

API for QNAP QTS Authentication

Version: 4.2

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1. Overview

This document provides API for authentication .





2. System API

2.1 Authentication

Description:

Get sid for authentication by password.

use Remember me, get qtoken for authentication.

Command:

http://IP:8080/cgi-bin/authLogin.cgi?user=\${username}&plain_pwd=\${pwd_in_plain_te} xt}&remme=\${remme}&service=\${service}&remote_ip=\${remote_ip}&device=\${device}&force_to_check_2sv}

Variable	Description
\${username}	Login user name
	Password
\${encode_string}	(Please refer to attached 「get_sid.js」 to get ezEncode
	function)
\${pwd_in_plain_text}	Password in plain text
	Optional:
\${remme}	1:return qtoken
	0:clean qtoken
	Optional:
\${force_to_check_2sv}	1: Force to check 2-step verification including query from
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	127.0.0.1
	Others: no force
	Username/ Password authentication by specifying service
\${service}	name. When the value>=100, sid will NOT be generated.



	101: Photo Station				
	102: Music Station 103: Video Station				
	100: Others				
		99: Force to check 2-step verification including query from			
	127.0.0.1				
A.C.,	Optional; Only for local	host(127.0.0.1), specify the remote			
\${remote_ip}	address				
	Optional;	. 15			
\${device}					
	Specify the client' device	Specify the client' device name			
	Optional;				
	Optional;				
	Specify the application				
	Specify the application	Application string			
	Specify the application Name Music station	Application string MUSIC_STATION Output MUSIC_STATION MUSIC_STATION			
	Specify the application Name Music station Photo station	Application string MUSIC_STATION PHOTO_STATION			
	Specify the application Name Music station Photo station Multimedia station	Application string MUSIC_STATION PHOTO_STATION MULTIMEDIA_STATION			
	Name Music station Photo station Multimedia station Download station	Application string MUSIC_STATION PHOTO_STATION MULTIMEDIA_STATION DOWNLOAD_STATION			
	Specify the application Name Music station Photo station Multimedia station Download station FTP	Application string MUSIC_STATION PHOTO_STATION MULTIMEDIA_STATION DOWNLOAD_STATION FTP			
\${check nrivilege}	Name Music station Photo station Multimedia station Download station FTP File Station	Application string MUSIC_STATION PHOTO_STATION MULTIMEDIA_STATION DOWNLOAD_STATION FTP WFM			
\${check_privilege}	Specify the application Name Music station Photo station Multimedia station Download station FTP File Station Backup Station	Application string MUSIC_STATION PHOTO_STATION MULTIMEDIA_STATION DOWNLOAD_STATION FTP WFM BACKUP			
\${check_privilege}	Specify the application Name Music station Photo station Multimedia station Download station FTP File Station Backup Station Surveillance Station	Application string MUSIC_STATION PHOTO_STATION MULTIMEDIA_STATION DOWNLOAD_STATION FTP WFM BACKUP SURVEILLANCE_STATION			
\${check_privilege}	Name Music station Photo station Multimedia station Download station FTP File Station Backup Station Surveillance Station WebDAV	Application string® MUSIC_STATION® PHOTO_STATION® MULTIMEDIA_STATION® DOWNLOAD_STATION® FTP® WFM® BACKUP® SURVEILLANCE_STATION® WEBDAV®			
\${check_privilege}	Specify the application Name Music station Photo station Multimedia station Download station FTP File Station Backup Station Surveillance Station WebDAV AFP	Application string MUSIC_STATION PHOTO_STATION MULTIMEDIA_STATION DOWNLOAD_STATION FTP WFM BACKUP SURVEILLANCE_STATION WEBDAV AFP			
\${check_privilege}	Specify the application Name Music station Photo station Multimedia station Download station FTP File Station Backup Station Surveillance Station WebDAV AFP Samba Samba	Application string MUSIC_STATION PHOTO_STATION MULTIMEDIA_STATION DOWNLOAD_STATION FTP WFM BACKUP SURVEILLANCE_STATION WEBDAV AFP SAMBA			
	Specify the application Name Music station Photo station Multimedia station Download station FTP File Station Backup Station Surveillance Station WebDAV AFP Samba Qsync	Application string MUSIC_STATION PHOTO_STATION MULTIMEDIA_STATION DOWNLOAD_STATION FTP WFM BACKUP SURVEILLANCE_STATION WEBDAV AFP SAMBA QBOX			
	Specify the application Name Music station Photo station Multimedia station Download station FTP File Station Backup Station Surveillance Station WebDAV AFP Samba Qsync Video station	Application string MUSIC_STATION PHOTO_STATION MULTIMEDIA_STATION DOWNLOAD_STATION FTP WFM BACKUP SURVEILLANCE_STATION WEBDAV AFP SAMBA QBOX VIDEO_STATION			
	Specify the application Name Music station Photo station Multimedia station Download station FTP File Station Backup Station Surveillance Station WebDAV AFP Samba Qsync Video station TV station	Application string MUSIC_STATION PHOTO_STATION MULTIMEDIA_STATION DOWNLOAD_STATION FTP WFM BACKUP SURVEILLANCE_STATION WEBDAV AFP SAMBA QBOX VIDEO_STATION TV_STATION			
\${check_privilege}	Name Music station Photo station Multimedia station Download station FTP File Station Backup Station Surveillance Station WebDAV AFP Samba Qsync Video station TV station Android station	Application string MUSIC_STATION PHOTO_STATION MULTIMEDIA_STATION DOWNLOAD_STATION FTP WFM BACKUP SURVEILLANCE_STATION WEBDAV AFP SAMBA QBOX VIDEO_STATION TV_STATION ANDROID_STATION			
	Specify the application Name Music station Photo station Multimedia station Download station FTP File Station Backup Station Surveillance Station WebDAV AFP Samba Qsync Video station TV station	Application string MUSIC_STATION PHOTO_STATION MULTIMEDIA_STATION DOWNLOAD_STATION FTP WFM BACKUP SURVEILLANCE_STATION WEBDAV AFP SAMBA QBOX VIDEO_STATION TV_STATION			
	Name Music station Photo station Multimedia station Download station FTP File Station Backup Station Surveillance Station WebDAV AFP Samba Qsync Video station TV station Android station	Application string MUSIC_STATION PHOTO_STATION MULTIMEDIA_STATION DOWNLOAD_STATION FTP WFM BACKUP SURVEILLANCE_STATION WEBDAV AFP SAMBA QBOX VIDEO_STATION TV_STATION ANDROID_STATION			

Note: encode_string = ezEncode(utf16to8('\${real_password}'))



Example:

http://IP:8080/cgi-bin/authLogin.cgi?user=admin&pwd=YWRtaW4%3D&remme=1

(if real_password is "admin", it will be encoded as "YWRtaW4%3D")

Authentication by service

http://127.0.0.1:8080/cgi-bin/authLogin.cgi?plain_pwd=admin&user=admin&remote_ip =172.17.20.49&device=richardnb

Return value:

Example of successful authentication:

Example of failed authentication:

```
<QDocRoot version="1.0">
<qtoken>1e29b890910e8135f1692ed4030256fe</qtoken>
<authPassed>0</authPassed>
<errorValue>-1</errorValue>
</QDocRoot>
```

Authorisation by service

http://\${ip}:8080/cgi-bin/authLogin.cgi?plain_pwd=admin&user=aix&remote_ip=172.1 7.20.49&service=104&device=aixchou&check_privilege=VIDEO_STATION

Return value:

Example of permission deny:



```
<authPassed><![CDATA[0]]></authPassed>
<errorValue><![CDATA[-1]]></errorValue>
<username><![CDATA[aix]]></username>
<ts><![CDATA[85022350]]></ts>
<fwNotice><![CDATA[0]]></fwNotice>
<title><![CDATA[]]></title>
<content><![CDATA[]]></content>
<psType><![CDATA[1]]></psType>
<showVersion><![CDATA[0]]></showVersion>
</QDocRoot>
```

2.2 Authentication with qtoken

Description:

Get sid for authentication by qtoken

Command:

http://IP:8080/cgi-bin/authLogin.cgi?user=\${username}&qtoken=\${qtoken}&remme=\$
{remme}

Variable	Description
\${username}	Login user name
\${qtoken}	qtoken
\${remme}	Optional: 1:when login by qtoken without return qtoken tag 0:clean qtoken

Example:

 $\label{lem:http://IP:8080/cgi-bin/authLogin.cgi?user=admin&qtoken=1e29b890910e8135f1692ed4\\ 030256fe&remme=1$

Return value:

Example of successful authentication:



Example of failed authentication:

<QDocRoot version="1.0"> <authPassed>0</authPassed> <errorValue>-1</errorValue> </QDocRoot>

2.3 Authentication with 2 step verification

Description:

If 2-step verification enabled, get sid for 1st authentication by password and 2nd authentication by security code(6 digits) / emergency security code(8 digits) / emergency answer.

In 4.2.0, only support QTS system / File Station login.

HTTP Request from 127.0.0.1 can get sid without 2-step verification

2.3.1. 1st verification

Description:

1st verification

Command:

 $\frac{\text{http://172.17.20.20:8080/cgi-bin/authLogin.cgi?pwd=}\{encode_string}\&r=0.80255720}{2605028\&remme=}\{remme\}\&serviceKey=1\&user=$\{username\}\}$

Variable	Description		
\${username}	Login user name		
	Password		
\${encode_string}	(Please refer to attached 「get_sid.js」 to get ezEncode function)		
	Optional:		
\${remme}	1:return qtoken		
	0:clean qtoken		

Note: encode_string = ezEncode(utf16to8('\${real_password}'))



Example:

 $\frac{\text{http://172.17.20.20:8080/cgi-bin/authLogin.cgi?pwd=YWRtaW4\%3D\&r=0.02297725847}}{566645\&remme=1\&serviceKey=1\&user=admin}$

(if real_password is "admin", it will be encoded as "YWRtaW4%3D")

Return value:

Example of successful for 1st authentication:

```
<QDocRoot version="1.0">
     <doQuick></doQuick>
     <is booting>0</is booting>
     <mediaReady>1</mediaReady>
     <SMBFW>0</SMBFW>
     <authPassed>0</authPassed>
     <need_2sv>1</need_2sv>
     <lost_phone>1</lost_phone>
     <emergency_try_count>0</emergency_try_count>
     <emergency_try_limit>5</emergency_try_limit>
     <username>admin</username>
     <groupname>administrators/groupname>
     <ts>88323841</ts>
     <fwNotice>0</fwNotice>
     <title></title>
     <content></content>
     <psType>0</psType>
     <showVersion>0</showVersion>
     <show_link>1</show_link>
</QDocRoot>
```

Example of failed for 1st authentication:

```
<QDocRoot version="1.0">
     <doQuick></doQuick>
     <is_booting>0</is_booting>
     <mediaReady>1</mediaReady>
     <SMBFW>0</SMBFW>
     <authPassed>0</authPassed>
     <errorValue>-1</errorValue>
     <username>admin</username>
     <ts>88323841</ts>
     <fwNotice>0</fwNotice>
     <title></title>
     <content></content>
     <psType>0</psType>
     <showVersion>0</showVersion>
     <show_link>1</show_link>
</QDocRoot>
```

Below are the tags inside process list.



Tag name	Туре	Description
		authentication result
authPassed	int	0:fail
		1:success
		whether user need 2-step verification
need_2sv	int	1:need 2-step verification
		if need_2sv not return, please refer
		general Authentication
		click "Verify another way" will lead to the following
		Optional:
lost_phone	int	1:send emergency e-mail that contains emergency
		security code(8 digits)
		2:emergency question handler
		if "lost_phone" is 1, it means the number of send
		emergency mail
emergency_try_count	int	
		if "lost_phone" is 2, it means the number of answer
		incorrectly
		if "lost_phone" is 1, it means the maximum number of
		send emergency mail
emergency_try_limit	int	if "lost_phone" is 2, it means the maximum number of
		answer incorrectly
		so far, we define "emergency_try_limit" is 5

2.3.2. 2nd verification

Description:

verify security code(6 digits) or emergency security code(8 digits)

Command:



http://172.17.20.20:8080/cgi-bin/authLogin.cgi?pwd=\${encode_string}&r=0.39380510
44582034&remme=\${remme}&security_code=\${security_code}&serviceKey=1&user=\$
{username}

Variable	Description		
\${username}	Login user name		
	Password		
\${encode_string}	(Please refer to attached 「get_sid.js」 to get ezEncode function)		
	Optional:		
\${remme}	1:return qtoken		
	0:clean qtoken		
\${security_code}	security code(6 digits)		
	while emergency handler is "Send emergency e-mail", it can be		
	emergency security code(8 digits)		

Note: encode_string = ezEncode(utf16to8('\${real_password}'))

Example:

 $\frac{\text{http://172.17.20.20:8080/cgi-bin/authLogin.cgi?pwd=YWRtaW4\%3D\&r=0.39380510445}}{82034\&security_code=215238\&serviceKey=1\&user=admin}$

(if real_password is "admin", it will be encoded as "YWRtaW4%3D")

Return value:

Example of successful for 2nd authentication:



- <isAdmin>1</isAdmin>
- <username>admin</username>
- <groupname>administrators
- <ts>88323841</ts>
- <fwNotice>0</fwNotice>
- <title></title>
- <content></content>
- <psType>0</psType>
- <showVersion>0</showVersion>
- <show_link>1</show_link>
- </QDocRoot>

Example of failed for 2nd authentication:

```
<QDocRoot version="1.0">
     <doQuick></doQuick>
     <is_booting>0</is_booting>
     <mediaReady>1</mediaReady>
     <SMBFW>0</SMBFW>
     <authPassed>0</authPassed>
     <need_2sv>1</need_2sv>
     <lost_phone>1</lost_phone>
     <emergency_try_count>0</emergency_try_count>
     <emergency_try_limit>5</emergency_try_limit>
     <date_time>
          <timezone>(GMT+08:00) Taipei</timezone>
          <timestamp>1432803710</timestamp>
          <date_format_index>1</date_format_index>
          <time_format>24</time_format>
     </date_time>
     <username>admin</username>
     <groupname>administrators</groupname>
     <ts>97469902</ts>
     <fwNotice>0</fwNotice>
     <SUID>6801bd1901459a79a9a39eb6c24da8fb</SUID>
     <title></title>
     <content></content>
     <psType>1</psType>
     <showVersion>0</showVersion>
     <show_link>1</show_link>
</QDocRoot>
```

most parameter can refer 1st verification

Below are the other tags inside process list.

Tag name	Туре	Description
timezone	string	Time Zone, ex."(GMT+08:00) Taipei"
timestamp	int	seconds since Jan 01 1970
date_format_index	int	date format index



		1 : year/month/day,
		2 : year.month.day,
		3 : year-month-day,
		4 : month/day/year,
		5 : month.day.year,
		6 : month-day-year,
		7 : day/month/year,
		8 : day.month.year,
		9 : day-month-year
time_format	int	time format : 24 / 12

2.3.3. Send Emergency E-mail

Description:

send emergency e-mail request (while 1st verification or 2nd verification return value "lost_phone" is 1)

Command:

 $\frac{\text{http://172.17.20.20:8080/cgi-bin/authLogin.cgi?pwd=}\{encode_string}\&r=0.39380510}{44582034\&remme=}\{remme\}\&send_mail=1\&serviceKey=1\&user=$\{username\}\}$

Variable	Description		
\${username}	Login user name		
	Password		
\${encode_string}	(Please refer to attached 「get_sid.js」 to get ezEncode function)		
	Optional:		
\${remme}	1:return qtoken		
	0:clean qtoken		



Note: encode_string = ezEncode(utf16to8('\${real_password}'))

Example:

 $\frac{\text{http://172.17.20.20:8080/cgi-bin/authLogin.cgi?pwd=YWRtaW4\%3D\&r=0.39380510445}}{82034\&send_mail=1\&serviceKey=1\&user=admin}$

(if real_password is "admin", it will be encoded as "YWRtaW4%3D")

Return value:

```
<QDocRoot version="1.0">
     <doQuick></doQuick>
     <is_booting>0</is_booting>
     <mediaReady>1</mediaReady>
     <SMBFW>0</SMBFW>
     <send_result>1</send_result>
     <emergency_try_count>3</emergency_try_count>
     <emergency_try_limit>5</emergency_try_limit>
     <username>admin</username>
     <groupname>administrators</groupname>
     <ts>88323841</ts>
     <fwNotice>0</fwNotice>
     <title></title>
     <content></content>
     <psType>0</psType>
     <showVersion>0</showVersion>
     <show_link>1</show_link>
</QDocRoot>
```

Below are the tags inside process list.

Tag name	Туре	Description
		send mail result
send_result	int	1:success
		0:fail
		-1:the email notification service is not enabled
emergency_try_count	int	it means the number of send emergency mail
		it means the maximum number of send emergency
emergency_try_limit	int	mail
		so far, we define "emergency_try_limit" is 5

2.3.4. Get Security Question

Description:



get security question (while 1st verification or 2nd verification return value "lost_phone" is 2)

Command:

http://172.17.20.20:8080/cgi-bin/authLogin.cgi?pwd=\${encode_string}&r=0.3938051044582034&remme=\${remme}&get_question=1&serviceKey=1&user=\${username}

Variable	Description		
\${username}	Login user name		
\${encode_string}	Password (Please refer to attached 「get_sid.js」 to get ezEncode function)		
Optional: \${remme} 1:return qtoken 0:clean qtoken			

Note: encode_string = ezEncode(utf16to8('\${real_password}'))

Example:

 $\frac{\text{http://172.17.20.20:8080/cgi-bin/authLogin.cgi?get_question=1\&pwd=YWRtaW4\%3D\&r}{=0.3938051044582034\&serviceKey=1\&user=admin}$

(if real_password is "admin", it will be encoded as "YWRtaW4%3D")

Return value:

```
<QDocRoot version="1.0">
     <doQuick></doQuick>
     <is_booting>0</is_booting>
     <mediaReady>1</mediaReady>
     <SMBFW>0</SMBFW>
     <security_question_no>4</security_question_no>
     <security_question_text>how are you?</security_question_text>
     <username>admin</username>
     <groupname>administrators</groupname>
     <ts>88323841</ts>
     <fwNotice>0</fwNotice>
     <title></title>
     <content></content>
     <psType>0</psType>
     <showVersion>0</showVersion>
     <show_link>1</show_link>
```



</QDocRoot>

Below are the tags inside process list.

Tag name	Туре	Description
security_question_no	int	question no
		1: frontend will show "What is your pet's name?"
		2: frontend will show "What is your favorite sport?"
		3: frontend will show "What is your favorite color?"
		4: Custom question
security_question_text	string	Custom question (only for "security_question_no" is
		4)

2.3.5. Get Security Question for Mobile App

Description:

get security question for Mobile App (while 1st verification or 2nd verification return value "lost_phone" is 2)

Command:

 $\frac{\text{http://172.17.20.20:8080/cgi-bin/authLogin.cgi?pwd=$\{encode_string\}\&r=0.39380510}}{44582034\&remme=$\{remme\}\&get_question=1\&serviceKey=1\&user=$\{username\}\&q_l_ang=$\{q_lang\}}$

Variable	Description		
\${username}	Login user name		
	Password		
\${encode_string}	(Please refer to attached 「get_sid.js」 to get ezEncode function)		
	Optional:		
\${remme}	1:return qtoken		
	0:clean qtoken		



	Languages for seucruty question
1	{CZE, DAN, DUT, ENG, ESM, FIN, FRE, GER, GRK, HUN, ITA,
	JPN, KOR, NOR, POL, POR, ROM, RUS, SCH, SPA, SWE, TCH,
	THA, TUR}

Note: encode_string = ezEncode(utf16to8('\${real_password}'))

Example:

 $\frac{\text{http://172.17.20.20:8080/cgi-bin/authLogin.cgi?get_question=1\&pwd=YWRtaW4\%3D\&r}{=0.3938051044582034\&serviceKey=1\&user=admin\&q_lang=ENG}$

(if real_password is "admin", it will be encoded as "YWRtaW4%3D")

Return value:

```
<QDocRoot version="1.0">
     <doQuick></doQuick>
     <is_booting>0</is_booting>
     <mediaReady>1</mediaReady>
     <SMBFW>0</SMBFW>
     <security_question_no>4</security_question_no>
     <system_question_text>how are you?</system_question_text>
     <security_question_text>how are you?</security_question_text>
     <username>admin</username>
     <groupname>administrators</groupname>
     <ts>88323841</ts>
     <fwNotice>0</fwNotice>
     <title></title>
     <content></content>
     <psType>0</psType>
     <showVersion>0</showVersion>
     <show_link>1</show_link>
</QDocRoot>
```

Below are the tags inside process list.

Tag name	Туре	Description
security_question_no	int	question no
		1: frontend will show "What is your pet's name?"
		2: frontend will show "What is your favorite sport?"
		3: frontend will show "What is your favorite color?"
		4: Custom question



system_question_text	string	security question text (for mobile app)
security_question_text	string	Custom question (only for "security_question_no" is 4)

2.3.6. Security Question Authentication

Description:

verify security answer (while 1st verification or 2nd verification return value "lost_phone" is 2)

Command:

 $\frac{\text{http://172.17.20.20:8080/cgi-bin/authLogin.cgi?pwd=}\{encode_string}\&r=0.39380510}{44582034\&remme=}\{remme\}\&security_answer=\\\{security_answer\}\&serviceKey=1\&user=\\\{username\}$

Variable	Description	
\${username}	Login user name	
\${encode_string}	Password	
	(Please refer to attached 「get_sid.js」 to get ezEncode	
	function)	
\${remme}	Optional:	
	1:return qtoken	
	0:clean qtoken	
\${security_answer}	string	

Note: encode_string = ezEncode(utf16to8('\${real_password}'))

Example:

 $\frac{\text{http://172.17.20.20:8080/cgi-bin/authLogin.cgi?pwd=YWRtaW4\%3D\&r=0.40009298368}}{50201\&security_answer=fine\&serviceKey=1\&user=admin}$

(if real_password is "admin", it will be encoded as "YWRtaW4%3D")

Return value: Example of successful for security question authentication:

<QDocRoot version="1.0"> <doQuick></doQuick>



```
<is booting>0</is booting>
     <mediaReady>1</mediaReady>
     <SMBFW>0</SMBFW>
     <authPassed>1</authPassed>
     <authSid>m9x71gxw</authSid>
     <emergency_try_count>1</emergency_try_count>
     <emergency_try_limit>5</emergency_try_limit>
     <isAdmin>1</isAdmin>
     <username>admin</username>
     <groupname>administrators</groupname>
     <ts>88323841</ts>
     <fwNotice>0</fwNotice>
     <title></title>
     <content></content>
     <psType>0</psType>
     <showVersion>0</showVersion>
     <show_link>1</show_link>
</QDocRoot>
```

Example of failed for security question authentication:

```
<QDocRoot version="1.0">
     <doQuick></doQuick>
     <is_booting>0</is_booting>
     <mediaReady>1</mediaReady>
     <SMBFW>0</SMBFW>
     <authPassed>0</authPassed>
     <emergency_try_count>1/emergency_try_count>
     <emergency_try_limit>5</emergency_try_limit>
     <username>admin</username>
     <groupname>administrators</groupname>
     <ts>88323841</ts>
     <fwNotice>0</fwNotice>
     <title></title>
     <content></content>
     <psType>0</psType>
     <showVersion>0</showVersion>
     <show_link>1</show_link>
</QDocRoot>
```

here's parameter can refer 1st verification