Opendiem Training

Technical Note
Creating an Archived Data Logger
(Applies to MS Access, Windows XP and Server 2003)

Opendiem-TECH-0003

Revision	5.0.1		
Status	Initials	Date	Comment
Released	RAC	01/24/2011	Updated format and content

Technical Notes, Create an Archived Data Logger for MS Access

Introduction

Data Loggers created with Microsoft Access can grow quite large depending upon the amount of data being collected. As the size of the database grows beyond 500MB, Opendiem system performance may be affected (become sluggish). It is recommended that systems which require a large amount of trended data use SQL as the database option. If this is not an option for your system, we recommend that you archive your Logger(s) when they reach 500MB and do not let them grow beyond 1GB in size.
More info regarding Access database specifications can be found here:

http://office.microsoft.com/en-us/access-help/access-specifications-HP005186808.aspx#top

Instructions

Prior to starting make sure you have backed up all of your .mdb and .csv files.

If you have any questions please contact Technical Support by sending an email to:

support@buildingclouds.com

1) Open the data logger you wish to archive by double clicking the service from the Opendiem Engine Services List.
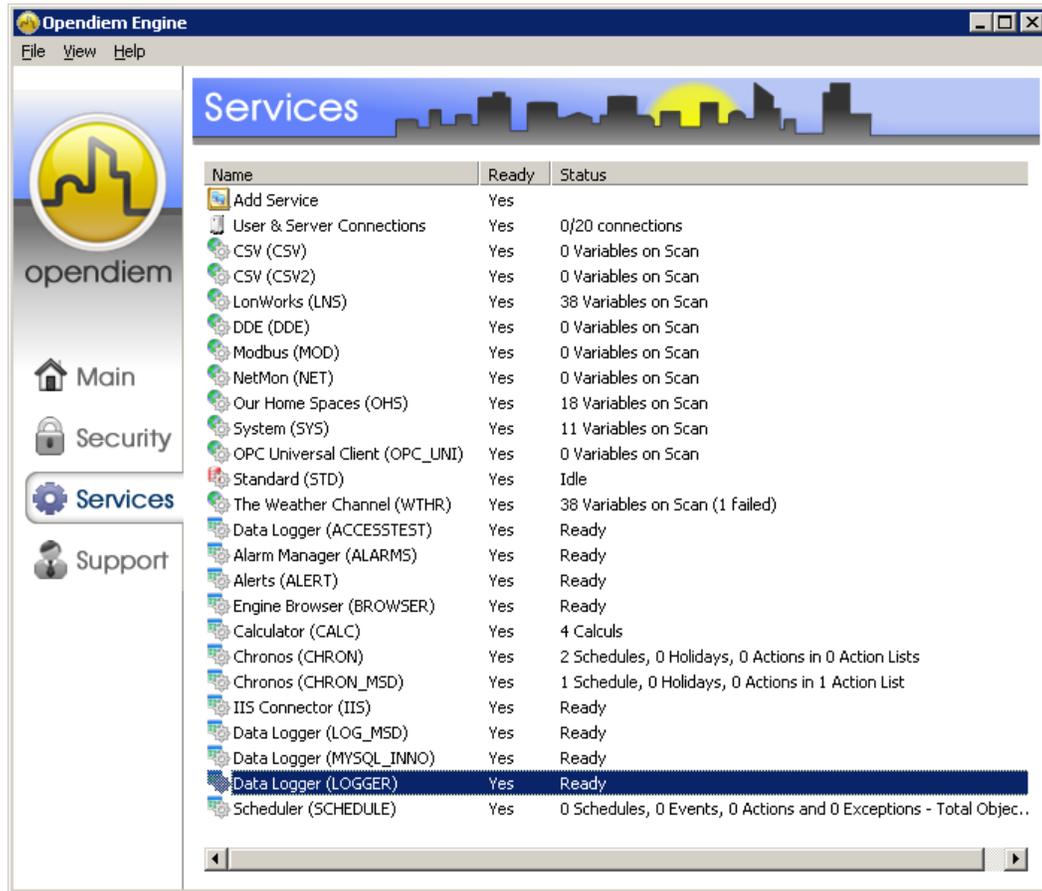
2) From the logger window, determine the master file location for the existing logger.mdb (to be archived)
   a. File > Properties (or F4) and note path and file name
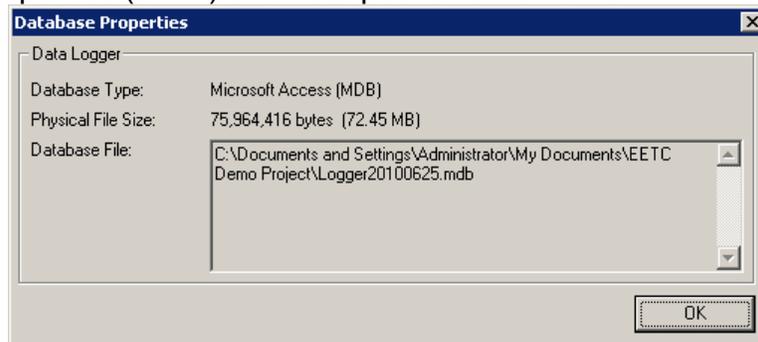
3) Back up the existing data logger definitions
   a. File > Export Configuration to file
      i. Uncheck the "Export Variable ID Number" box
   b. Note the file name and location, it will be appended with the current date and time. Make sure it is being saved as a ".csv" file.

Data Logger (LOGGER) - Export Variable Definitions

Export

Variable Separator: <Comma>

☑ Include Headings

☐ Export Variable ID Number

OK   Cancel
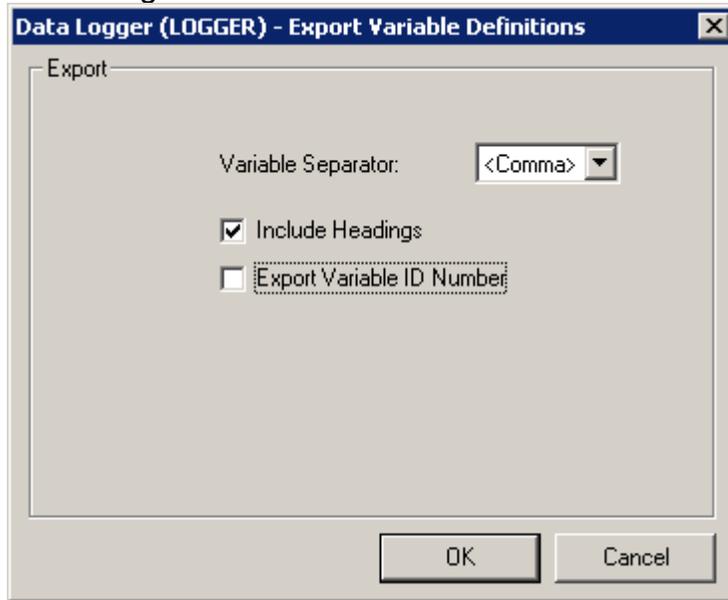
4) Compact the existing data logger
   a. File > Compact MDB Database

5) Delete orphaned data from existing logger
   a. File > Delete Orphaned Data…

Opendiem Data Logger (LOGGER)

Do you want to delete data rows in the log table that have no related variable (parent) in the database?

Yes   No

6) From the Opendiem Engine Services Window double click on "Add Service"
   a. Expand Client Services (click on the "+") > double click on "Data Logger"

Add New Service

- Client Services
  - Alarm Manager
  - Alerts
  - Calculator
  - Chronos
  - Data Gateway
  - Data Logger
  - Engine Browser
  - IIS Connector
  - Messenger
  - Reporter
  - Scheduler
  - Scrolling Chart
- Data Services

OK   Cancel   Help
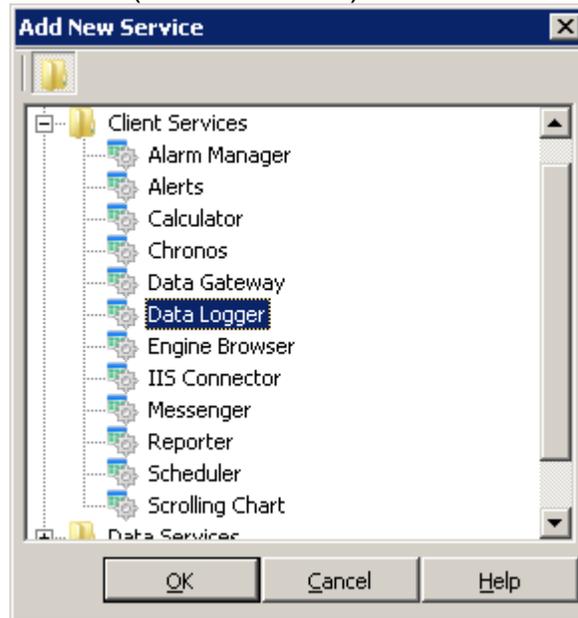
   i. Enter a name for the archive logger in the Client Service Key menu > Click Ok.

Client Service Key

Enter a key to identify this client service.

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OK   Cancel

7) Double click the newly created logger in the Opendiem Engine Services List and then open the original (existing) logger.mdb file into the new archive logger
   a. File > Open Database > (path to existing file)
8) When all tags are loaded into the archive logger
   a. Choose Edit > Select All (or Ctrl A)
   b. Next choose Edit > Set Inactive, to deactivate all tags
      i. The tags will still be accessible for historical data, but no longer store live data to the database.

9) Next disable automatic compacting of the archive logger by choosing Tools > Options…
and uncheck the "Compact MDB database ever day at:" box under Database Maintenance.
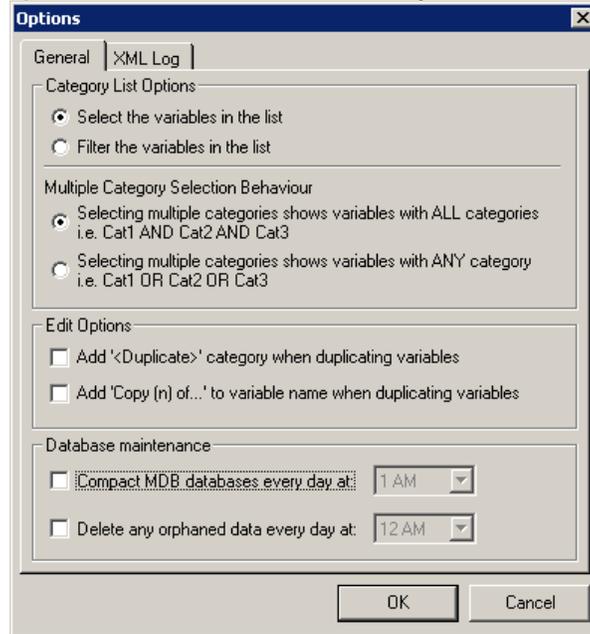
10) Set the appropriate security settings for the archive logger from the Opendiem Engine
Security Window. Click the Users… button

a. Altitude Manager > Security > Users > Profiles > …
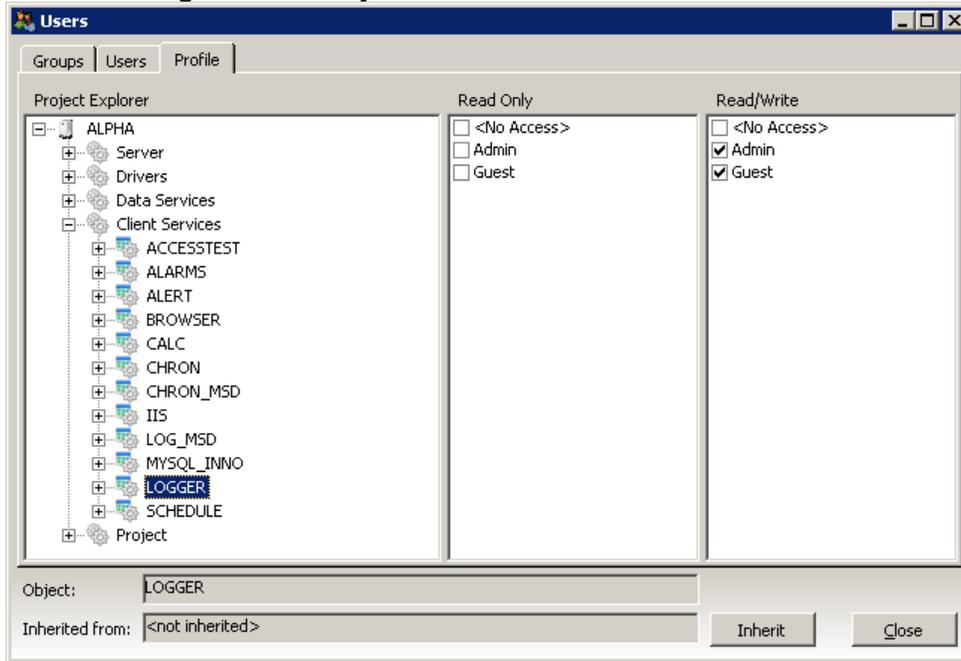
11) Back to the Opendiem Engine Services List and double click to launch the original logger service
12) Create a new database
   a. File > New Database.mdb
      i. Name and date appropriately
13) When prompted, choose yes to import existing definitions
14) Adjust properties/settings/compacting, and activate tags as needed
15) Test both the new Logger and the Archived Logger for functionality.

Notes:

Version 5.00 November 2010

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