

## **BNSF Automation Flowchart**

### **SERVER:**

CustomAutomation.exe: Capture train video and check intermodal

*D:\CustomAutomationForEastbound\Debug\CustomAutomation.exe*

==> Execute SaveToAvi.exe to store captured video on K:\Videos

==> Append to *D:\BNSFSoftware\Acquisition\SaveToAviEx\Triggers.txt*

==> Execute IVM.exe

==> If intermodal, copy triggers.txt to *D:\Transferfiles\triggers.txt*

==> Copy the latest AEI file from *D:\AEIData\Incoming* to *D:\AEIFiles* and rename according to convention.

TransferFiles.exe: Move Files from Server to Client (*D:\TransferFiles\Debug\TransferFiles.exe*)

==> Move video(s) to corresponding client [decision based on its drive storage].

==> Update flag in triggers.txt to “assigned” target client and copy it to each client computer.

*D:\TransferFiles\Triggers.txt* to *\\PC{1,2,3}\DatafilesProcessingComputer\TriggersTransferred.txt*

### **CLIENT:**

BNSFProcessAutomation.exe running on each client machine gets current disk usage for all drives and saves it to

*\DataFilesProcessingComputer\DiskUsage.txt*

==> Copy DiskUsage.txt from client machine to *\\SERVER\AutomationFiles\DiskUsagePC{1,2,3}.txt*

==> Read *\\PC{1,2,3}\DataFilesProcessingComputer\TriggersTransferred.txt* to verify video file

==> Update *\DataFilesProcessingComputer\Triggers.txt*

TMSProcessing.exe runs on each client machine to:

==> Read *\DataFilesProcessingComputer\Triggers.txt* to identify video with flag “4”

==> Execute RawToColor.exe; update flag to “5”

==> Check existence of corresponding AEI file; update flag to “6”

==> Execute TMS module for max of 12 hrs.

==> Check existence of timestamps.txt; update flag to “7”

==> Execute TSS using this timestamps.txt and respective AEI file (if successful, update flag to “8”).