

HPCC Systems[®] Client Tools

Boca Raton Documentation Team



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Overview

This manual contains documentation for the set of Client Tools for use with the HPCC Systems platform. These tools include:

ECL	Command line ECL tool
ECL Compiler	Command line ECL Compiler
DFUPlus	Command line Distributed File Utility management tool, facilitate automation of data file spray, despray, and other common file handling tasks.
ESDL	Command line ESDL management tool.

Documentation Conventions

ECL Language

Although ECL is not case-sensitive, ECL reserved keywords and built-in functions in this document are always shown in ALL CAPS to make them stand out for easy identification.

Example Code

All example code in this document appears in the following font:

```
MyECLFileName := COUNT(Person);  
// MyECLFileName is a user-defined ECL file  
// COUNT is a built-in ECL function  
// Person is the name of a dataset
```

ECL file names and record set names are always shown in example code as mixed-case. Run-on words may be used to explicitly identify purpose in examples.

Actions

In step-by-step sections, there will be explicit actions to perform. These are all shown with a bullet or a numbered step to differentiate action steps from explanatory text, as shown here:

- Keyboard and mouse actions are shown in all caps, such as: DOUBLE-CLICK, or press the ENTER keyword.
- On-screen items to select are shown in boldface, such as: press the **OK** button.

Installation

The installation program installs all client tools, including the DFUPlus and the ECL Command line tools.

1. From the HPCC Systems® download page, <http://hpccsystems.com/download/free-community-edition/client-tools>

Download the appropriate Client Tools for your Operating System. (available for RPM-Based systems, Debian-Based systems, Mac OSX, or Windows)

2. Install the client tools software to your machine.

Windows:

Run the executable file, for example: `hpccsystems-clienttools_community-7.X.X-Windows-i386.exe` on your machine. Follow the prompts to complete the installation.

RPM-Based Systems (CentOS/RedHat):

An RPM installation package is provided. Install RPM with the `-Uvh` switch, the `U` or upgrade will perform an upgrade if a previous version is already installed.

```
sudo rpm -Uvh <rpm file name>
```

If you are using CentOS 6 you may need to run the following command to properly enable the installation.

```
sudo wget http://people.centos.org/tru/devtools-2/devtools-2.repo -O /etc/yum.repos.d/devtools-2.repo
```

Debian-Based Systems (Ubuntu):

For Ubuntu installations a Debian package is provided. To install the package, use:

```
sudo dpkg -i <deb filename>
```

After installing the package, run the following to update any dependencies:

```
sudo apt-get install -f
```

Mac OSX:

Open the Apple disk image file (.dmg) and then run the installation package (.pkg). Follow the prompts to complete the installation.

Multiple Version Installations

It is possible to install multiple versions of the client tools if you need to work with multiple versions of the platform.

To install the client tools, obtain the appropriate installation package for your operating system and the version to match your HPCC Systems server:

1. Download the appropriate Client Tools for your Operating System and version.

Client tools can be found at the HPCC Systems® download page:

<http://hpccsystems.com/download/free-community-edition/client-tools>

NOTE: There is a link at the bottom of the list "[view older downloads](#)" if you are looking for previous versions.

2. Install the Client Tools on to your system. Take note of the following considerations:

Client tool packages starting with 4.2 have built in logic to allow for multiple installations. Prior versions of the client tools package would just overwrite the existing components. The default behavior is that the client tools will use the last one installed, except if you are working directly on the platform. If you are working directly on the platform then it would use the client tools package that gets installed with the platform.

If you install a version other than the delivered client tools you will have a folder in /opt/HPCCSystems that corresponds to the set of client tools. So you could have a client tools 7.0.x, 7.2.x, 7.4.x, etc.

For older versions, download the package(s), and install. Install the one you want to use last. Copy to a different folder or Rename the client tools found in /opt/HPCCSystems after installing the older version and before installing the newer version. This is to prevent the newer client tools from overwriting the older one.

To use the Client tools for the various version number(s) explicitly call the client tool you wish to use, or set up an alias to call the client tool using the proper path or name for the version you intend to use. This would depend on how you chose to save off the older client tools you installed.

For example, if you wanted to run DFUplus:

```
dfuplus action=list server=http://127.0.0.1:8010
```

To run DFUplus for an older or another version of client tools, for instance 7.0.x:

```
/opt/HPCCSystems/7.0.x/clienttools/bin/dfuplus action=list server=http://127.0.0.1:8010
```

Windows

Client tools for Windows installs in a directory such as: C:\Program Files (x86)\HPCCSystems\7.2.0\clienttools\bin where the number (7.2.0 for example) corresponds to the version of the client tools.

If you want access to one version of the command line client tools from any folder, you can add the \bin folder to your Path in Windows (for example, **C:\Program Files (x86)\HPCCSystems\7.2.0\clienttools\bin**)

The Windows installer will prompt you to delete the previous version during installation. If you want to keep both, decline the offer to uninstall, and choose a different installation directory at the next prompt.

ECL Command Line Interface

The ECL Command Syntax

ecl [--version] <command> [<options>]

<i>--version</i>	displays version info.
Arguments	
deploy	Create a workunit from an ecl file, archive, or dll
publish	Add a workunit to a query set
unpublish	Remove a query from a query set
run	Run the given ecl file, archive, dll, wuid, or query
results	returns the full results of a given WUID in XML format.
activate	Activate a published query
deactivate	Deactivate the given query alias name
queries	List or manipulate queries and querysets
roxie	execute commands for Roxie
packagemap	execute packagemap commands (for Roxie)
bundle	manage ECL bundles
abort	aborts one or more workunits from the given WUID or job name
status	returns the status of a given workunit or job name. If more than one is found, a list returns.
getname	returns the workunit name from the given WUID.
getwuid	returns the WUID(s) of the given workunit job name.

ecl.ini

Many options can be placed in a file called **ecl.ini** in the same directory as the executable. Options that do not change very often should be put in the ini file. For example:

```
;The values below are examples, you should change them to match your platform deployment  
eclWatchIP=10.150.50.12  
eclWatchPort=28010  
eclUserName=emilykate  
eclPassword=elmo812  
resultLimit=200
```

In some examples below, we'll assume ecl.ini has the above content.



We do not recommend storing your password in the INI file (which is clear text). The password is included in the INI file for these examples to simplify the example code.

The following options can be provided in an ini file: eclWatchIP, eclWatchPort, eclUserName, eclPassword, activateDefault, waitTimeout, resultLimit.

Evaluation of options follows this order of precedence:

- command line
- ini file
- environment variable
- default value

Environment Variables

Some options can be stored in Environment Variables on your machine. The following options are supported:

```
ECL_WATCH_IP  
ECL_WATCH_PORT  
ECL_USER_NAME  
ECL_PASSWORD  
ECL_WAIT_TIMEOUT  
ECL_RESULT_LIMIT  
ECLCC_PATH
```



We do not recommend storing your password in an Environment Variable.

ecl deploy

ecl deploy <target> <file> [--name=<value>]

ecl deploy <target> <archive> [--name=<value>]

ecl deploy <target> <so | dll > [--name=<value>]

ecl deploy <target> - [--name=<val>]

Examples:

```
ecl deploy roxie findperson.ecl --name=FindPersonService
ecl deploy roxie ArchiveQuery.xml --name=FindPersonService
ecl deploy roxie libW20150914-125557.so --name=FindPersonService
ecl deploy roxie - --name=FindPersonService
```

A hyphen (-) specifies that the object should be read from stdin.

ecl deploy	Creates a workunit on the HPCC Systems platform from the given ECL text, file, archive, shared object, or dll. The workunit is created in the <i>compiled</i> state.
Arguments	
target	The target cluster to which to deploy
file	The ECL text file to deploy
archive	The ECL archive to deploy
so dll	The workunit dynamic linked library or shared object to deploy
-	Specifies object should be read from stdin
Options	
-n, --name	The published query name
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)
--main	The definition to use from legacy ECL repository
--ecl-only	Send ECL query to HPCC Systems cluster as text rather than as a generated archive
ecgcc Options	
-Ipath	Add path to locations to search for ecl imports
-Lpath	Add path to locations to search for system libraries
--manifest	Specify path to manifest file
-checkDirty	Causes ecgcc to generate a warning for any attribute that has been modified (according to the output of git status). Use of this function requires that git be installed and available on the path.

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--nostdinc	Do not include the current directory in -I
--fastsyntax	Delay expanding functions when parsing. May speed up processing for some queries

ecl publish

ecl publish <target> <file> [--name=<val>]

ecl publish <target> <wuid> [--name=<val>]

ecl publish <target> <so | dll> [--name=<val>]

ecl publish <target> <archive> [--name=<val>]

ecl publish <target> - [--name=<val>]

Examples:

```
ecl publish roxie findperson.ecl --name=FindPersonService -A
ecl publish roxie W20150914-125557 --name=FindPersonService -A
ecl publish roxie libW20150914-125557.so --name=FindPersonService -A
ecl publish roxie ArchiveQuery.xml --name=FindPersonService -A
ecl publish roxie - --name=FindPersonService --activate
ecl publish roxie findperson.ecl --name=FindPersonService --no-activate
ecl publish roxie ArchiveQuery.xml --name=FindPersonService --no-activate
```

A hyphen (-) specifies that the object should be read from stdin.

ecl publish	Publishes a query into a queryset. The query is created by adding a workunit to a queryset and assigning it a query name.
Arguments	
target	The target cluster to which to publish
wuid	The workunit id to publish
file	The ECL text file to publish
archive	The ECL archive to publish
so dll	The workunit dynamic linked library or shared object to publish
-	Specifies object should be read from stdin
Options	
-n, --name	The published query name
-A, --activate	Activates query when published (default)
-A-, --no-activate	Does not activate query when published
-sp, --suspend-prev	Suspend previously active query
-dp, --delete-prev	Delete previously active query
--no-files	Specifies to not copy DFS file information for files referenced by the query
--no-reload	Specifies to not request a reload of the Roxie cluster
--allow-foreign	Specifies to allow the use of foreign files in a Roxie query. If a Roxie query references foreign files and this is not enabled, publish will fail.
--daliip=	IP address or hostname of the remote Dali to use for remote logical file lookups.
--update-dfs	Update local DFS info if remote DALI has changed
---source-process	Process cluster from which to copy files
--timeLimit=<sec>	Value to set for query timeLimit configuration
--warnTimeLimit=<sec>	Value to set for query warnTimeLimit configuration

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--memoryLimit=<mem>	Value to set for query memoryLimit configuration. Format <mem> as 500000B, 550K, 100M, 10G, or 1T, etc.
--priority=<val>	The priority for this query. Value can be LOW, HIGH, SLA, NONE. NONE will clear current setting.
--comment=<string>	A comment associated with this query
--wait=<sec>	Maximum time to wait for cluster finish updating
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)
--main	The definition to use from legacy ECL repository
--ecl-only	Send ECL query to HPCC Systems cluster as text rather than as a generated archive
--limit=<limit>	Sets the result limit for the query
-f<option>[=value]	Set an ECL option (equivalent to #option)
-Dname=value	Override the definition of a global attribute 'name'
eclec Options	
-Ipath	Add path to locations to search for ecl imports
-Lpath	Add path to locations to search for system libraries
--manifest	Specify path to manifest file
-checkDirty	Causes eclec to generate a warning for any attribute that has been modified (according to the output of git status). Use of this function requires that git be installed and available on the path.
--nostdinc	Do not include the current directory in -I
--fastsyntax	Delay expanding functions when parsing. May speed up processing for some queries

ecl unublish

ecl unublish <queryset> <query_id>

Example:

```
ecl unublish roxie FindpersonService.1  
ecl unublish roxie "FindpersonService*"
```

ecl unublish	executes the supplied ecl unublish command
Arguments	
queryset	The name of queryset containing query to unublish
query_id	The query to remove from query set. Wildcards allowed, but must be in quotes (e.g., "MyQuery*").
Options	
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl run

ecl run <target> <file> [--name=<val>] [--input=<file|xml>] [--wait=<i>]

ecl run <target> <wuid> [--input=<file|xml>] [--wait=<ms>]

ecl run <target> <query> [--input=<file|xml>][--wait=<ms>]

ecl run <target> <so | dll> [--name=<val>][--input=<file|xml>][--wait=<i>]

ecl run <target> <archive> --name=<val> [--input=<file|xml>][--wait=<i>]

ecl run <target> - --name=<val> [--input=<file|xml>][--wait=<i>]

Examples:

```
ecl run thor findperson.ecl --name=findperson --input=data.xml --wait=1000
ecl run thor W20150914-125557 --input=data.xml --wait=1000
ecl run thor findperson --input=data.xml --wait=1000
ecl run thor libW20150914-125557.so --input=data.xml --wait=1000
ecl run thor - --input=data.xml --poll --wait=1000
ecl run thor findperson.ecl --input="<request><LName>JONES</LName></request>"
ecl run thor findperson.ecl -I C:\MyECL\
```

A hyphen (-) specifies that the object should be read from stdin.

ecl run	executes the supplied ecl run command
Arguments	
target	The target cluster to which to publish
wuid	The workunit id to run
file	The ECL text file to run
archive	The ECL archive to run
so dll	The workunit dynamic linked library or shared object to run
-	Specifies object should be read from stdin
Options	
-n, --name	The workunit job name
-in, --input=<file xml>	The file or xml content to use as query input
-X<name>	Sets the stored input value (stored('name'))
--wait=<sec>	Maximum time to wait for cluster finish updating (in ms)
--exception-level	Sets the minimum severity for reporting exceptions. Possible severity levels are info , warning , or error . The default is info which returns all exceptions.
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
--ssl	Use SSL to secure the connection to the server.
--poll	Submits a job asynchronously and polls the server until the state of the workunit changes to completed. It then retrieves the results. Combine with the --wait option to limit the time that it polls.
-u, --username	The username (if necessary)

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-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)
--main	The definition to use from legacy ECL repository
--ecl-only	Send ECL query to HPCC Systems cluster as text rather than as a generated archive
--limit	Sets the result limit for the query, defaults to 100
-f<option>[=value]	set an ECL option (equivalent to #OPTION in ECL)
ecfcc Options	
-I <path>	Add path to locations to search for ECL imports (e.g., -I C:\MyECL\)
-L <path>	Add path to locations to search for system libraries
--manifest	Specify path to manifest file
-checkDirty	Causes ecfcc to generate a warning for any attribute that has been modified (according to the output of git status). Use of this function requires that git be installed and available on the path.
--nostdinc	Do not include the current directory in -I
--fastsyntax	Delay expanding functions when parsing. May speed up processing for some queries
-f-xxx	Will pass the option -xxx to ecfcc

ecl results

ecl results <wuid> [--noroot] [--exception-level=<value>]

Examples:

```
ecl results W20170519-142920  
ecl results W20170519-142920 --noroot --exception-level=error
```

ecl results	returns the full results of a given WUID in XML format.
Arguments	
wuid	The workunit from which to return results.
Options	
--noroot	Suppresses the <Result> root tag in the XML returned.
--exception-level	Sets the minimum severity for reporting exceptions. Possible severity levels are info , warning , or error . The default is info which returns all exceptions.
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
--ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl activate

ecl activate <queryset> <query_id>

Example:

```
ecl activate roxie FindpersonService.4
```

ecl activate	Activates a published query. This assigns a query to the active alias with the same name as the query.
Arguments	
queryset	The name of queryset containing query to activate
query_id	The query to activate
Options	
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl deactivate

ecl deactivate <queryset> <active_alias>

Example:

```
ecl deactivate roxie FindpersonService
```

ecl deactivate	Deactivates a published query by removing an active query alias from the given queryset.
Arguments	
queryset	The name of queryset containing alias to deactivate
active_alias	The active alias to be removed from the queryset
Options	
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl queries list

ecl queries list [**<queryset>**][**--target=<cluster>**][**--show=<flags>**]

Examples:

```
ecl queries list roxie
ecl queries list roxie --target=roxie --show=A
```

ecl queries list	Displays a list of the queries in one or more querysets. If a cluster is provided the querysets associated with that cluster will be shown. If no queryset or cluster is specified all querysets are shown.
Actions	
list	List queries in queryset(s)
Options	
queryset	The name of queryset from which to list queries
-t, --target	The target cluster associated with the queries to list
-A, --activate	Activates query when published
--show=<flags>	Show only queries with matching flags
Flags	
A	Active
S	Suspended
U	No Flags
Options	
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl queries copy

ecl queries copy <source_query_path> <target_queryset> [--activate]

Examples:

```
ecl queries copy thor/findperson thor2 --activate
ecl queries copy //192.168.1.10:8010/thor/findperson thor
```

ecl queries copy	Copies a query from one queryset to another. A query can be copied from one HPCC Systems environment to another by using a path which begins with '/' followed by the IP or hostname and Port of the source ECL Watch and then followed by the source queryset and query.
Actions	
copy	Copy a query from one queryset to another
Options	
source_query_path	The path of the query to copy using the format: [/ip:port/]queryset/query or query-set/query.
target_queryset	The name of the queryset to which the query should be copied
-t, --target	The target cluster to associate with the remote workunit
--no-files	Specifies to not copy DFS file information for files referenced by the query
-A, --activate	Activates query when copied
--no-reload	Specifies to not request a reload of the Roxie cluster
--allow-foreign	Specifies to allow the use of foreign files in a Roxie query. If a Roxie query references foreign files and this is not enabled, copy will fail.
-O, --overwrite	Whether to overwrite existing information - true if present
--timeLimit=<sec>	Value to set for query timeLimit configuration
--warnTimeLimit=<sec>	Value to set for query warnTimeLimit configuration
--memoryLimit=<mem>	Value to set for query memoryLimit configuration. Format <mem> as 500000B, 550K, 100M, 10G, or 1T, etc.
--wait=<sec>	Maximum time to wait for cluster finish updating (in ms)
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl queries copy-set

ecl queries copy-set <source_target> <destination_target> [--all] [--clone-active-state]

Examples:

```
ecl queries copy-set roxie1 roxie2
ecl queries copy-set roxie1 roxie2 --all
ecl queries copy-set roxie1 roxie2 --clone-active-state
```

ecl queries copy-set	Copies a set of queries from one target to another.
Actions	
copy-set	Copy a set of queries from one target to another.
Options	
source_target	Target cluster from which to copy queries.
destination_target	Target cluster to copy queries to.
--all	Specifies to copy both active and inactive queries. If omitted, only active are copied.
--no-files	Specifies to not copy DFS file information for files referenced by the query
--daliip=	IP address or hostname of the remote Dali to use for logical file lookups.
--source-process	Process cluster from which to copy files.
--clone-active-state	Make copied queries active on target if they are active on the source.
--allow-foreign	Specifies to allow the use of foreign files in a Roxie query. If a Roxie query references foreign files and this is not enabled, copy will fail.
-O, --overwrite	Whether to overwrite existing DFS information - true if present
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl, --ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl queries config

ecl queries config <target> <queryid> [options]

Examples:

```
ecl queries config thor findperson --wait=1000
```

ecl queries config	Updates query configuration values
Actions	
config	Set or update query configuration values
Options	
target	The name of the target queryset
queryid	The name of the query
--no-reload	Specifies to not request a reload of the Roxie cluster
--wait=<sec>	Maximum time to wait for cluster finish updating (in ms)
--timeLimit=<sec>	Value to set for query timeLimit configuration
--warnTimeLimit=<sec>	Value to set for query warnTimeLimit configuration
--memoryLimit=<mem>	Value to set for query memoryLimit configuration. Format <mem> as 500000B, 550K, 100M, 10G, or 1T, etc.
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl queries recreate

ecl queries recreate <target> <query> [<destination-target>] [options]

Examples:

```
ecl queries recreate roxie findpeople
ecl queries recreate roxie findpeople roxie2
```

ecl queries recreate	Recompiles a query into a new workunit and republishes the new workunit. This is useful when upgrading to a new ECL compiler and you want to recompile a query from the exact same source. The ECL archive must be available within the workunit of the query.
Actions	
recreate	Recompiles a query into a new workunit and republishes the new workunit.
Arguments	
target	The target the query you wish to recreate is in
query	The query ID of the query you wish to recreate
destination-target	Optional: The target you want to move the new query to (if different from the source target)
Options	
-A, --activate	Activates query when published
--limit=<limit>	Sets the result limit for the query, defaults to 100
-sp, --suspend-prev	Suspends previously active query
-dp, --delete-prev	Deletes previously active query
-A-, --no-activate	Does not activate query when published
--no-publish	Creates a recompiled workunit, but does not publish it
--no-reload	Specifies to not request a reload of the Roxie cluster
--no-files	Specifies to not copy DFS file information for files referenced by the query
--allow-foreign	Specifies to allow the use of foreign files in a Roxie query. If a Roxie query references foreign files and this is not enabled, publish will fail.
--daliip=<IP>	IP address or hostname of the remote Dali to use for remote logical file lookups.
--update-super-files	Update local DFS superfiles if remote DALI has changed
--update-clone-from	Update local clone from location if remote DALI has changed
--dont-append-cluster	Use only to avoid locking issues due to adding cluster to file
--source-process=<value>	Process cluster to copy files from
--timeLimit=<sec>	Value to set for query timeLimit configuration
--warnTimeLimit=<sec>	Value to set for query warnTimeLimit configuration
--memoryLimit=<mem>	Value to set for query memoryLimit configuration. Format <mem> as 500000B, 550K, 100M, 10G, or 1T, etc.
--priority=<val>	The priority for this query. Value can be LOW, HIGH, SLA, NONE. NONE will clear current setting.
--comment=<string>	A comment associated with this query

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--wait=<sec>	Maximum time to wait for cluster finish updating
-v, --verbose	Output additional tracing information
-s, --server=<IP>	The IP Address or hostname of ESP server running ECL Watch services
-ssl, --ssl	Use SSL to secure the connection to the server.
--port=<port>	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl queries import

ecl queries import <target> <file> [--clone-active-state] [--replace] [options]

Example:

```
ecl queries import roxie1 myqueryset.xml
```

ecl queries import	Imports the contents of a queryset previously exported to disk
Actions	
import	Imports a queryset from a file
Arguments	
target	The target cluster to import queries to
Options	
--all	Copy both active and inactive queries. If omitted, only active queries are imported.
--replace	Replace entire existing queryset
--queries	Filter query ids to select for import
--no-files	Specifies to not copy DFS file information for files referenced by the query
--daliip=<IP>	Remote Dali DFS to use for copying file information
--source-process=<value>	Process cluster to copy files from
--clone-active-state	Make copied queries active if active on source
-O, --overwrite	Completely replace existing DFS file information (dangerous)
--update-super-files	Update local DFS superfiles if remote DALI has changed
--update-clone-from	Update local clone from location if remote DALI has changed
--dont-append-cluster	Use only to avoid locking issues due to adding cluster to file
--allow-foreign	Specifies to allow the use of foreign files in a Roxie query. If a Roxie query references foreign files and this is not enabled, publish will fail.
-v, --verbose	Output additional tracing information
-s, --server=<IP>	The IP Address or hostname of ESP server running ECL Watch services
-ssl, --ssl	Use SSL to secure the connection to the server.
--port=<port>	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl queries export

ecl queries export <target> [options]

Example:

```
ecl queries export roxiel --output=myqueryset.xml
```

ecl queries export	saves backup information about a given queryset to a file.
Actions	
export	Exports queryset information to a file
Arguments	
target	Name of target cluster to export from
-O, --output=<filename>	Filename to save exported backup information to (optional)
Options	
--active-only	Only include active queries in the exported queryset.
--protect	Protect the workunits for the included queries
-v, --verbose	Output additional tracing information
-s, --server=<IP>	The IP Address or hostname of ESP server running ECL Watch services
-ssl, --ssl	Use SSL to secure the connection to the server.
--port=<port>	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl packagemap add

ecl packagemap add [--daliip][options] <target> <filename>

Examples:

```
ecl packagemap add -s=192.168.1.10 roxie mypackagemap.pkg  
ecl packagemap add roxie mypackagemap.pkg --overwrite  
ecl packagemap add roxie mypackagemap.pkg --daliip=192.168.11.11
```

ecl packagemap add	Calls the packagemap add command
Actions	
add	Adds a package map to the target cluster
Arguments	
target	The target to associate the package map with
filename	The name of the file containing package map information.
--daliip=	IP address or hostname of the remote Dali to use for logical file lookups
Options	
-O, --overwrite	Whether to overwrite existing information - true if present
-A, --activate	Activates package map
--allow-foreign	Specifies to allow the use of foreign files. If a package map references foreign files and this is not enabled, package map add will fail.
--pmid=<packagemapid>	id of package map - defaults to filename if not specified
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl packagemap delete

ecl packagemap delete [options] <target><packagemap>

Examples:

```
ecl packagemap delete roxie mypackagemap
```

ecl packagemap delete	Calls the packagemap delete command
Actions	
delete	Deletes a package map
Options	
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl packagemap activate

ecl packagemap activate <target> <packagemap>

Example:

```
ecl packagemap activate roxie mypackagemap.pkg
```

ecl packagemap activate	The activate command will deactivate the currently active package map and make the specified package map active.
Arguments	
target	The target containing the package map to activate
packagemap	name of package map to update
Options	
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl packagemap deactivate

ecl packagemap deactivate <target> <packagemap>

Example:

```
ecl packagemap deactivate roxie mypackagemap.pkg
```

ecl packagemap deactivate	The deactivate command will deactivate the currently active package map.
Arguments	
target	The target containing the package map to deactivate
packagemap	Name of package map to deactivate
Options	
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl packagemap list

ecl packagemap list <target>

Examples:

```
ecl packagemap list roxie
```

ecl packagemap list	Calls the packagemap list command
Actions	
list	Lists loaded package map names
Arguments	
target	The target containing the package map to list
Options	
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl packagemap info

ecl packagemap info [options] <target>

Examples:

```
ecl packagemap info roxie
```

ecl packagemap info	Calls the packagemap info command
Actions	
info	returns package map info
Arguments	
target	The target containing the package map to retrieve
Options	
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl packagemap add-part

ecl packagemap add-part <target> <pmid> <filename>

Examples:

```
ecl packagemap add-part roxie multipart.pkg addresses.pkg
```

The packagemap add-part command adds additional package map content to an existing package map

ecl packagemap add-part	Calls the packagemap add-part command.
Actions	
add-part	Adds additional package map content to an existing package map
Arguments	
target	Name of target to use when adding package map part
pmid	Identifier of package map to add the part to
filename	one or more part files
Options	
--part-name	Name of part being added (defaults to filename)
--delete-prev	Replace an existing part with matching name
--daliip=<ip>	IP of the remote Dali to use for logical file lookups
--global-scope	The specified package map is shared across multiple targets
--source-process=<value>	Process cluster to copy files from
--allow-foreign	Do not fail if foreign files are used in package map
--preload-all	Set preload files option for all packages
--update-super-files	Update local DFS superfiles if remote DALI has changed
--update-clone-from	Update local clone from location if remote DALI has changed
--dont-append-cluster	Use only to avoid locking issues due to adding cluster to file
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl packagemap get-part

ecl packagemap get-part <target> <packagemap> <partname>

Examples:

```
ecl packagemap get-part roxie multipart.pkg contacts
```

The get-part command fetches the given part from the given package map

ecl packagemap get-part	Calls the packagemap get-part command.
Actions	
get-part	Fetches the given part from the given package map
Arguments	
target	Name of target to use when adding package map part
packagemap	Name of the package map containing the part
partname	Name of the part to retrieve
Options	
--global-scope	The specified package map is sharable across multiple targets
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl packagemap remove-part

ecl packagemap remove-part <target> <pmid> <partname>

Examples:

```
ecl packagemap remove-part roxie multipart.pkg contacts
```

The remove-part command will remove the given part from the given package map

ecl packagemap remove-part	Calls the packagemap remove-part command.
Actions	
remove-part	Removes the given part from the given package map
Arguments	
target	Name of target to use
packagemap	Name of the package map containing the part
partname	Name of the part to remove
Options	
--global-scope	The specified package map is sharable across multiple targets
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl packagemap validate

ecl packagemap validate <target> [<filename>]

Examples:

```
ecl packagemap validate roxie mypackagemap.pkg
ecl packagemap validate roxie --active
ecl packagemap validate roxie mypackagemap.pkg --ignore-queries='findPerson*, findByZip'
```

The packagemap validate command verifies that :

- Referenced superkeys have subfiles defined (warns if no subfiles exist)
- All referenced queries exist in the current Roxie queryset
- All Roxie queries are defined in the package

The result will also list any files that are used by queries but not mapped in the package map.

Filename, --active, and --pmid are mutually exclusive. The --active or --pmid options validate a package map that has already been added instead of a local file.

The --queryid option checks the files in a query instead of all the queries in the target queryset. This is quicker when you only need to validate the files for a single query.

ecl packagemap validate	Calls the packagemap validate command.
Actions	
validate	Validates package map info
Arguments	
filename	The filename containing the package map info to validate
target	The target containing the package map to validate
Options	
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--active	Validates the package map that is active for the given target
--pmid=<packagemapid>	Validates the given package map
--queryid	Validate the files for the given queryid if they are mapped in the package map
--ignore-optional	Will not report optional files that are not defined in the packagemap
--ignore-warnings	Will not report general packagemap warnings
--ignore-queries=<setOfQueries>	Will not report on the queries which match the expression. The set of queries can be a comma-separated list or you can use the option once per entry. Wild-cards are supported.
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)

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<code>--wait-read=<Secs></code>	Timeout while reading from socket (in seconds)
---------------------------------------	--

ecl packagemap copy

ecl packagemap copy <path> <target>

Copies a package map from one target to another.

Examples:

```
ecl packagemap copy roxie/MyPkg roxie2
ecl packagemap copy //192.168.0.100:8010/roxie/MyPkg roxie2
```

ecl packagemap copy	Calls the packagemap copy command
Actions	
copy	Copies a package map from one target to another
Arguments	
path	Path to the source package map to copy.
target	The target to copy the package map to
Options	
-A, --activate	Activates package map
--daliip=	IP address or hostname of the remote Dali to use for logical file lookups
--pmid=<packagemapid>	id of package map - defaults to filename if not specified
--source-process	Process cluster to copy files from
--preload-all	Set preload files option for all packages
--replace	Replace existing packagmap
--update-super-files	Update local DFS superfiles if remote Dali has changed
--update-clone-from	Update local clone from location if remote Dali has changed
--dont-append-cluster	Only use to avoid locking issues due to adding cluster to file
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

For the path, the following formats are supported:

- remote packagemap: //IP:PORT/Target/PackageMapId
- local packagemap: target/PackageMapId

ecl roxie attach

ecl roxie attach <processName>

Examples:

```
ecl roxie attach myroxie
```

ecl roxie attach	Attach the roxie to Dali
Options	
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl roxie detach

ecl roxie detach <processName>

Examples:

```
ecl roxie detach myroxie
```

ecl roxie detach	Detach the roxie from Dali
Options	
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl roxie reload

ecl roxie reload <processName>

Examples:

```
ecl roxie reload myroxie
```

ecl roxie reload	Reloads the roxie info from Dali
Options	
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl roxie check

ecl roxie check <processName>

Examples:

```
ecl roxie check myroxie
```

ecl roxie check	Checks the state of the roxie process
Options	
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-ssl	Use SSL to secure the connection to the server.
--wait=<ms>	Max time to wait in milliseconds
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl bundle depends

ecl bundle depends <bundleName> [--version <versionnumber>]

Examples:

```
ecl bundle depends mybundle  
ecl bundle depends mybundle --version=2
```

ecl bundle depends	Shows the dependencies of a bundle
Options	
<bundleName>	The name of a bundle file or installed bundle
--recurse	Displays indirect dependencies
--version	Specify a version of the bundle
-v, --verbose	Output additional tracing information

ecl bundle info

ecl bundle info <bundleName> [--version <versionnumber>]

Examples:

```
ecl bundle info mybundle  
ecl bundle info https://github.com/hpcc-systems/ecl-bundles.git  
ecl bundle info mybundle --version=2
```

ecl bundle info	Lists information about a bundle
Options	
<bundleName>	A bundle filename, a bundle folder, a bundle name, or a URL.
--version	Specify a version of the bundle
-v, --verbose	Output additional tracing information

If a URL ends in .git, it is assumed to be a git repository (fetched using git clone) otherwise it is assumed to be the URL of a file that can be retrieved. In either case, it is fetched to a temporary local location, processed as a local file/directory and then removed.

ecl bundle install

ecl bundle install <bundleName>

Examples:

```
ecl bundle install mybundle
ecl bundle install https://github.com/hpcc-systems/ecl-bundles.git
ecl bundle install mybundle --dryrun
ecl bundle install mybundle --update
ecl bundle install mybundle --keepprior
```

ecl bundle install	Installs a bundle
Options	
<bundleName>	The name or URL of a bundle file, folder, or installed bundle.
--dryrun	List what would be installed, but do not copy
--force	Install even if required dependencies missing
--keepprior	Do not remove any previous versions of the bundle
--update	Update an existing installed bundle
-v, --verbose	Output additional tracing information

If a URL ends in .git, it is assumed to be a git repository (fetched using git clone) otherwise it is assumed to be the URL of a file that can be retrieved. In either case, it is fetched to a temporary local location, processed as a local file/directory and then removed.

To use the "ecl bundle install <git url>" command, you must have git installed and configured on your system. Git must be accessible to the user (in the path).

ecl bundle uninstall

ecl bundle uninstall <bundleName>

Examples:

```
ecl bundle uninstall mybundle  
ecl bundle install mybundle --dryrun  
ecl bundle install mybundle --update  
ecl bundle install mybundle --keepprior
```

ecl bundle install	Installs a bundle
Options	
<bundleName>	The name of an installed bundle
--dryrun	List what would be removed, but do not remove them
--force	Uninstall even if other bundles are dependent on this
--version	Specify a version of the bundle
-v, --verbose	Output additional tracing information

ecl bundle list

ecl bundle list <pattern>

Examples:

```
ecl bundle list  
ecl bundle list myb*
```

ecl bundle list	Lists bundles matching specified pattern
Options	
<pattern>	A pattern specifying bundles to list. If omitted, all bundles are listed
--details	Report details of each installed bundle
-v, --verbose	Output additional tracing information

ecl bundle use

ecl bundle use <bundleName> [--version <version>]

Example:

```
ecl bundle use myBundle --version 2
```

ecl bundle use	Makes a specified version of a bundle active
Options	
<bundleName>	The name of a bundle file
--version	The version of the bundle to make active, or "none"
-v, --verbose	Output additional tracing information

ecl roxie unused-files

ecl roxie unused-files <processName>

Examples:

```
ecl roxie unused-files myroxie
```

ecl roxie unused-files	Finds files in the DFS for the given roxie process that are not currently used by queries on that roxie.
Options	
--check-packagemaps	Exclude files referenced in active package maps
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
-ssl	Use SSL to secure the connection to the server.
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl abort

ecl abort -wu <WUID> | -n <jobName>

Examples:

```
ecl abort -wu W20150516-111213  
ecl abort -n MyJob
```

ecl abort	aborts one or more Workunits from the given WUID or job name
Options	
-wu	The WUID (Workunit ID)
-n	The job name
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
-ssl,--ssl	Use SSL to secure the connection to the server.
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl status

ecl status -wu <WUID> | -n <jobName>

Examples:

```
ecl status -wu W20150516-111213  
ecl status -n MyJob
```

ecl status	returns the status of a given workunit or job name. If more than one is found, a CSV list returns.
Options	
-wu	The WUID (Workunit ID)
-n	The job name
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
-ssl,--ssl	Use SSL to secure the connection to the server.
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl getwuid

ecl getwuid -n <jobName> [--limit=<limitCount>]

Examples:

```
ecl getwuid -n MyJobName  
ecl getwuid -n MyCommonJobName --limit=100
```

ecl getwuid	returns the WUID(s) for a given job name. If more than one is found, a list returns.
Options	
-n	The job name
--limit= <i>nn</i>	Integer to set result limit, default is 100
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
-ssl,--ssl	Use SSL to secure the connection to the server.
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl getname

ecl getname -wu <WUID>

Examples:

```
ecl getname -wu W20140516-111213  
ecl getname -wu W201407*
```

ecl getname	returns the job name for a given workunit.
--wuid	The WUID (Workunit ID)
Options	
--limit=<limit>	This sets the result limit. This is useful when using wildcards in a request. (Default is 100)
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
-ssl,--ssl	Use SSL to secure the connection to the server.
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ecl zapgen

ecl zapgen <WUID> --path <zap_file_path> [options]

Use the zapgen command to create a Zipped Analysis Package (Z.A.P.) containing collecting system information about a workunit and encapsulating it into a shareable package. It is a useful tool for reporting errors, inconsistencies, or other unexpected behavior.

Examples:

```
ecl zapgen W20171017-091320 --path ~/reports
ecl zapgen W20171018-091399 --path ~ --inc-thor-slave-logs --description "Unexpected result from JOIN"
```

ecl zapgen	Creates a ZAP file for the given workunit in the specified path.
WUID	The WUID (Workunit ID)
--path	The path to store the ZAP file
Options	
--inc-thor-slave-logs	Includes Thor slave(s) log into the ZAP file
--description	Description of the issue
-v, --verbose	Output additional tracing information
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
-ssl,--ssl	Use SSL to secure the connection to the server.
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--wait-connect=<Ms>	Timeout while connecting to server (in milliseconds)
--wait-read=<Secs>	Timeout while reading from socket (in seconds)

ECL Compiler

The ECL Compiler is the compiler component of the High Performance Computing Cluster (HPCC) Systems platform. It is embedded and included when you install the HPCC Systems platform. The compiler is the component that actually compiles the ECL code.

The syntax and many of the compiler options implemented are similar to the gcc compiler. You can execute either the Linux or Windows version of eclcc, which, when run, load several of our shared objects (SO files, on Linux) or DLLs (on Windows). The ECL Compiler can process hThor, Thor, or Roxie targeted ECL code.



To compile and run ECL code locally on your Windows machine, you will need the Microsoft Visual Studio 2008 C++ compiler (either Express or Professional edition). This is available from <http://www.microsoft.com/express/Downloads/#2008-Visual-CPP>

Using the ECL Compiler as a Stand Alone option

The ECL Compiler is normally used through the ECL IDE, however, you can use the ECL Compiler in a stand alone manner, to create stand alone programs, or workunits. The ECL Compiler can read ECL code from standard input, or can read it from a specified input file. It compiles the code into an executable program (Such as an 'EXE' file in Windows). The resulting program, when executed, runs the job, writing any output to standard output. Alternatively, you could redirect the output to a file or pipe into another process. With the ECL Compiler, you do not need a super-computer cluster to develop and run ECL code.


Running the ECL Compiler without any options (or specifying --help) will display the syntax.

```
C:\eclcc>eclcc -help
```

Usage: eclcc <options> ECL_file.ecl

General options:

-I <path>	Add path to locations to search for ecl imports
-L <path>	Add path to locations to search for system libraries
-o <file>	Specify name of output file (default a.out if linking to executable, or stdout)
-manifest	Specify path to manifest file listing resources to add
-foption[=value]	Set an ecl option. See #OPTION in the <i>ECL Language Reference</i> for details.
-main <ref>	Compile definition <ref> from the source collection
-syntax	Perform a syntax check of the ECL
-platform=hthor	Generate code for hthor cluster
-platform=roxie	Generate code for roxie cluster (default)
-platform=thor	Generate code for thor cluster

	NOTE: If there are spaces in the path you specify, put it in quotes. For example: -L"C:\Program Files"
---	---

Output control options:

-E	Output preprocessed ECL in xml archive form
-M	Output meta information for the ecl files
-Md	Output dependency information
-Me	eclcc should evaluate supplied ecl code rather than generating a workunit
-q	Save ECL query text as part of workunit
-qa	Save ECL query archive as part of workunit
-wu	Only generate workunit information as xml file

C++ options:

-S	Generate c++ output, but don't compile
-c	Compile only (don't link)
-g, --debug	Enable debug symbols in generated code
-Wc,xx	Pass option xx to the c++ compiler
-Wl,xx	Pass option xx to the linker
-Wa,xx	Pass straight through to c++ compiler
-Wp,xx	Pass straight through to c++ compiler
-save-cpps	Do not delete generated c++ files (implied if -g)
-save-temps	Do not delete intermediate files
-shared	Generate workunit shared object instead of a stand-alone executable

File resolution options:

-dfs=ip	Use specified ip for DFS filename resolution
-scope=prefix	Use specified scope prefix in DFS filename resolution
-user=id	Use specified username in DFS filename resolution
-password=xxx	Use specified password in DFS filename resolution (blank to prompt)

Other options (list is available using `eclcc -help -v`):

<code>-aoption[=value]</code>	Set an application option
<code>--allow=str</code>	<p>Allow use of named feature. (e.g., <code>cpp</code>, <code>pipe</code>, <code>all</code>)</p> <p>cpp: Allow embedded code within ECL (e.g., <code>c++</code>, <code>JAVA</code>, <code>Javascript</code>, <code>Python</code>, <code>R</code>, etc.)</p> <p>pipe: Allow the PIPE command to send data to an external program.</p> <p>userECL: Allow code that is not found via the <code>ecl</code> include paths</p> <p>datafile: Allow access to datafiles from ECL.</p> <p>extern: Allow access to an external service function</p> <p>all: Allow all features</p>
<code>-allowsigned</code>	Only allows access to a feature from signed code
<code>-b</code>	Batch mode. Each source file is processed in turn. Output name depends on the input filename
<code>-checkVersion</code>	Enable/disable <code>ecl</code> version checking from archives
<code>-checkDirty</code>	Causes <code>eclcc</code> to generate a warning for any attribute that has been modified (according to the output of <code>git status</code>). Use of this function requires that <code>git</code> be installed and available on the path.
<code>--component</code>	Set the name of the component this is executing on behalf of
<code>-Dname=value</code>	Override the definition of a global attribute 'name'
<code>--deny=all</code>	Disallow use of all named features not specifically allowed using <code>--allow</code>
<code>--deny=str</code>	<p>Disallow use of named feature</p> <p>cpp: Disallow embedded code within ECL (e.g., <code>c++</code>, <code>JAVA</code>, <code>Javascript</code>, <code>Python</code>, <code>R</code>, etc.)</p> <p>pipe: Disallow the PIPE command to send data to an external program.</p>
<code>--expand <path></code>	Expand the contents of an archive to the specified directory. The contents of the submitted query will output to <code>stdout</code> .
<code>--fastsyntax</code>	Delay expanding functions when parsing. May speed up processing for some queries
<code>-help, --help</code>	Display help message
<code>--help -v</code>	Display verbose help message
<code>--internal</code>	Run internal tests
<code>--legacy</code>	Use legacy import semantics (deprecated)

Other options (continued):

--leakcheck	Clean up memory since checking for memory leaks
--keywords	Outputs the lists of ECL reserved words to stdout (XML format)
-legacyimport	Use legacy import semantics (deprecated)
-legacywhen	Use legacy when/side-effects semantics (deprecated)
--logfile <file>	Write log to specified file
--logdetail= <i>n</i>	Set the level of detail in the log file
--maxErrors=< <i>n</i> >	Limit the number of errors, aborting on the <i>nth</i> (default = 5)
--metacache= <i>x</i>	Specify directory to store distributed meta information from the eclcc indexer. To disable the indexer, set to an empty value using "--metacache=". If omitted, the default location is .eclcc/metacache.
--nologfile	Do not write any log file
--nogpg	Do not run gpg to check signatures on signed code
--nosourcepath	Compile as if the source came from stdin
--nostdinc	Do not include the current directory in -I
-pch	Generate precompiled header for eclinclude4.hpp
-P <path>	Specify the path of the output files (only with -b option)
-showpaths	Print information about the search paths eclcc is using
-specs <file>	Read eclcc configuration from specified file
-split <i>m:n</i>	Process a subset <i>m</i> of <i>n</i> input files (only with -b option)
-v --verbose	Output additional tracing information while compiling
-wxxxx=level	Set the severity for a particular warning code or category. Valid options for level are: all ignore log warning error fail -wall sets default severity for all warnings
--version	Output version information
--timings	Output additional timing information

Compiled Options:

After you have successfully compiled the code, it produces an executable file. There are a few additional options that can be used when running that executable.

Usage: a.out <options>

-wu=<file>	Write XML formatted workunit to given filespec and exit
-xml	Display output as XML
-raw	Display output as binary
-limit=x	Limit number of output rows
--help	Display help text

Examples

The following example demonstrates what you can do once the ECL Compiler is installed and operational.

Running a basic ECL program using the command line compiler

Once the ECL Compiler is installed, you can use the ECL Compiler to run an ECL program.

- Create a file called `hello.ecl`, and type in the text

```
Output('Hello world');
```

(including the quotes) into the file.

You can either use your favorite editor, or you can use the command line by typing the following (for Windows systems):

```
echo Output('Hello world'); > hello.ecl
```

on a Linux system you would need to escape some characters as follows:

```
echo "Output('Hello world');" > hello.ecl
```

- Compile your program using the ECL Compiler by issuing the following command:

```
eclcc hello.ecl
```

- An executable file is created which you can run by typing the following:

on Linux systems:

```
./a.out
```

on Windows systems:

```
a.out
```

This will generate the output "Hello world" (excluding quotes), to the std output, your terminal window in this example. You can redirect or pipe the output to a file or program if you choose. This simple example will verify the compiler is working properly.

Compile with Options

Once verified that the ECL Compiler is working correctly, you can try using some of the options. One such variation might be to specify the `-o` option which allows us to input more meaningful output filename of `Hello`.

```
eclcc -oHello hello.ecl
```

This produces a file called "Hello", which can now be run from the command line.

on Linux systems:

```
./Hello
```

on Windows systems:

```
Hello
```

This will result in the output of the following.

```
Hello world
```

There are additional options that can be used when running the executable. Using our Hello program, as an example, we can execute it with an option to generate different output. One such option is the -xml option which generates the output in an XML format.

on Linux systems:

```
./Hello -xml
```

on Windows systems:

```
Hello -xml
```

This would result in the output of the following:

```
<Dataset name="Result 1"><Row><Result_1>Hello world</Result_1></Row></Dataset>
```

The following example provides a defined value passed to the compiler:

```
//file named hello2.ecl  
IMPORT ^ as repo;  
OUTPUT(repo.optionXX);
```

```
eclcc -Doptionxx='HELLO' hello2.ecl
```

This would result in the output of the following:

```
<Dataset name="Result 1"><Row><Result_1>HELLO</Result_1></Row></Dataset>
```


Command Line DFU

Command Line Interface


dfuplus [--version] action=operation [@filename]options]

<i>--version</i>	displays version info
<i>operation</i>	One of the following actions: spray, despray, copy, remove, rename, list, add, addsuper, copy-super, removesuper, listsuper, savexml, status, abort, resubmit, monitor, listhistory, and erase-history
<i>@filename</i>	Optional. The name of a file containing necessary <i>options</i> . If omitted and no command line <i>options</i> are specified, the appropriate <i>options</i> must be in the dfuplus.ini file in the same directory as the executable.
<i>options</i>	Optional. A space-delimited list of optional items (listed below) appropriate to the <i>operation</i> being executed. If omitted and no <i>@filename</i> is specified, the appropriate <i>options</i> must be in the dfuplus.ini file in the same directory as the executable.

The **dfuplus** executable accepts command line parameters to send to the Distributed File Utility (DFU) engine via the ESP server. These *options* can be specified on the command line, in the *@filename*, in the dfuplus.ini file in the same directory as the executable, or any combination.

Evaluation of options follows this order of precedence:

- command line
- @filename file
- ini file
- default value

	The dfuplus utility does not upload files to a landing zone. You must first upload any file(s) to your landing zone using either ECL Watch or a tool that supports a secure copy protocol, such as SCP or SFTP.
---	---

General Options:

The following *options* are common to every *operation*:

<i>server</i>	The URL (http:// or https://) and/or IP address of the ESP server. The port may also be included.
<i>username</i>	A userid with authorized access to the <i>server</i> .
<i>password</i>	The password authorizing access for the <i>username</i> .
<i>overwrite</i>	Optional. A boolean flag (0 1) indicating whether to overwrite any existing file of the same name. If omitted, the default is 0.
<i>replicate</i>	Optional. A boolean flag (1 0) indicating whether to replicate the file. If omitted, the default is 1.

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	This option is only available on systems where replication has been enabled.
<i>autorecover</i>	Optional. The number of times to attempt recovery of a failed <i>operation</i> . If omitted, the default is 0.
<i>nowait</i>	Optional. A boolean flag (0 1) indicating whether to return immediately without waiting for completion of the <i>operation</i> . If omitted, the default is 0.
<i>connect</i>	Optional. The number of simultaneous connections to limit the <i>operation</i> to. If omitted, the default is 25.
<i>throttle</i>	Optional. The transfer speed (in Mbits/second) to restrict the <i>operation</i> to. If omitted, the default is the best system speed in Linux and multiple-destination Windows, or the NIC speed of a single-destination Windows box.
<i>norecover</i>	Optional. A boolean flag (0 1) indicating whether to create or recover the <i>operation</i> from recovery information. If omitted, the default is 0.
<i>nosplit</i>	Optional. A boolean flag (0 1) indicating whether to split file parts to multiple target parts. If omitted, the default is 0.
<i>compress</i>	Optional. A boolean flag (0 1) indicating whether to compress the target file.
<i>push</i>	Optional. A boolean flag (0 1) indicating whether to override push/pull default.
<i>encrypt=<password></i>	Optional. Specifies to encrypt the target filename using the supplied password.
<i>decrypt=<password></i>	Optional. Specifies to decrypt the source filename using the supplied password.
<i>jobname=<jobname></i>	Specify a jobname for the DFU operation's workunit.
<i>transferbuffersize=nnn</i>	Optional. Overrides the DFU Server's buffer size value (default is 64k)

dfuplus.ini

Any *options* can be specified in a file called dfuplus.ini in the same directory as the executable. If your operating system is case-sensitive, make sure the filename is in lowercase. Options that rarely change can be put in the dfuplus.ini file. For example:

```
;The values below are examples, you should change them to match your platform deployment
server=http://10.150.50.12:8010
username=rlor
password=password
overwrite=1
replicate=1
```

In all the examples below, we'll assume dfuplus.ini has the above content.



We do not recommend storing your password in the ini file (which is clear text). The password is included in the ini file for these examples to simplify the example code.

Spray Operations:

The **spray** operation copies a file from the landing zone, distributing it across all the nodes of the destination HPCC Systems cluster.

These *options* are used by the **spray** operation:

srcip	Optional. The IP address of the source machine. If omitted, the information must be supplied by the <i>srcxml</i> parameter.
srcfile	Optional. The path to the source file. This may contain wildcard characters (*) and (?) to include multiple source files in the spray to a single <i>dstname</i> . If omitted, the information must be supplied by the <i>srcxml</i> parameter.
srcxml	The name of the XML file containing the information required for the <i>srcip</i> and <i>srcfile</i> parameters. This file may have been obtained by previous use of the <i>savexml operation</i> . This option provides the feature of combining multiple source files into a single resulting logical file in the HPCC Systems cluster.
dstname	The logical name of the destination file.
dstcluster	The name of the destination cluster.
prefix	Optional. Both of the following (separated by a comma):
filename{:length}	Prepends the filename (optionally limited to <i>length</i> characters) to the data.
filesize{:[:B L][1-8]}	Prepends the size of the file to the data. Optionally, you can specify the format of that integer (B specifies big endian, L specifies little endian) and the size of integer to contain it (1 to 8 bytes). If format and size are omitted, the default is L4. When using wildcard characters (*) and (?) to spray multiple source files (srcfile) to a single dstname, you MUST use both the filename and filesize options if you need to be able to despray the contents of each record in the dstname back to the multiple source files they originally came from. If you never need to do that, then the filesize option may be omitted.
<i>expireDays</i>	Optional. Specifies the file is a temporary file to be automatically deleted after the specified number of days since the file was read. If omitted, the default is -1 (never expires). If set to 0, the file is automatically deleted when it reaches the threshold set in Sasha Server's expiryDefault setting.

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<i>format</i>	Optional. One of the following values: fixed csv delimited xml recfmv recfmb If omitted, the default is fixed.
fixed format options:	
recordsize	The fixed size of each record, in bytes.
csv/delimited options:	
encoding	Optional. One of the following: ascii, utf8, utf8n, utf16, utf16le, utf16be, utf32, utf32le, utf32be ; If omitted, the default is ascii.
maxrecordsize	Optional. The maximum size of each record, in bytes. If omitted, the default is 8192.
separator	Optional. The field delimiter. If omitted, the default is a comma (`,`).
terminator	Optional. The record delimiter. If omitted, the default is line feed or carriage return line feed (`\r`,`\r\n`).
quote	Optional. The string quote character. If omitted, the default is single quote (`'`).
xml format options:	
rowtag	The XML tag identifying each record. Required.
encoding	Optional. One of the following: utf8 utf8n utf16 utf16le utf16be utf32 utf32le utf32be If omitted, the default is utf8.
maxrecordsize	Optional. The maximum size of each record, in bytes. If omitted, the default is 8192.

Examples:

```
//fixed spray example:
dfuplus action=spray srcip=10.150.50.14
        srcfile=/var/lib/HPCCSystems/mydropzone/timezones.txt dstname=RTTEMP::timezones.txt
        dstcluster=mythor format=fixed recordsize=155

//fixed spray example using a srcxml file:
dfuplus action=spray srcxml=/var/lib/HPCCSystems/mydropzone/flattimezones.xml
        dstname=RTTEMP::timezones.txt dstcluster=mythor recordsize=155

//csv spray example:
dfuplus action=spray srcip=10.150.50.14
        srcfile=/var/lib/HPCCSystems/mydropzone/timezones.csv dstname=RTTEMP::timezones.csv
        dstcluster=mythor format=csv

//the spray.xml file contains:
<File directory="/var/lib/HPCCSystems/mydropzone/"
  group="thor"
  modified="2004-04-27T14:58:38"
  name="zip"
  numparts="2"
  partmask="zip._$P$_of_$N$">
<Attr job="zip1"
  owner="rtaylor"
  recordSize="5"
  replicated="1"
  workunit="D20040427-111857"/>
<Part modified="2004-04-27T14:58:40"
  node="10.150.51.29"
  num="1"
  size="165"/>
<Part modified="2004-04-27T14:58:40"
  node="10.150.51.29"
  num="2"
  size="165"/>
</File>
```

```
//fixed spray example using the above spray.xml file to combine
// multiple source files into a single logical file
// in this case, zip._1_of_3, zip._2_of_3, and zip._3_of_3 into zip1:
dfuplus action=spray srcxml=spray.xml
        dstcluster=mythor dstname=RTTEMP::myzip1 recordsize=5

//xml spray example:
dfuplus action=spray srcip=10.150.50.14
        srcfile=/var/lib/HPCCSystems/mydropzone/timezones.xml dstname=RTTEMP::timezones.xml
        dstcluster=mythor format=xml rowtag=area

//Multiple spray all .JPG and .BMP files under
// /var/lib/HPCCSystems/mydropzone/ on 10.150.51.26 to single logical file LE::imagedb

dfuplus action=spray srcip=10.150.51.26
        srcfile=/var/lib/HPCCSystems/mydropzone/*.jpg,/var/lib/HPCCSystems/mydropzone/*.bmp
        dstcluster=mythor
        dstname=LE::imagedb
        overwrite=1
        prefix=FILENAME,FILESIZE nosplit=1
//this would result in a RECORD structure like this:
imageRecord := RECORD
STRING filename;
DATA image; //first 4 bytes contain the length of the image data
END;
```

Despray Operations:

The **despray** operation combines file parts from all the nodes of the cluster into a single file on the landing zone.

These *options* are used by the **despray** operation:

<i>srcname</i>	The logical name of the source file. This may contain wildcard characters (* and ?) to include multiple source files in the despray to a single <i>dstfile</i> .
<i>dstip</i>	Optional. The IP address of the destination machine. If omitted, the information must be supplied by the <i>dstxml</i> parameter.
<i>dstfile</i>	Optional. The path to the destination file. This may contain wildcard characters (* and ?) to despray a single <i>srcname</i> to multiple <i>dstfiles</i> . If omitted, the information must be supplied by the <i>dstxml</i> parameter.
<i>dstxml</i>	The name of the XML file containing the information required for the <i>dstip</i> and <i>dstfile</i> parameters. This file may have been obtained by previous use of the <i>savexml operation</i> . This option provides the feature of splitting a single resulting logical file in the cluster into multiple destination files.
<i>splitprefix</i>	Optional. Both of the following (separated by a comma):
filename{:length}	Uses the prepended filename (see the <i>prefix</i> option to the <i>spray operation</i>) to split out the data into separate files.
filesize{:B L}[1-8]}	Uses the prepended size of the file (see the <i>prefix</i> option to the <i>spray operation</i>) to split out the data into separate files. When using wildcard characters (* and ?) to spray multiple source files (srcfile) to a single dstname, you MUST use both the filename and filesize options if you need to be able to despray the contents of each record in the dstname back to the multiple source files they originally came from. If you never need to do that, then the filesize option may be omitted.

Examples:

```
dfuplus action=despray dstip=10.150.50.14
  dstfile=/var/lib/HPCCSystems/mydropzone/timezones.txt srcname=RTTEMP::timezones.txt
//the spray.xml file contains:
<File directory="/var/lib/HPCCSystems/mydropzone/"
  group="thor"
  modified="2004-04-27T14:58:38"
  name="zip"
  numparts="2"
  partmask="zip._$P$_of_$N$">
<Attr job="zip1"
  owner="rtaylor"
  recordSize="5"
  replicated="1"
  workunit="D20040427-111857"/>
<Part modified="2004-04-27T14:58:40"
  node="10.150.51.29"
  num="1"
  size="165"/>
<Part modified="2004-04-27T14:58:40"
  node="10.150.51.29"
  num="2"
  size="165"/>
</File>
//despray example using the above spray.xml file to split a single
// logical file into multiple destination files
// in this case, zip._1_of_3, zip._2_of_3, and zip._3_of_3 from zip1:
dfuplus action=despray dstxml=spray.xml dstcluster=mythor
  srcname=RTTEMP::myzip1

//from a RECORD structure that looks like this:
imageRecord := RECORD
STRING filename;
DATA image; //first 4 bytes contain the length of the image data
  END;

//you can despray into its component files like this:
dfuplus action=dspray srcname=le::imagedb
  dstip=10.150.51.26 dstfile=/var/lib/HPCCSystems/mydropzone/
  splitprefix=FILENAME,FILESIZE
```

Copy Operations:

The **copy** operation copies a logical file (all file parts from all the nodes of the cluster), typically from one cluster to another. It appropriately handles re-distributing the file parts if the source and destination clusters do not have the same number of nodes.

The copy operation can also be used to copy files from other HPCC Systems environments (using the *srcdali* option). This is also known as a remote copy. For a remote copy of a file that contains a variable length field, you must include the **nosplit** option.

To copy a superfile and retain its structure, use the **copysuper** operation. If you use the copy operation for a superfile, it consolidates all the superfile content into a single logical file on the target, not a superfile. This is not valid for a superfile containing INDEXes and will produce an error.

These *options* are used by the **copy** operation:

srcname	The logical name of the source file.
dstname	The logical name of the destination file.
dstcluster	The name of the destination cluster.

<i>srcdali</i>	Optional. The IP address of the source Dali server, if different from the destination Dali (associated with the ESP Server specified in the <i>server</i> option).
<i>srcusername</i>	Optional. The username to use to access the <i>srcdali</i> . If omitted, the General Options <i>username</i> is used.
<i>srcpassword</i>	Optional. The password to use to access the <i>srcdali</i> . If omitted, the General Options <i>password</i> is used.
<i>preservecompression</i>	Optional. A boolean flag (0 1) indicating whether to preserve the compression of the source file. If omitted, the default is 1.

Example:

```
dfuplus action=copy srcname=RTTEMP::timezones.txt
          dstname=RTTEMP::COPY::timezones.txt
          dstcluster=mythor
```

Remove Operations:

The **remove** operation deletes a logical file from the system data store, optionally leaving the physical files in place.

These *options* are used by the **remove** operation:

<i>name</i>	The logical name of the file to remove.
-------------	---

Example:

```
dfuplus action=remove name=RTTEMP::timezones.txt
```

Rename Operations:

The **rename** operation renames a logical file in the system data store.

These *options* are used by the **rename** operation:

<i>srcname</i>	The logical name of the source file.
<i>dstname</i>	The logical name of the destination file.

Example:

```
dfuplus action=rename srcname=RTTEMP::timezones.txt dstname=RTTEMP::NewTimezones.txt
```

List Operations:

The **list** operation produces a list of logical files in the system data store.

These *options* are used by the **list** operation:

<i>name</i>	The mask defining the logical file names to list.
-------------	---

Example:

```
dfuplus action=list name=*
```

Add Operations:

The **add** operation adds a new logical file to the system data store.

This also allows you to restore a superfile whose information was previously exported using the `savexml` action. This is especially useful in a Cloud implementation where files are stored in a bucket until a new instance is started.

These *options* are used by the **add** operation:

<i>srcxml</i>	The path and name of the source XML file containing exported logical or superfile information (typically from a previous <code>savexml</code> operation).
<i>dstname</i>	The logical name of the destination file.

These *options* are used by the **add** operation to add files from a remote Dali:

<i>dstname</i>	The logical name of the destination file.
<i>srcname</i>	The logical name of the source file.
<i>srcdali</i>	The IP address of the source Dali server.
<i>srcusername</i>	Optional. The username to use to access the <i>srcdali</i> . If omitted, the General Options <i>username</i> is used.
<i>srcpassword</i>	Optional. The password to use to access the <i>srcdali</i> . If omitted, the General Options <i>password</i> is used.

Example:

```
dfuplus action=add srcxml=flattimezones.xml dstname=flattimezones.txt
dfuplus action=add srcxml=exportedMysuper.xml dstname=Mysuper
```

Addsuper Operations:

The **addsuper** operation adds subfiles to an existing superfile (see the *SuperFile Management* section of the *Service Library Reference*).

These *options* are used by the **addsuper** operation:

<i>superfile</i>	The logical name of the superfile.
<i>subfiles</i>	A comma-delimited list of the logical names of files to add to the superfile. There must be no spaces between the names.
<i>before</i>	Optional. The logical name of the subfile to follow the added <i>subfiles</i> . If omitted, the <i>subfiles</i> are added to the end.

Example:

```
dfuplus action=addsuper superfile=mysuper subfiles=file1,file2
```

Removesuper Operations:

The **removesuper** operation removes subfiles to an existing superfile (see the *SuperFile Management* section of the *Service Library Reference*).

These *options* are used by the **removesuper** operation:

<i>superfile</i>	The logical name of the superfile.
<i>subfiles</i>	Optional. A comma-delimited list of the logical names of files to remove from the superfile. There must be no spaces between the names. If omitted, all files are removed from the superfile.

<i>delete</i>	Optional. A boolean flag (1 0) indicating whether to physically delete the <i>subfiles</i> in addition to removing them from the superfile. If omitted, the default is 1--physically delete.
---------------	--

Example:

```
dfuplus action=removesuper superfile=mysuper subfiles=file1,file2
```

Copysuper Operations:

The **copysuper** operation copies a superfile from one cluster to another.

These *options* are used by the **copysuper** operation:

<i>srcname</i> =<source-super-name>	The logical name of the source superfile.
<i>dstname</i> =<destination-super-name>	The logical name of the destination superfile.
<i>dstcluster</i> =<cluster-name>	The name of the destination cluster.
<i>srcdali</i>	The hostname or IP of the source Dali server.
<i>srcusername</i>	Optional, The username to use for the source environment.
<i>srcpassword</i>	Optional, The password to use for the source environment.

Example:

```
dfuplus action=copysuper srcname=jd::super1 dstname=jd::super2 dstcluster=mythor srcdali=.
```

ListsUPER Operations:

The **listsUPER** operation lists the subfiles in an existing superfile (see the *SuperFile Management* section of the *Service Library Reference*).

These *options* are used by the **listsUPER** operation:

<i>superfile</i>	The logical name of the superfile.
------------------	------------------------------------

Example:

```
dfuplus action=listsUPER superfile=mysuper
```

Status Operations:

The **status** operation returns the current operational status of a workunit.

These *options* are used by the **status** operation:

<i>wuid</i>	The workunit identifier of the workunit.
-------------	--

Example:

```
dfuplus action=status wuid=W20050309-093020
```

Abort Operations:

The **abort** operation aborts execution of a workunit.

These *options* are used by the **abort** operation:

<i>wuid</i>	The workunit identifier of the workunit.
-------------	--

Example:

```
dfuplus action=abort wuid=W20050309-093020
```

Resubmit Operations:

The **resubmit** operation re-submits a workunit.

These *options* are used by the **resubmit** operation:

<i>wuid</i>	The workunit identifier of the workunit.
-------------	--

Example:

```
dfuplus action=resubmit wuid=W20050309-093020
```

Savexml Operations:

The **savexml** operation saves the logical file map to an XML file.

This feature also allows you to export the metadata from a superfile and then use it later to restore a superfile. This is especially useful in an Cloud implementation where files are stored in a bucket until a new instance is started.

These *options* are used by the **savexml** operation:

srcname The logical name of the source file.

<i>srcname</i>	The logical name of the source file. This can be the logical name of a superfile.
<i>dstxml</i>	Optional. The logical name of the destination XML file. If omitted, the XML result is sent to stdout.

Example:

```
dfuplus action=savexml srcname=rttemp::timezones.txt
      dstxml=flattimezones.xml
// this results in the following XML file:
<File directory="/var/lib/HPCCSystems/hpcc-data/thor/rttemp"
  group="thor"
  modified="2004-06-18T14:17:16"
  name="timezones.txt"
  numparts="3"
  partmask="timezones.txt._$P$_of_$N$">
  <Attr job="timezones.txt"
    owner="rtaylor"
    recordSize="155"
    replicated="1"
    size="51305"
    workunit="D20040618-101716"/>
  <OrigName>rttemp::timezones.txt</OrigName>
  <Part modified="2004-06-18T14:17:18"
    node="10.150.50.15"
    num="1"
```

```

        size="17050" />
    <Part modified="2004-06-18T14:17:17"
        node="10.150.50.18"
        num="2"
        size="17050" />
    <Part modified="2004-06-18T14:17:17"
        node="10.150.50.16"
        num="3"
        size="17205" />
</File>

```

Monitor Operations:

The **monitor** operation initiates a DFU workunit to monitor the appearance of a physical or logical file and trigger an event when that file appears.

These *options* are used by the **monitor** operation:

<i>event</i>	The name of the user-defined event to trigger. This is used as the first parameter of the ECL EVENT function.
<i>lfn</i>	Optional. The name of the logical file in the DFU to look for. Using this option precludes using the <i>ip</i> , <i>file</i> , and <i>sub</i> options.
<i>ip</i>	Optional. The IP address or name of the server on which the physical file will reside. This may be omitted if the <i>file</i> option contains a full URL.
<i>file</i>	Optional. The fully qualified path of the physical file to look for. This may contain wildcard characters (* and ?).
<i>sub</i>	Optional. Specifies searching subdirectories for the physical file if the <i>file</i> option contains wildcard characters (* and ?).
<i>shotlimit</i>	Optional. The number of arrival events to generate before marking the DFU workunit as complete. A value of negative one (-1) indicates continuing until the workunit is manually aborted. If omitted, the default value is one (1).

Note the following caveats and restrictions:

- 1) If a matching file already exists when the DFU Monitoring job is started, that file will not generate an event. It will only generate an event once the file has been deleted and recreated.
- 2) If a file is created and then deleted (or deleted then re-created) between polling intervals, it will not be seen by the monitor and will not trigger an event.
- 3) Events are only generated on the polling interval.
- 4) Note that the *event* is generated if the physical file has been created since the last polling interval. Therefore, the *event* may occur before the file is closed and the data all written. To ensure the file is not subsequently read before it is complete you should use a technique that will preclude this possibility, such as using a separate 'flag' file instead of the file, itself or renaming the file once it has been created and completely written.
- 5) The EVENT function's subtype parameter (its 2nd parameter) when monitoring physical files is the full URL of the file, with an absolute IP rather than DNS/netbios name of the file. This parameter cannot be retrieved but can only be used for matching a particular value in this.

Example:

```

dfuplus action=monitor event=MyEvent ip=edata10 file=/var/lib/HPCCSystems/mydropzone/arr.txt
dfuplus action=monitor event=MyEvent ip=10.150.10.75
        file=/var/lib/HPCCSystems/mydropzone/* shotlimit=-1 sub=1

```

```
dfuplus action=monitor event=MyEvent file=//10.15.13.21/var/lib/HPCCSystems/mydropzone/*.txt  
dfuplus action=monitor event=MyEvent lfn=RTTEMP::OUT::MyFile
```

Listhistory Operations:

The listhistory operation returns the history metadata in a logical file.

History metadata is created from a copy, remote copy, or spray operation.

<i>lfn</i>	The logical file name of the source file
<i>outformat</i>	Optional. The format of the result. Valid options are: csv, xml, json, or ascii. The default is xml.
<i>csvheader</i>	Optional. A boolean flag (0 1) indicating whether to include header information in the first row when outputting in csv format.

Example:

```
dfuplus action=listhistory lfn=progguide::exampledata::accounts  
// this results in the following XML file:  
<History>  
  <Origin ip="127.0.0.1"  
    name="accounts"  
    operation="DFUcopy"  
    owner="EmilyKate"  
    path="/var/lib/HPCCSystems/hpcc-data/thor/progguide/exampledata/"  
    timestamp="2017-05-11T16:47:32"  
    workunit="W20170503-143100"/>  
</History>
```

Erasehistory Operations:

The erasehistory operation removes the history metadata from a logical file.

History metadata is created from a copy, remote copy, or spray operation.

Note: If LDAP authentication is enabled on the system, you must have FULL permission for DFUAccess in order to erase history. See the HPCC Systems Administrator's Guide for details.

<i>lfn</i>	The logical file name of the source file
<i>backup</i>	Optional. A boolean flag (0 1) indicating whether to write the history to a file before erasing it. Default is 1 (enable).
<i>dstxml</i>	The logical name of the destination XML file. Required if backup is set to 1,

Example:

```
dfuplus action=erasehistory lfn=progguide::exampledata::accounts_copy dstxml=c:\temp\jim.xml  
  
// this removes the history metadata from the file and writes an XML file containing the following:  
<History>  
  <Origin ip="127.0.0.1"  
    name="accounts"  
    operation="DFUcopy"  
    owner="EmilyKate"  
    path="/var/lib/HPCCSystems/hpcc-data/thor/progguide/exampledata/"  
    timestamp="2017-05-11T16:47:32"  
    workunit="W20170503-143100"/>  
</History>
```



ESDL Command Line Interface

The ESDL Command Syntax

esdl [--version] <command> [<options>]

<i>--version</i>	displays version info.
<i>help <command></i>	displays help for the specified command.
<i>xml</i>	Generate XML from ESDL definition.
<i>ecl</i>	Generate ECL from ESDL definition.
<i>xsd</i>	Generate XSD from ESDL definition.
<i>wsdl</i>	Generate WSDL from ESDL definition.
<i>publish</i>	Publish ESDL Definition for ESP use.
<i>list-definitions</i>	List all ESDL definitions.
<i>delete</i>	Delete ESDL Definition.
<i>bind-service</i>	Configure ESDL based service on target ESP (with existing ESP Binding).
<i>list-bindings</i>	List all ESDL bindings.
<i>unbind-service</i>	Remove ESDL based service binding on target ESP.
<i>bind-method</i>	Configure method associated with existing ESDL binding.
<i>unbind-method</i>	Remove method from an ESDL binding on a target ESP.
<i>get-binding</i>	Get ESDL binding.
<i>get</i>	Get ESDL definition.

esdl xml

esdl xml [**options**] **filename.ecm** [<**outdir**>]

<i>filename.ecm</i>	The file containing the ESDL definitions
<i>-r/--recursive</i>	process all includes
<i>-v/--verbose</i>	display verbose information
<i>-?/-h/--help</i>	show usage page
Output	(srcdir <outdir>)/filename.xml

This generates XML from the ESDL definition. This XML is an intermediate entity used by the ESDL Engine to create the runtime service definitions. This command is rarely used by itself.

Examples:

```
esdl xml MathService.ecm .
```

esdl ecl

esdl ecl sourcePath outputPath [options].

<i>sourcePath</i>	The absolute path to the ESDL Definition file containing the EsdlService definition for the service.
<i>outputPath</i>	The absolute path to the location where ECL output is to be written.
<i>-x, --expandedxml</i>	Output expanded XML files.
<i>--includes</i>	If present, process all included files.
<i>--rollup</i>	If present, rollup all processed includes to a single ECL output file.
<i>-cde</i>	Specifies the HPCC Systems Component files directory (location of xslt files).
<i>--ecl-imports</i>	Comma-delimited import list to be attached to the output ECL. Each entry generates a corresponding IMPORT statement.
<i>--ecl-header</i>	Text to include in header or target (generated) file (must be valid ECL).
Output	(sourcePath outputPath>)/filename.ecl

This generates ECL structures from ESDL definition. These structures create the interface (entry and exit points) to the Roxie query.

Examples:

```
esdl ecl MathService.ecm .
```


esdl xsd

esdl xsd sourcePath serviceName [options]

<i>sourcePath</i>	The absolute path to the ESDL Definition file containing the EsdlService definition for the service.
<i>serviceName</i>	Name of ESDL Service defined in the given ESDL file.
<i>--version <version number></i>	Constrain to interface version
<i>--method <method name>[;<method name>]*</i>	Constrain to list of specific method(s)
<i>--xslt <xslt file path></i>	Path to '/xslt/esxd12xsd.xslt' file to transform EsdlDef to XSD
<i>--preprocess-output <raw output directory> :</i>	Output preprocessed XML file to specified directory before applying XSLT transform
<i>--annotate <all none></i>	Flag turning on either all annotations or none. By default, annotations are generated for Enumerations. Setting the flag to 'none' will disable those as well. Setting it to 'all' enables additional annotations such as collapsed, cols, form_ui, html_head and rows.
<i>--noopt</i>	Turns off the enforcement of 'optional' attributes on elements. If no --noopt is specified then all elements with an 'optional' are included in the output. By default 'optional' filtering is enforced.
<i>-opt,--optional <param value></i>	Value to use for optional tag filter when gathering dependencies. For example, passing 'internal' when some ESDL definition objects have the attribute optional("internal") ensures they appear in the XSD, otherwise they'd be filtered out
<i>-tns,--target-namespace <target namespace></i>	The target namespace passed to the transform via the parameter 'tnsParam' used for the final output of the XSD.
<i>-n <int> .</i>	Number of times to run transform after loading XSLT. Defaults to 1
<i>--show-inheritance</i>	Turns off the collapse feature. Collapsing optimizes the XML output to strip out structures only used for inheritance, and collapses their elements into their child. That simplifies the stylesheet. By default this option is on
<i>--no-arrayof</i>	Supresses the use of the arrayOf element. arrayOf optimizes the XML output to include 'ArrayOf...' structure definitions for those EsdlArray elements with no item_tag attribute. Works in conjunction with an optimized stylesheet that doesn't generate these itself. This defaults to on.
<i>-v/--verbose</i>	display verbose information
<i>-?/-h/--help</i>	show usage page
Output	(srcdir <outdir>)/filename.ecl

This generates XSD from the ESDL definition.

Examples:

```
esdl xsd MathService.ecm MathService
```

esdl wsd

esdl wsd *sourcePath* *serviceName* [*options*]

<i>sourcePath</i>	The absolute path to the ESDL Definition file containing the EsdlService definition for the service.
<i>serviceName</i>	Name of ESDL Service defined in the given ESDL file.
<i>--version</i> <version number>	Constrain to interface version
<i>--method</i> <method name>[;<method name>]*	Constrain to list of specific method(s)
<i>--xslt</i> <xslt file path>	Path to '/xslt/esxd12xsd.xslt' file to transform EsdlDef to XSD
<i>--preprocess-output</i> <raw output directory> :	Output preprocessed XML file to specified directory before applying XSLT transform
<i>--annotate</i> <all none>	Flag turning on either all annotations or none. By default, annotations are generated for Enumerations. Setting the flag to 'none' will disable those as well. Setting it to 'all' enables additional annotations such as collapsed, cols, form_ui, html_head and rows.
<i>--noopt</i>	Turns off the enforcement of 'optional' attributes on elements. If no <i>--noopt</i> is specified then all elements with an 'optional' are included in the output. By default 'optional' filtering is enforced.
<i>-opt,--optional</i> <param value>	Value to use for optional tag filter when gathering dependencies. For example, passing 'internal' when some ESDL definition objects have the attribute optional("internal") ensures they appear in the XSD, otherwise they'd be filtered out
<i>-tns,--target-namespace</i> <target namespace>	The target namespace passed to the transform via the parameter 'tnsParam' used for the final output of the XSD.
<i>-n</i> <int> .	Number of times to run transform after loading XSLT. Defaults to 1
<i>--show-inheritance</i>	Turns off the collapse feature. Collapsing optimizes the XML output to strip out structures only used for inheritance, and collapses their elements into their child. That simplifies the stylesheet. By default this option is on
<i>--no-arrayof</i>	Supresses the use of the arrayOf element. arrayOf optimizes the XML output to include 'ArrayOf...' structure definitions for those EsdlArray elements with no item_tag attribute. Works in conjunction with an optimized stylesheet that doesn't generate these itself. This defaults to on.
<i>--wsdladdress</i>	Defines the output WSDL file's location address
<i>-v/--verbose</i>	display verbose information
<i>-?/-h/--help</i>	show usage page
Output	(srcdir <outdir>)/filename.ecf

This generates WSDL from ESDL definition.

Examples:

```
esdl wsd MathService.ecm MathService
```

esdl publish

esdl publish <filename.(ecm|esdl|xml)> <servicename> [options]

filename	The ESDL (*.ecm, *.esdl, or *.xml) file containing the service definitions.
servicename	The name of the service to publish. Optional if the ESDL definition contains only one service.
--overwrite	Overwrite the latest version of this ESDL Definition
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--help	display usage information for the given command
-v, --verbose	Output additional tracing information

Publishes an ESDL service definition to the system datastore.

Examples:

```
esdl publish MathService.ecm MathService -s nnn.nnn.nnn.nnn --port 8010
```

esdl list-definitions

esdl list-definitions [options]

-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--version <ver>	ESDL service version
--help	display usage information for the given command
-v, --verbose	Output additional tracing information

This command lists published definitions

Example:

```
esdl list-definitions -s nnn.nnn.nnn.nnn --port 8010
```

esdl delete

esdl delete <ESDLDefinitionID> [options]

ESDLDefinitionID	The ID of the ESDL service definition to delete
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--version <ver>	ESDL service version
--help	display usage information for the given command
-v, --verbose	Output additional tracing information

Use this command to delete an ESDL Service definition. If the Service definition is bound, you must first unbind it.

Example:

```
esdl delete MathService.2 -s nnn.nnn.nnn.nnn --port 8010
```

esdl bind-service

esdl bind-service <TargetESPProcessName> <TargetESPBindingPort> <ESDLDefinitionId> (<ESDLServiceName>) [command options]

TargetESPProcessName	The target ESP Process name
TargetESPBindingPort TargetESPServiceName	Either target ESP binding port or the target ESP service name
ESDLDefinitionId	The Name and version of the ESDL definition to bind to this service (must already be defined in Dali)
ESDLServiceName	The Name of the ESDL Service (as defined in the ESDL Definition) Required if ESDL definition contains multiple services
--config <file XML>	Configuration XML (either inline or as a file reference)
--overwrite	Overwrite the latest version of this ESDL Definition
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--version <ver>	ESDL service version
--help	display usage information for the given command
-v, --verbose	Output additional tracing information

Use this command to bind a Dynamic ESDL-based ESP service to an ESDL definition.

To bind an ESDL Service, provide the target ESP process name (ESP Process which will host the ESP Service as defined in the ESDL Definition.)

You must also provide either the port on which this service is configured to run (ESP Binding) or the name of the service you are binding.

Optionally provide configuration information either directly inline or using a configuration file XML in the following syntax:

```
<Methods>
  <Method name="myMthd1" url="<RoxieIPRange>:9876/path?param=value" user="me" password="mypw" />
  <Method name="myMthd2" url="<RoxieIPRange>:9876/path?param=value" user="me" password="mypw" />
</Methods>
```

Example:

```
esdl bind-service myesp 8003 MathService.1 MathService --config MathSvcCfg.xml
-s nnn.nnn.nnn.nnn -p 8010
```

Configuring ESDL binding methods

The ESDL binding methods can optionally provide context information to the target ECL query. The way this information is configured, is by appending child elements to the Method (<Method>...</Method>) portion of the ESDL Binding.

For example, the following XML provides a sample ESDL Binding.

```
<Methods>
  <Method name="AddThis" url="<RoxieIPRange>:9876" querytype="roxie" queryname="AddThis"/>
</Methods>
```

If this Method requires context information, for example about gateways, then you could include the Gateways Structure (<Gateways>...</Gateways>) depicted as follows.

```
<Methods>
  <Method name="AddThis" url="<RoxieIPRange>:9876" querytype="roxie" queryname="AddThis">
    <!--Optional Method Context Information start-->
    <Gateways>
      <Gateway name="mygateway" url="1.1.1.1:2222/someservice/somemethod/">
      <Gateway name="anothergateway" url="2.2.2.2:9999/someservice/somemethod/">
    </Gateways>
    <!--Optional Method Context Information end-->
  </Method>
</Methods>
```

The DESDL ESP does not pose any restrictions on the layout of this information, only that it is valid XML. This provides the flexibility to include context information in any valid XML format.

Roxie (query) ECL developers need to decide what information they will need from the ESP request and design how that information is laid-out in the ESP request and ESDL binding configuration.

In the following example, every "AddThis" request processed by the ESP and sent to Roxie would contain the sample gateway information in the request context.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
<soap:Body>
  <roxie.AddThis>
    <Context>
      <Row>
        <Common>
          <ESP>
            <ServiceName>wsmath</ServiceName>
            <Config>
              <Method name="AddThis" url="<RoxieIPRange>:9876" querytype="roxie" queryname="AddThis">
                <Gateways>
                  <Gateway name="mygateway" url="1.1.1.1:2222/someservice/somemethod/">
                  <Gateway name="anothergateway" url="2.2.2.2:9999/someservice/somemethod/">
                </Gateways>
              </Method>
            </Config>
          </ESP>
          <TransactionId>sometrxd</TransactionId>
        </Common>
      </Row>
    </Context>
    <AddThisRequest>
      <Row>
        <Number1>34</Number1>
        <Number2>232</Number2>
      </Row>
    </AddThisRequest>
  </roxie.AddThis>
</soap:Body>
</soap:Envelope>
```

The ECL query consumes this information and is free to do whatever it needs to with it. In some instances, the query needs to send a request to a gateway in order to properly process the current request. It can interrogate the context information for the appropriate gateway's connection information, then use that information to create the actual gateway request connection.

Configuring ESDL binding for Proxy Mode methods

You can specify that ESDL service methods be proxied to another ESP instance. Set up the proxy in the dynamic configuration associated with the dESDL service.

Under the Methods tag where you would add Method tags, you can also add Proxy tags, as shown here:

```
<Methods>
  <Method name="myMethod" url="http://10.45.22.1:292/somepath" />
  <Method name="myMethod2" url="http://10.45.22.1:292/somepath" />
  <Proxy method="myMethod3" forwardTo="http://10.45.22.1:292" />
  <Proxy method="myWild*" forwardTo="http://10.45.22.1:292" />
</Methods>
```

The Proxy tag also supports wildcards:

```
<Proxy method="myWild*" forwardTo="http://10.45.22.1:292" />
```

This example binds all methods matching the pattern: myWild*

esdl list-bindings

esdl list-bindings [options]

-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--version <ver>	ESDL service version
--help	display usage information for the given command
-v, --verbose	Output additional tracing information

Use this command to list bindings on a server.

Example:

```
esdl list-bindings -s nnn.nnn.nnn.nnn -p 8010
```

esdl unbind-service

esdl unbind-service <ESPBindingID> [options]

ESPBindingID	The ESDL Binding ID
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--version <ver>	ESDL service version
--help	display usage information for the given command
-v, --verbose	Output additional tracing information

Use this command to unbind ESDL service based bindings.

To unbind a given ESDL binding, provide the ESP process name and the ESDL binding ID

Available ESDL bindings to unbind can be found using the "esdl list-bindings" command

Example:

```
esdl unbind-service myesp.8003.MathService
```

esdl bind-method

esdl bind-method <TargetESDLBindingID> <TargetMethodName> [options]

TargetESDLBindingID	The id of the target ESDL binding (must exist in Dali)
TargetMethodName	The name of the target method (must exist in the service ESDL definition)
--config <file XML>	Configuration XML (either inline or as a file reference)
--overwrite	Overwrite the latest version of this ESDL Definition
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--version <ver>	ESDL service version
--help	display usage information for the given command
-v, --verbose	Output additional tracing information

Use this command to publish ESDL Service based bindings.

To bind an ESDL Service, provide the target ESP process name (ESP Process which will host the ESP Service as defined in the ESDL Definition.)

You must also provide the port on which this service is configured to run (ESP Binding), and the name of the service you are binding.

Optionally provide configuration information either directly inline or using a configuration file XML in the following syntax:

```
<Methods>
  <Method name="myMthd1" url="http://<RoxieIPRange>:9876/path?param=value" user="me" password="mypw"/>
  <Method name="myMthd2" url="http://<RoxieIPRange>:9876/path?param=value" user="me" password="mypw"/>
</Methods>
```

Example:

```
esdl bind-method myesp.8003.MathService AddThis --config myMethods.xml
```

esdl unbind-method

esdl unbind-method <ESDLBindingID> <MethodName> [options]

ESDLBindingID	The ID of the ESDL Binding
MethodName	The name of the target method (must exist in the service ESDL definition)
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--version <ver>	ESDL service version
--help	display usage information for the given command
-v, --verbose	Output additional tracing information

Use this command to unbind a method configuration associated with a given ESDL binding. To unbind a method, provide the ID of the ESDL binding and the name of the method you are unbinding.

Example:

```
esdl unbind-method myesp.8003.MathService AddThis
```

esdl get-binding

esdl get-binding <ESDLBindingId> [options]

ESDLBindingId	The target ESDL binding id <ESPProcessName>.<Port>.<ServiceName>
-s, --server	The IP Address or hostname of ESP server running ECL Watch services
--port	The ECL Watch services port (Default is 8010)
-u, --username	The username (if necessary)
-pw, --password	The password (if necessary)
--version <ver>	ESDL service version
--help	display usage information for the given command
-v, --verbose	Output additional tracing information

Use this command to get DESDL Service based bindings.

To specify the target DESDL based service configuration, provide the target ID of the ESDL binding, which is normally in the format <ESPProcessName>.<Port>.<ServiceName>

Example:

```
esdl get-binding myesp.8003.MathService -s nnn.nnn.nnn.nnn -p 8010
```