

Deleting Orphaned Database Items

Customers who deleted echoes in earlier versions of EchoSystem (prior to 5.3) may have orphaned items in their database. Earlier versions of EchoSystem primarily deleted echoes from the Presentation table, but this left related data in other tables orphaned. Beginning with EchoSystem 5.3, echo deletion comprehensively deletes all presentation *and* related table data.

Customers currently running 5.2 or who have upgraded to 5.3 can remove this legacy orphaned data using a database cleanup script provided by Echo360.

This document contains instructions for determining if you need to run the database cleanup script, and then for configuring the script as a scheduled job to run when system usage is low.

IMPORTANT: This process has been tested and can be run against a 5.2 or 5.3 ESS Database. Do NOT run these scripts if you are running EchoSystem v5.1 or earlier.

Before configuring the script to run, check to see if you need to run the script at all, and if you do, for how long the script must run to complete the deletion task.

Use the following script to query the database. The figure returned indicates how many hours it will take to complete the task of removing orphaned database items.

```
SELECT count(distinct(c.ID))/60 as Hours from CAPTURE c
left join PRESENTATION p on c.id=p.capture_id
left join PROCESSING_TASK pt on c.id=pt.CAPTURE_ID
where p.id is null and pt.id is not null and STATUS_ID in (select ID
from CAPTURE_STATUS where NAME_KEY like '%complete%')
```

If the query returns a zero (0), you do not need to run the deletion script. Otherwise you need to plan to run the script for the number of hours returned by this query.

The scheduled job that runs the deletion script is configured by default to run for 3 hours, from 12AM to 3AM every day until disabled. You can change both the duration and the launch time of the job.

Use the appropriate instructions provided for the database you are running:

- [MSSQL \(Microsoft SQL Server\)](#)
- [MySQL](#)

As always, you can contact [Customer Support](#) for assistance if needed.

MSSQL (Microsoft SQL Server) Instructions

Before you begin, download the script to your server. It is titled “Purge_Orphaned_Capture_Job_MSSQL.sql”.

You will need to modify some of the entries using the following steps.

1. Open the downloaded script in SQL Server Management Studio. To do so, navigate to **File > Open > File** then select the Purge_Orphaned_Capture_Job_MSSQL.sql file.
2. Modify the database name in the script to match your database name. Search for **@database_name=N'essdata'** highlighted in the below figure, and replace 'essdata' with your database name.

```

where CAPTURE_ID = @Capture_id;

delete from EVENT_ENTITY where alert_id in (select ID from ALERT
where CAPTURE_ID = @Capture_id);

delete from ALERT
where CAPTURE_ID = @Capture_id;

delete from EVENT_ENTITY
where CAPTURE_ID = @Capture_id;

delete from DEVICE_SOURCE_STATUS
where CAPTURE_ID = @Capture_id;

delete FROM CAPTURE
where ID = @Capture_id;

Set @Count =@Count +1;

PRINT 'Current count ' + CAST(@Count AS VARCHAR(20)) + ' Capture ID ' + @Capture_id;
FETCH NEXT
FROM @GetID INTO @Capture_id
END
CLOSE @GetID
DEALLOCATE @GetID',
    @database_name=N'essdata',
    @flags=0
IF (@@ERROR <> 0 OR @ReturnCode <> 0) GOTO QuitWithRollback
EXEC @ReturnCode = msdb.dbo.sp_update_job @job_id = @jobId, @start_step_id = 1
IF (@@ERROR <> 0 OR @ReturnCode <> 0) GOTO QuitWithRollback
EXEC @ReturnCode = msdb.dbo.sp_add_jobschedule @job_id=@jobId, @name=N'Purge Orphaned Capture',
    @enabled=1,
    @freq_type=4,
    @freq_interval=1,
    @freq_subday_type=4,
    @freq_subday_interval=10,
    @freq_relative_interval=0,
    @freq_recurrence_factor=0,
    @active_start_date=20130701,
    @active_end_date=99991231,
    @active_start_time=0,
    @active_end_time=30000,
    @schedule_uid=N'55ef5471-a59f-4399-9602-e5bffe94b3f'
IF (@@ERROR <> 0 OR @ReturnCode <> 0) GOTO QuitWithRollback
EXEC @ReturnCode = msdb.dbo.sp_add_jobserver @job_id = @jobId, @server_name = N'(local)'
IF (@@ERROR <> 0 OR @ReturnCode <> 0) GOTO QuitWithRollback
COMMIT TRANSACTION
GOTO EndSave
QuitWithRollback:
    IF (@@TRANCOUNT > 0) ROLLBACK TRANSACTION

```

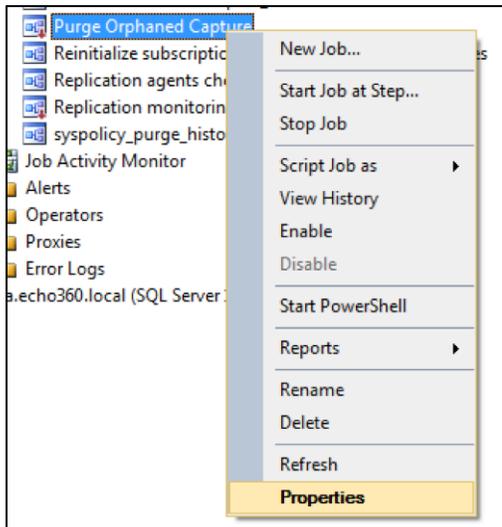
3. **Save** the changes.
4. **Execute** the saved script. This creates the scheduled job for deleting orphaned items.

When finished, a Purge Orphaned Capture job should appear in the Jobs tab under SQL Server Agent in the left side of the window. If no changes are made to the scheduled job, it will kick off at 12AM every night and run for three hours until disabled.

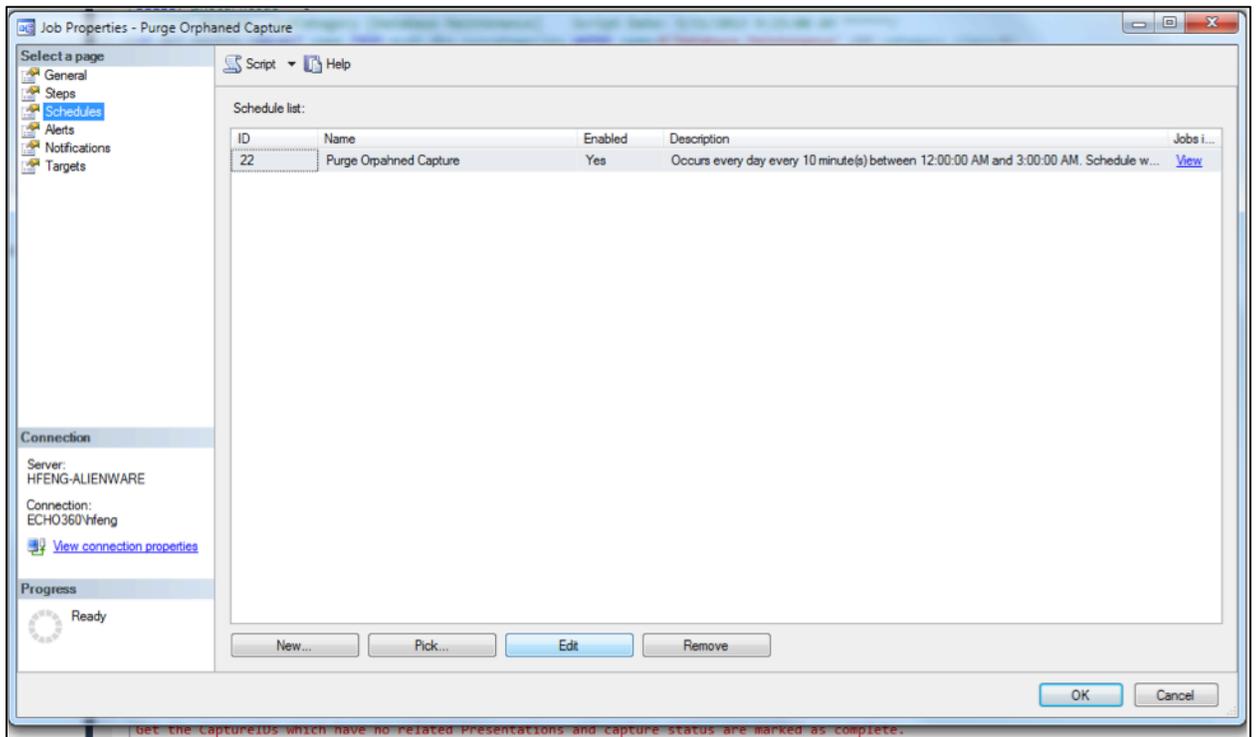
Once the job has run for the estimated time (returned from the initial query located at the beginning of this document) run the query again to see if more time is needed. When the query returns a zero, you can disable the scheduled job.

If you want to change either the time the job begins or the duration, continue with the following steps. Otherwise you are finished.

1. Right-click the **Purge Orphaned Capture** job from the left side of the window, then click **Properties** as shown in the below figure.



2. Click the **Schedules** tab from the left side to display the schedule for the job, as shown in the below figure.



3. Click **Edit** to change the scheduled time and/or duration.
4. Click **Save** when finished.

Once the job has run for the estimated time (returned from the initial query located at the beginning of this document) run the query again to see if more time is needed. When the query returns a zero, you can disable the scheduled job.

MYSQL Instructions

Before you begin, download the script to your server. It is titled “Purge_Orphaned_Capture_Job_MYSQL.sql”.

1. Run the downloaded Purge_Orphaned_Capture_Job_MYSQL.sql against the ESS database. This script creates the scheduled job for deleting orphaned items.

If no changes are made to the job, it will kick off at 12AM every night and run for three hours until the job is manually disabled.
2. To change the scheduled start time or duration, run the following statement, changing the start-time value in the `TIMESTAMP` entry to your preferred start time. This value is highlighted in the below statement.

```
DELIMITER $$
ALTER
    EVENT `Purge_Orphaned_Capture`
    ON SCHEDULE EVERY 1 DAY
    STARTS
    TIMESTAMP(CURRENT_DATE+0, '00:00:00')
    DO BEGIN
        Call delete_orphaned_captures();
    END
```

Once the job has run for the estimated time (returned from the initial query located at the beginning of this document) run the query again to see if more time is needed. When the query returns a zero, you can disable the scheduled job.