NETWORK SECURITY BULLETIN
NSB# 180104
Revised January 10, 2018

Issue: January 2018 Meltdown and Spectre Side-Channel Vulnerabilities

On January 3, 2018 the Google Project Zero team announced in their blogpost three processor vulnerabilities known as Spectre and Meltdown. Variant 1 and 2 are referred to as Spectre. Variant 3 is referred to as Meltdown.

- Variant 1: bounds check bypass (CVE-2017-5753)
- Variant 2: branch target injection (CVE-2017-5715)
- Variant 3: rogue data cache load (CVE-2017-5754)

EndRun Technologies Product Impact Statement:
EndRun's current products are not affected. Discontinued products are at near zero risk of being exploited. See below for details.

EndRun Technologies Products and Processors

Sonoma Network Time Server	**Tycho II Precision TimeBase**
Meridian II Precision TimeBase	**RTM3205 Precision Timing Module**

Vulnerability: The processor architecture for the products listed is the ARMv5TE which is embedded in the Marvel Ferocean chipset. The only ARM processors listed as affected are in the Cortex processor series which does not include the ARMv5TE. Therefore, the products listed below are **not affected**.

3026-xxxx-xxx   Sonoma D12 Network Time Server (CDMA)
3027-xxxx-xxx   Sonoma D12 Network Time Server (GPS)
3028-xxxx-xxx   Sonoma N12 Network Time Server (CDMA)
3029-xxxx-xxx   Sonoma N12 Network Time Server (GPS)
3041-xxxx-xxx   Tycho II Precision TimeBase
3043-xxxx-xxx   Meridian II Precision TimeBase
3205-xxxx-xxx   RTM3205 Precision Timing Module

Distribution Chassis

Vulnerability: The optional network port on the Distribution Chassis is a Lantronix XPort AR. The xPort AR does not use one of the affected CPUs and runs a proprietary, closed OS, making it unaffected. Therefore, the products listed below are **not affected**.

3300-xxxx-xxx FDC3300 Frequency Distribution Chassis
3301-xxxx-xxx PDC3301 Pulse Distribution Chassis
3302-xxxx-xxx FDC3302 High-Performance Frequency Distribution Chassis
3303-xxxx-xxx TDC3303 Time Code Distribution Chassis

Note: 'x' is a variable number.
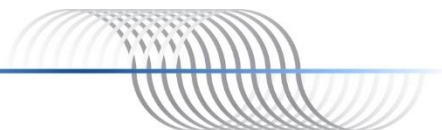
Tempus LX Network Time Server   Unison Network Time Server
Meridian Precision GPS TimeBase   RTM3204 Precision Timing Module

Vulnerability: The products listed use the Elan SC520 by AMD.   As stated by AMD: "Differences in AMD architecture mean there is a *near* **zero risk** of exploitation." If better than "near zero risk" is required, upgrading to the new Sonoma time server or Meridian/Tycho II Precision TimeBase will ensure 100% mitigation.

3014-xxxx-xxx   Tempus LX CDMA Network Time Server
3015-xxxx-xxx   Tempus LX GPS Network Time Server
3016-xxxx-xxx   Unison CDMA Network Time Server
3017-xxxx-xxx   Unison GPS Network Time Server
3018-xxxx-xxx   Tempus LX CDMA Network Time Server (Japan)
3019-xxxx-xxx   Meridian Precision GPS TimeBase
3025-xxxx-xxx   Meridian CDMA Frequency Reference
3204-xxxx-xxx   RTM3204 Precision Timing Module

Note: 'x' is a variable number.

Contact Information:

Feel free to contact us if you have any questions or need help.

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