LCM ERROR WHEN UPGRADING TO SQL 25000

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Applies to: LOGFAS 8.0, 8.1

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Document change log			
Version	Comments	Date	Author
1.0	Initial version	17 April 2023	Ioan-Felix STAN
1.1	Update	04 May 2023	Ioan-Felix STAN
2.0	Rewrite instructions	24 May 2023	Ioan-Felix STAN

GENERAL

Several issues could occur when updating a database to SQL version 25000, by using the LOGFAS Connection Manager (LCM) module, release version 8.

These issues are further described in this document for the different scenarios.

If these issues do not occur for your databases, then you are not affected an no action is required.

SCENARIOS

1. Database Used for Replication – "*Value too long*" error

1.1. Symptoms

The following error message appears in LCM when attempting to apply SQL version 25000.

```
Npgsql.PostgresException (0x80004005): 22001: value too long for type
character varying(20)
   at
Npgsql.NpgsqlConnector.<>c__DisplayClass161_0.<<ReadMessage>g_
_ReadMessageLong|0>d.MoveNext()
--- End of stack trace from previous location where exception was
thrown ---
   at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
   at
Npgsql.NpgsqlConnector.<>c__DisplayClass161_0.<<ReadMessage>g_
_ReadMessageLong|0>d.MoveNext()
--- End of stack trace from previous location where exception was
thrown ---
   at
System.Runtime.CompilerServices.TaskAwaiter.ThrowForNonSuccess(Task
task)
   at
System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDe
buggerNotification(Task task)
   at System.Threading.Tasks.ValueTask`1.get_Result()
   at Npgsql.NpgsqlDataReader.<NextResult>d__46.MoveNext()
--- End of stack trace from previous location where exception was
thrown ---
   at
System.Runtime.CompilerServices.TaskAwaiter.ThrowForNonSuccess(Task
task)
   at
System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDe
buggerNotification(Task task)
   at Npgsql.NpgsqlDataReader.NextResult()
   at
Npgsql.NpgsqlCommand.<ExecuteDbDataReader>d__100.MoveNext()
--- End of stack trace from previous location where exception was
thrown ---
   at
System.Runtime.CompilerServices.TaskAwaiter.ThrowForNonSuccess(Task
task)
   at
System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDe
buggerNotification(Task task)
   at Npgsql.NpgsqlCommand.<ExecuteNonQuery>d__92.MoveNext()
--- End of stack trace from previous location where exception was
thrown ---
   at
System.Runtime.CompilerServices.TaskAwaiter.ThrowForNonSuccess(Task
task)
   at
System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDe
buggerNotification(Task task)
   at Npgsql.NpgsqlCommand.ExecuteNonQuery()
   at LFDbTool.SQLUpdate.runSqlPatch(String dbname, String sqlcode,
String patchlevel)
```

LCM Error Message #1 - Database Used for Replication

1.2. Cause

This happens when the database being patched was used for Replication in a previous LOGFAS release, without being cleaned of Replication tables, which cause malfunctions during the update.

1.3. Resolution / Workaround

The changes created in the database by running the *ReplicationDB* script have to be reverted. This can be done by System Administrators by running the *RemoveReplicationTablesFromDB* script, located in `C:\Program Files (x86)\NATO\LOGFAS8\Replication`

2. History Tables Enabled – "*record new has no field GroupPermissionID*" error

2.1. Symptoms

The following error message appears in LCM when attempting to apply SQL version 25000.

```
Npgsql.PostgresException (0x80004005): 42703: record "new" has no
field "GroupPermissionID"
  at
Npgsql.Internal.NpgsqlConnector.<<ReadMessage>g__ReadMessageL
ong|211_0>d.MoveNext()
--- End of stack trace from previous location where exception was
thrown ---
  at
System.Runtime.CompilerServices.TaskAwaiter.ThrowForNonSuccess(Tas
k task)
  at
System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndD
ebuggerNotification(Task task)
  at System.Threading.Tasks.ValueTask`1.get_Result()
  at Npgsql.NpgsqlDataReader.<NextResult>d__47.MoveNext()
--- End of stack trace from previous location where exception was
thrown ---
  at
System.Runtime.CompilerServices.TaskAwaiter.ThrowForNonSuccess(Tas
k task)
  at
System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndD
ebuggerNotification(Task task)
  at Npgsql.NpgsqlDataReader.NextResult()
  at Npgsql.NpgsqlCommand.<ExecuteReader>d__116.MoveNext()
--- End of stack trace from previous location where exception was
thrown ---
  at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
  at Npgsql.NpgsqlCommand.<ExecuteReader>d__116.MoveNext()
--- End of stack trace from previous location where exception was
thrown ---
  at
System.Runtime.CompilerServices.TaskAwaiter.ThrowForNonSuccess(Tas
k task)
  at
System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndD
ebuggerNotification(Task task)
  at Npgsql.NpgsqlCommand.<ExecuteNonQuery>d__104.MoveNext()
--- End of stack trace from previous location where exception was
thrown ---
  at
System.Runtime.CompilerServices.TaskAwaiter.ThrowForNonSuccess(Tas
k task)
  at
System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndD
ebuggerNotification(Task task)
  at Npgsql.NpgsqlCommand.ExecuteNonQuery()
  at LFDbTool.SQLUpdate.runSqlPatch(String dbname, String sqlcode,
String patchlevel)
 Exception data:
   Severity: ERROR
   SqlState: 42703
   MessageText: record "new" has no field "GroupPermissionID"
   Where: SQL statement "SELECT "sp_StoreHistory"(1::smallint,
new::text,
'SEC_GroupPermission'::varchar,new."GroupPermissionID"::varchar,null::
varchar,null::varchar,null::varchar,null::varchar)"
PL/pgSQL function "TI_HISTORY_SEC_GroupPermission"() line 3 at
PERFORM
   File: pl_exec.c
   Line: 5542
   Routine: plpgsql_exec_get_datum_type_info
```

LCM Error Message #2 - History Tables Enabled

2.2. Cause

This occurs due to a bug in the SQL 25000 file. The *SEC_UserGroup* and *SEC_GroupPermission* tables are changed, records are inserted, then the *History* functions are updated. As a consequence, the old *History* function is used with newly inserted records.

2.3. Resolution / Workaround

2.3.1. Manual Fix of SQL 25000 Patch

Prior to applying the SQL 25000 patch, the SQL update file needs to be changed.

1. Go to: `C:\Program Files\NATO\LOGFAS8\Common\SQL`
2. Replace the `LogFASUpdate025.sql` with this file:

2.3.2. SQL 25000 Patch Fix in LOGFAS 8.2.0

This issue should be fixed in LOGFAS 8.2.