ProjectTemplate syncing to local workspace

This relates to AutoCAD/Inventor/Electrical/Plant/Revit templates that are Project specific
Typically Templates are managed on a Network Share.
Ideally in a multisite environment they would be managed in Vault.
However the current process requires the Vault User to manually update their local workspace
which the Design tool templates are mapped to.
Solution is to automatically update the existing active project local workspace folders with the
Project templates or catalogs or spec sheets (Plant) on every login without adding too much wait
time or performance issues
There may be 100s of active projects that the user is not working on, which doesn't require
syncing, so checking the local workspace for active project folders is key for performance.
It assumes that the user has downloaded the Project Templates when joining the Project and
has not deleted the local Project Folders

Program : ProjectTemplateSync program

When a User logs into Vault it executes a the ProjectTemplateSync program

- Finds and reads the last login date:time from a local ProjectTemplateSync.XML and then
  updates the local ProjectTemplateSync.XML to current date:time
- if no local date:time ProjectTemplateSync.XML then set last login date:time as empty
  and sets new local ProjectTemplateSync.XML to current date:time
- then finds all Project Folders with Lifecycle State= Active and that have Folder Property
  "ProjectTemplateFolder" UDP set to "SyncToLocal"
- then queries the Local Workspace and reduces the list of Project Folders to only those
  that are in the Local Workspace
- then queries all those Folders for files checked in after the last login date:time or if
  empty all files
- then downloads all or new files to the local workspace
- Present a warning clock to notify the user if a large download is happening