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KB01119 - 在PI AF中创建指向MS Access数据库的链接表

适用于： Asset Framework- 2.10.5.9075,2.10.1.8731,0.0.0.101,0.0.0.102,2.9.5.8352,2.9.2.8185,2.9.1.8159,2家,1制品6案例,服务5,成功日积1行情5报告9联系我们 快速链接

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✅ **已验证的解决方案** - 更新于 2019 年 7月9日 - 英语

问题

内容最初来自KB01119。

您正在使用"Microsoft Office 12.0 Access数据库引擎OLE DB提供程序"将带有模拟客户端凭据的链接（外部）表配置到 不驻留在AF应用程序服务器上的Microsoft Access (http://office.microsoft.com/en-ca/access/)数据库（例如*.accdb文件）。

请注意，您需要使用64位PI System Explorer访问64位Access数据库引擎提供程序。

环境

PI资产框架。

解

问题 # 1

尝试检索表数据时，请参阅以下错误：

> 意外的服务器错误："'Microsoft ACE.OLEDB.12.0'提供程序未在本地计算机上注册。"

解决方案 # 1

此错误表明您缺少PI AF应用程序服务器上正确的"Microsoft Office 12.0 Access数据库引擎OLE DB提供程序"。AF应用程序服务负责检索链接表的外部表数据。在AF应用程序服务器上，请确认您已安装与AF应用程序服务具有相同位数的Microsoft Access数据库引擎或Microsoft Office。

注意：您不能在同一台计算机上同时拥有32位和64位Microsoft Office组件。

问题 # 2

您已成功创建链接表，但只有AF Server上本地Administrators组的成员才能访问表数据。其他用户获得：

> 意外的服务器错误：'未指定的错误'

解决方案 # 2

The Jet Database Engine utilizes the %TEMP% directory of the AF Application Service. When impersonating the client credential, the AF Application Service loses the ability to read/write to its %TEMP% directory. The fix is to provide full control of the AF Application Service's %TEMP% directory to all users (possibly by grouping them into a group) accessing the Linked Table. For example, if your AF Application Service runs as company\afsvc, then we need to provide full permissions to non-administrative users to C:\Users\afsvc\AppData\Local\Temp (or C:\Documents and Settings\afsvc\Local Settings\Temp if XP/2003).

Note: We may use Process Monitor (procmon) to trace the File System events on the AF Application Server to confirm that we are receiving ACCESS DENIED events when trying to access the directory. This will also allow us to confirm the directory location.

Note 2: The support cases also indicate the client users need permission to several registry keys belonging to the AF Application Service. This may or may not be necessary; in-house tests were successful in situations where these permissions were not granted. If you suspect a registry permissions problem, then use procmon to identify the problem registries.

Note 3: Customer running PI AF Application service using UPN (account@domain) ran into this issue as well. Moreover, it was found that the provider would sometimes crash AF if it was running using a UPN. The solution was to use a Down-Level logon name syntax (domain\account).

Issue #3

A linked table is successfully set and all users are able to access it when directly connected on the AF Server. However, from a remote AF Client, you get:

> Unexpected Server Error: 'The Microsoft Access database engine cannot open or write to the file ''. It is already opened exclusively by another user.

Solution #3

Double-check the permissions of the file you are attempting to access. Confirm that the client has sufficient permissions to read the file. Remember that accessing the table data from a client machine also means we need working Kerberos delegation. Refer to KB00599 (https://techsupport.osisoft.com/Troubleshooting/KB/KB00599) to perform that task. If configuring Constrained Kerberos Delegation, you will need to delegate to the CIFS (Common Internet File Sharing) service of the file server hosting the MS Access database.

Issue #4

When trying to retrieve the table data you see:

```
Unable to link to external table: Unexpected Server Error: 'External table is not in the expected format.'.
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Solution #4

验证在提供程序的属性中指定了哪个Jet OLEDB：引擎类型。如果要连接到2010或更高版本的Microsoft Access数据库引擎，则引擎类型应为5.供参考： Microsoft文章 (https://support.microsoft.com/en-us/help/230501/how-to-compact-microsoft-access-database-through-ado)。

原因

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