DRAGEN v3.7.8
Software Release Notes

Introduction

These release notes detail the key changes to software components for the Illumina® DRAGEN™ Bio-IT Platform patch release v3.7.8.

Changes are relative to DRAGEN™ v3.7.7. If you are upgrading from a version prior to DRAGEN™ v3.7.7, please review the release notes for a list of features and bug fixes introduced in subsequent versions.

DRAGEN™ Installers, User Guide and Release Notes are available here:
https://support.illumina.com/sequencing/sequencing_software/dragen-bio-it-platform.html

The 3.7.8 software package includes:
- DRAGEN™ SW Intel Centos 6 - dragen-3.7.8-4.el6.x86_64.run
- DRAGEN™ SW Intel Centos 7 - dragen-3.7.8-4.el7.x86_64.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)

Support for IBM PPC has been deprecated and not available for DRAGEN™ v3.7 and later.

Contents

Issues Resolved in 3.7.8

Component	Description	Type
CRAM	Fix for CRAM index containing invalid span values. Cram containers with multiple reference contigs, where the references with exactly one record aligned against them, had a wrong "span" value in the index.	Bug fix

Known Issues and/or Impacts vs 3.7.7

None

SW Installation Procedure

- Download the desired installer from the Illumina support website and unzip the package
- The archive integrity can be checked using: `./<DRAGEN 3.7.8 .run file> --check`
- Install the appropriate release based on your Linux OS with the command: `sudo sh <DRAGEN 3.7.8 .run file>`
- Please follow the installer instructions. Cold boot may be required after installation, depending on the currently installed version. A cold boot is a hard reset or power cycle. 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