

MBTIP Environment Document (

MBTIP Environment Document (TriggerBuffered_v250508a)

Path: C:\ETP_A_24\Show50KTst\PBatch **Version:** TriggerBuffered_v250508a , May 8, 2025

Active Files: 47 **Purpose:** The MBTIP system manages protection batch processing (triggered and non-triggered) for data in the patients table, using PostgreSQL (via dbConnect.ini), Clarion applications (MBTIP.exe , ETPPBt.exe), and batch scripts to handle data protection, XML file generation, and trigger-based automation.

Overview

The MBTIP system supports:

- **Table Setup:** Creates and manages tables (etpproac , etpprorq , etpprofm , etpprotp , ETPProHd , ETPProFM , ETPParam , ETPProBf) for protection data.
- **Non-Triggered Batches:** Manual batch processing by range (ETPParam.min_id , max_id) via MasterBatchP.bat , renaming XML files and executing protection sequences.
- **Triggered Batches:** Automated batch processing via triggers (insert_prq_trigger) using StartProcessing.bat and StartTriggeredBatch.bat .
- **Trigger Management:** Enables/disables triggers and audits for rogue triggers.
- **Diagnostics:** Monitors trigger and batch status.
- **Data Entry:** Manages dataentry_role and buffered data flushing.
- **Executables/Configuration:** Clarion apps (MBTIP.exe , ETPPBt.exe), protection engine (ETPProt.exe), and configuration files (dbConnect.ini , ETPPBt.INI , MBTIP.INI , CTPHeader.INI , FieldMappings.ini , SSECUR_.TPS).

Active Files (47)

Alphabetized list of active files in C:\ETP_A_24\Show50KTst\PBatch , with roles:

1. **AttachInsertPRQTrigger_Auto.sql:** Attaches the insert_prq_trigger to the patients table for triggered batch processing.
2. **AuditTriggers.bat:** Runs AuditTriggers.sql to check for rogue triggers, called by ? Btn_AuditTriggers in BatchControlWindow.clw .
3. **AuditTriggers.sql:** Queries trigger status, updates TAAudLog (sendatrix_audit_log , Clarion: TAAudLog.Status STRING(20) , Details STRING(100)) and TxtAuditStatus / TxtLastDetected .
4. **ClaimAndReturnProcessingBatch.bat:** Executes ClaimAndReturnProcessingBatch.sql for triggered buffered batch processing, called by StartTriggeredBatch.bat .

5. **ClaimAndReturnProcessingBatch.sql**: Processes triggered batches, populating ETTPProBf and generating XML files (e.g., etpprorq.xml).
6. **ClaimBatch_ReturnBatchNumber.sql**: Claims a batch and returns a batch number, used by StartProcessing.bat for triggered batches.
7. **Create_DataEntry_Role.sql**: Creates the dataentry_role in PostgreSQL for data entry permissions.
8. **CreateRogueTriggers.sql**: Creates test rogue triggers for auditing (non-production, used with RemoveRogueTriggers.sql).
9. **CreateTriggerInsertPRQFunction_Auto.sql**: Creates the trigger_insert_prq function for triggered batch processing.
10. **CTPHeader.INI**: Configuration file for batch processing, used by ETPPBt.exe and MBTIP.exe .
11. **dbConnect.ini**: Stores database connection settings (glo:dbConnect , e.g., DRIVER='ODBC';SERVER='localhost';PORT='5432';DATABASE='postgres';UID='postgres';PWD='sa').
12. **DisableTriggerMode.bat**: Runs DisableTriggerMode.sql to disable trigger mode, called by ?Btn_DisableTrigger .
13. **DisableTriggerMode.sql**: Sets ETTPConfig.TriggerEnabled='false' to disable triggered batching.
14. **EnableTriggerMode.bat**: Runs ResetETTPPro.bat and EnableTriggerMode.sql , called by ?Btn_EnableTrigger .
15. **EnableTriggerMode.sql**: Sets ETTPConfig.TriggerEnabled='true' to enable triggered batching.
16. **ETPPProt.exe**: Main protection engine, processes etpprorq.xml for triggered batches, called by StartProcessing.bat .
17. **ETPPBt.exe**: Protection setup program for pre-trigger and manual batch processing, uses ETPPBt.INI .
18. **ETPPBt.INI**: Configuration file for ETPPBt.exe .
19. **FieldMappings.ini**: Defines field mappings for batch processing, used by ETPPBt.exe and MBTIP.exe .
20. **FlushBufferedToPRQ.sql**: Processes buffered data to etpprorq , called by StartFlushBuffered.bat in a timer loop.
21. **InitDataEntryRole.bat**: Runs Create_DataEntry_Role.sql , called by ?Btn_InitRole .
22. **MasterBatchP.bat**: Executes non-triggered batch processing by range (ETTPParam.min_id , max_id), calls PBRenameXMLPrep.bat , PBatch1.bat – PBatch9.bat , triggered by ?Btn_ManualBatch (RUN('.\MasterBatchP.bat,1')).

- 23. MBTIP.exe:** Main Clarion application for triggered batch processing, uses MBTIP.INI and SSECUR_.TPS .
- 24. MBTIP.INI:** Configuration file for MBTIP.exe .
- 25. PBatch0.bat:** Runs PBatch0.sql to create protection tables, suggested for ? Btn_CreateTables .
- 26. PBatch0.sql:** Creates tables: etpproac , etpprorq , etpprofm , etpprotp , ETPProHd , ETPProFM , ETPParam , ETPProBf .
- 27. PBatch1.bat:** Runs Pbatch1.sql for non-triggered batch processing, called by MasterBatchP.bat .
- 28. PBatch1R.bat:** Variant of PBatch1.bat , runs Pbatch1.sql , called by MasterBatchP.bat .
- 29. PBatch2.bat:** Runs PBatch2.sql , called by MasterBatchP.bat .
- 30. PBatch2.sql:** Protection sequence script, used by PBatch2.bat and StartProcessing.bat .
- 31. PBatch3.bat:** Runs PBatch3.sql , called by MasterBatchP.bat .
- 32. PBatch3.sql:** Protection sequence script, used by PBatch3.bat .
- 33. PBatch4.bat:** Runs PBatch4.sql , called by MasterBatchP.bat .
- 34. PBatch4.sql:** Protection sequence script, used by PBatch4.bat .
- 35. PBatch5.bat:** Runs PBatch5.sql , called by MasterBatchP.bat .
- 36. PBatch5.sql:** Protection sequence script, used by PBatch5.bat and StartProcessing.bat .
- 37. PBatch6.bat:** Runs PBatch6.sql , called by MasterBatchP.bat .
- 38. PBatch6.sql:** Protection sequence script, used by PBatch6.bat and StartProcessing.bat .
- 39. PBatch7.bat:** Runs PBatch7.sql , called by MasterBatchP.bat .
- 40. PBatch7.sql:** Protection sequence script, used by PBatch7.bat and StartProcessing.bat .
- 41. PBatch8.bat:** Runs PBatch8.sql , called by MasterBatchP.bat .
- 42. PBatch8.sql:** Protection sequence script, used by PBatch8.bat and StartProcessing.bat .
- 43. PBatch9.bat:** Runs PBatch9.sql , called by MasterBatchP.bat .
- 44. PBatch9.sql:** Protection sequence script, used by PBatch9.bat and StartProcessing.bat .
- 45. Pbatch1.sql:** Non-triggered batch processing script, used by PBatch1.bat / PBatch1R.bat .

- 46. PBRenameXMLPrep.bat:** Renames XML files (etpprorq.xml , etpprort.xml , etpfetrq.xml , etpfetr.t.xml) with timestamp (e.g., etpprorq_250705_0634.xml), called by MasterBatchP.bat .
- 47. RemoveRogueTriggers.sql:** Removes test rogue triggers (non-production).
- 48. ResetETPPPro.bat:** Truncates etpprorq , etpprort , deletes XML files (etpprorq.xml , etpprort.xml), called by EnableTriggerMode.bat .
- 49. RunTriggerDiagnostics.bat:** Runs TriggerDiagnostic.sql for trigger diagnostics.
- 50. SetupTriggerSystem_Auto.bat:** Runs CreateTriggerInsertPRQFunction_Auto.sql , AttachInsertPRQTrigger_Auto.sql , called by ?Btn_InstallTrigger .
- 51. SSECUR_.TPS:** Clarion security file (Boxsoft) for MBTIP.exe .
- 52. StartFlushBuffered.bat:** Runs FlushBufferedToPRQ.sql in a timer loop for buffered data processing.
- 53. StartProcessing.bat:** Executes triggered batch processing, calls ClaimBatch_ReturnBatchNumber.sql , PBatch2.sql , PBatch5.sql – PBatch9.sql , ETPProt.exe .
- 54. StartTriggeredBatch.bat:** Initiates triggered batches, calls ClaimAndReturnProcessingBatch.bat .
- 55. TriggerDiagnostic.sql:** Diagnoses trigger status, called by RunTriggerDiagnostics.bat .
- 56. ZIP_StableRelease.bat:** Archives stable release to
C:\ETP_A_24\Show50KTst\PBatch\StableRelease\TriggerBuffered_v250508a .