



DOMINO API DOCUMENTATION

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CONTENTS

1	Using domino-cli Client	3
2	Interactive CLI mode	5
3	Indices and tables	7



Contents:



USING DOMINO-CLI CLIENT

Prerequisites:

1. Make sure that domino-cli.py is in +x mode.
2. Change directory to where domino-cli.py, DominoClient.py and DominoServer.py are located or include file path in the PATH environment variable.
3. Start the Domino Server:

```
./DominoServer.py --log=debug
```

4. Start the Domino Client:

```
./DominoClient.py -p <portnumber> --log=debug
```

Note1: The default log level is WARNING and omitting -log option will lead to minimal/no logging on the console

Note2: domino_conf.py file includes most of the default values

- Registration Command

Command line input:

```
./domino-cli.py register
```

This message has the following fields that are automatically filled in.

```
Message Type (= REGISTER)
DESIRED UDID (= if not allocated, this will be assigned as Unique Domino ID)
Sequence Number (=incremented after each RPC call)
IP ADDR (= IP address of DOMINO Client to be used by DOMINO Server for future RPC Calls to this client)
TCP PORT (= TCP port of DOMINO Client to be used by DOMINO Server for future RPC Calls to this client)
Supported Templates (= Null, this field not used currently)
```

- Heart Beat Command

Command line input:

```
./domino-cli.py heartbeat
```

This message has the following fields that are automatically filled in.

```
Message Type (= HEART_BEAT)
UDID (= Unique Domino ID assigned during registration)
Sequence Number (=incremented after each RPC call)
```

- Label and Template Type Subscription Command

```
./domino-cli.py subscribe -l <labelname> -t <templatetype>
```

Note that -l can be substituted by -label and -t can be substituted by -ttype.

More than one label or template type can be subscribed within the same command line as comma separated labels or template types

```
./domino-cli.py subscribe -l <label1>,<label2>,<labeln> -t <ttype1>,<ttype2>,<ttypen>
```

To subscribe more than one label or template type, one can also repeat the options -l and -t, e.g.:

```
./domino-cli.py subscribe -l <label1> -l <label2> -l <labeln> -t <ttype1> -t <ttype2> -t <ttypen>
```

It is safe to call subscribe command multiple times with duplicate labels.

This message has the following fields that are automatically filled in.

```
Message Type (= SUBSCRIBE)
UDID (= Unique Domino IDassigned during registration)
Sequence Number (=incremented after each RPC call)
Template Operation (= APPEND)
Label Operation (= APPEND)
```

The following fields are filled in based on arguments passed on via -l/-label and -t/-ttype flags

Subscribe RPC also supports options for label using -lop=APPEND/DELETE/OVERWRITE

and for supported template types using -top=APPEND/DELETE/OVERWRITE.

When unspecified, the default is APPEND. DELETE deletes existing labels (template types) specified in the current call via key -l/-label (-t/-ttype). OVERWRITE removes the current set of labels (template types) and sets it to the new set of values passed in the same RPC call.

```
Supported Template Types
Supported Labels
```

- Template Publishing Command

```
./domino-cli.py publish -t <toscafile>
```

Note that -t can be substituted by -tosca-file.

If -t or -tosca-file flag is used multiple times, the last tosca file passed as input will be used. This usage is not recommended as undefined/unintended results may emerge as the Domino client will continue to publish.

This message has the following fields that are automatically filled in.

```
Message Type (= SUBSCRIBE)
UDID (= Unique Domino IDassigned during registration)
Sequence Number (=incremented after each RPC call)
Template Type (= TOSCA)
Template File
```

Note: Current version of the code has a hardcoded CLI port number, so no two Domino Clients can be run in the same port name space.

INTERACTIVE CLI MODE

To enter this mode, start Domino Client with interactive console option set as true, i.e., `-iac=true`:

```
./DominoClient -p <portnumber> --iax=true --log=DEBUG
```

The rest of the API calls are the same as in the case of using `domino-cli.py` except that at the prompt there is no need to write `domino-cli.py`, e.g.,:

```
>>register  
>>heartbeat  
>>subscribe -l <label1> -t <ttype1>  
>>publish -t <toscafile>
```

The interactive CLI mode is preferred for manual, single host testing (i.e., all domino clients and servers run in the same machine).

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INDICES AND TABLES

- search

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