# Overview

GSA has been consuming all of the SAM extract files in our internal environment and the methodology and scripts provided below were used in the conversion. Our goal is to share these with the SIEWG community to lesson lessen burden with consuming the SAM extract files.

This document contains a summary of the methodology used to create the necessary directory structure and tables to consume the SAM extracts. The actual table creation scripts are provided below. The below was done using Oracle 11G but this same concept could be modified for use in your local environment if Oracle is not used. Separate scripts are provided according to the level of access which are Public, FOUO, or Sensitive because the fields in the extracts vary according to access levels.

# Overview of the Methodology

External tables were used in an Oracle 11G database running on Windows NT Server. The general steps are:

1. Create a new folder on the at the Oracle server.
2. Create new schema for the extract files. (This step is optional)
3. Create a new Oracle directory that references the folder that was created on the Oracle server (Step 1).
4. Adjust the script to reflect the naming of the Oracle directory and Schema that you used.
5. Run the script to create the external table.
6. Load the records from the SAM extract into the external table.

## Infrastructure:

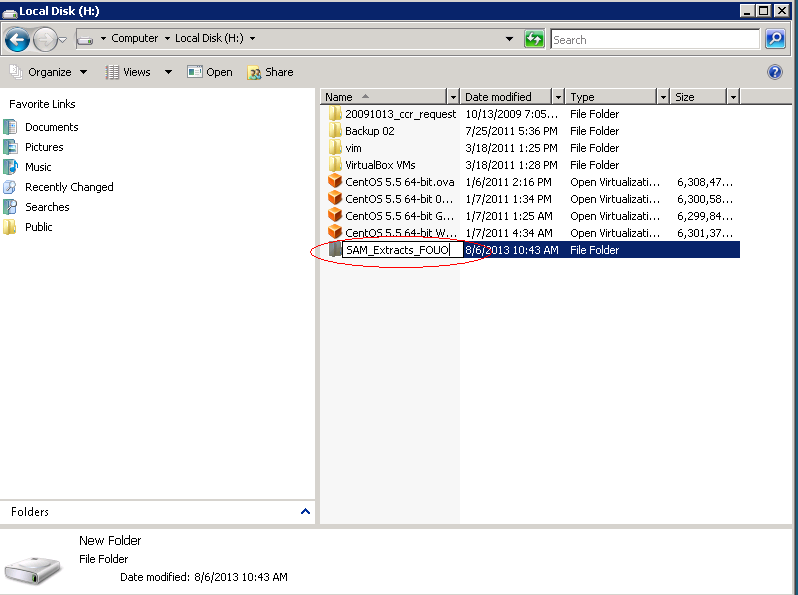
Oracle 11G, Wndows NT Server.

## ****Steps to Design the Environment:****

First you will be creating a folder that the Oracle Directory will reference. Then you will be adjusting the script to accommodate the naming of the folder and directory created on your server. Then you will run the script that creates the Oracle External Table. All of this should take about one hour.

## Design Process Steps:

**Step 1**. Create a new folder at the Oracle Server.



**Step 2 (optional).** Create a new oracle schema for the SAM extract files.

You can see script with the “dummy” user name, tablespaces and password below. Any database administrator can do this in a few minutes.

**CREATE USER SAM\_EXTRACTS IDENTIFIED BY SAM\_EXTRACTS1**

**DEFAULT TABLESPACE "USERS"**

**TEMPORARY TABLESPACE "TEMP";**

**Step 3.** Create a new Oracle directory referencing the created in **Step 1** folder.

**Create or replace directory "SAM\_EXTRACT\_DIR" as 'H:SAM\_Extracts\_FOUO'**

The name of the created directory is **SAM\_EXTRACT\_DIR.** You can name it any way you want, but you have to use this name in the attached script in Step 4. You can also see the Windows full directory path - **H:SAM\_Extracts\_FOUO,** for the folder created in **Step 1**. This again should be changed to your own folder path. Please note, that creating an Oracle directory is a routine job for any database administrator.

**Step 4**. Adjust the attached script to reflect created Oracle directory and Oracle schema.

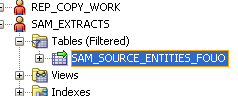
The Oracle script to run is attached to this document as Attachment A. There are three places where you may need to make adjustments.

Note: the bookmarks (bookmark 1, bookmark 2, bookmark 3) below will take you to the areas in the scripts to be updated with your own naming.

1. Schema and Table name ([bookmark 1](#Schema_and_Table_Names)). Change them to the schema name used in **Step 2** and your desired table name, if you do not like the one used by GSA. SAM\_SOURCE\_ENTITIES\_FOUO
2. Directory name ([bookmark 2](#Directory_Name)). Change it to the one used in **Step 3**.
3. File name ([bookmark 3](#File_Name)). You will need a permanent name for the extract file for Oracle to be able to reference it. We are using SAM\_FOUO\_MONTHLY.dat. You can change it if you wish.

**Step 5**. Run the script to create the Oracle external table.

Copy the attached script to an Oracle tool (we use the open source Oracle SQL Developer) and run it. You will see the new table created under the schema name from the **Step 2**.



## ****Load process:****

In these steps you will be downloading the SAM extract from either the SAM SFTP site or the SAM web site, unzipping the file and moving the extract file to the folder that you created earlier and then loading the file into the external table that you have created.

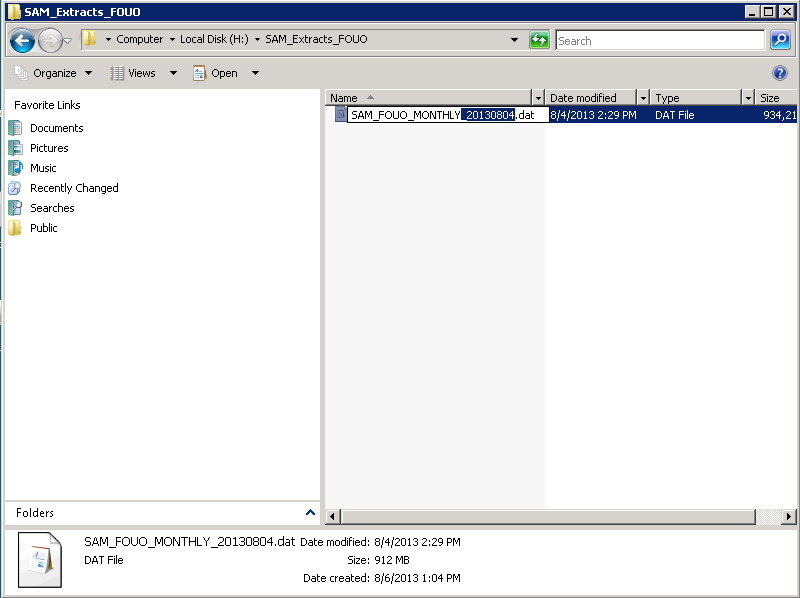
Here are the steps for the Load Process:

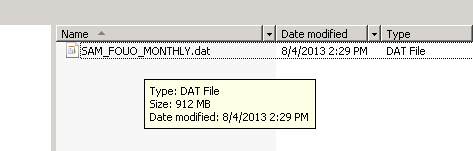
1. Load the extract file from SAM SFTP server or SAM web site (same process as for legacy extract files but from different location).

2. Unzip the extract file.

3. (optional). Archive the extract file according to your enterprise policy. –

4. Move the unzipped extract file to the folder created during **Step 1** of the design process (above) and rename it to match the name selected in **Step 4** of the design process (above).





5. Run the record count for the table created during **Step 5** of the design process. –

select count(\*) from SAM\_EXTRACTS.SAM\_SOURCE\_ENTITIES\_FOUO

6. Review the Oracle log and bad files created in the same directory. – This should take about 3 minutes assuming everything runs properly.

Please note, that Oracle has created two files for you – the log file that gives you the number of records that were rejected and the bad file that has all rejected records.

A successful run rejects two records – the header and the footer:

**KUP-04021: field formatting error for field DUNS**

**KUP-04026: field too long for datatype**

**KUP-04101: record 1 rejected in file H:SAM\_Extracts\_FOUO\SAM\_FOUO\_MONTHLY.dat**

**KUP-04021: field formatting error for field DUNS**

**KUP-04026: field too long for datatype**

**KUP-04101: record 825953 rejected in file H:SAM\_Extracts\_FOUO\SAM\_FOUO\_MONTHLY.dat**

And this is what you find in the bad file:

**BOF FOUO 0000000 20130804 0825951 0001617**

**EOF FOUO 0000000 20130804 0825951 0001617**

The record count result from the step 5 of the load process was in this particular case equal to 825951. Your count will be different depending on how many records are in the extract that you download.

As an example, we corrupted a perfectly good extract to show you how it will look in the log file:

**KUP-04021: field formatting error for field DUNS**

**KUP-04026: field too long for datatype**

**KUP-04101: record 1 rejected in file H:SAM\_Extracts\_FOUO\SAM\_FOUO\_MONTHLY.dat**

**KUP-04021: field formatting error for field END\_OF\_RECORD**

**KUP-04026: field too long for datatype**

**KUP-04101: record 2 rejected in file H:SAM\_Extracts\_FOUO\SAM\_FOUO\_MONTHLY.dat**

**KUP-04021: field formatting error for field SAM\_EXTRACT\_CODE**

**KUP-04026: field too long for datatype**

**KUP-04101: record 3 rejected in file H:SAM\_Extracts\_FOUO\SAM\_FOUO\_MONTHLY.dat**

**KUP-04021: field formatting error for field END\_OF\_RECORD**

**KUP-04026: field too long for datatype**

You will know which records were rejected and why from reading through the log file.

Please note that an Oracle external table is actually a file that can be used as a table; it means it is read only. It is possible to analyze it using SQL statements and insert its records to a “real” Oracle table with usual Oracle INSERT statement.

Attachment A. Create External Oracle Table for SAM FOUO Extract.

CREATE TABLE "SAM\_EXTRACTS"."SAM\_SOURCE\_ENTITIES\_FOUO"

(

"DUNS" VARCHAR2(9 BYTE),

"DUNS\_PLUS4" VARCHAR2(4 BYTE),

"CAGE\_CODE" VARCHAR2(5 BYTE),

"DODAAC" VARCHAR2(9 BYTE),

"SAM\_EXTRACT\_CODE" VARCHAR2(1 BYTE),

"PURPOSE\_OF\_REGISTRATION" VARCHAR2(2 BYTE),

"REGISTRATION\_DATE" VARCHAR2(8 BYTE),

"EXPIRATION\_DATE" VARCHAR2(8 BYTE),

"LAST\_UPDATE\_DATE" VARCHAR2(8 BYTE),

"ACTIVATION\_DATE" VARCHAR2(8 BYTE),

"LEGAL\_BUSINESS\_NAME" VARCHAR2(120 BYTE),

"DBA\_NAME" VARCHAR2(120 BYTE),

"COMPANY\_DIVISION" VARCHAR2(60 BYTE),

"DIVISION\_NUMBER" VARCHAR2(10 BYTE),

"SAM\_ADDRESS\_1" VARCHAR2(100 BYTE),

"SAM\_ADDRESS\_2" VARCHAR2(100 BYTE),

"SAM\_CITY" VARCHAR2(100 BYTE),

"SAM\_PROVINCE\_OR\_STATE" VARCHAR2(50 BYTE),

"SAM\_ZIP\_POSTAL\_CODE" VARCHAR2(35 BYTE),

"SAM\_ZIP\_CODE\_PLUS4" VARCHAR2(4 BYTE),

"SAM\_COUNTRY\_CODE" VARCHAR2(3 BYTE),

"SAM\_CONGRESSIONAL\_DISTRICT" VARCHAR2(2 BYTE),

"BUSINESS\_START\_DATE" VARCHAR2(8 BYTE),

"FISCAL\_YEAR\_END\_CLOSE\_DATE" VARCHAR2(4 BYTE),

"COMPANY\_SECURITY\_LEVEL" VARCHAR2(2 BYTE),

"EMPLOYEE\_SECURITY\_LEVEL" VARCHAR2(2 BYTE),

"CORPORATE\_URL" VARCHAR2(200 BYTE),

"ENTITY\_STRUCTURE" VARCHAR2(2 BYTE),

"STATE\_OF\_INCORPORATION" VARCHAR2(2 BYTE),

"COUNTRY\_OF\_INCORPORATION" VARCHAR2(3 BYTE),

"BUSINESS\_TYPE\_COUNTER" VARCHAR2(4 BYTE),

"BUS\_TYPE\_STRING" VARCHAR2(300 BYTE),

"AGENCY\_BUSINESS\_PURPOSE" VARCHAR2(1 BYTE),

"PRIMARY\_NAICS" VARCHAR2(6 BYTE),

"NAICS\_CODE\_COUNTER" VARCHAR2(4 BYTE),

"NAICS\_CODE\_STRING" CLOB,

"PSC\_CODE\_COUNTER" VARCHAR2(4 BYTE),

"PSC\_CODE\_STRING" VARCHAR2(3500 BYTE),

"CREDIT\_CARD\_USAGE" VARCHAR2(1 BYTE),

"CORRESPONDENCE\_FLAG" VARCHAR2(1 BYTE),

"MAILING\_ADDRESS\_LINE\_1" VARCHAR2(100 BYTE),

"MAILING\_ADDRESS\_LINE\_2" VARCHAR2(200 BYTE),

"MAILING\_ADDRESS\_CITY" VARCHAR2(35 BYTE),

"MAILING\_ADD\_POSTAL\_CODE" VARCHAR2(35 BYTE),

"MAILING\_ADDRESS\_ZIP\_CODE\_PLUS4" VARCHAR2(4 BYTE),

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"HQ\_PARENT\_ST\_ADD\_1" VARCHAR2(100 BYTE),

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"EDI\_VAN\_PROVIDER" VARCHAR2(20 BYTE),

"ISA\_QUALIFIER" VARCHAR2(2 BYTE),

"ISA\_IDENTIFIER" VARCHAR2(15 BYTE),

"FUNCTIONAL\_GROUP\_IDENTIFIER" VARCHAR2(15 BYTE),

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"EDI\_POC\_EMAIL\_" VARCHAR2(80 BYTE),

"AVERAGE\_NUMBER\_OF\_EMPLOYEES" VARCHAR2(15 BYTE),

"AVERAGE\_ANNUAL\_REVENUE" VARCHAR2(15 BYTE),

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"ACCOUNTS\_RECEIVABLE\_POC\_TITLE" VARCHAR2(50 BYTE),

"ACCOUNTS\_RECEIVABLE\_POC\_US\_PHN" VARCHAR2(30 BYTE),

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"EXCLUSION\_STATUS\_FLAG" VARCHAR2(1 BYTE),

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"SAM\_NUMERICS\_COUNTER" VARCHAR2(4 BYTE),

"SAM\_NUMERICS\_CODE\_STRING" VARCHAR2(1589 BYTE),

"NO\_PUBLIC\_DISPLAY\_FLAG" VARCHAR2(5 BYTE),

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"DISASTER\_RESPONSE\_STRING" VARCHAR2(70 BYTE),

"ANNUAL\_IGT\_REVENUE" VARCHAR2(15 BYTE),

"SOURCE" VARCHAR2(20 BYTE),

"DEPARTMENT\_CODE" VARCHAR2(2 BYTE),

"HIERARCHY\_DEPARTMENT\_CODE" VARCHAR2(4 BYTE),

"HIERARCHY\_DEPARTMENT\_NAME" VARCHAR2(100 BYTE),

"HIERARCHY\_AGENCY\_CODE" VARCHAR2(4 BYTE),

"HIERARCHY\_AGENCY\_NAME" VARCHAR2(100 BYTE),

"HIERARCHY\_OFFICE\_CODE" VARCHAR2(50 BYTE),

"ELIMINATIONS\_POC\_FIRST\_NAME" VARCHAR2(60 BYTE),

"ELIMINATIONS\_POC\_MID\_INITIAL" VARCHAR2(3 BYTE),

"ELIMINATIONS\_POC\_LAST\_NAME" VARCHAR2(35 BYTE),

"ELIMINATIONS\_POC\_TITLE" VARCHAR2(50 BYTE),

"ELIMINATIONS\_POC\_ST\_ADD\_1" VARCHAR2(100 BYTE),

"ELIMINATIONS\_POC\_ST\_ADD\_2" VARCHAR2(100 BYTE),

"ELIMINATIONS\_POC\_CITY" VARCHAR2(55 BYTE),

"ELIMINATIONS\_POC\_POSTAL\_CODE" VARCHAR2(35 BYTE),

"ELIMINATIONS\_POC\_ZIP\_CD\_PLUS4" VARCHAR2(4 BYTE),

"ELIMINATIONS\_POC\_COUNTRY\_CODE" VARCHAR2(3 BYTE),

"ELIMINATIONS\_POC\_STATE\_OR\_PROV" VARCHAR2(50 BYTE),

"ELIMINATIONS\_POC\_US\_PHONE" VARCHAR2(30 BYTE),

"ELIMINATIONS\_POC\_US\_PHONE\_EXT" VARCHAR2(10 BYTE),

"ELIMINATIONS\_POC\_NON\_US\_PHONE" VARCHAR2(30 BYTE),

"ELIMINATIONS\_POC\_FAX\_US\_ONLY" VARCHAR2(30 BYTE),

"ELIMINATIONS\_POC\_EMAIL" VARCHAR2(80 BYTE),

"SALES\_POC\_FIRST\_NAME" VARCHAR2(60 BYTE),

"SALES\_POC\_MIDDLE\_INITIAL" VARCHAR2(3 BYTE),

"SALES\_POC\_LAST\_NAME" VARCHAR2(35 BYTE),

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"SALES\_POC\_ST\_ADD\_2" VARCHAR2(100 BYTE),

"SALES\_POC\_CITY" VARCHAR2(55 BYTE),

"SALES\_POC\_ZIP\_POSTAL\_CODE" VARCHAR2(35 BYTE),

"SALES\_POC\_ZIP\_CODE\_PLUS4" VARCHAR2(4 BYTE),

"SALES\_POC\_COUNTRY\_CODE" VARCHAR2(3 BYTE),

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"SALES\_POC\_FAX\_US\_ONLY" VARCHAR2(30 BYTE),

"SALES\_POC\_EMAIL" VARCHAR2(80 BYTE),

"END\_OF\_RECORD" VARCHAR2(5 BYTE)

)

ORGANIZATION EXTERNAL

(

TYPE ORACLE\_LOADER DEFAULT DIRECTORY "SAM\_EXTRACT\_DIR" ACCESS PARAMETERS ( records delimited BY '\n' fields terminated BY '|' OPTIONALLY ENCLOSED BY '""' missing field VALUES are NULL

( DUNS CHAR(9 ), DUNS\_PLUS4 CHAR(4 ), CAGE\_CODE CHAR(5 ), DODAAC CHAR(9 ), SAM\_EXTRACT\_CODE CHAR(1 ), PURPOSE\_OF\_REGISTRATION CHAR(2 ), REGISTRATION\_DATE CHAR(8 ), EXPIRATION\_DATE CHAR(8 ), LAST\_UPDATE\_DATE CHAR(8 ), ACTIVATION\_DATE CHAR(8 ), LEGAL\_BUSINESS\_NAME CHAR(120 ), DBA\_NAME CHAR(120 ), COMPANY\_DIVISION CHAR(60 ), DIVISION\_NUMBER CHAR(10 ), SAM\_ADDRESS\_1 CHAR(100 ), SAM\_ADDRESS\_2 CHAR(100 ), SAM\_CITY CHAR(100 ), SAM\_PROVINCE\_OR\_STATE CHAR(50 ), SAM\_ZIP\_POSTAL\_CODE CHAR(35 ), SAM\_ZIP\_CODE\_PLUS4 CHAR(4 ), SAM\_COUNTRY\_CODE CHAR(3 ), SAM\_CONGRESSIONAL\_DISTRICT CHAR(2 ), BUSINESS\_START\_DATE CHAR(8 ), FISCAL\_YEAR\_END\_CLOSE\_DATE CHAR(4 ), COMPANY\_SECURITY\_LEVEL CHAR(2 ), EMPLOYEE\_SECURITY\_LEVEL CHAR(2 ), CORPORATE\_URL CHAR(200 ), ENTITY\_STRUCTURE CHAR(2 ), STATE\_OF\_INCORPORATION CHAR(2 ),

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CHAR(15 ), FUNCTIONAL\_GROUP\_IDENTIFIER CHAR(15 ), F\_820S\_REQUEST\_FLAG CHAR(1 ), EDI\_POC\_FIRST\_NAME CHAR(60 ), EDI\_POC\_MIDDLE\_INITIAL CHAR(3 ), EDI\_POC\_LAST\_NAME CHAR(35 ), EDI\_POC\_TITLE CHAR(50 ), EDI\_POC\_US\_PHONE CHAR(30 ), EDI\_POC\_US\_PHONE\_EXT CHAR(10 ), EDI\_POC\_NON\_US\_PHONE CHAR(30 ), EDI\_POC\_FAX\_US\_ONLY CHAR(30 ), EDI\_POC\_EMAIL\_ CHAR(80 ), AVERAGE\_NUMBER\_OF\_EMPLOYEES CHAR(15 ), AVERAGE\_ANNUAL\_REVENUE CHAR(15 ), ACCOUNT\_RECEIVABL\_POC\_FIRST\_NM CHAR(60 ), ACCOUNT\_RECEIVABL\_POC\_MID\_INIT CHAR(3 ), ACCOUNT\_RECEIVABLE\_POC\_LAST\_NM CHAR(35 ), ACCOUNTS\_RECEIVABLE\_POC\_TITLE CHAR(50 ), ACCOUNTS\_RECEIVABLE\_POC\_US\_PHN CHAR(30 ), ACCNT\_RECEIVABL\_POC\_US\_PHN\_EXT CHAR(10 ), ACCNT\_RECEIVABL\_POC\_NON\_US\_PHN CHAR(30 ), ACCOUNTS\_RECEIVABLE\_POC\_FAX\_US CHAR(30 ), ACCOUNTS\_RECEIVABLE\_POC\_EMAIL\_ CHAR(80 ),

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LOCATION ( 'SAM\_FOUO\_MONTHLY.dat' )

)

REJECT LIMIT UNLIMITED;