

Synchronizing the Volume and Table Information

Code similar to the following is used in OpenInsight to ensure that volume and table information is synchronized. You should never need to use this code, but it explains why a synchronization problem could cause a table to become unavailable:

```
* first verify volume structures
cVols = count(Volumes(0), @fm) + (Volumes(0) # "")
for iVol = 1 to cVols
    Vol = Volumes(0)<iVol>
    cFiles = count(Volumes(3)<iVol>, @vm) + (Volumes(3)<iVol> # "")
    for iFile = 1 to cFiles
        File = Volumes(3)<iVol,iFile>
        locate File in Tables(0) using @fm setting Pos then
            * check volume reference
            if Tables(1)<Pos> # Vol then
                Volumes(3) = delete(Volumes(3), iVol, iFile, 0)
            end
        end else
            * file does not exist but is referenced by volume
            Volumes(3) = delete(Volumes(3), iVol, iFile, 0)
        end
    next iFiles
next iVol

cFiles = count(Tables(0), @fm) + (Tables(0) # "")
for iFile = cFiles to 1 step -1
    File = Tables(0)<iFile>
    Vol = Tables(1)<iFile>
    * check volume reference
    locate Vol in Volumes(0) using @fm setting Pos then
        locate File in Volumes(3)<Pos> using @vm setting Pos else
            * file not referenced by a volume
            for i = 0 to 5
                Tables(i) = delete(Tables(i), iFile, 0, 0)
            next i
        end
    end else
        * file references unattached volume
        for i = 0 to 5
            Tables(i) = delete(Tables(i), iFile, 0, 0)
        next i
    end
next iFile
```