**Working flow inside in SESP for metering data:**

1. Metering Data Import handler(java class)-------
   1. Calls FILE\_T\_HANDLER\_T(table) --- which contains info about the work order file format(xml,text, etc), file mode(import or export) and many more.
   2. Run the process()--- from Files(table) pick up the file, before picking up check the file status from the field “id\_File\_status\_t”. Table “File\_status\_t” stores the stustus of file like (import started, import finished,etc), then depending on the status unmarshall the xml file, use the predefined message written in I\_MD\_MESSAGE\_CONTAINER(table)
   3. Parse and insert a new Message into the db, also process underlying LogicalAcks, data.
2. Create Message:
   1. FileToMessageScanner(class): A scanner that creates messages against an imported parsed file.
   2. This will work only when status of file is “ import parsed”. This valus is available from table “File\_status\_T”.
   3. This Process is halted when the file status is” IMPORT\_MESSAGE\_ERROR”.
   4. This is also responsible for marking any file which is export ready also.
3. Mapping Case And Case exe:
   1. JobController(class) using MessageJob(class)---call start().
   2. This start()--- will instantiate Case class. Generate a case id with the help of createCase() and updates it in “Case” table along with change the caseStatus table to status “scheduled”. “Case” table contains ref of other tables like “case\_t”- which contains information about the case type. [Case Creator that runs everyday midnight 1 minute past 12 AM]
   3. Then startCase() method will be invoked. Then the status of that case from “Scheduled” to make it “in progress” .
   4. CaseJob class is instantiated to execute the case.
   5. Call “lockCaseBlocking()”—to indefinitely lock the case till finish.
   6. Call “releaseCase()”-to release the lock.
4. Prepare Data for delivery(class):
   1. Start() invoked.
   2. Inside it “Databaseutils.callprocedure()” method is invoked to store the meter data into DataBase.
   3. Task Scanner(class) is called to invoke method “run()” . Now it checks wheather the case is locked and it is in scheduled state. It takes help from mainly “Task” table and “Task\_status\_t” tables.
   4. After task is done then the case is lock is realesed which was acquired earlier.
   5. Then messagetofilescanner class is instantiated. Run() invoked.
   6. Then messagetoFile() invoked which updates the message table with status “ export ready“.
   7. In File(table) insert the file. And mark its status as “exportready”
   8. Instantiate Messagetofilehandler (class) it will look for files with status “exportready”.

Now the file is on the ftp location