

Video Interoperability Results

Vendor	Encoder Vendor has submitted a transport stream that meets the requirements.
x	Encoder Vendor did not submit a Transport Stream that will meet the requirement for the test.
Vendor	Decoder Vendor
	No measurement performed or stream submitted
TS#	Transport Stream as defined in the accompanying documents.
#	Indicates a note related to the test is available at the bottom of table.
OK	Indicates there was no interoperability issues noted.
OK #	Indicates there was no interoperability issues noted for the video test but a note is available at the bottom of the table.
	Expected Failure due to lack of decoder support for submitted TS chroma format.
	Potential Interoperability Issue

How to Interpret Results

Explanation of Results: TS1 refers to the Transport Stream 1. The parameters of TS1 may be found in the accompanying documents. TS1 was generated by the HD MPEG-4 encoders listed in the top row.

The test results show the interoperability result when the specified TS was received by the HD MPEG-4 decoders in the first column.

The grey shaded boxes indicate that the encoder did not support the parameters of the TS to be tested and that no TS was supplied.

The yellow shaded boxes indicate that the decoder did not support the Chroma format of the submitted TS tested.

The number in a box refers to a note at the bottom of the test results to explain the results where necessary.

The notation "OK" means that the TS generated by the encoder specified in the top row was fully interoperable with the decoder specified in the first column."

TS Streams Available to vendors on FTP server (Pre-submitted and recorded live on site)

Encoder Vendor	Decoder Vendor	TS1a	x	Ateme	Ericsson	x	x	x
		TS1b	Adtec	Ateme	Ericsson	x	x	NTT
Adtec	Adtec	TS2	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Ateme	Ateme	TS3	Adtec	Ateme	Ericsson	Harris	x	NTT
Ericsson	Ericsson	TS4	Adtec	Ateme	Ericsson	Harris	IDC	NTT
IDC	IDC	TS5	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Harris	Harris	TS6	Adtec	Ateme	Ericsson	Harris	IDC	NTT
NTT	NTT	TS7	Adtec	Ateme	Ericsson	Harris	x	NTT
		TS8	Adtec	Ateme	Ericsson	Harris	x	NTT
		TS9	Adtec	Ateme	Ericsson	Harris	x	NTT
		TS10	x	Ateme	Ericsson	Harris	x	NTT
		TS11	Adtec	Ateme	Ericsson	Harris	IDC	NTT
		TS12	Adtec	Ateme	Ericsson	Harris	IDC	NTT
		TS13	Adtec	Ateme	Ericsson	Harris	IDC	NTT
		TS14	Adtec	Ateme	Ericsson	Harris	IDC	NTT
		TS15	Adtec	Ateme	Ericsson	Harris	IDC	NTT
		TS16	Adtec	Ateme	Ericsson	Harris	IDC	NTT
		TS17	Adtec	Ateme	Ericsson	Harris	IDC	NTT
		TS18	Adtec	Ateme	Ericsson	Harris	x	NTT
		TS19	Adtec	Ateme	Ericsson	Harris	x	NTT
		TS20	x	Ateme	Ericsson	Harris	x	NTT
		TS21	Adtec	Ateme	Ericsson	Harris	IDC	NTT
		TS22	Adtec	Ateme	Ericsson	Harris	IDC	NTT
	File Count		20	23	23	21	13	22

Submitted TS Encoders

TS1a	TS1a	x	Ateme	Ericsson	x	x	x
Adtec			1	1			
Ateme			OK	OK			
Ericsson			OK	OK			
Harris			1	1			
IDC			1	1			
NTT			1	1			

1) Decoder has no 4:2:2 10 bit support

Submitted TS Encoders

TS1b	TS1b	Adtec	Ateme	Ericsson	x	x	NTT
Adtec		OK	OK	OK			OK
Ateme		OK	OK	OK			OK
Ericsson		OK	OK	OK			OK
Harris		1	1	1			1
IDC		1	1	1			1
NTT		OK	OK	OK			OK

1) Decoder has no 4:2:2 8 bit support

Submitted TS Encoders

TS2	TS2	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Adtec		OK	OK	OK	OK	OK	OK
Ateme		OK	OK	OK	OK	OK	OK
Ericsson		OK	OK	OK	OK	OK	OK
Harris		OK	OK	OK	OK	OK	OK
IDC		1	OK	OK	OK	OK	OK
NTT		OK	OK	OK	OK	OK	OK

1) blocks during colorbars, but video OK

Submitted TS Encoders

TS3	TS3	Adtec	Ateme	Ericsson	Harris	x	NTT
Adtec		OK 3	1	1	OK		OK
Ateme		OK 3	OK	OK	OK		OK
Ericsson		OK 3	OK	OK	OK		OK
Harris		2	1	1	OK		2
IDC		2	1	1	OK		2
NTT		OK 3	1	1	OK		OK

1) Decoder has no 4:2:2 10 bit support 3) Encoder does not support 8Ch PCM audio, video OK.

2) Decoder has no 4:2:2 8 bit support

Submitted TS Encoders

TS4	TS4	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Adtec		OK	1	1	OK	OK	OK
Ateme		OK	OK	OK	OK	OK	OK
Ericsson		OK	OK	OK	OK	OK	OK
Harris		2	1	1	OK	OK	2
IDC		2	1	1	OK	OK	2
NTT		OK	1	1	OK	OK	OK

1) Decoder has no 4:2:2 10 bit support

2) Decoder has no 4:2:2 8 bit support

Submitted TS Encoders

TS5	TS5	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Adtec		OK	1	1	OK	OK	OK
Ateme		OK	OK	OK	OK	OK	OK
Ericsson		OK	OK	OK	OK	OK	OK
Harris		2	1	1	OK	OK	2
IDC		2	1	1	OK	OK	2
NTT		OK	1	1	OK	OK	OK

1) Decoder has no 4:2:2 10 bit support

2) Decoder has no 4:2:2 8 bit support

Submitted TS Encoders

TS6	TS6	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Adtec		OK	1	1	OK	OK	OK
Ateme		OK	OK	OK	OK	OK	OK
Ericsson		OK	OK	OK	OK	OK	OK
Harris		2	1	1	OK	OK	2
IDC		2	1	1	OK	OK	2
NTT		OK	1	1	OK	OK	OK

1) Decoder has no 4:2:2 10 bit support

2) Decoder has no 4:2:2 8 bit support

Submitted TS Encoders

TS7	TS7	Adtec	Ateme	Ericsson	Harris	x	NTT
Adtec		OK	1	1	OK		OK
Ateme		OK	OK	OK	OK		OK
Ericsson		OK	OK	OK	OK		OK
Harris		2	1	1	OK		2
IDC		2	1	1	OK		2
NTT		OK	1	1	OK		OK

1) Decoder has no 4:2:2 10 bit support

2) Decoder has no 4:2:2 8 bit support

Submitted TS Encoders

TS8	TS8	Adtec	Ateme	Ericsson	Harris	x	NTT
Adtec		OK	1	1	OK		OK
Ateme		OK	OK	OK	OK		OK
Ericsson		OK	OK	OK	OK		OK
Harris		OK	1	1	OK		2
IDC		OK	1	1	OK		2
NTT		OK	1	1	OK		OK

1) Decoder has no 4:2:2 10 bit support

2) Decoder has no 4:2:2 8 bit support

Submitted TS Encoders

TS9	TS9	Adtec	Ateme	Ericsson	Harris	x	NTT
Adtec		OK	1	1	OK		OK
Ateme		OK	OK	OK	OK		OK
Ericsson		OK	OK	OK	OK		OK
Harris		2	1	1	OK		2
IDC		2	1	1	OK		2
NTT		OK	1	1	OK		OK

1) Decoder has no 4:2:2 10 bit support

2) Decoder has no 4:2:2 8 bit support

Submitted TS Encoders

TS10	TS10	x	Ateme	Ericsson	Harris	x	NTT
Adtec			1	1	OK		OK
Ateme			OK	OK	OK		OK
Ericsson			OK	OK	OK		OK
Harris			1	1	OK		2
IDC			1	1	OK		2
NTT			1	1	OK		OK

1) Decoder has no 4:2:2 10 bit support

2) Decoder has no 4:2:2 8 bit support

Submitted TS Encoders

TS11	TS11	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Adtec		OK	OK	OK	OK	OK	OK
Ateme		OK	OK	OK	OK	OK	OK
Ericsson		OK	OK	OK	OK	OK	OK
Harris		OK	OK	OK	OK	OK	OK
IDC		OK	OK	OK	OK	OK	OK
NTT		OK	OK	OK	OK	OK	OK

Submitted TS Encoders

TS12	TS12	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Adtec		OK	1	1	OK	OK	OK
Ateme		OK	OK	OK	OK	OK	OK
Ericsson		OK	OK	OK	OK	OK	OK
Harris		2	1	1	OK	OK	2
IDC		2	1	1	OK	OK	2
NTT		OK	1	1	OK	OK	OK

1) Decoder has no 4:2:2 10 bit support

2) Decoder has no 4:2:2 8 bit support

Submitted TS Encoders

TS13	TS13	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Adtec		OK	1	1	OK	OK	OK
Ateme		OK	OK	OK	OK	OK	OK
Ericsson		OK	OK	OK	OK	OK	OK
Harris		2	1	1	OK	OK	2
IDC		2	1	1	OK	OK	2
NTT		OK	1	1	OK	OK	OK

1) Decoder has no 4:2:2 10 bit support

2) Decoder has no 4:2:2 8 bit support

Submitted TS Encoders

TS14	TS14	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Adtec		OK	1	1	OK	OK	OK
Ateme		OK	OK	OK	OK	OK	OK
Ericsson		OK	OK	OK	OK	OK	OK
Harris		2	1	1	OK	OK	2
IDC		2	1	1	OK	OK	2
NTT		OK	1	1	OK	OK	OK

1) Decoder has no 4:2:2 10 bit support

2) Decoder has no 4:2:2 8 bit support

Submitted TS Encoders

TS15	TS15	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Adtec		OK	OK	OK	OK	OK	OK
Ateme		OK	OK	OK	OK	OK	OK
Ericsson		OK	OK	OK	OK	OK	OK
Harris		OK	OK	OK	OK	OK	OK
IDC		OK	OK	OK	OK	OK	OK
NTT		OK	OK	OK	OK	OK	OK

Submitted TS Encoders

TS16	TS16	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Adtec		OK	OK	OK	OK	OK	OK
Ateme		OK	OK	OK	OK	OK	OK
Ericsson		OK	OK	OK	OK	OK	OK
Harris		OK	OK	OK	OK	OK	OK
IDC		OK	OK	OK	OK	OK	OK
NTT		OK	OK	OK	OK	OK	OK

Submitted TS Encoders

TS17	TS17	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Adtec		OK	OK	OK	OK	OK	OK
Ateme		OK	OK	OK	OK	OK	OK
Ericsson		OK	OK	OK	OK	OK	OK
Harris		OK	OK	OK	OK	OK	OK
IDC		OK	OK	OK	OK	OK	OK
NTT		OK	OK	OK	OK	OK	OK

Submitted TS Encoders

TS18	TS18	Adtec	Ateme	Ericsson	Harris	x	NTT
Adtec		OK	OK	OK	OK		OK
Ateme		OK	OK	OK	OK		OK
Ericsson		OK	OK	OK	OK		OK
Harris		OK	OK	1	OK		OK
IDC		OK	OK	OK	OK		OK
NTT		OK	OK	OK	OK		OK

1) some video blocking

Submitted TS Encoders

TS19	TS19	Adtec	Ateme	Ericsson	Harris	x	NTT
Adtec		OK	OK	OK	OK		OK
Ateme		OK	OK	OK	OK		OK
Ericsson		OK	OK	OK	OK		OK
Harris		OK	OK	1	OK		OK
IDC		OK	OK	OK	OK		OK
NTT		OK	OK	OK	OK		OK

1) some video blocking

Submitted TS Encoders

TS20	TS20	x	Ateme	Ericsson	Harris	x	NTT
Adtec			OK	OK	OK		OK
Ateme			OK	OK	OK		OK
Ericsson			OK	OK	OK		OK
Harris			OK	OK	OK		OK
IDC			OK	OK	OK		OK
NTT			OK	OK	OK		OK

Submitted TS Encoders

TS21	TS21	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Adtec		OK	OK	OK	OK	OK	OK
Ateme		OK	OK	OK	OK	OK	OK
Ericsson		OK	OK	OK	OK	OK	OK
Harris		OK	OK	OK	OK	OK	OK
IDC		OK	OK	OK	OK	OK	OK
NTT		OK	OK	OK	OK	OK	OK

Submitted TS Encoders

TS22	TS22	Adtec	Ateme	Ericsson	Harris	IDC	NTT
Adtec		OK	OK	OK	OK 3	OK	OK
Ateme		OK	OK	OK	OK 3	OK	OK
Ericsson		OK	OK	OK	OK 3	OK	OK
Harris		OK	1	1	OK 3	OK	2
IDC		OK	OK	OK	OK 3	OK	1
NTT		OK	OK	OK	OK 3	OK	OK

1) stuttering in video

2) No picture, decoder does not support GOP structure of the "P only" encoded TS.

3) Harris participated in live end-end latency tests with TS22, video ok during that test pattern only latency event.

3) Harris has no official submitted file or live recorded TS file for TS22.