

# Quick Start Guide

## Free & Fast DLI downloader

Download thousands of free scanned e-books from Digital Library of India with a single click on your computer.

Download it from here v3.5

<https://code.google.com/p/dli-downloader/downloads/list>

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## 1.1) What is DLI Downloader ?

DLI dowloader is a free utility tool to download scanned e-books from Digital Library Of India. Digital Library of India hosts thousands of scanned text books on various Indian Topics in multiple languages like Hindi, Sanskrit, English, Gujarati. Here is the DLI website -

<http://www.dli.ernet.in/>

There are some mirrors to this website which hosts the contents of the scanned e-books. Unfortunately DLI website does only provide with a single page of e-book in TIFF format for most of the books.

This tool helps us downloading the entire e-book and convert it into PDF with a single click. The source code is entirely written in **Core Java & Swings** with intensive use of multi-threading and a Open Source Project is created in Google Projects at -

<https://code.google.com/p/dli-downloader/>

Latest binaries can also be downloaded from the same website.

Also there is one blog which mentions the latest activities on this tool

<http://dli-downloader.blogspot.in/2013/04/digital-library-of-india-httpwww.html>

## 1.2) System Requirements

This tool has been developed and tested on Windows 8 environment with Java 7 installed.

1. Java 7, can be downloaded from <http://java.com/en/download/index.jsp>
2. Ubuntu 12.10, Mac , Windows XP, Windows Vista, Windows 7 and Windows 8.
3. Download the latest tool version from <https://code.google.com/p/dli-downloader/downloads/list>

This tool uses some features of Java 7 and **is not backward compatible with Java 6**. Hence, please make sure that proper Java version is installed to run this tool.

## 1.3) Key Features

This tool offers many silent features which gives much more control to its end user with great ease, like

1. Download and Run, does not require any installation on your PC. This can run on machine with limited rights as well.
2. Just grab the barcode of the book of your interest from the following website and put it in the tool <http://www.dli.ernet.in/>
3. You can queue up all your barcodes and the tool will start downloading them one by one.
4. Tool can be minimized to the System Tray and thus let you do other work without any interference. In the background it will keep downloading the requested stuff.
5. You can control the Maximum download speed so that it does not eat up all of your internet connection.
6. It will download all the scanned pages for the given book and then consolidate them to create a one PDF. If something goes wrong then it will retry the download specified number of times.

7. If we exit the DLI downloader application with un-finished downloads from the System Tray then all the incomplete downloads will resume on the next turn.
8. We can always configure the download directory where the TIFF & PDF files will be saved on your local disk.
9. Upon successful download and conversion of tiff files to a single pdf, all tiff files are removed from the directory.
10. You can provide comma separated directories containing the already downloaded pdfs. The tool will scan all the pdf and extract the barcode and will warn the user if he/she tries to download the same barcode again.

## 1.4) Launching The DLI-downloader Application

Download the latest DLI binary jar file from the google project

<https://code.google.com/p/dli-downloader/downloads/list>

And make sure you met all the System requirements as mentioned in section 1.2

Now the jar downloaded above is executable in nature, so just double clicking it should start the application. If it does not then please use the following command to run the application.

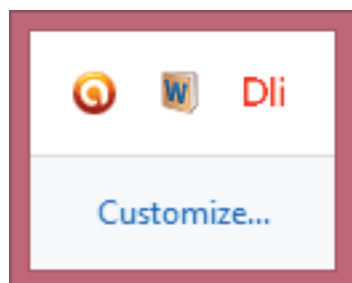
```
java -jar DLIDownloader-x-jar-with-dependencies
```

OR

```
start java -jar DLIDownloader-x-jar-with-dependencies
```

Where x is the version number of the Jar. If it still does not work then send the error on command prompt to cancerian068@gmail.com

If everything goes fine then a DLI window will start and you will also see a new icon in the System Tray as shown below.

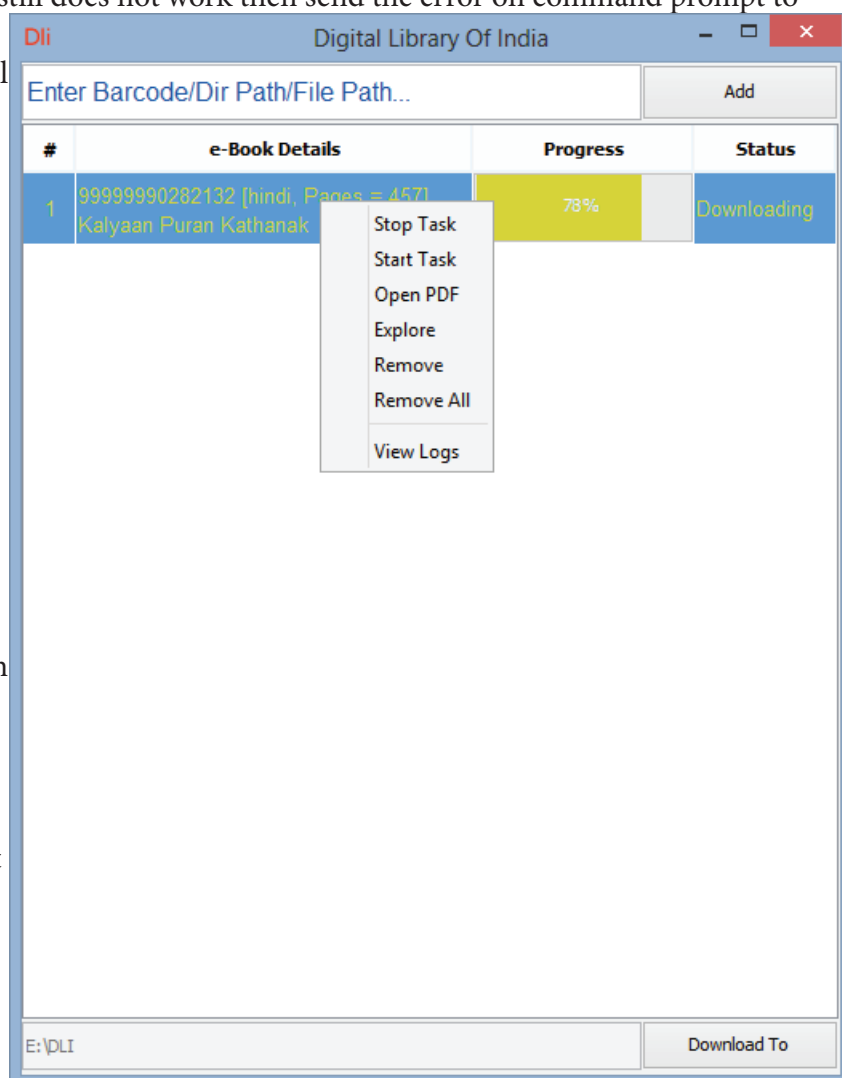


see DLI Window on the right.

On the top you will enter the barcode and in the bottom you should provide the destination download directory.

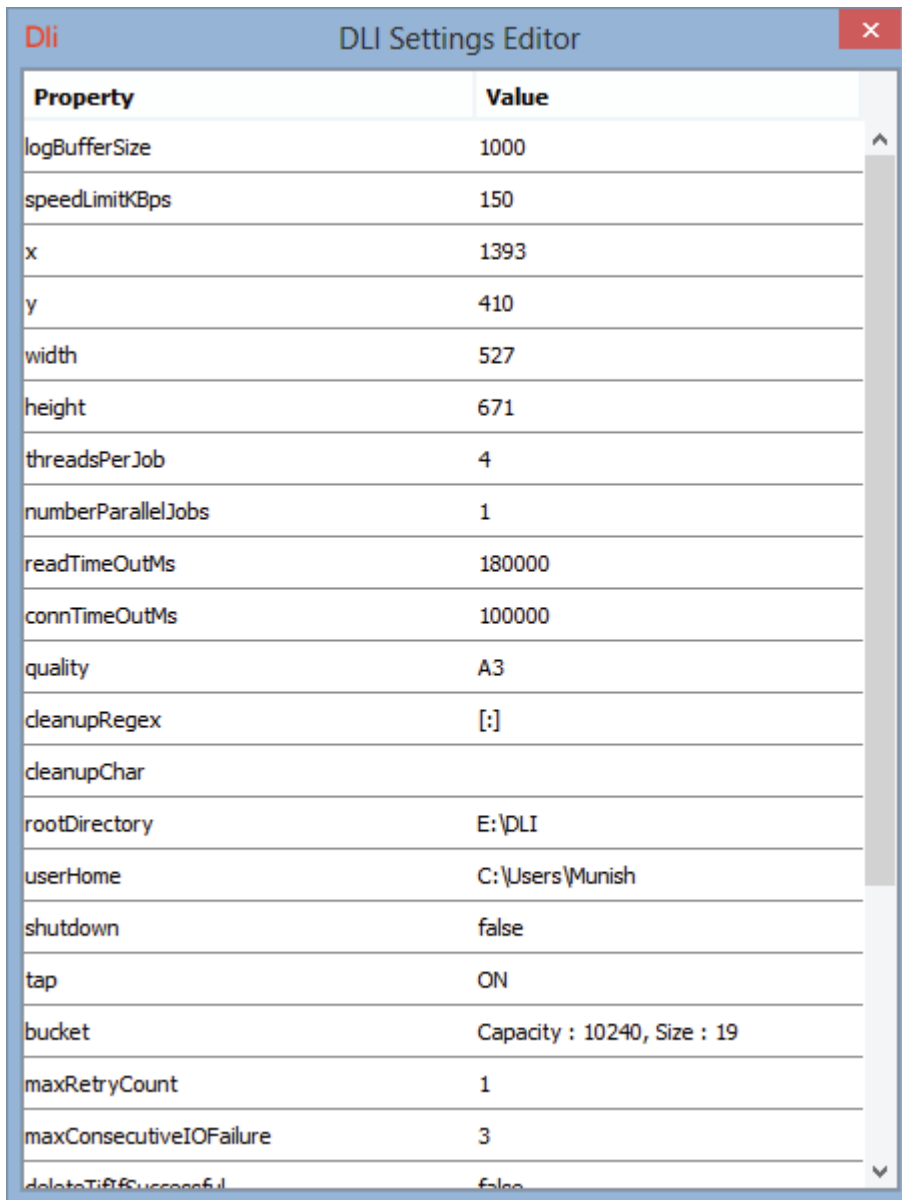
### Exiting the Application

Goto System Tray and find the DLI icon, right click on it and choose Exit. This will quit the application after saving the state.



## 1.5) Configuring the Settings

Right click on the DLI's System Tray Icon and choose Settings, the following windows will appear.



The screenshot shows a window titled "Dli" with a subtitle "DLI Settings Editor". It contains a table with two columns: "Property" and "Value". The table lists various settings for the DLI application, including buffer sizes, speed limits, window dimensions, thread counts, timeouts, quality settings, cleanup options, and directory paths.

Property	Value
logBufferSize	1000
speedLimitKBps	150
x	1393
y	410
width	527
height	671
threadsPerJob	4
numberParallelJobs	1
readTimeOutMs	180000
connTimeOutMs	100000
quality	A3
cleanupRegex	[:]
cleanupChar	
rootDirectory	E:\DLI
userHome	C:\Users\Munish
shutdown	false
tap	ON
bucket	Capacity : 10240, Size : 19
maxRetryCount	1
maxConsecutiveIOFailure	3
deleteIfSuccessful	false

## Understanding the various XML Tag Values

**height** - height of the application windows. Any changes in the gui are automatically saved in the XML

**width** - width of the application window.

**x & y** - are the screen locations of the DLI Window.

**numberParallelJobs** - number of parallel downloads at any given point in time.

**readTimeOutMs** - this is socket read time out value before throwing an timeout exception in milli seconds.

**rootDirectory** - directory where the fresh downloads will be saved.

**speedLimitKBps** - maximum speed limit that the application will use for all its downloads.

**threadsPerJob** - number of threads that will download pages for a given barcode.

**deleteTiffSuccessful** - if set to true then the TIFF files will be deleted if PDF conversion and tiff download goes successful.

**maxRetryCount**- If connection to server is very slow then the connection timeout exception can occur. In case the download fails, then this property will decide how many times to retry the failed download.

**maxConsecutiveFailure** - maximum number of consecutive IOExceptions from the server before the tool stops downloading the given barcode.

**downloadDirectories**- comma or semicolon separated list of directories which can contain the already downloaded PDF files. The pdf file must contain the barcode in its name. This directory will be scanned by the tool at the time of startup for caching the existing downloads and a warning prompt will appear to user if he tries to download the same barcode again.

**totalBytesDownloadKB** - Total download usage by the tool till date in KBs.

**createBarcodePage** - if set to true then a initial first page will be inserted in the PDF containing metadata of the barcode.

**cleanupRegex & cleanupChar** - output pdf filename is generated from the barcode title and sometimes there could be a need to clean up certain charaters from the title to have a meaningful pdf name. Regex tells us what to replace and cleanupChar is the replacement character.

**userHome** - directory where dli-settings.xml and dli-jobs.xml will be saved.

**searchForExtraPages** - sometimes number of pages mentioned in TotalPages metadata is wrong and ther could exists more pages that mentioned in the TotalPages tag. Setting this tag to true will search for extra pages dynamically by pinging the URL till 3 consecutive failures occurs.

## 1.6) API Client Usage

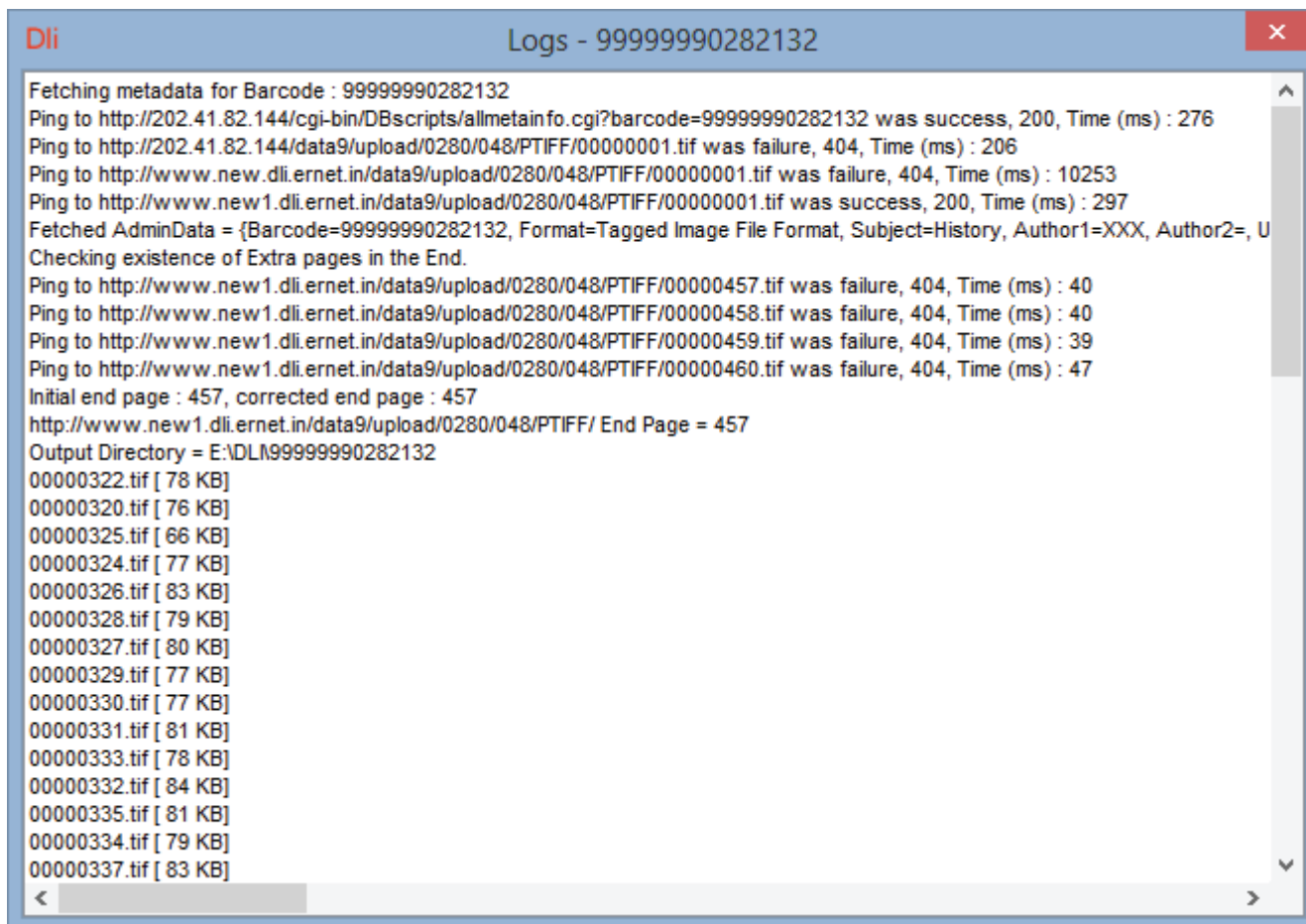
This application also exposes API for its progmatic users. Here is the syntax for downloading the e-book using Java Source

```
DLIDownloader client = DLIDownloader.newInstance()
    .withBarcode("xxxxxxx")
    .withAppConfig(new AppConfig())
    .download()
    .convertToPdf();
```

Thus this tool can be embedded inside your application without much hurdle using the fluent api syntax.

## 1.7) Troubleshooting & Logs

Right click on a particular download task and choose View Logs, the following window should appear.



If some download fails then a separate log file is also created with the name <barcode>.log in the download directory. If you think the failure is not justified then just sent the log file to me [cancerian0684@gmail.com](mailto:cancerian0684@gmail.com)

## 1.8) Share your valuable feedback

I am a software developer who love writing small software pieces for fun and creativity. For any positive/negative feedback please connect to me on

Email - [cancerian0684@gmail.com](mailto:cancerian0684@gmail.com)

LinkedIn - <http://lnkd.in/bxGDdt>

## 1.9) Frequently Asked Questions

### 1.) I am not able to start the Application, how do i troubleshoot ?

Please note that this application works almost on all platforms, the only dependency is the Java 7. run the following command to make sure that proper version of Java is installed on your system

**java -version**

output should contain Java 1.7.0\_x, like the following

```
java version "1.7.0_21"  
Java(TM) SE Runtime Environment (build 1.7.0_21-b11)  
Java HotSpot(TM) 64-Bit Server VM (build 23.21-b01, mixed mode)
```

If it doesn't, then something is wrong with the installation. make sure previous versions of Java are un-installed properly.

### 2.) I want facing a problem in download of a barcode, it fails every time i try to download. I am not able to understand the logs, what should i do ?

Whenever a failure occurs, a log file is created in download directory with name <barcode>.log

Please send that log file to me at cancerian0684@gmail.com

I will analyze the failure cause and get back to you.

### 3.) I have lots of DLI books with me spread over multiple directories, how can i make sure that i am not downloading the same file again, causing duplicates ?

All download directories can be configured in DLI Settings. Open DLI settings and set the following property **downloadDirectories** to reflect all the DLI download directories separating them with semicolon. For example - e:\dli;D:\workspace\DLIDownloader\DLI

Please note that each DLI pdf should have barcode present in its name. Now DLI downloader will scan all the PDF's at the startup time and will not allow you to download them again by giving you the warning that *PDF for this barcode already exists.*

### 4.) I do not want to have PDF metadata Page in my downloaded PDF's. How can I remove that page ?

This can be configured in DLI Settings.

Set **createBarcodePage = false** will suppress the creation of first metadata page.