

dispatch-courier

A utility to watch a directory or database for newly created files or rows and forward them to the Bryx Cloud for use in Mobile or Station Alerting.

Installation and Setup

This is a standalone command line executable. Command-line arguments or a configuration file can be used to augment the application's behavior. For Windows-based systems, we recommend using our simple wrapper software available at <https://downloads.bryx.com/dispatch-courier>.

In database-watching mode, observations are periodically made via a query of the form:

```
SELECT * FROM {Table} WHERE {DateCol} > {Timestamp Of Last Query}
```

Alternatively, it can run a user-supplied query. This query can be a `SELECT` with any clauses, but there **MUST** be a `WHERE` clause of the form:

```
WHERE [DateTimeColumn] > @DateVal
```

Where `[DateTimeColumn]` matches the table's schema. `@DateVal` should be present verbatim - this will be replaced by the Dispatch Courier software based on the system's time and polling interval.

The datetime column selection minimizes server impact by ensuring the query results will only contain records that have been modified/created since the last query. The polling interval is configurable as well, see below.

Custom queries can also be used without `WHERE` clauses by adding `-nowhere` to the database type string in the configuration file, see below.

Usage

```
dispatch-courier --path /tmp/cad -t "mytoken" -d "destid"
```

Authentication

This software requires two pieces of authentication information, provided by Bryx:

- The *Provider Token* identifies and authenticates a particular data provider, this should be kept secret
- The *Destination ID* determines how the data should be processed by the Bryx system and to which agency or agencies the resulting data should be linked

Options

Three arguments are required: `path`, `provider-token`, and `destination-id`. Other options can change the behavior of `dispatch-courier` to meet your particular needs.

<code>-h --help</code>	Print help information
<code>-p --path</code>	The path to monitor
<code>-t --provider-token</code>	Provider token (provided by Bryx)
<code>-d --destination-id</code>	Destination ID (provided by Bryx)
<code>--processing</code>	Path to move files to for processing
<code>--keep</code>	Leave files at the monitor path in place
<code>--disable-ssl-verification</code>	Disable SSL certificate verification
<code>--workers</code>	Number of worker threads. Default: 10
<code>-l --log-file</code>	Logfile name
<code>--no-scan</code>	Do not scan the monitored directory for existing files on startup.
<code>--server</code>	Bryx destination. Change only if instructed to by Bryx support. Default: <code>bryx911.com</code>
<code>--database-mode</code>	Enable database watching mode. This allows for polling a MySQL/MS SQL database for changes instead of file creation events.
<code>--db-type</code>	Target database type. This will be either <code>'mssql'</code> , <code>'mysql'</code> , <code>'mssql-nowhere'</code> , or <code>'mysql-nowhere'</code> , as appropriate. (required for database mode)
<code>--db-host</code>	Target database hostname. This can be an IP address or a true hostname, as dictated by your network configuration. (required for database mode)
<code>--db-port</code>	Target database access port. If omitted, this defaults to the appropriate default port for the specified database type (1443 or 3306).
<code>--db-user</code>	Username to authenticate as to connect to the database. (required for database mode)
<code>--db-password</code>	Password to authenticate the provided username to connect to the database, if required.
<code>--db-name</code>	Target database name, in which the target table resides. (required for database mode)
<code>--db-table</code>	Target database table to observe for changes. (required for database mode without a query)
<code>--db-polling-interval</code>	How often, in seconds, to query the database for changes. If omitted, the default is 5 seconds.
<code>--db-date-col</code>	Column in the provided table that is of type <code>'datetime'</code> or <code>'time'</code> , etc. Queries are made to find changes since the timestamp of the last

<code>--db-query</code>	<p>poll to reduce affected rows. (required for database mode without a query)</p> <p>A custom database query to run to find affected rows. See the above section for details.</p>
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In file watching mode, the service only processes files when they are created.

Alternatively, a configuration file can be used to specify multiple options at once for convenience. A `config.json` file in the same working directory as the executable provides for this. Each key in the JSON document corresponds to the command-line name. An example configuration for file watching mode and database mode are provided below.

```
{
  "server": "bryx911.com",
  "providerToken": "12345",
  "destinationId": "67890",
  "databaseMode": true,
  "databaseType": "mssql",
  "databaseHost": "my-db.database.windows.net",
  "databaseUser": "root",
  "databasePassword": null,
  "databaseName": "test",
  "databaseTable": "tableToWatch",
  "databaseDateCol": "timestamp"
  // or "databaseQuery": "SELECT * FROM table WHERE timestampcol > @DateVal"
}

{
  "server": "bryx911.com",
  "providerToken": "12345",
  "destinationId": "67890",
  "path": "/tmp/cad",
  "processing": "/share/cad-dump/",
  "keep": true,
  "noScan": true,
  "logFile": "log.txt"
}
```

For assistance in generating a configuration file, contact Bryx Support. A configuration editor GUI is available when using the wrapper software referenced in the introduction of this document.

Bug Reporting

Please submit any issues with logs to support@bryx.com.