

H.264 High Profile Decoder

Version 02.00.08

Release Notes

October 2012

Build ID: 02.00.08.00

The release note is divided into the following sections:

- [New In This Release](#)
- [Validation Information](#)
- [Fixed In This Release](#)
- [Known Issues](#)

New In This Release

- Added software support to decode maximum picture width upto 4320.
- Refer to Fixed In This Release section.

Validation Information

Release Configuration	Description	Validation Platform
IVAHD_001	H264 High Profile Decoder, which runs on HDVICP2 and Media Controller based SoCs	DM816x REV-A2 DDR2 EVM [Data Sheet] [User Guide]

This release is validated on DM816x REV-A2 DDR2 EVM using following components

- Code Composer Studio (CCSv4) version 4.2.0.09000
- Code Generation Tool version 4.5.1
- Framework Component version 3.20.00.22
- HDVICP2 API (01.00.00.19)
- HDVICP2 CSP (Containing CSL) version 00.05.02.00
- BIOS version 6.30.02.42
- Codec Engine (CE) version 3.20.00.16
- XDC tools version 3.20.04.68



Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00092318	The value for extended status param "spsMaxRefFrames" is not as expected in case of SPS absence in stream	IVAHD_001
SDOCM00091594	Report non-cropped width & Height values in XDM_GETSTATUS control call	IVAHD_001
SDOCM00096063	In UserGuide, datatypes mentioned for the variables in the structure "sVuiParams" were different with the data types present in the code	IVAHD_001

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00081829	Corrupted stream (complicated GOP structure and continuous frame losses) is having out of order display	IVAHD_001
SDOCM00083988	make batch file may not work on windows 7	IVAHD_001
SDOCM00084191	High MegaPixel streams' output is not bit-exact with reference on Simulator. The EVM outputs match with reference.	IVAHD_001
SDOCM00089122	Bit miss match issue observed in multi instance scenario when tested in Dango test framework	IVAHD_001
SDOCM00087799	In case of specific error streams where the DPB gets corrupted the H264 Decoder will throw out error 0x1423 for all the subsequent frames of the stream	IVAHD_001
SDOCM00096998	On Netra DM816x DDR2 some streams(more than 4k width, mostly for MBAFF streams)output is mismatching with the JM reference.	IVAHD_001

H.264 High Profile Decoder

Version 02.00.07

Release Notes

August 2012

Build ID: 02.00.07.00

The release note is divided into the following sections:

- [New In This Release](#)
- [Validation Information](#)
- [Fixed In This Release](#)
- [Known Issues](#)

New In This Release

- Removed redundant memory allocation for MBInfo in case of High-Res I, I/P frame only mode.
- Refer to Fixed In This Release section.

Validation Information

Release Configuration	Description	Validation Platform
IVAHD_001	H264 High Profile Decoder, which runs on HDVICP2 and Media Controller based SoCs	DM816x REV-A2 DDR2 EVM [Data Sheet] [User Guide]

This release is validated on DM816x REV-A2 DDR2 EVM using following components

- Code Composer Studio (CCSv4) version 4.2.0.09000
- Code Generation Tool version 4.5.1
- Framework Component version 3.20.00.22
- HDVICP2 API (01.00.00.19)
- HDVICP2 CSP (Containing CSL) version 00.05.02.00



- BIOS version 6.30.02.42
- Codec Engine (CE) version 3.20.00.16
- XDC tools version 3.20.04.68

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00094309	Fatal error returned from codec when there is packet loss	IVAHD_001
SDOCM00094681	Frame jittering is observed in output YUV when there is a frame loss(Gaps in frame number)	IVAHD_001
SDOCM00094763	Decoder is accessing uninitialized variables in DPB(FrameNumWrap) incase of error streams	IVAHD_001

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00081829	Corrupted stream (complicated GOP structure and continuous frame losses) is having out of order display	IVAHD_001
SDOCM00083988	make batch file may not work on windows 7	IVAHD_001
SDOCM00084191	High MegaPixel streams' output is not bit-exact with reference on Simulator. The EVM outputs match with reference.	IVAHD_001
SDOCM00089122	Bit miss match issue observed in multi instance scenario when tested in Dango test framework	IVAHD_001
SDOCM00087799	In case of specific error streams where the DPB gets corrupted the H264 Decoder will throw out error 0x1423 for all the subsequent frames of the stream	IVAHD_001

H.264 High Profile Decoder

Version 02.00.06

Release Notes

July 2012

Build ID: 02.00.06.00

The release note is divided into the following sections:

- [New In This Release](#)
- [Validation Information](#)
- [Fixed In This Release](#)
- [Known Issues](#)

New In This Release

- Implemented a new feature to support decoding only I/IDR or IP frame types with less create time memory footprint. Included a new create time parameter "decodeFrameType" for selecting particular frame types(I/IDR or IP or all) to decode.
- Refer to Fixed In This Release section.

Validation Information

Release Configuration	Description	Validation Platform
IVAHD_001	H264 High Profile Decoder, which runs on HDVICP2 and Media Controller based SoCs	DM816x REV-A2 DDR2 EVM [Data Sheet] [User Guide]

This release is validated on DM816x REV-A2 DDR2 EVM using following components

- Code Composer Studio (CCSv4) version 4.2.0.09000
- Code Generation Tool version 4.5.1
- Framework Component version 3.20.00.22
- HDVICP2 API (01.00.00.19)
- HDVICP2 CSP (Containing CSL) version 00.05.02.00



- BIOS version 6.30.02.42
- Codec Engine (CE) version 3.20.00.16
- XDC tools version 3.20.04.68

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00093810	The folders names of lib and inc has been changed as Lib and Inc	IVAHD_001

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00081829	Corrupted stream (complicated GOP structure and continuous frame losses) is having out of order display	IVAHD_001
SDOCM00083988	make batch file may not work on windows 7	IVAHD_001
SDOCM00084191	High MegaPixel streams' output is not bit-exact with reference on Simulator. The EVM outputs match with reference.	IVAHD_001
SDOCM00089122	Bit miss match issue observed in multi instance scenario when tested in Dango test framework	IVAHD_001
SDOCM00087799	In case of specific error streams where the DPB gets corrupted the H264 Decoder will throw out error 0x1423 for all the subsequent frames of the stream	IVAHD_001

H.264 High Profile Decoder

Version 02.00.05

Release Notes

June 2012

Build ID: 02.00.05.00

The release note is divided into the following sections:

- [New In This Release](#)
- [Validation Information](#)
- [Fixed In This Release](#)
- [Known Issues](#)

New In This Release

- Refer to Fixed In This Release section.

Validation Information

Release Configuration	Description	Validation Platform
IWAHD_001	H264 High Profile Decoder, which runs on HDVICP2 and Media Controller based SoCs	DM816x REV-A2 DDR2 EVM [Data Sheet] [User Guide]

This release is validated on DM816x REV-A2 DDR2 EVM using following components

- Code Composer Studio (CCSv4) version 4.2.0.09000
- Code Generation Tool version 4.5.1
- Framework Component version 3.20.00.22
- HDVICP2 API (01.00.00.19)
- HDVICP2 CSP (Containing CSL) version 00.05.02.00
- BIOS version 6.30.02.42
- Codec Engine (CE) version 3.20.00.16
- XDC tools version 3.20.04.68



Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00092687	Alignment issues in SL2 for source code users	IVAHD_001
SDOCM00093429	Mismatch is observed in case of high resolution(more than 2k) for fake interlaced streams.	IVAHD_001
SDOCM00092830	H264 decoder freeBufID population logic is not working properly with certain erroneous cases	IVAHD_001
SDOCM00092698	Hang on Media controller can be observed, if SL2 is accessed through buffered region from Media controller	IVAHD_001
SDOCM00092930	Description about the ordering of display buffer in case of Dual YUV is missing in User guide.	IVAHD_001
SDOCM00093036	Incorrect details about MBAFF support in DataSheet	IVAHD_001

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00081829	Corrupted stream (complicated GOP structure and continuous frame losses) is having out of order display	IVAHD_001
SDOCM00083988	make batch file may not work on windows 7	IVAHD_001
SDOCM00084191	High MegaPixel streams' output is not bit-exact with reference on Simulator. The EVM outputs match with reference.	IVAHD_001
SDOCM00089122	Bit miss match issue observed in multi instance scenario when tested in Dango test framework	IVAHD_001
SDOCM00087799	In case of specific error streams where the DPB gets corrupted the H264 Decoder will throw out error 0x1423 for all the subsequent frames of the stream	IVAHD_001