H.264 High Profile Decoder
Version 02.00.18

Release Notes

October 2015

Build ID: 02.00.18.01

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
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 dependent on the following components

- Code Composer Studio (CCSv4) version 4.2.0.09000
- Code Generation Tool version 4.5.1 for HDVICP2 processor
- Code Generation Tool version 5.0.3 for Media Controller processor
- Framework Component version 3.20.00.22
- HDVICP2 API (01.00.00.23)
- HDVICP2 CSP (Containing CSL) version 00.05.02.00

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

- BIOS version 6.30.02.42
- Codec Engine (CE) version 3.20.00.16

TEXAS INSTRUMENTS

– XDC tools version 3.20.04.68

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00119802	Display Frames are out of order with display-delay 2	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
SDOCM00115417	If there is no reference frame available, decoder is not throwing any error to indicate the non-availability of reference frame.	IVAHD_001

TEXAS INSTRUMENTS

H.264 High Profile Decoder
Version 02.00.17

Release Notes

April 2015

Build ID: 02.00.17.01

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
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 dependent on the following components

- Code Composer Studio (CCSv4) version 4.2.0.09000
- Code Generation Tool version 4.5.1 for HDVICP2 processor
- Code Generation Tool version 5.0.3 for Media Controller processor
- Framework Component version 3.20.00.22
- HDVICP2 API (01.00.00.23)
- HDVICP2 CSP (Containing CSL) version 00.05.02.00

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

- BIOS version 6.30.02.42
- Codec Engine (CE) version 3.20.00.16

TEXAS INSTRUMENTS

– XDC tools version 3.20.04.68

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00115416	Corrected the contentType returned through XDM_GETSTATUS call	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
SDOCM00115417	If there is no reference frame available, decoder is not throwing any error to indicate the non-availability of reference frame.	IVAHD_001

TEXAS INSTRUMENTS

H.264 High Profile Decoder
Version 02.00.16

Release Notes

January 2015

Build ID: 02.00.16.01

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
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 dependent on the following components

- Code Composer Studio (CCSv4) version 4.2.0.09000
- Code Generation Tool version 4.5.1 for HDVICP2 processor
- Code Generation Tool version 5.0.3 for Media Controller processor
- Framework Component version 3.20.00.22
- HDVICP2 API (01.00.00.23)
- HDVICP2 CSP (Containing CSL) version 00.05.02.00

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

---

TEXAS INSTRUMENTS

- 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
SDOCM00113238	IVAHD SL2 programme memory corruption issue in multi – instance case on J6	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 02.00.15

Release Notes

December 2013

Build ID: 02.00.15.01

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
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 dependent on the following components

- Code Composer Studio (CCSv4) version 4.2.0.09000
- Code Generation Tool version 4.5.1 for HDVICP2 processor
- Code Generation Tool version 5.0.3 for Media Controller processor
- Framework Component version 3.20.00.22
- HDVICP2 API (01.00.00.23)
- HDVICP2 CSP (Containing CSL) version 00.05.02.00

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

- 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
SDOCM00103856	H264 decoder reports incorrect bytesConsumed after parsing SPS+PPS+SEI	IVAHD_001
SDOCM00105011	In the Data-Sheet, bit-rates mentioned for only I and IPP streams are wrong.	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

TEXAS INSTRUMENTS

H.264 High Profile Decoder
Version 02.00.14

Release Notes

September 2013

Build ID: 02.00.14.00

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
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 dependent on the following components

- Code Composer Studio (CCSv4) version 4.2.0.09000

- Code Generation Tool version 4.5.1 for HDVICP2 processor

- Code Generation Tool version 5.0.3 for Media Controller processor

- Framework Component version 3.20.00.22

- HDVICP2 API (01.00.00.21)

- HDVICP2 CSP (Containing CSL) version 00.05.02.00

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

- BIOS version 6.30.02.42

- Codec Engine (CE) version 3.20.00.16

TEXAS INSTRUMENTS

– XDC tools version 3.20.04.68

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00103815	IVA DPLL locking issue on J6	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

TEXAS
INSTRUMENTS

H.264 High Profile Decoder
Version 02.00.13

Release Notes

August 2013

Build ID: 02.00.13.00

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

- H264 Decoder Media Controller library is compiled with Code Generation tools v5.0.3

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 dependent on the following components

- Code Composer Studio (CCSv4) version 4.2.0.09000
- Code Generation Tool version 4.5.1 for HDVICP2 processor
- Code Generation Tool version 5.0.3 for Media Controller processor
- Framework Component version 3.20.00.22
- HDVICP2 API (01.00.00.21)
- HDVICP2 CSP (Containing CSL) version 00.05.02.00

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

- BIOS version 6.30.02.42
- Codec Engine (CE) version 3.20.00.16

TEXAS INSTRUMENTS

Fixed In This Release

None

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

TEXAS INSTRUMENTS

H.264 High Profile Decoder
Version 02.00.12

Release Notes

August 2013

Build ID: 02.00.12.00

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
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 dependent on the 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

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

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

TEXAS INSTRUMENTS

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00102980	POC order matching for consecutive frames during seek operation	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 02.00.11

Release Notes

August 2013

Build ID: 02.00.11.00

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
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 dependent on the 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

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

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

TEXAS INSTRUMENTS

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00102580	H264 decoder loses buffer on XDM_UNSUPPORTED error	IVAHD_001
SDOCM00102579	In Interlaced coding, if flush is called after one field decoding, the decoder is not freeing the output buffer of next frame	IVAHD_001
SDOCM00100509	Watermark decrypted keys were mismatching when tested with display delay 0 and streams which has non reference Pframes	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 02.00.10

Release Notes

March 2013

Build ID: 02.00.10.00

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
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

TEXAS INSTRUMENTS

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00096552	Performance/DDR bandwidth is increase in case of Dual output enabled.	IVAHD_001
SDOCM00098465	In high resolution flow(more 2kx2k) error recovery for the attached stream is not proper	IVAHD_001
SDOCM00098591	In UserGuide, Interlaced related FAQ needs to be changed	IVAHD_001
SDOCM00098715	Incase of interlaced coding, frame jittering is observed in output YUV when there is a frame loss(Gaps in frame number)	IVAHD_001
SDOCM00099840	Decoder is not able to decode the attached SVC-T streams	IVAHD_001
SDOCM00099847	During VUI decoding, sar_width and sar_height is not updated for all the valid cases of aspect_ratio_idc	IVAHD_001
SDOCM00099841	In two stage booting code, SL2 address which is used as scratch is not properly aligned	IVAHD_001
SDOCM00099935	The variable MB_Number in SL2 is accessed uninitialized in high resolution flow(more than 2K) of decoder	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

TEXAS INSTRUMENTS

H.264 High Profile Decoder
Version 02.00.09

Release Notes

November 2012

Build ID: 02.00.09.00

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
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

![Texas Instruments logo]

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00097721	Observed visual artifacts for a particular error stream	IVAHD_001
OMAPS00283422	Output in decode order rather than in display order	IVAHD_001
OMAPS00277671	POC disorder issue – Output is in jumbled order when multiple pictures has same POC value	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 02.00.08

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

TEXAS INSTRUMENTS

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

TEXAS INSTRUMENTS

- 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

TEXAS INSTRUMENTS

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

TEXAS INSTRUMENTS

- 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
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

TEXAS INSTRUMENTS

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

TEXAS INSTRUMENTS