Guide: Dynamark Interface Communication Protocol

Doc-0018741 User Guide: Dynamark Interface Logging Protocol

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