

Windows 7 Security Update

KB30339290

The Belcarra USBLAN driver for Windows 7, 8 and 8.1 is code-signed with an SHA-256 certificate. This is a requirement for all versions of Windows currently supported by Microsoft.

Older versions of Windows 7, Vista and XP only supported signing with SHA-1 certificates.

Installing Belcarra USBLAN on an Windows 7 system that is not up to date with security patches will fail. The unpatched systems do not support SHA-256 certificates and do not know about the current certificate authorities.

Microsoft has issued a security update, KB30339290, to address these issues. It will add support for SHA-256 certificates to a Windows 7 system. This security patch requires a system that is at least up to date with Windows 7 Service Pack 1.

There are no available patches from Microsoft for XP, Vista or Windows 7 systems that do not have (at least) Service Pack 1 installed.

See here for more information:

- General information: [Symantec SHA-1 or SHA-256 for Windows kernel-mode](#)
- Microsoft Security Advisory: [SHA-2 Code Signing Support for Windows 7](#)
- Download: [Security Update for Windows 7 for x64-based Systems \(KB3033929\)](#)

KB3033929 Executive Summary

Microsoft is announcing the reissuance of an update for all supported editions of Windows 7 and Windows Server 2008 R2 to add support for SHA-2 signing and verification functionality. This update supersedes the 2949927 update that was rescinded on October 17, 2014 to address issues that some customers experienced after installation. As with the original release, Windows 8, Windows 8.1, Windows Server 2012, Windows Server 2012 R2, Windows RT, and Windows RT 8.1 do not require this update because SHA-2 signing and verification functionality is already included in these operating systems. This update is not available for Windows Server 2003, Windows Vista, or Windows Server 2008.

How to diagnose.

If your driver is failing to install look in the `setupapi.dev.log` file for error messages like the following.

Verifying file against specific (valid) catalog failed! (0x800b0109)

Error 0x800b0109: A certificate chain processed, but terminated in a root certificate which is not trusted by the trust provider.

Error 0xe0000242: The publisher of an Authenticode(tm) signed catalog has not yet been established as trusted.