Uheaa Common Code

## **Common Code**

Common Code is a collection of .Net DLLs written by UHEAA programmers

## DLL Definition

* DLL Stands for "Dynamic Link Library." A DLL (.dll) file contains a library of functions and other information that can be accessed by an application (script). This means that our many application/script can use code written just once as a DLL.

## DLL Features

* DLLs are modular, allowing changes to be made to code and data in a single self-contained file shared by several applications without any change to the applications themselves.
* It is not possible to directly execute (run) a DLL. An EXE (.exe) is required by Windows as entry point for the application which then uses the DLL.
* Individual DLLs can be used by multiple applications/scripts at the same time.

## DLL Limitations

* .Net DLLs are not “Windows DLLs” and so require a compatible version of the .NET framework be installed.
* Some code changes made a DLL require a corresponding code changes in the application that uses the DLL.

## Common Code DLLs

* Common
  + Numerous utility/helper methods
    - Casting
      * E.g. Strings to dates
    - .csv file processing
    - Split and remove quotes
* Common-Scripts
  + Region check
    - E.g. CornerStone vs. Uheaa
  + Session Interaction
    - Read text
    - Put text
  + End of Job reports
  + Error reports
* Common-DataAccess
  + Check Stored Procedure execute permissions
  + Batch logon
  + Connect to databases
* Common-WinForms
  + User input validation
  + Custom input boxes
    - E.g. Account or SSN
* Common-ProcessLogger
  + Log process start and end time
  + Logs custom notifications
  + Logs exceptions
  + Logs end of job reports
* Common-DocumentProcessing
  + Mail
  + Barcode encoding
  + Imaging
  + Printer Duplex/Simplex switching
  + Printing
  + E-Corr
  + Alternate Format
  + 508 Compliance
* Common-BAA
  + Screen Captures
  + Records put text, etc.
* Q
  + VB.NET
  + Portions of everything Common-\* does along with some things it doesn’t do

## Folder Based Promotions

Each script uses the version of Common Code found in is local folder. This is to allow breaking changes (intentional or otherwise) to affect only the application(s) using that version of common code.