

# Magrathea Secure Services Access Guide

Encrypted connections to some Magrathea services are now available to all clients using existing login details. There is no need to request secure access as the following services can be used interchangeably with the current non-encrypted version of the same service.

This guide includes details of the various services which can now be accessed over fully encrypted, secure connections and we have included examples of common tools and utilities which may be used to access the services in a secure fashion.

We do not mandate that you use the access mechanisms listed but are unable to provide support for alternative methods of access due to the huge variation of client applications which may be used to make connections.

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## Secure NTSAPI access

Should you have issues connecting using a mechanism not listed in this guide then please see your Systems Administrator for assistance.

The NTSAPI can be accessed through a TLS/SSL tunnel, offering encryption to the entire process including both the login phase and also all data passed in both directions.

To make a connection, please connect using port 777 to the secure.magrathea-telecom.co.uk server (instead of api.magrathea-telecom.co.uk).

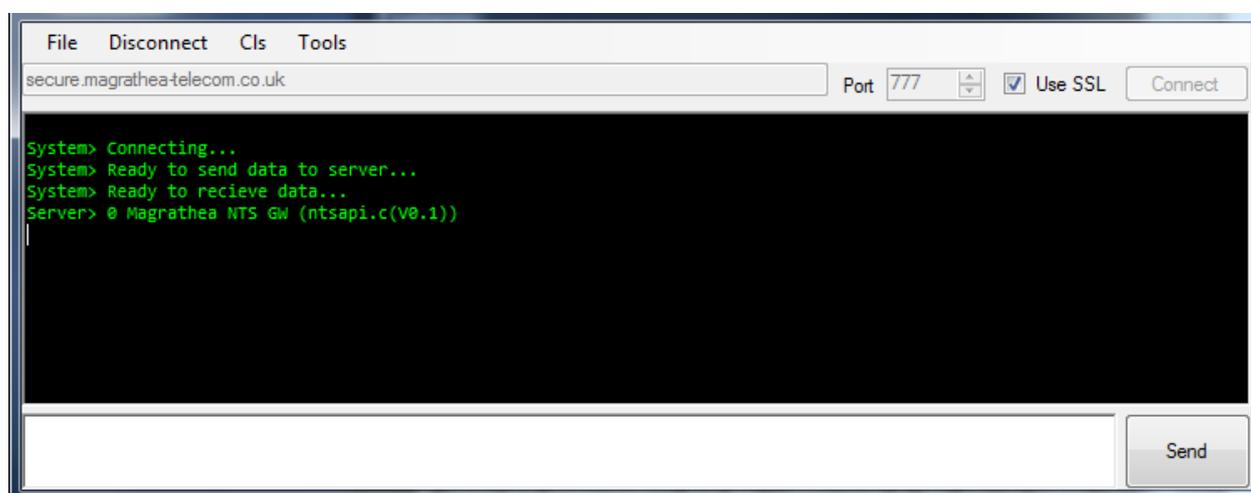
Any SSL client can make this connection and you then login to the NTSAPI as normal, the only operational difference being that the connection is encrypted.

Unfortunately, PuTTY is not able to make connections using SSL so if you are currently using PuTTY then you will need to find an alternative client.

## Interactive Access (Windows for those currently using PuTTY)

There are various Telnet over SSL clients available. One free example can be downloaded from <http://www.apps.danbalthaser.com/telnet/index.htm>

The basic setup is the same for any client: connect to secure.magrathea-telecom.co.uk on port 777 and enable SSL as the connection type:



## Interactive Access (Linux or Windows with Cygwin)

As an example, from a Linux machine (or a Windows machine with Cygwin and OpenSSL installed), the OPENSSL client can be used to initiate the connection, instead of telnet:

```
openssl s_client -connect secure.magrathea-telecom.co.uk:777
```

In addition, any application which is capable of making use of an 'openssl' library should connect without any problems, so if you have automated connections into the NTSAPI (for example in PHP) then you should simply be able to change the connection type to use SSL.

## System Based access (based on our example PHP)

If you are using our example PHP to connect then simply change the existing connection line as follows (you will need to ensure your PHP was built with the '—with-openssl' option for SSL to be available):

```
//$fp = fsockopen("api.magrathea-telecom.co.uk",777,&$errno,&$errdesc);  
$fp = fsockopen("ssl://secure.magrathea-telecom.co.uk",777,&$errno,&$errdesc);
```

If you are using other connection methods, then please consult your developers to determine how you can change your existing connections so that they are encrypted. On most systems an SSL library (often OpenSSL) will need to be installed and configured.

## Secure FTP CDR downloads

Daily CDRs can now be downloaded by FTP over a TLS/SSL connection.

**Please note that this is an FTP connection which uses SSL to encrypt it and is different to SFTP.**

To make a connection, please continue to connect to cdr2.magrathea-telecom.co.uk on port 21 but set your FTP client to require a TLS/SSL connection and use your existing username and password.

Not all FTP clients are able to be configured to make these connections (neither the standard FTP on Windows or Linux are capable of encrypted SSL connections) so you may have to change the FTP client you are using.

## Interactive FTP Client (Windows or Linux)

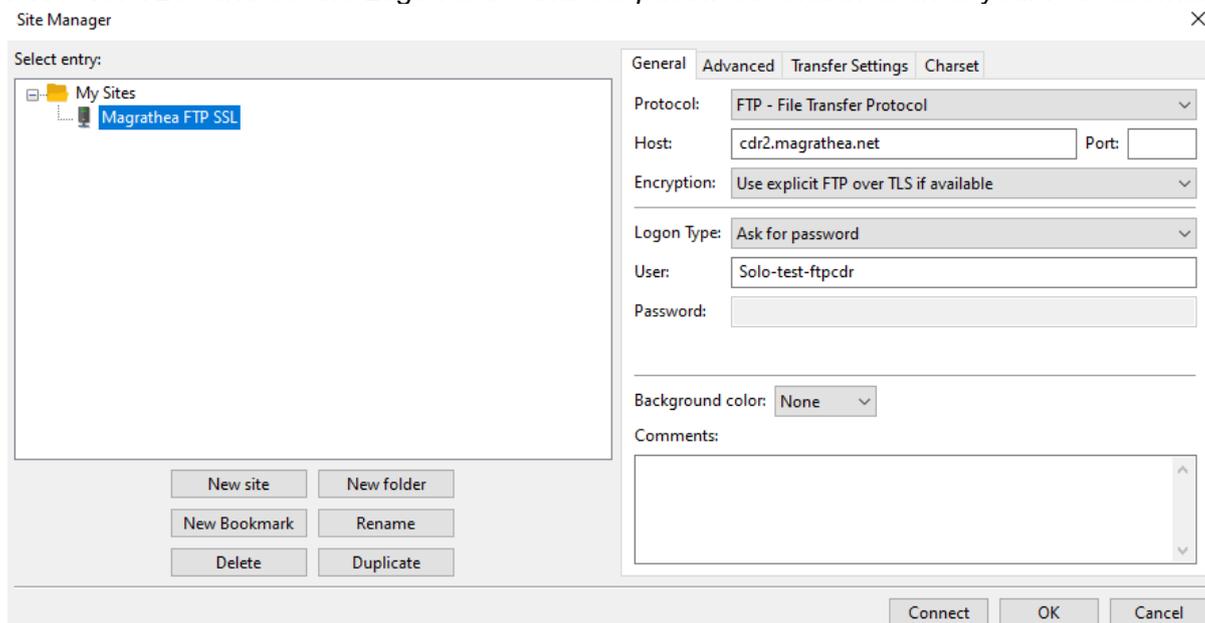
There are various FTP with TLS/SSL clients available and one free example is FileZilla which is supported on both Windows and Linux and can be downloaded from <http://filezilla-project.org/> (though you can use any FTP client which supports FTP with TLS/SSL).

The following examples are taken from the Windows version.

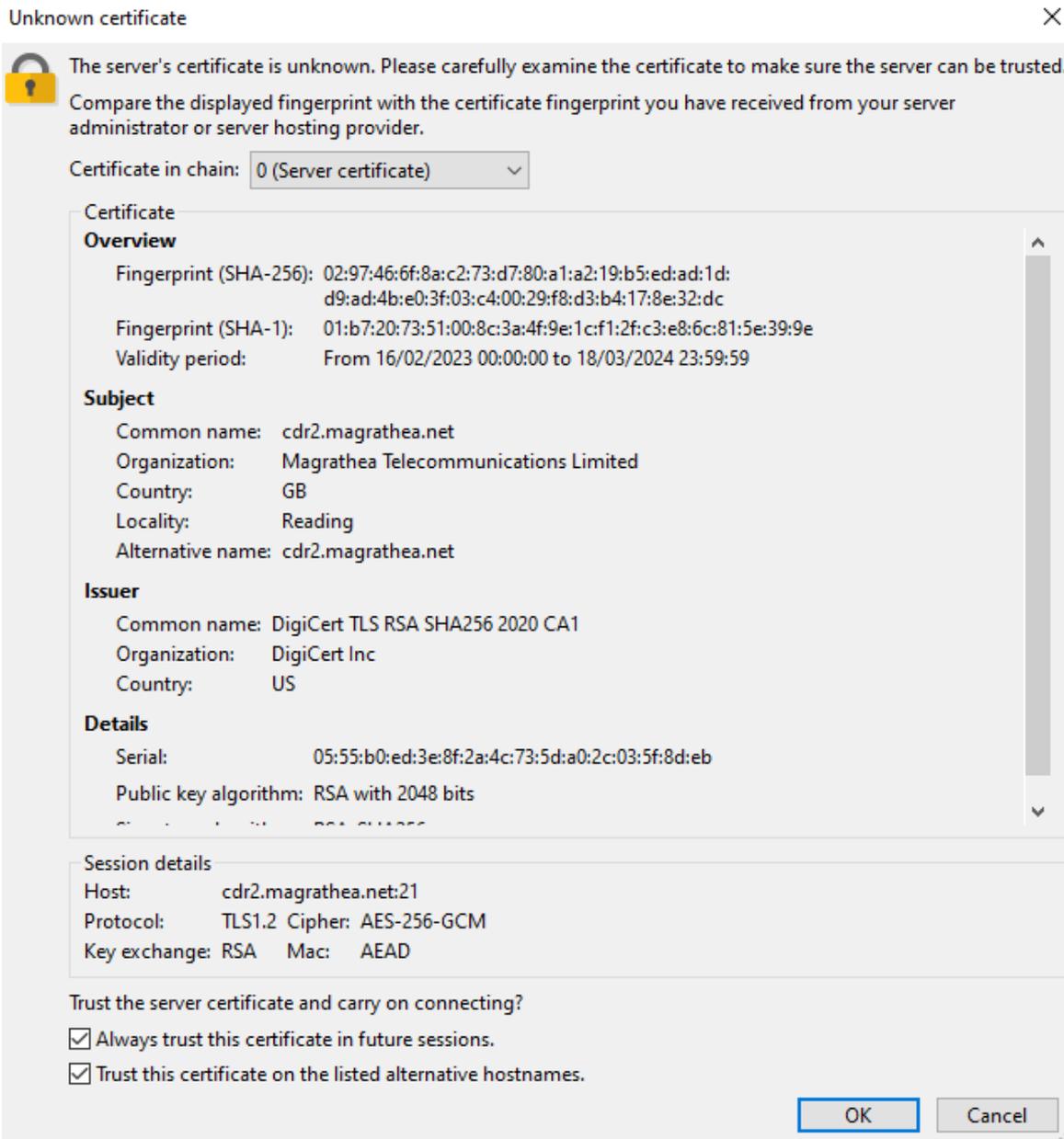
To setup a connection to Magrathea for CDR download, open FileZilla then then select “*File->Site Manager*” from the main menu.

Click “*New Site*” and then “*Rename*” this to something meaningful (for example ‘Magrathea FTP SSL’)

Then set the Host to be **cdr2.magrathea-telecom.co.uk**, change the Encryption setting to “*Require explicit FTP over TLS*” and set the Logon to be “*Ask for password*” and then enter your FTP username



Click ‘Connect’ and in the dialog that pops up, enter your password and click OK. You will then be presented with the certificate dialog:



Once you are satisfied that this is the genuine certificate tick the 'Always trust certificate in future sessions' box and click OK to complete the connection.

Once connected, you simply drag and drop your CDR files from the Magrathea CDR site to your local PC

Magrathea FTP SSL - Solo-test-ftp cdr@cdr2.magrathea.net - FileZilla

File Edit View Transfer Server Bookmarks Help

Host:  Username:  Password:  Port:  Quickconnect

Status: Resolving address of cdr2.magrathea.net  
 Status: Connecting to 87.238.73.50:21...  
 Status: Connection established, waiting for welcome message...  
 Status: Initializing TLS...  
 Status: TLS connection established.  
 Status: Logged in  
 Status: Retrieving directory listing...  
 Status: Directory listing of "/" successful

---

Local site: E:\RDS\_Users\SOLOMONN\  
 Remote site: /

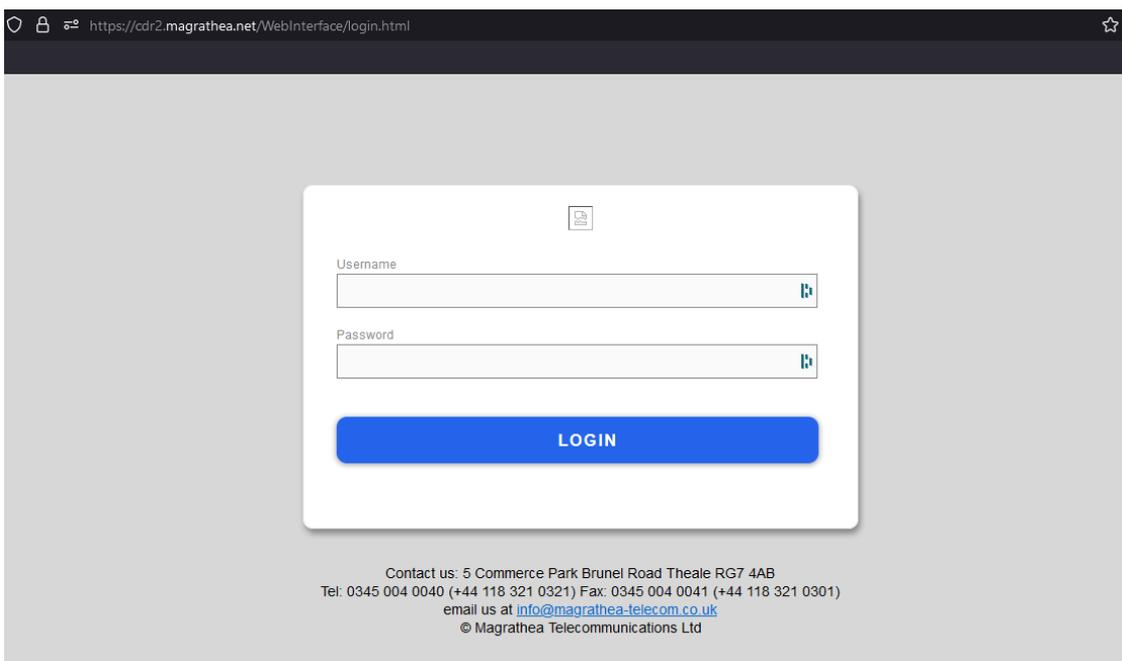
Filename	Filesize	Filetype	Last modified	Permissions	Owner/Group
..					
cdrext-20230701.zip.asc	1,422	ASC File	06/09/2023 17:...	r	user group
cdrext-20230702.zip.asc	1,418	ASC File	06/09/2023 17:...	r	user group
cdrext-20230703.zip.asc	1,418	ASC File	06/09/2023 17:...	r	user group
cdrext-20230704.zip.asc	1,439	ASC File	06/09/2023 17:...	r	user group
cdrext-20230707.zip.asc	709,553	ASC File	06/09/2023 17:...	r	user group
cdrext-20230708.zip.asc	280,081	ASC File	06/09/2023 17:...	r	user group
cdrext-20230709.zip.asc	188,021	ASC File	06/09/2023 17:...	r	user group
cdrext-20230710.zip.asc	835,543	ASC File	06/09/2023 17:...	r	user group
cdrext-20230711.zip.asc	786,501	ASC File	06/09/2023 17:...	r	user group
cdrext-20230712.zip.asc	729,496	ASC File	06/09/2023 17:...	r	user group
cdrext-20230713.zip.asc	745,518	ASC File	06/09/2023 17:...	r	user group
cdrext-20230714.zip.asc	695,732	ASC File	06/09/2023 17:...	r	user group
cdrext-20230715.zip.asc	279,756	ASC File	06/09/2023 17:...	r	user group
cdrext-20230716.zip.asc	182,874	ASC File	06/09/2023 17:...	r	user group
cdrext-20230717.zip.asc	813,849	ASC File	06/09/2023 17:...	r	user group
cdrext-20230718.zip.asc	798,916	ASC File	06/09/2023 17:...	r	user group
cdrext-20230719.zip.asc	762,479	ASC File	06/09/2023 17:...	r	user group

65 files. Total size: 35,498,315 bytes

Server/Local file	Direction	Remote file	Size	Priority	Status
Queued files					
Failed transfers					
Successful transfers					

## Interactive FTP Client via HTTPS

Another way FTP can be accessed, is through a HTTPS, offering encryption to the entire process. To make a connection, please launch a web browser and enter the URL **cdr2.magrathea-telecom.co.uk**. Next, enter your assigned credentials to gain access



https://cdr2.magrathea.net/WebInterface/login.html

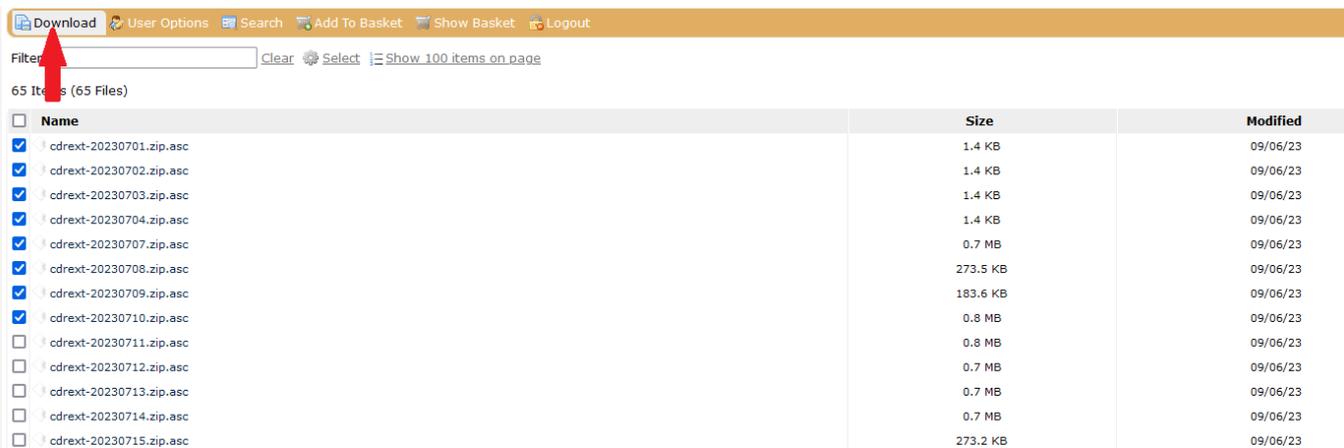
Username

Password

**LOGIN**

Contact us: 5 Commerce Park Brunel Road Theale RG7 4AB  
Tel: 0345 004 0040 (+44 118 321 0321) Fax: 0345 004 0041 (+44 118 321 0301)  
email us at [info@magrathea-telecom.co.uk](mailto:info@magrathea-telecom.co.uk)  
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Once launched, simply select your CDR files from the Magrathea CDR site and download them onto your local PC, by clicking on the download tab at the top of your screen.



Download User Options Search Add To Basket Show Basket Logout

Filter  Clear Select Show 100 items on page

65 Items (65 Files)

<input type="checkbox"/>	Name	Size	Modified
<input checked="" type="checkbox"/>	cdrext-20230701.zip.asc	1.4 KB	09/06/23
<input checked="" type="checkbox"/>	cdrext-20230702.zip.asc	1.4 KB	09/06/23
<input checked="" type="checkbox"/>	cdrext-20230703.zip.asc	1.4 KB	09/06/23
<input checked="" type="checkbox"/>	cdrext-20230704.zip.asc	1.4 KB	09/06/23
<input checked="" type="checkbox"/>	cdrext-20230707.zip.asc	0.7 MB	09/06/23
<input checked="" type="checkbox"/>	cdrext-20230708.zip.asc	273.5 KB	09/06/23
<input checked="" type="checkbox"/>	cdrext-20230709.zip.asc	183.6 KB	09/06/23
<input checked="" type="checkbox"/>	cdrext-20230710.zip.asc	0.8 MB	09/06/23
<input type="checkbox"/>	cdrext-20230711.zip.asc	0.8 MB	09/06/23
<input type="checkbox"/>	cdrext-20230712.zip.asc	0.7 MB	09/06/23
<input type="checkbox"/>	cdrext-20230713.zip.asc	0.7 MB	09/06/23
<input type="checkbox"/>	cdrext-20230714.zip.asc	0.7 MB	09/06/23
<input type="checkbox"/>	cdrext-20230715.zip.asc	273.2 KB	09/06/23

## Automated or Command-Line access (Linux)

As an example, from a Linux machine, the LFTP client can be used to initiate the connection and force the TLS/SSL mode.

To do this, please either add the following to your lftp.conf file (usually found in /etc/lftp.conf) or enter the lines as commands once you have started lftp:

```
set ftp:ssl-force yes
set ftp:ssl-protect-data yes
set ftp:ssl-protect-list yes
set ssl:check-hostname yes
set ssl:verify-certificate yes
```

To make the connection:

```
lftp -u username,password cdr2.magrathea-telecom.co.uk
```

Once connected, you can list the directory and enter commands as you would with any other FTP client.

## Secure access to your Account Balance

Connections to retrieve the current balance of your account made via the RestAPI or Client Portal are made securely.

## Secure Access to the Porting Portal

Connections to the Porting Portal can be made using a normal web browser to

<https://portal.magrathea.net/portal/>