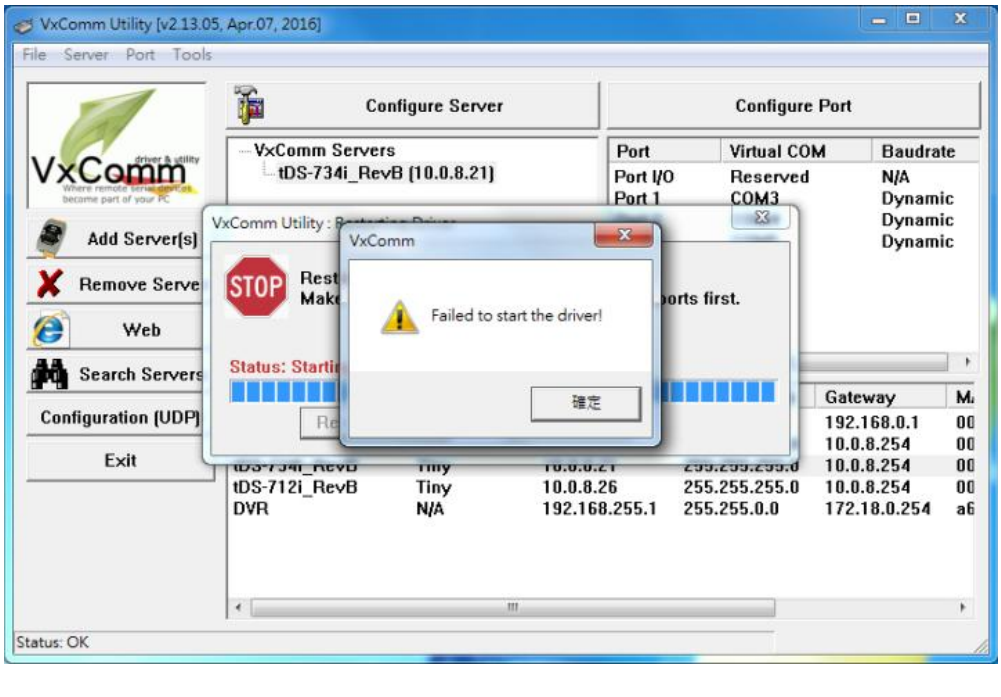
分類/Classification	☐ tDS/tGW/tSH ☑ I/O Card	☐ PETL/tET/tPET ☑ VXC Card	☐ DS/PDS/PPDS ☑ VxComm	☐ tM-752N ☐ 7188EN
作者/Author	Tammy	日期/Date	2017-02-14	編號/NO.	FAQ045

Q: How to fix the issue where the driver doesn't start under Windows Vista/7/2003 and 2008 systems that do not support SHA-256 signatures?

A: Following the discovery of security issues relating to the SHA-1 algorithm, SHA-256 signatures have been introduced in recent versions of Windows and support for the old SHA-1 encryption has been withdrawn. Consequently, the new ICPDAS drivers also need to use these SHA-256 signatures. Older operating systems, such as Windows Vista, Windows 7, Windows Server 2003, and Windows Server 2008, do not support SHA-256 signatures. This means that the new drivers that use SHA-256 signatures do not work on older systems. Upgrading an older system to the latest versions of Windows 10 or Server 2012 can help to resolve this issue.

An example of this issue is when the error message **"Failed to start the driver"** is displayed in the VxComm Utility.



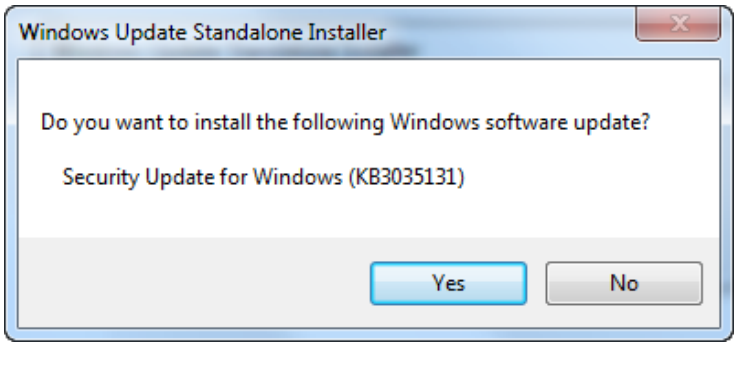
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SHA-256 signatures are not supported in the standard installation of Windows 7. However, Microsoft has provided hotfixes that introduce support for SHA256 signatures as part of their automatic Windows Update service, which is typically set to automatically install the regular updates released by Microsoft. However, if Windows Update has been turned off or disabled on the system, the required Windows 7 Service Pack 1 (SP1) and hotfixes can still be installed manually by following the procedure described below:

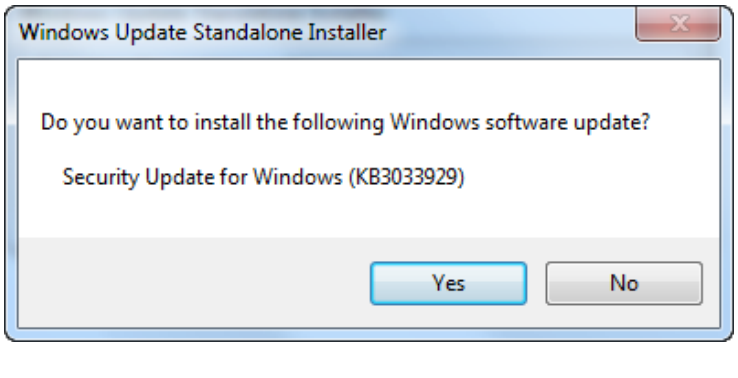
Step 1: Go to the Microsoft Download Center at https://www.microsoft.com/en-us/download/details.aspx?id=5842 to download and install the **"Windows 7 Service Pack 1 (SP1)"**. For detailed information about the SP1 installation, refer to https://support.microsoft.com/en-us/help/14162/windows-service-pack-and-update-center.

Step 2: Go to https://www.microsoft.com/en-us/download/details.aspx?id=46017 to download and install **"Hotfix KB3035131"**. For more information related to this security update, refer to https://technet.microsoft.com/en-us/library/security/ms15-025



Step 3: Go to https://www.microsoft.com/en-us/download/details.aspx?id=46148 to download and install **"Hotfix KB3033929"**. For more information related to this security update, refer to https://technet.microsoft.com/en-us/library/security/3033929

*Note that the "hotfix KB3035131" update **must be installed** before installing the "hotfix DB3033929" update.*



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