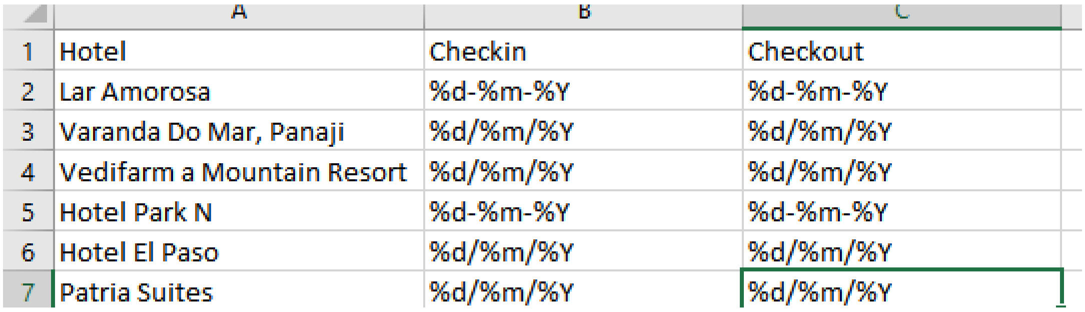
A) Process to add New Hotel of Existing Channel Manager (No coding required):

1. Update all 4 sheets of Account Manager Input Condition Master File by following the **iSell InputCondition and Pricing_Document**.

We have following list of set Channel Managers :

Sr.	Set Channel Managers
1	Staah
2	AxisRooms
3	Maximojo
4	Djubo
5	eZee
6	SiteMinder
7	AsiaTech
8	BookingCentre
9	ResAvenue
10	RezNext
11	BookingHotel
12	TravelClick

If it is **eZee** channel manager, you need to update the date format of Checkin Checkout columns of the hotel OTA data in **ezeedate_format.xlsx** master file. As for **eZee** the hotel wise date format is different.



	A	B	C
1	Hotel	Checkin	Checkout
2	Lar Amorosa	%d-%m-%Y	%d-%m-%Y
3	Varanda Do Mar, Panaji	%d/%m/%Y	%d/%m/%Y
4	Vedifarm a Mountain Resort	%d/%m/%Y	%d/%m/%Y
5	Hotel Park N	%d-%m-%Y	%d-%m-%Y
6	Hotel El Paso	%d/%m/%Y	%d/%m/%Y
7	Patria Suites	%d/%m/%Y	%d/%m/%Y

2. Put the data required to Run the iSell in InputData folder.

Ex. Demand Calander, CM_Availability, HNF, OTA_Data, OutPut_CSV, Price_Calendar, Pricing_Grid, Rateshop, RS_Data.

Set **dummy Last Report iSell** CSV by setting OTA_Sold column to Zero.

3. Run iSell Tool.

B) Process to add New Channel Manager (coding required):

1. Update **cm_master.xlsx** master file**:**
   Get **Transactional** level data / **OTA** data of new channel manager and update the required column names which corresponds to below list in **cm_master.xlsx** file. Keep stdname at the rightmost and don't make any change to stdname column.

New_ChManager	stdname
Name of column which provides channel /OTA information	Channel
Name of column which provides booking status information	Status
Name of column which provides checkin /arrival date	CheckIn
Name of column which provides checkout/departure date	CheckOut
Name of column which provides no of rooms information	No_of_Rooms
Name of column which provides Amount information(Total/Net)	Total_Amount

Note: Most of the channel managers OTA data don't have information of number of rooms. In that case set **"Rooms"** as column name and need to set this column to **value 1** in **ProcessFlow** module, will be explained this further.

2. Update the new channel manager name in **DropColumns.xlsx.** This master file is **to delete not required columns** from iSell dataframe. If not single column to drop, keep it blank.

3. **DateFormats.xlsx:**

   Set date format of .csv files carefully by opening them in notepad ++.

CM	New_Chmanager
CheckIn	date format of checkin date of OTA data
CheckOut	date format of checkout date of OTA data
extension	file extension

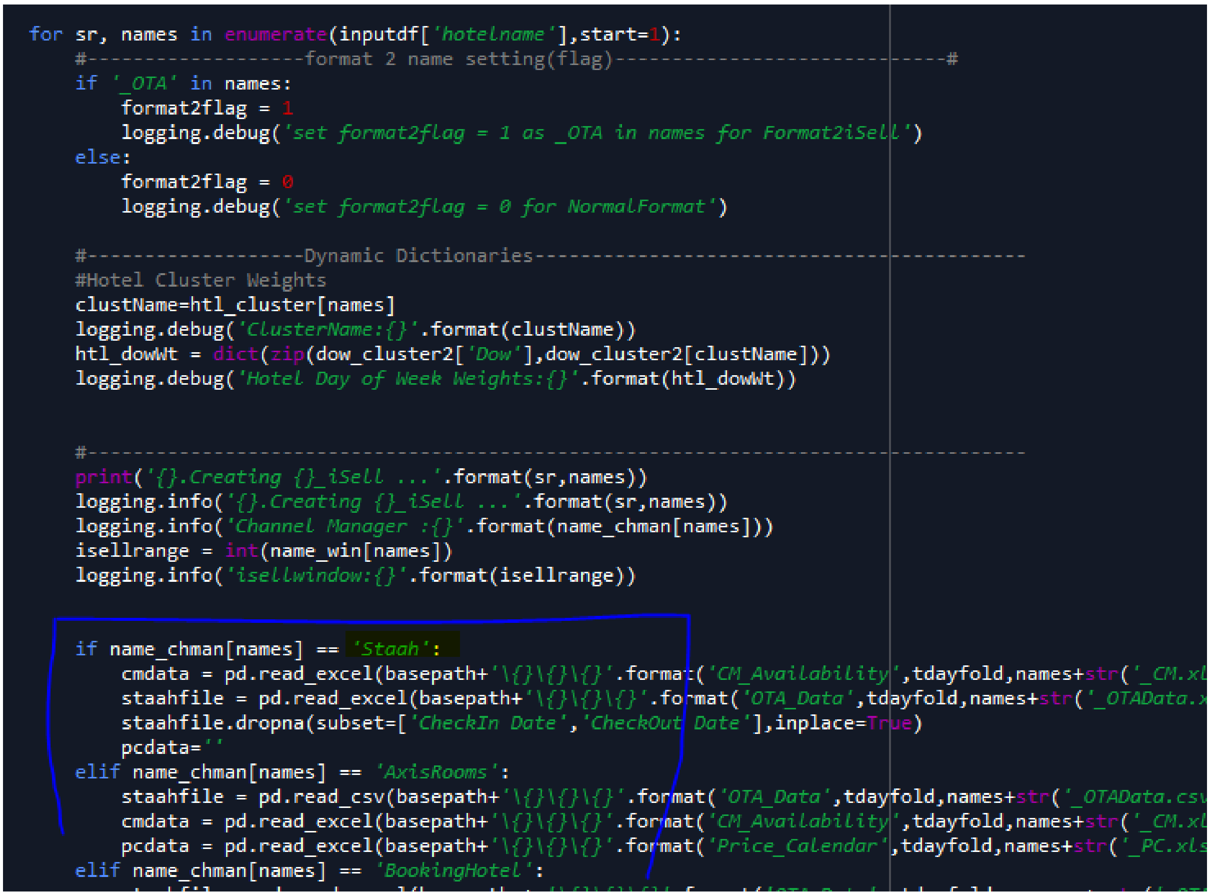
4. **Statuscodes.xlsx:**
   Get the status values by extracting at least a year information and update new unique status values to statuscodes.xlsx master file. Check if those status values are already updated in file or not. If they already present, no need to update. We update **Cancelled and NoShow** status values to **0.**

5. **Format2_iSells.xlsx:**
   Update the standard name of hotel to prepare format2 isell, provided need to update name of the hotel twice in iSell input condition as (**hotelname** and **hotelname_OTA**).

ProcessFlow Change(coding):

1) **Add New channel Manager name in condition:**

In main for loop of ProcessFlow, there is if-elif conditions for each channel managers.



```
for sr, names in enumerate(inputdf['hotelname'],start=1):
    #------------------format 2 name setting(flag)----------------------------#
    if '_OTA' in names:
        format2flag = 1
        logging.debug('set format2flag = 1 as _OTA in names for Format2iSell')
    else:
        format2flag = 0
        logging.debug('set format2flag = 0 for NormalFormat')

    #------------------Dynamic Dictionaries------------------------------------------
    #Hotel Cluster Weights
    clustName=htl_cluster[names]
    logging.debug('ClusterName:{}'.format(clustName))
    htl_dowWt = dict(zip(dow_cluster2['Dow'],dow_cluster2[clustName]))
    logging.debug('Hotel Day of Week Weights:{}'.format(htl_dowWt))


    #--------------------------------------------------------------------------------
    print('{}.Creating {}_iSell ...'.format(sr,names))
    logging.info('{}.Creating {}_iSell ...'.format(sr,names))
    logging.info('Channel Manager :{}'.format(name_chman[names]))
    isellrange = int(name_win[names])
    logging.info('isellwindow:{}'.format(isellrange))

    if name_chman[names] == 'Staah':
        cmdata = pd.read_excel(basepath+'\{}\{}\{}'.format('CM_Availability',tdayfold,names+str('_CM.xl
        staahfile = pd.read_excel(basepath+'\{}\{}\{}'.format('OTA_Data',tdayfold,names+str('_OTAData.x
        staahfile.dropna(subset=['CheckIn Date','CheckOut Date'],inplace=True)
        pcdata=''
    elif name_chman[names] == 'AxisRooms':
        staahfile = pd.read_csv(basepath+'\{}\{}\{}'.format('OTA_Data',tdayfold,names+str('_OTAData.csv
        cmdata = pd.read_excel(basepath+'\{}\{}\{}'.format('CM_Availability',tdayfold,names+str('_CM.xl
        pcdata = pd.read_excel(basepath+'\{}\{}\{}'.format('Price_Calendar',tdayfold,names+str('_PC.xls
    elif name_chman[names] == 'BookingHotel':
```

You need to create one **extra elif condition** for New Channel Manager and read the required iSell data in standard variables . Ex.

staahfile = it is variable which reads OTA data file.

cmdata= it reads CM Availability file

pcdata= it reads Price Calendar, which provides rates in separate file.

If we are not getting the data for any file, keep that variable blank by assigning ‘ ’.

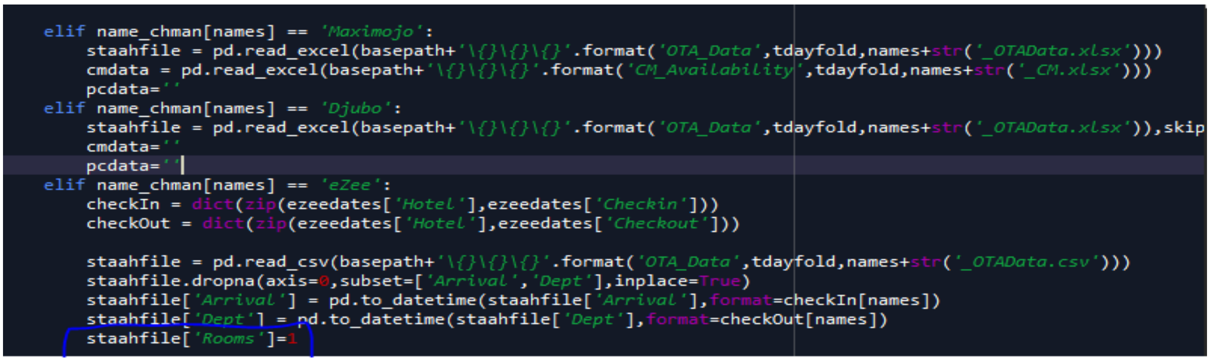
i.e pcdata = ‘ ‘

Creating “Rooms” column in OTA data:

This is for those channel managers with no of rooms column missing.

Create one column “**Rooms**” in staahfile variable and assign value 1 to it.

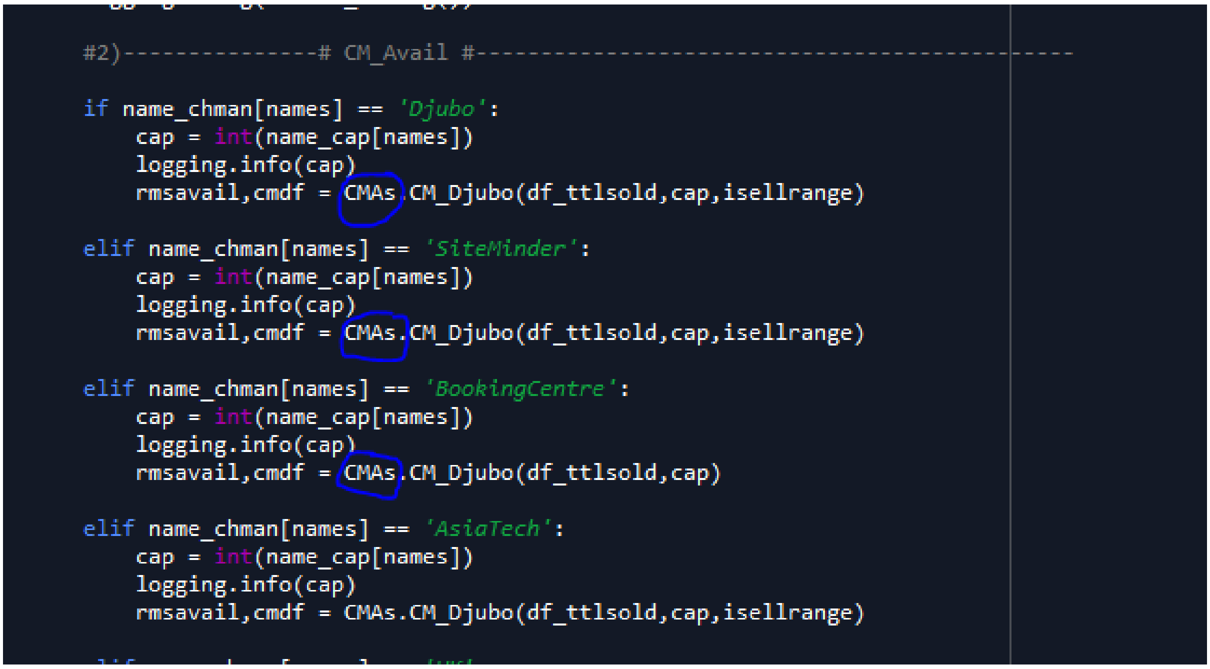
You can follow below screenshot. For **eZee** channel manager we added “Rooms” column and assigned value 1 to it, as eZee OTA data is not providing no of rooms information.



```
elif name_chman[names] == 'Maximojo':
    staahfile = pd.read_excel(basepath+'\{}\{}\{}'.format('OTA_Data',tdayfold,names+str('_OTAData.xlsx')))
    cmdata = pd.read_excel(basepath+'\{}\{}\{}'.format('CM_Availability',tdayfold,names+str('_CM.xlsx')))
    pcdata=''
elif name_chman[names] == 'Djubo':
    staahfile = pd.read_excel(basepath+'\{}\{}\{}'.format('OTA_Data',tdayfold,names+str('_OTAData.xlsx')),skip
    cmdata=''
    pcdata=''
elif name_chman[names] == 'eZee':
    checkIn = dict(zip(ezeedates['Hotel'],ezeedates['Checkin']))
    checkOut = dict(zip(ezeedates['Hotel'],ezeedates['Checkout']))

    staahfile = pd.read_csv(basepath+'\{}\{}\{}'.format('OTA_Data',tdayfold,names+str('_OTAData.csv')))
    staahfile.dropna(axis=0,subset=['Arrival','Dept'],inplace=True)
    staahfile['Arrival'] = pd.to_datetime(staahfile['Arrival'],format=checkIn[names])
    staahfile['Dept'] = pd.to_datetime(staahfile['Dept'],format=checkOut[names])
    staahfile['Rooms']=1
```

You can do OTA data or CM data or PC data **cleaning** if required in this **elif** condition itself.

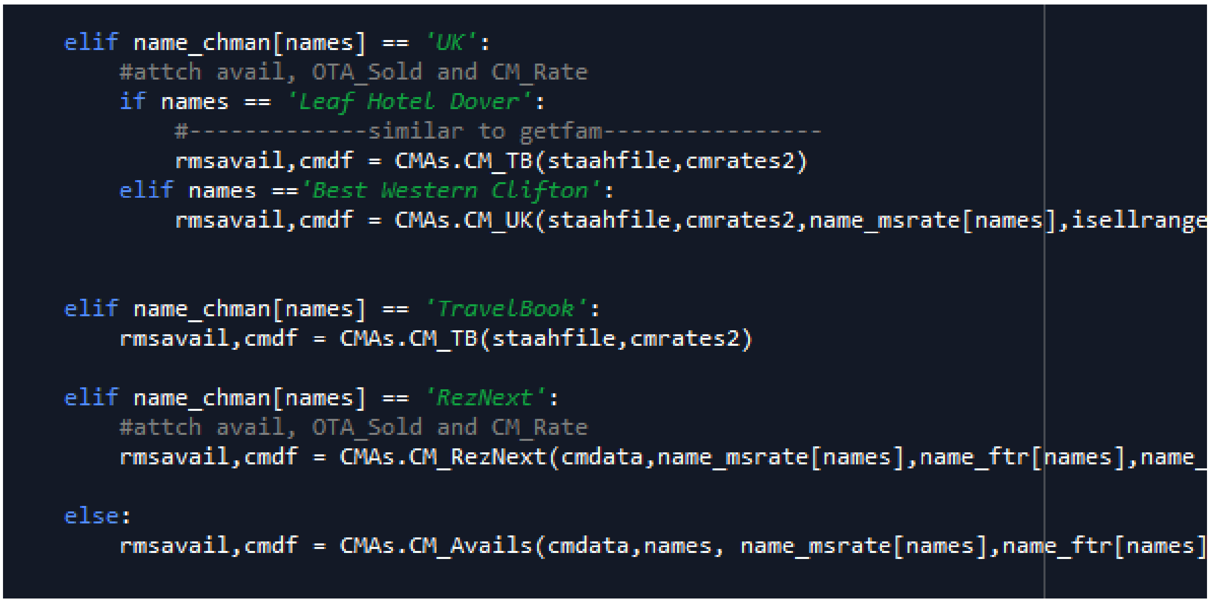
2) Add CM_Availability function for New Channel Manager in CMAs:



```
#2)---------------# CM_Avail #--------------------------------------------

if name_chman[names] == 'Djubo':
    cap = int(name_cap[names])
    logging.info(cap)
    rmsavail,cmdf = CMAs.CM_Djubo(df_ttlsold,cap,isellrange)

elif name_chman[names] == 'SiteMinder':
    cap = int(name_cap[names])
    logging.info(cap)
    rmsavail,cmdf = CMAs.CM_Djubo(df_ttlsold,cap,isellrange)

elif name_chman[names] == 'BookingCentre':
    cap = int(name_cap[names])
    logging.info(cap)
    rmsavail,cmdf = CMAs.CM_Djubo(df_ttlsold,cap)

elif name_chman[names] == 'AsiaTech':
    cap = int(name_cap[names])
    logging.info(cap)
    rmsavail,cmdf = CMAs.CM_Djubo(df_ttlsold,cap,isellrange)
```

As per the above screenshot, there is different function for CM_Availability module to each channel manager in **CMAs** module. You need to add separate function in CMAs module for new channel manager. For that add one extra **elif condtion** with new channel manager name in ProcessFlow module to call function in CMAs, as shown above.

Note: If we don't get the rates data for RateOnCM (ex. we don't get CM data for Djubo) then no need to create extra function, you can directly use **CM_Djubo** function for new channel manager by passing parameters (df_ttlsold,cap,isellrange). As in above screenshot all channel managers use same function CM_Djubo as they don't have CM_Availability files or Rates information.

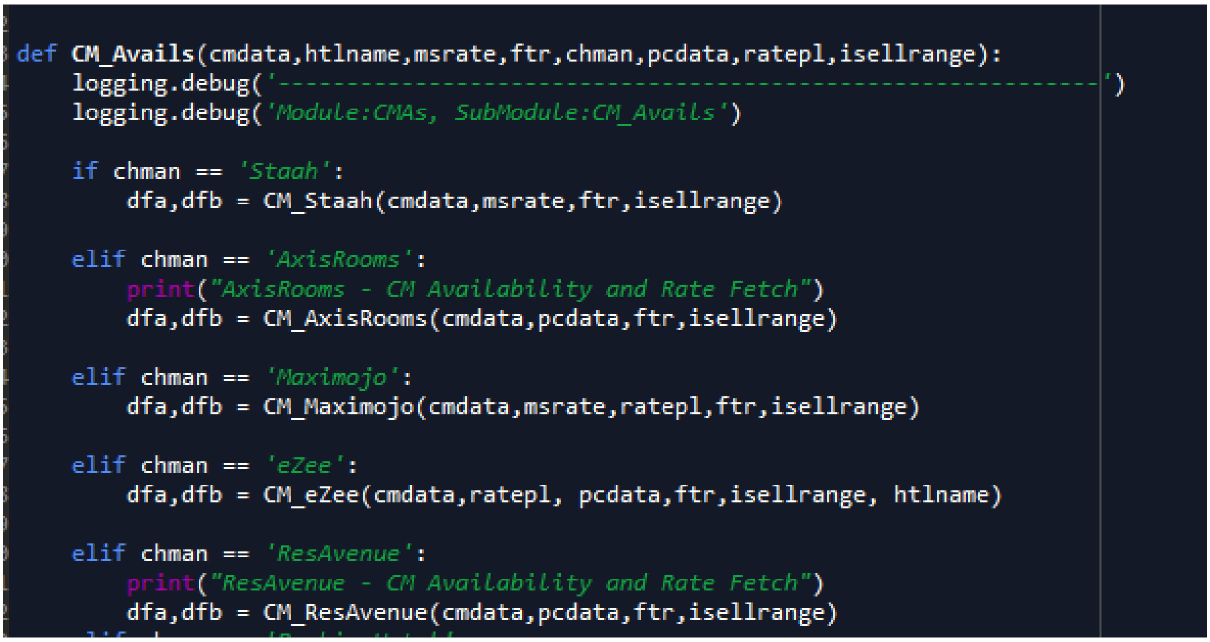


```
elif name_chman[names] == 'UK':
    #attch avail, OTA_Sold and CM_Rate
    if names == 'Leaf Hotel Dover':
        #-------------similar to getfam----------------
        rmsavail,cmdf = CMAs.CM_TB(staahfile,cmrates2)
    elif names =='Best Western Clifton':
        rmsavail,cmdf = CMAs.CM_UK(staahfile,cmrates2,name_msrate[names],isellrange


elif name_chman[names] == 'TravelBook':
    rmsavail,cmdf = CMAs.CM_TB(staahfile,cmrates2)

elif name_chman[names] == 'RezNext':
    #attch avail, OTA_Sold and CM_Rate
    rmsavail,cmdf = CMAs.CM_RezNext(cmdata,name_msrate[names],name_ftr[names],name_

else:
    rmsavail,cmdf = CMAs.CM_Avails(cmdata,names, name_msrate[names],name_ftr[names]
```

Create Function in CMAs:

You need to create extra function for those channel managers which provides availability data (rooms available to sell online) and rates data (PC data or RateOnCM). As above screenshot have different individual functions for getting availability (**rmsavail**, **cmdf**) and rates information.

1. First add new channel manager condition in **CM_Avails** function.
   It returns dfa (availability frame with flow through) and dfb (rate on CM frame) to ProcessFlow.
2. Create newChannel manager function in CMAs module, and get availability, flow through availability and rate on CM. This module should be called in **CM_Avails** function.



```
def CM_Avails(cmdata,htlname,msrate,ftr,chman,pcdata,ratepl,isellrange):
    logging.debug('------------------------------------------------------------')
    logging.debug('Module:CMAs, SubModule:CM_Avails')

    if chman == 'Staah':
        dfa,dfb = CM_Staah(cmdata,msrate,ftr,isellrange)

    elif chman == 'AxisRooms':
        print("AxisRooms - CM Availability and Rate Fetch")
        dfa,dfb = CM_AxisRooms(cmdata,pcdata,ftr,isellrange)

    elif chman == 'Maximojo':
        dfa,dfb = CM_Maximojo(cmdata,msrate,ratepl,ftr,isellrange)

    elif chman == 'eZee':
        dfa,dfb = CM_eZee(cmdata,ratepl, pcdata,ftr,isellrange, htlname)

    elif chman == 'ResAvenue':
        print("ResAvenue - CM Availability and Rate Fetch")
        dfa,dfb = CM_ResAvenue(cmdata,pcdata,ftr,isellrange)
```

3. Return two dataframes (availability and rateonCM) from newly created function to CM_Avails in to **dfa** and **dfb**. It will be returned to ProcessFlow.

4. Only this much of coding change needed. iSell will be created in masters folder and OutPut_CSV folder.