



DRAGEN v3.5.7b

Software Release Notes

July 14, 2020



Introduction

This is a patch to release 3.5.7 to address two issues. These release notes detail the changes to software components for the Illumina® DRAGEN™ Bio-IT Platform v3.5.7b.

Changes are relative to DRAGEN™ v3.5.7. If you are upgrading from a version prior to DRAGEN™ v3.5.7, please review the release notes for a list of features and bug fixes introduced in subsequent versions.

DRAGEN™ Installers and Release Notes are available here:

https://support.illumina.com/sequencing/sequencing_software/dragen-bio-it-platform.html

The 3.5.7b software package includes:

- DRAGEN™ SW Intel Centos 6 - dragen-3.5.7b.el6.x86_64
- DRAGEN™ SW Intel Centos 7 - dragen-3.5.7b.el7.x86_64
- DRAGEN™ SW IBM PPC Centos 7 - dragen-3.5.7b.el7.ppc64le.run

The following configurations are also available on request:

- Amazon Machine Image (AMI)
- RPM packages for Centos 7 and Ubuntu 14.04 for Amazon Web Services (AWS)

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Fixes

Below is a summary of the changes included in v3.5.7b

Component	Change
BCL	Fix for a crash in BCL conversion when the number of bytes in a tile is modulo 256K
SNV Denovo Joint Caller	Fix incorrect count of post-filtered denovo calls in the metrics file. Metrics do not match VCF. The VCF is correct

SW Installation Procedure

- Download the desired installer from the Illumina support website and unzip the package
- The archive integrity can be checked using: `./<DRAGEN 3.5.7b .run file> --check`
- Install the appropriate release based on your Linux OS with the command: `sudo sh <DRAGEN 3.5.7b .run file>`
- Cold boot (hard reset or power cycle) may be required after installation, depending on the currently installed version. Please follow the installer instructions. An updated FPGA shell image needs to load from flash, this is only achieved with cold boot.
- Installing prior releases after v3.4.5 was installed:
 - Installing a prior release, v3.3.7 or older, will require the following two steps. The prior .mcs file needs to be flashed manually:
 - Install the prior release: `sudo sh <DRAGEN 3.3.7 .run file>`
 - `program_flash /opt/edico/bitstream/07*/*.mcs`
 - Power cycle