PDF Convert

PDF Convert is a client server application that converts various file formats to PDF in a centralized manner**.**

The main components of the PDF Convert:

- *Client Application*
    - Allows users to select one or several files from the file system
    - Allows the users to submit the files to the server in order to be converted
    - Displays a list with all previously converted files from the server and allows viewing the files using the locally installed PDF viewer.
    - Displays the server status and the status of all submitted files
    - Multiple instances of the client app are allowed to run on different machines simultaneously

- *The server*
    - Monitors a shared folder for incoming files to convert (basically all clients are submitting files by copying them to this share)
    - Has a spooler service that picks up the submitted files and converts them using an open source converter
    - For this project at least one file format needs to be converted to pdf (e.g. for TIFF, tiff2pdf.exe command line that is shipped with libtiff can be used).
    - Stores the converted files (PDFs) in a local folder
    - Provides an API to get the list of PDF files that are already converted (from the folder above)
    - Provides an API to show the server status (Offline, Waiting files, Processing)
    - Provides an API to show the status of each converted file (Queued – files that were successfully copied to its shared folder but not converted yet; Converting – for the files that are currently being converted; Converted – converted files)
    - Conversion of the files will be multithreaded. The number of threads must be configurable.

Both applications will be written in C# using .NET Framework 2.0 or above. The only 3rd party component allowed is the file conversion tool.