

Standard Extracts Framework

For Client and Vendor Outbound Files

1. SQL Schema to store specifications and audit data
2. PowerApps for specification and scheduling configuration
3. Azure Data Factory for automation and delivery

SQL Schema Main Tables

<p>extracts_ClientFileFormat</p> <ul style="list-style-type: none"> Client_File_Format_ID Client_ID File_Format_Name Is_Standard File_Category Data_Scope Only_Portal_Registrants Date_Range_Note Date_Search_Field Production_Filename_Format Test_Filename_Format Default_Extension Additional_Encryption Column_Delimiter Line_Termination Row_Granularity Include_Spouse Include_Dependent Survey_Completion_Requirement Run_Frequency Send_Day Send_Time Send_Blank_File Destination_Notes Destination_File_Path Additional_Notes Executable_code Last_Run_DTTM Sched_In_30_Days_Is_No Eligible_For_Incentive_Is_Yes Ready_To_Automate File_Format_Status Schedule_Start_Date Schedule_End_Date Recurrence_Period Recurrence_Interval Recurrence_Weekday Recurrence_Day_Of_Month Recurrence_Monthly_Period_Type Recurrence_Monthly_Period_Start 	<p>extracts_factClientFileRun</p> <ul style="list-style-type: none"> Client_File_Run_ID Channel_Or_Direct Client_ID Client_File_Format_ID Filename File_Folder File_Extension Line_Terminator Results_Executable_Code Header_Executable_Code Rows_Read Rows_Copied Copy_Duration Raw_File_Success Raw_File_Generation_DTTM Raw_Full_Path Raw_File_Size Processed_Success Processed_DTTM Processed_Full_Path Processed_File_Size Move_To_Stage_Success Move_To_Stage_DTTM Move_To_Stage_Full_Path Move_To_Stage_File_Size Errors Error_DTTM 	<p>extracts_factFileParticipant</p> <ul style="list-style-type: none"> File_Participant_ID Client_File_Run_ID Client_File_Format_ID Client_ID Filename Person_ID Activity Activity_Search_Date_Field Activity_Search_Date
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Schema that store file specifications to dimension table from PowerApps, and fact tables that log file and individual data for audits from Azure Data Factory pipeline runs

Extracts File Specification Gallery - Home

Client Extract File Specification Gallery

test

Channel_Test

Live

Standard Participation
Full file all-time

✓ Executable code - success

⌵

⌚ Schedule

On the 1st of every month
Schedule Start: 4/25/2023
Schedule End: not set
Last Run: never run
Next Run: 5/1/2023

👍 Automation: On

☰

TEST_1

Requirements Gathering

Standard Participation
Full file 7/1/2022 - today

✓ Executable code - success

⌵

⌚ Schedule




On the first day of every month
Schedule Start: 7/11/2022
Schedule End: not set
Last Run: never run
Next Run: 5/1/2023


👎 Automation: Off

☰


PowerApps Landing Page has schedule, code, template, status and automation data for each file type

Extracts File Details – Main and File Attributes

 File Specification Details  

Main Attributes 

File Format [ID]	Channel_Test [12]
Client [ID]	Blue Cross Blue Shield of Michigan [2554]
File Format Status	Live
File Category	Standard Participation
Is Standard?	Yes
Data Scope	Full
Jira Ticket URL	Not included

File Attributes 

Row Granularity	Service Request
Default Extension	.csv
Column Delimiter	
Line Termination	\r\n
Additional Encryption	
Production Filename Format	This_is_a_Test_<YYYYMMDDHHMMSS>
Test Filename Format	TEST_This_is_a_Test_<YYYYMMDDHHMMSS>
Send Blank File	Yes
Destination Filepath	

Click into each file specification to see and edit main attributes, file attributes, schedule, search parameters and code

Extracts File Details – Schedule Attributes

Schedule

Recurrence Settings

Recurrence Pattern

Day

Weekday

Week

Month

Year

Every Year(s)

Annual Run Date


Last Run Timestamp

never ran


Next Run Date

never ran

Schedule Start Date




Schedule End Date





Send Time


Click into each file specification to see and edit main attributes, file attributes, schedule, search parameters and code

Extracts File Details – Search Parameters


File Specification Details




Search Parameters & Code



Date Range	All-Time
Date Search Field	Intake Date
Include Spouse?	No
Include Dependent?	No
Only Portal Registrants?	No
Survey Completion Requirement	Not required
"Scheduled in 30 days?" = No	Ignore
"Eligible for Incentive?" = Yes	Ignore
Eligible Activities	CQP EBM IPEO MDS SDS REO
Insurance Carriers	All Insurance Carriers on Active Eligible Participants

Click into each file specification to see and edit main attributes, file attributes, schedule, search parameters and code

Extracts File Details – Auto-generated Executable Stored Procedure

 File Specification Details  

Executable Code

✓ Executable code - success

```
execute extracts.sp_Standard_Participation

@client_id = 2554,

@Channel_Or_Direct='Channel',

@insurance_pipe_list='All Insurance Carriers on Active Eligible
Participants',

@Date_Range_Note='All-Time',

@Is_Full=1,

@Search_Date_Field='Intake Date',

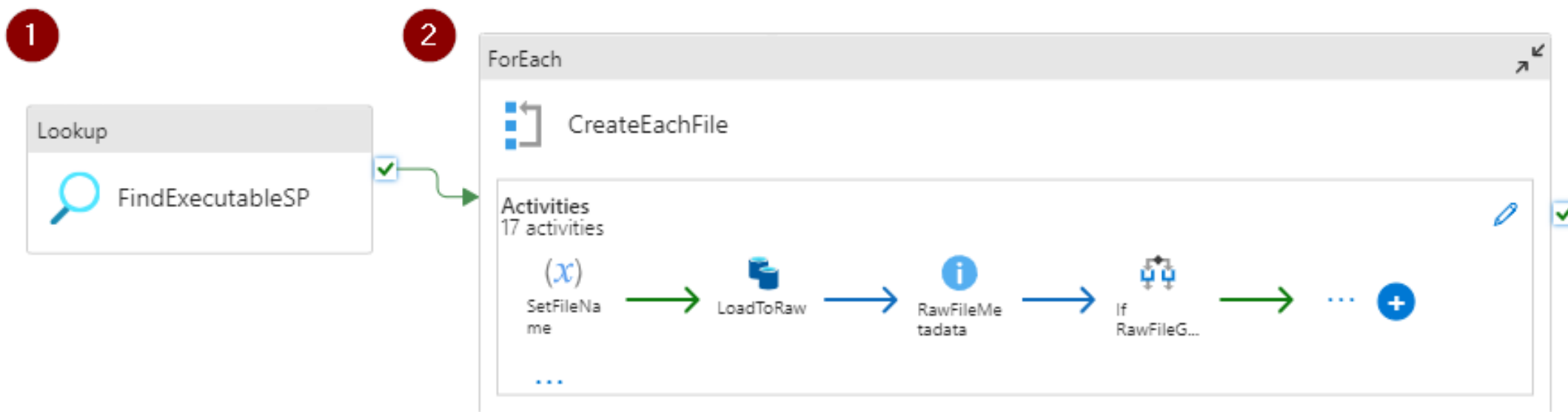
@Row_Granularity='Service Request',

@Sched_In_30_Days_Is_No=NULL,

@Eligible_For_Incentive_Is_Yes=NULL,
```

Click into each file specification to see and edit main attributes, file attributes, schedule, search parameters and code

Azure Data Factory Pipeline – Outer Layer



1. Lookup Activity – Runs a SQL query to identify all files that need to run on a specific day and gathers necessary file attributes and code
2. ForEach – Each file that needs to run today will get created, transformed, delivered and logged

Azure Data Factory Pipeline – ForEach Container

1. Initialize File Attribute Variables
2. Generate a Raw File
3. Gather Raw Metadata
4. Process raw file (if one exists) and log details to SQL. If one does not exist, log as error
5. Deliver via SFTP
6. Deliver via alternate SFTP
7. Set last run date to reset counter in dim table

