## How to avoid the system crash while using USB interface for PSW.

Background

The USB CDC/ACM is the USB class which we applied for our instrument for a long time. There have a lot of customer report that the Windows will be crashed after a long time ATE testing. In general, it will happen around 2~4 hours while querying the voltage or current result time-by-time. For oscilloscopes, it will happen around 1 hour while fetching the screen shoot time-by-time.

The Windows included: Windows XP, XPSP2, XPSP3, 7, 8, 8.1.

On crashing, the system will show below blue screen operating system dump(BSOD).



Before the wor	rkaround:
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	NI-VISA 3.4	NI-VISA 4.2	NI-VISA 4.3	NI-VISA 5.5
Windows XP	ОК	OK	Failed,BSOD	Failed,BSOD
Windows XP SP2	ОК	OK	Failed,BSOD	Failed,BSOD
Windows XP SP3	ОК	OK	Failed,BSOD	Failed,BSOD
Windows 7	ОК	OK	Failed,BSOD	Failed,BSOD
Windows 8	ОК	OK	Failed,BSOD	Failed,BSOD
Windows 8.1	OK	OK	Failed,BSOD	Failed,BSOD

## Add the workaround:

	NI-VISA 3.4	NI-VISA 4.2	NI-VISA 4.3	NI-VISA 5.5
Windows XP	ОК	ОК	OK	OK
Windows XP SP2	ОК	OK	OK	OK
Windows XP SP3	ОК	OK	OK	OK
Windows 7	ОК	ОК	ОК	OK
Windows 8	ОК	ОК	ОК	OK
Windows 8.1	ОК	OK	OK	OK

NI-VISA 3.4 from LabVIEW 8.0 NI-VISA 4.2 from LabVIEW 8.5 NI-VISA 4.3 from LabVIEW 8.5.1 NI-VISA 5.5 from LabVIEW 2013

or

2. Using the LabVIEW Driver without NI-VISA "XXX-win32api" or

3. Using the LabVIEW Driver with workaround "XXX.zip"

<sup>1.</sup> Change the NI-VISA to 3.4 or 4.2.