**Specifications for Aspen notification**

1. Define Aspen Notification Java class
2. Aspen file directory
3. Supporting jobs
4. Server config
5. Server side message handling. Power automate.
6. Class definition below. This class is to be added to all Aspen procedures that will use notifications.

A screen shot of a computer program

AI-generated content may be incorrect.

This code will open the file called exports/aspen\_notifications\_buffer.csv and add the notification to be sent. Then closes the file.

This SaveNotification class is then declared in the ProcedureJavaSource derived class that will be used in Aspen Procedures. Then the save method can be called where a notification will be recorded.

A computer screen shot of text

AI-generated content may be incorrect.

1. A critical part of the notification data management is the LDSB Aspen file volume provided by Fujitsu, and available to us on through Java file IO operations in Java. Our root directory is /data/app/aspen-data/nfs/tool-staging/ldsbsis. This is where many of our operational files are stored. For notifications, we will be using the export subdirectory. Here we have two files aspen\_notifications\_buffer.csv, and aspen\_notications.csv. aspen\_notifications\_buffer.csv will be where data is written from the procedure code. This file will be periodically copied over to the aspen\_notifications.csv file and emptied of data. The aspen\_notifcations.csv file will be periodically sent to the LDSB sftp server for processing.

The third file contains all of the previously sent notifications, text and date. All new notifications are compared to this so that duplicate notifications are never sent. This file is aspen\_notification\_all.csv. Should add to ops process to remove all data before a certain date like all messages before one month.

1. Two Aspen jobs will be used in this process.
   1. LDSB Aspen Notification File Ops

A nightly job will clear the contents of the export/aspen\_notifications\_buffer.csv file and copy over to export/aspen\_notifications.csv.

\*\* There should be a third file that contains all of the accumulated notifications. This file can be used to check against to make sure there are no duplicate notifications.

* 1. LDSB -send notifications file:

An sftp job will send the aspen\_notifications.csv file to our internal ssh.limestone.on.ca server to be processed by MS 0365. This job can run at any time interval, ie. 2 minutes.

1. Server configuration. The file will reside on the ssh server in the directory C:\\SFTP-Root\Aspen\notifications. It will currently be the only file and will be fully replaced with each transfer from Aspen. This file will be moved to the Onedrive folder, traised\OneDrive - Limestone DSB\DevServer\Aspen\notifications\import.
2. When updated, the transferred file will be read by MS Power Automate and each field. If the recipient, message, and timestamp do not match one already in the list then a notification will be sent to the recipients, and it will be added to the list. Notification can be sent via email directly to the recipient.

Enhancement: store all notifications to an ongoing sharepoint list

The benefit of storing all notifications in a list is that we will have a record of all notifications.

The aspen\_notifications.csv file format is:

{MSG SEVERITY},{EMAIL},{MSG},{DATE}

IE:

INFO,traised@limestone.on.ca,Created new student User 2nd test!,2025-02-26:14-04-26