



Intel® Gaussian Mixture Models and Neural Networks Accelerator (GNA) 01.00.00.1381

Release Notes

17 May 2019

Version History/Revision History

Date	Revision	Description
17 April, 2019	1.00	Release Notes for ver. 01.00.00.1381
17 May, 2019	1.01	Support for RS6 added

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1 Introduction

The purpose of Intel® Gaussian Mixture Models and Neural Networks Accelerator (GNA) is to offload the CPU during some computations employing Gaussian mixture models or various types of artificial neural networks, and to accelerate this type of operations. The primary intended usage (but not limited to) is the Automated Speech Recognition (ASR) domain. The CPU offload during the speech recognition provides with scoring and decoding in parallel, which gives more some CPU headroom for applications. In turn, the scoring acceleration makes it possible to use larger & more accurate acoustic models, which proves the ASR accuracy.

2 New in This Release

New features

- PCR Modern Standby inf addreg ([HSD #97184](#))
 - Modern Standby RCR by WOS implemented
- Driver Isolation and State Separation Requirements: change driver package directory to DIRID 13 - DriverStore ([HSD #97138](#))
 - Driver Isolation and State Separation RCR by WOS implemented

Fixes

- [ICL U D1][Central execution]- Rockhopper gna basic test failed. Reason: [gna] error while running test ([HSD-ES#1306228417](#)) & Driver power off device while another request is being scored ([HSD #106244](#))
 - Fix for race conditions under very stress load

3 Hardware and Software Compatibility

The GNA CPU offload and acceleration capability is supported by the following Intel platforms in the post-Si:

- Gemini Lake
- Cannon Lake
- Ice Lake

Supported Operating Systems

The GNA SW stack, ver. 01.00.00.1381 supports the following Microsoft* OSes

- Windows* 10 Threshold 1
- Windows* 10 Threshold 2
- Windows* 10 Red Stone 1
- Windows* 10 Red Stone 2
- Windows* 10 Red Stone 3
- Windows* 10 Red Stone 4
- Windows* 10 Red Stone 5
- Windows* 10 Red Stone 6

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