Opendiem Training

Technical Note

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

Opendiem-TECH-0003

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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



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1) Open the data logger you wish to archive by double clicking the service from the Opendiem Engine Services List.

🐵 Opendiem Engine						
<u>F</u> ile ⊻iew <u>H</u> elp						
	Services					
	Name	Ready	Status			
	🛐 Add Service	Yes				
	🧾 User & Server Connections	Yes	0/20 connections			
	SV (CSV)	Yes	0 Variables on Scan			
opendiem	SV (CSV2)	Yes	0 Variables on Scan			
	💁 LonWorks (LNS)	Yes	38 Variables on Scan			
	State (DDE)	Yes	0 Variables on Scan			
	🐏 Modbus (MOD)	Yes	0 Variables on Scan			
😭 Main	SetMon (NET)	Yes	0 Variables on Scan			
	Sour Home Spaces (OHS)	Yes	18 Variables on Scan			
Security	System (SYS)	Yes	11 Variables on Scan			
	OPC Universal Client (OPC_UNI)	Yes	0 Variables on Scan			
Convision	Standard (STD)	Yes	Idle			
Services	The Weather Channel (WTHR)	Yes	38 Variables on Scan (1 failed)			
	Data Logger (ACCESSTEST)	Yes	Ready			
🍒 Support	Alarm Manager (ALARMS)	Yes	Ready			
-	Alerts (ALERT)	Yes	Ready			
	Engine Browser (BROWSER)	Yes	Ready			
	Calculator (CALC)	Yes	4 Calculs			
	Chronos (CHRON)	Yes	2 Schedules, U Holidays, U Actions in U Action Lists			
	Chronos (CHRON_MSD)	Yes	1 Schedule, U Holidays, U Actions in 1 Action List			
	Parts Connector (IIS)	Yes	Ready			
	Pote Logger (LUG_MSD)	Yes	Ready			
		Yes	Reduy Doodu			
	Schoduler (SCHEDULE)	Yes	Reduy			
	Hereicher (Schebore)	162	o penedules, o events, o Actions and o exceptions - Total Objec			

- 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

Database Properties		×
Data Logger		
Database Type:	Microsoft Access (MDB)	
Physical File Size:	75,964,416 bytes (72.45 MB)	
Database File:	C:\Documents and Settings\Administrator\My Documents\EETC Demo Project\Logger20100625.mdb	A
		OK



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- 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 Separat Include Head Export Variat	or: <a href="https://www.comma-security.comma-secur</th>				
	OK Cancel				

- 4) Compact the existing data loggera. File > Compact MDB Database
- 5) Delete orphaned data from existing logger
 - a. File > Delete Orphaned Data...

Opendien	n Data Logger (LOGGER)
?	Do you want to delete data rows in the log table that have no related variable (parent) in the database?
	<u>Yes</u> <u>N</u> o



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



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

Client Ser	vice Key	×			
Enter a key to identify this client service.					
~	Arc_201011				
	OK Cancel	1			

- 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.



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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.

cions						
General	XML Log					
Categor	List Options					
🖲 Sel	ect the variables i	in the list				
🔿 Filte	r the variables in	the list				
Multiple	Category Selectio	on Behaviour				
⊙ Sel i.e.	ecting multiple ca Cat1 AND Cat2 A	itegories shows AND Cat3	s varia	bles with	ALL ca	tegories
⊖ ^{Sel} i.e.	cting multiple ca Cat1 OR Cat2 OF	itegories shows R Cat3	s varia	bles with	ANY ca	ategory
Edit Opt	ions					
🖂 Add	(' <duplicate>' ca</duplicate>	itegory when d	luplica	ting varial	bles	
🗖 Add	l'Copy (n) of' to) variable name	e wher	n duplicati	ing vari	ables
Databa:	e maintenance-					
Cor	npact MDB datab	oases every da	y at:	1 AM	7	
🗖 Del	ete any orphanec	i data every da	ay at:	12 AM	Ŧ	
				OK	7	Cance

10) Set the appropriate security settings for the archive logger from the Opendiem Engine Security Window. Click the Users... button

🐵 Opendiem Engine		×
<u>File V</u> iew <u>H</u> elp		
opendiem	Security Web Security Require User Logon Use session keys Users	
🏠 Main	Console Security	
	 Lock Workstation on Startup Secure Logon 	
Services	Secure Timeout (5 mins)	
🔹 Support		



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a. Altitude Manager > Security > Users > Profiles > ...

🧸 Users			×
Groups Users Profile			
Project Explorer	Read Only	Read/Write	
🖃 🖳 ALPHA	No Access>	<no access=""></no>	1
庄 🐵 Server	Admin	✓ Admin	L
🕀 🌚 Drivers	Guest	Guest	L
🗈 😳 🌚 Data Services			L
En Client Services			Т
E ACCESSTEST			L
			L
			L
			L
			L
			L
			L
🗄 🖶 🤹 LOG_MSD			L
🗄 🐺 MYSQL_INNO			L
			L
E SCHEDULE			Т
2		,	2
Object: LOGGER			
Inherited from: <pre><not inherited=""></not></pre>		Inherit ⊆lose	

- 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.



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Notes:

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