

PME2020 如何用 ETL 从 PME 导出故障录波的 COMTRADE 文件

问题描述:

如何用 ETL 从 PME 导出故障录波的 COMTRADE 文件

解决方案:

步骤如下：

1. ETL6.0 有好多个版本，其中 **ETL Core** 这个版本的 load 这任务可以将 PME 数据库里存储的 waveform 导出为 comtrade 文件 (.dat 和 .cfg 文件)

02 PME PSO > ETL > ETL 6.0 Releases

名称	修改日期	类型
ETL (Billing Export for PME 2020)	2020/9/16 12:13	文件夹
ETL (DCO Export for PME 2020)	2020/9/16 12:13	文件夹
ETL (EGX300 and Com'X510 to PME 2020)	2020/9/16 12:13	文件夹
ETL Core	2021/1/28 9:58	文件夹
ETL for EBO (Energy Expert)	2020/9/16 12:13	文件夹

2. 配置过程

----创建抽取任务和 load 任务如下图

The screenshot shows the 'Job Management' interface with 'Job1' selected. Under the 'Tasks' tab, a new task is being created. The 'Select Category' dropdown is set to 'Load'. The 'Select Type' dropdown is set to 'Comtrade Waveform Data Load Task'. A red box highlights the 'Extract' task, which is described as 'Extracts waveform data from a Power Monitoring Expert database'. A yellow arrow labeled '1' points to this task. Another red box highlights the 'Load' task, which is described as 'Loads waveform data into Comtrade files'. A yellow arrow labeled '2' points to this task.

----抽取任务中配置自己数据库的实例名和登录数据库的用户名和密码：

Database

Database Version Info	SPM 7.0 or Later
SQL Server Name	ServerName\ION 1
Database Name	localhost\ION 2
Authentication Mode	ION_Data Windows Authentication
SQL User Name	Click to configure →
SQL Password	Click to configure →
Number of Waveforms to Extract	20
Enable Unit Lookup in ION_Network database	False
SQL Server Name	localhost\ION
Database Name	ION_Network
Authentication Mode	Windows Authentication
SQL User Name	Click to configure →
SQL Password	Click to configure →
Calculate local waveform time stamps	False
Use current system time zone when converting between UTC and loc	True

----创建 load 任务时，指明 comtrade 文件转存的文件路劲（注意：指定的文件夹一定要提前创建好，ETL 不能自己创建文件夹）。

File Output

Data file type	ASCII
File Naming Strategy	Include Source Info And Trigger Time in File Name
Line Frequency	60 指定波形文件转存的频率
Output Directory	C:\Users\Comtrade 存的路径
Output Directory Structure	Subfolders For Each Source
Convert Channel Identifiers ("V1 Waveform" becomes "U1", "V2 Wave	False
Include Source IDs in Output Data	True
Time Stamp Format	Day Month Year (Comtrade 1999 Standard)
Enable Verbose Logging	False
Time Stamp Option for Comtrade Files	UTC

----Mapping 中将映射的 comtrade 文件选择添加到导出列表中：

上半部分 a 是从 PME 失去了抽取出的有波形文件夹的设备源和测量源

下半部分 b 是用户根据需要选择的需要转存到指定文件夹中的测量量和设备

Job Details

Job | Tools | Mappings | Positions | Logging | Advanced

Automatic Population

Use list of sources (allows aliasing) Keep Entries With an End Name on Populate

Populate [0|100] 起始值

1 点击Populate输出Comtrade文件

Mapping Definitions

Source Mappings Start Name Filter End Name Filter

ID	Type	Start Name	End Name	Timezone
100	EthernetDevice PM8000	EthernetDevice PM8000	中国标准时间	

a

Quantity Mappings Start ID Filter Start Name Filter End Name Filter

Start ID	Start Name	Scaling	End Name
1	I1 Waveform	1	I1 Waveform
2	I2 Waveform	1	I2 Waveform
31	O1 Waveform	1	O1 Waveform
155	V1 Waveform	1	V1 Waveform
156	V2 Waveform	1	V2 Waveform

Add Selected Pairs

Source Quantity Pairs Import Filter Start Name Filter End Name Filter

State	Input	Start Name	End Name	Timezone
		EthernetDevice PM8000	EthernetDevice PM8000	中国标准时间

b

Associated Quantities

ID	Start Name	End Name	Scaling
11	I1 Waveform	I1 Waveform	1
12	I2 Waveform	I2 Waveform	1
13	O1 Waveform	O1 Waveform	1
14	V1 Waveform	V1 Waveform	1
15	V2 Waveform	V2 Waveform	1
16	V3 Waveform	V3 Waveform	1

----Run once/并注册成服务

Job Management

New Job1 Edit Control Delete

Job Details

Job Control

Register Unregister Run Once

Run Once

Start/Continue

Pause

Stop

---- 查看指定的文件夹

这台电脑 本地磁盘 (C:) > 用户 > Comtrade > 1002_EthernetDevice.PM8000

名称	修改日期	类型	大小
1002_EthernetDevice.PM8000_19950309000000_2166660.CFG	2021/1/28 9:53	CFG 文件	6 KB
1002_EthernetDevice.PM8000_19950309000000_2166660.DAT	2021/1/28 9:53	DAT 文件	642 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~1.CFG	2021/1/28 9:53	CFG 文件	1 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~1.DAT	2021/1/28 9:53	DAT 文件	56 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~2.CFG	2021/1/28 9:53	CFG 文件	1 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~2.DAT	2021/1/28 9:53	DAT 文件	29 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~3.CFG	2021/1/28 9:53	CFG 文件	1 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~3.DAT	2021/1/28 9:53	DAT 文件	38 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~4.CFG	2021/1/28 9:53	CFG 文件	1 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~4.DAT	2021/1/28 9:53	DAT 文件	38 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~5.CFG	2021/1/28 9:53	CFG 文件	1 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~5.DAT	2021/1/28 9:53	DAT 文件	90 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~6.CFG	2021/1/28 9:53	CFG 文件	2 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~6.DAT	2021/1/28 9:53	DAT 文件	222 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~7.CFG	2021/1/28 9:53	CFG 文件	1 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~7.DAT	2021/1/28 9:53	DAT 文件	64 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~8.CFG	2021/1/28 9:53	CFG 文件	1 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~8.DAT	2021/1/28 9:53	DAT 文件	38 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~9.CFG	2021/1/28 9:53	CFG 文件	3 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~9.DAT	2021/1/28 9:53	DAT 文件	274 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~10.CFG	2021/1/28 9:53	CFG 文件	3 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~10.DAT	2021/1/28 9:53	DAT 文件	318 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~11.CFG	2021/1/28 9:53	CFG 文件	1 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~11.DAT	2021/1/28 9:53	DAT 文件	38 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~12.CFG	2021/1/28 9:53	CFG 文件	2 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~12.DAT	2021/1/28 9:53	DAT 文件	169 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~13.CFG	2021/1/28 9:53	CFG 文件	1 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~13.DAT	2021/1/28 9:53	DAT 文件	30 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~14.CFG	2021/1/28 9:53	CFG 文件	4 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~14.DAT	2021/1/28 9:53	DAT 文件	452 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~15.CFG	2021/1/28 9:53	CFG 文件	1 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~15.DAT	2021/1/28 9:53	DAT 文件	48 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~16.CFG	2021/1/28 9:53	CFG 文件	1 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~16.DAT	2021/1/28 9:53	DAT 文件	30 KB
1002_EthernetDevice.PM8000_19950309000000_2166660~17.CFG	2021/1/28 9:53	CFG 文件	1 KB

3. 客户可以根据需要设置 ETL 运行时间:

Job Management

New	Job1	Edit	Control	Delete
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Job Details

Job	Tasks	Mappings	Positions	Logging	Advanced
Name: Job1 Sleep Time Between Execution: 30 (in seconds when running as a service)  默认是3600S					