



R1001

# DPP Compliance Programme AMWA AS-11 DPP

Product Test Report (See note 5, on next page)

DPP Lab, BBC R&D, Centre House, 56 Wood Lane, W12 7SB, UK

OEM	Telestream, Inc.
Product (Note 6)	Vantage
Product Version (Note 6)	6.3
Test Report Date	09 September 2014

OVERALL TESTING RESULT PASS WITH CONDITIONS

HD Test Artifacts Used		
Writer Functionality	Reader Functionality	
File Conformance Test Suite	File Reader Tests	
(Note 1, on next page)	(Note 2, on next page)	
F1.1	R1.1	

SD Test Artifacts Used			
Writer Functionality Reader Functionality			
File Conformance Test Suite	File Reader Tests		
(Note 1, on next page)	(Note 2, on next page)		

Not Tested	Not Tested
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GENERIC FUNCTION CATEGORIES		Functionality Tested
File Writers	Products that write AS-11 UK DPP HD files. Tests are carried out to determine whether a file written by a device conforms to the AMWA AS-11 UK DPP HD Shim v1.1 as defined by the rules for conformance [available at the link below], as well as the requirements for Descriptive Metadata.  http://www.amwa.tv/projects/rules/as-11/	Tested
File Readers - Players	Products that have the ability to read AS-11 DPP HD files and then <b>play</b> the contents of the file to a video and audio monitor. These devices may additionally include the ability to display Timecode, Descriptive Metadata and Programme Parting/Segmentation information. It is not a requirement that products should have all possible functionality. Products are only tested for the features that they have.	
File Readers - Transcoders	Products that have the ability to read AS-11 DPP HD files and then <b>transcode</b> the contents to a different format. Transcoded output files are then tested following the Player testing procedure.	Tested

## AMWA CERTIFICATION AUTHORITY

The AMWA Certification Authority uses these TEST REPORTS as the basis for awarding Certification. Please see the web page below.

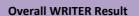
http://www.amwa.tv/certification

Template version	v1.0	09 September 2014	Release version

NOTES	
Note 1	Writer Functionality, File Conformance Test Suite: This identifies the tests carried out on AS-11 DPP OUTPUTS of the product and describes the file conformance tests used. This document is available from the DPP Compliance page on the DPP website.
Note 2	Reader Functionality, File Reader Tests: This identifies the File Reader Test procedure, including the list of tests carried out by the OEM on their own product, with the results to be noted. This document is available from the DPP Compliance page on the DPP website.
Note 3	<b>Input media used:</b> For <b>Writer</b> tests this identifies the <b>INPUT MEDIA</b> files and / or SDI and metadata sources to be used for the creation of output AS-11 DPP files specified.
Note 4	<b>Input AS-11 DPP files used:</b> For <b>Reader</b> tests this identifies the a set of AS-11 DPP test files that are used as <b>INPUTS</b> to the product.
Note 5	This <b>Product Test Report</b> is also known as the <b>TEST REPORT</b> for the purposes of applying for AMWA Certification.
Note 6	The test results (and any Certificate ultimately issued) will be tied to the version of the product tested. This means that an actual 'release' of a product must be submitted for testing.
Note 7	Certain faults are classed as 'warnings'; certain faults are classed as 'errors' but result in 'Pass with Conditions' rather than 'Fail'. The overall test result takes the worst case result from individual tests. That is, if any individual test result is a 'Fail' then the overal test result is a 'Fail'.

TEST PROCEDURE - Overv	TEST PROCEDURE - Overview		
Writer Test Procedure	Stage 1: Once signed up to the DPP Compliance Programme, the OEM should send some representative file samples to the DPP lab to be tested. The File Conformance Test Report then shows how they performed against the conformance criteria. Individual tests <i>may</i> have one of four outcomes: PASS, WARNING, PASS with CONDITIONS, and FAIL. Some tests may just have PASS or FAIL. If the initial files tested are a 'Fail' then new files will need to be submitted once the product has been updated with a fix for the issue. Once the files are a 'Pass', or 'Pass with Conditions' then the manufacturer can move to step 2 and formally request that the lab test the product at Certification Level.  Stage 2: The OEM will need to provide the lab with additional information about the product's functionality and		
	operation using the Initial OEM Product Submission Form. The Lab, in discussion with the OEM, will then agree the method(s) by which the product being tested will create files for Certification Level Testing.  Once stage 2 testing has been completed and the Product Test Report (showing Pass or Pass with Conditions) is issued to the OEM. They can then go ahead and apply for Certification from the AMWA.  Please note: If the device also includes 'Reader' functionality then this will also require a 'Pass' or 'Pass with Conditions', in order for the Product Test Report to be issued.		
Reader Test Procedure	File Reader testing is primarily 'self-serve'. The test procedure may be carried out by the OEM at any time. It principally involves downloading the set of AS-11 UK DPP HD Reader test files and asking the product to read each one, and the OEM recording the results. The ability to do this is assessed by The DPP Test Lab against set criteria which include checks for player functionality, and transcode functionality if present. (This is subject to change as new files and tests are included). A declaration form is to be completed and the results returned to the DPP Lab. Results are verified and if they are a 'Pass' or 'Pass with Conditions' a Product Test Report is issued to the OEM. Please note: If the device also includes 'Writer' functionality then this will also require a 'Pass' or 'Pass with Conditions', in order for the Product Test Report to be issued.		
Application to AMWA	Once a Product Test Report has been issued by the DPP, an OEM may follow the AMWA procedure to apply for Certification.		

PASS or PASS WITH CONDITIONS		
What it means	The capability of version X of product Y to read and / or write AMWA AS-11 UK DPP HD Shim files has been tested by the DPP Compliance Lab and all the tests performed (as referenced in this report) under the specified "realistic" operating conditions have either "Passed" or "Passed with Conditions".	
What it DOES NOT mean	a) All files produced by a Writer are always fully conformant to the "AMWA AS-11 UK DPP" Shims b) Files from Writers will always work correctly with Readers c) Files from Writers will never be rejected by UK Broadcasters d) All modes and features of the product have been tested	



PASS WITH CONDITIONS



## WRITER SUBMISSION FORM - For DPP Compliance Testing of PRODUCT to Certification Level

The OEM is to complete the following sheet and submit it to the DPP Compliance Programme, together with any output files, for testing to be undertaken.

Please see the notes section below and also comments (In grey) for guidance on what is requied. Please adjust the size of fields as necessary.

GENERAL	OEM Name	Telestream, Inc.
	Product Name	Vantage
	Product Version	6.3

DEVICE OPERATION	Can the product be used to Write AS-11 DPP HD files?	Yes
	Can the product be used to <b>Read</b> AS-11 DPP HD files?	Yes
	Give details of the range of product features that were used in writing	SDI Ingest: Telestream Pipeline
	these test files: from inputs used through to ouput being produced; e.g.	Timeline Assembly: Telestream Post Producer
	ingest; transcode; edit metadata. Details for each individual file submitted	Metadata Entry, Programme Part Marking: Vantage Workflow Portal
	should be provided in the table below.	AS-11 MXF Encoding: Vantage Transcode Pro
	For these product features, please detail the <b>capabilities</b> , the and any restrictions on the capabilities	Telestream Pipeline: Captures SD and HD SDI into files which can be used within Vantage
	· ·	Vantage Workflow Portal: Allows DPP metadata entry, and creation of a DPP timeline from one or
		more media files. One or more part start and end points are marked, from one or more input media
		files. The Workflow Portal then creates a DPP metadata XML file and an EDL containing bars, tone, slate, and programme parts per the required DPP time line.
		Telestream Post Producer: Renders the EDL into a flattened DPP time line in a mezzanine file format prior to final encoding.
		Vantage Transcode Pro: Accepts a flattened DPP time line and a DPP metadata XML file to create a final AS-11 MXF file.

	T	
CONFIGURATION	Details of product configuration in order to use the features: for example,	Telestream Vantage is used for the entire DPP assembly, metadata and encoding workflow.
	output settings.	
		For the SDI capture, Telestream Pipeline may be used to create an HD ProRes MOV file for ingest into
		Vantage.
		Vantage Transcode Pro may create a proxy for use within the Vantage Workflow Portal for programme
		part review and metadata entry.
	Cufficient information much be provided to allow a configuration to be	Vantage Workflow Portal may be used to create an EDL containing the DPP time line, and to enter DPP
	Sufficient information must be provided to allow a configuration to be	
	replecated by the test lab.	metadata.
		Post Producer may be used to render the DPP time line EDL into a mezzanine format (for example,
		ProRes with 16 channels of audio). This step may be skipped if the source media is already a correctly
		structured DPP time line.
		Structured by Fittine line.
		Vantage Transcode Pro is used to perform final encoding using the AS-11 MXF encoder. For HD
	If necessary any detailed configuration settings could be attached as an	outputs, the HD preset should be selected with audio set for one channel per track, and either 4 or 16
	appendix to this report	channes of audio. The DPP XML file is used as an input to the encoder to provide the DPP metadata.
	appendix to this report	
		Funnals would law and settings can be found on the Telestropes web site
		Example workflows and settings can be found on the Telestream web site.

AS-11 DPP FILES		List all AS-11 DPP MXF files submitted for testing, with details?						
New file name	Duration of file (hh:mm:ss:ff)	Number and duration of parts (Segmentation)	Number of audio channels		Source media used (File name or SDI) (DPP or OEM supplied in brackets)	Product features used to produce the file		
Telestream_DPP_Writer_Test_Input_A_HD.mxf	Approx 10 mins	Single	16	Writer Test Input DM - A	DPP_Writer_Test_Input_A.mov (DPP)	DPP Metadata XML was created using Vantage Workflow Portal. The source file already contained a completed DPP time line. AS-11 MXF created using Vantage Transcode Pro.		
Telestream_DPP_Writer_Test_Input_C_HD.mxf	Approx 30 mins	Single	4	Any		SDI ingest was performed using Telestream Pipeline. DPP Metadata XML and time line were created using Vantage Workflow Portal. Time line was rendered using Post Producer. AS-11 MXF was created using Vantage Transcode Pro.		
Telestream_WriterTestB_Dutch_2.mxf	Approx 10 mins	2 parts	16	Writer Test Input DM - B	DPP_Writer_Test_Input_B.mov (DPP)	DPP Metadata XML and time line EDL were created using Vantage Workflow Portal. Time line EDL was rendered using Post Producer. AS-11 MXF was created using Vantage Transcode Pro.		

	NOTES					
Writer Test Procedure	Tests should use the equipment under realistic operational conditions to produce DPP files.					
	The Lab will test that common workflows for the particular equipment under test are capable of producing valid DPP files.					
	We're not out to trick equipment into producing non-conformant files, nor are we interested in testing every possibly configuration a piece of equipment might have.					
	Equipment is not required to produce all allowed variants of AS-11 DPP files.					
	The test Lab is not part of the QA process for product development.					
	We're not testing the equipment's ability to analyse and validate its input.					
	While we encourage OEMs to produce stable equipment that copes well in the presence of faulty input, we're not testing that here. As such, all input artefacts (audiovisual					
Input artefacts	Different types of equipment will require different types of input.					
	Using different input as stimulus will also test different aspects and workflows within the same equipment.					
	input content (files) will be provided by the Lab, as shown above					
	Content will be provided in a variety of formats intended to represent likely operational inputs. Not all equipment is expected to utilise all available input artefacts. The variety on					
	Descriptive metadata (DM) will identify audio track layout and programme segmentation timecodes. The DM does not necessarily match the content of the media.					
	SDI					
	Equipment may require HD SDI as input. This is sufficiently standardised that it can be sourced locally. All files submitted to the Lab may be used to test other equipment, so					
Output artefacts (DPP files) to be produced	Outputs need to reflect the advertised capabilities of the equipment, and test a range of the (user-configurable, as opposed to developer-configurable) variation allowed by the					
	specification. They should also be representative of real programmes likely to be delivered to broadcasters.					

OEM	Telestream, Inc.		WRITER TESTING: FILE TEST REPORT		
Product	Vantage	Te	Test Result Key		
Version	6.3		P		PASS
File	Telestream_DPP_Writer_Test_Input_A_HD.mxf		w		PASS with Warning
File ref	177		С		PASS with Conditional Error
Date	05-Sep-14		F		FAIL with Critical Error

	Fault Description	PASS / FAIL
1		Р
2		P
3		P
4		P
5		P
6		P
7		P
8		P
9		Р
10		P
11		P
12		P
13		P
14		P
15		P
16		P
17		P
18		P
19		P
20		P
21		P
22		P
23		P
24		P
25		P
26 27		P
28		P
29		P
30		P
31		P
32		P
33		P
34		P
35		P
36		P
37		P
38		P
	The property BitRate in the MPEG2VideoDescriptor has the disallowed value of 100000000.	С
39	Allowed values are: 113766400	
	The property BitRate should not really be used in the MPEG2VideoDescriptor because: This is not	
40	intended for use with AVC	W
l	The property ContainerDuration was not found in the MPEG2VideoDescriptor but should be	
41	present because: SMPTE ST 377-1:2011 states 'A file writer should write the best value it can'	W
1	The property ContainerDuration was not found in the WaveAudioDescriptor but should be	
42	present because: SMPTE ST 377-1:2011 states 'A file writer should write the best value it can'	W
	Details of the Container Duration could not be found in the Multiple Descriptor of the Top Level	
	File Package. SMPTE ST 377-1:2011, 9.5.5, 17 specifically defines this property for the Top Level	
	File Package and the table in SMPTE ST 377-1:2011 F.2 states 'A file writer should write the best	
43	value it can write' for the ContainerDuration property.	W
		1 1

Test	Tool	Error or Warning Category (refer to accompanying notes)		
		Note		
Test 1	Media Player checks:		media duration	
			audio plays ok	
			video plays ok	
			qty of audio channels	
			a/v in sync and same length	
Test 2	DPP Metadata tool		DPP Metadata Validation	
Test 3	mxf2xml validation	c1-12	Mandated DM is present	
		c13-36	DM conditional & mandated values in range	
		c37-40	Line-up and Ident T/C in range, part T/Cs	
		c41	Timecode timebase is 25 fps	
		b61, b87	Exactly 1 audio channel in a track	
Test 4 - 6	All the following:	a1	AVC syntax: SMPTE RP 2027:2011 Class 100	
(Misc)	AQC 1	a2	SPS and PPS location	
	AQC 2	a3-6	Video essence: frame size, 25 fps, interlaced, 10 bit	
	mxf analyser	a7	Sound Essence Bytes	
		a8	Closed Captions	
Tests 4 - 6	All the following:	a12	MXF Conformance	
(MXF)	AQC 1	a13	Op1a	
, ,	AQC 2	a14	Header Partition Status	
	mxf analyser	a15	KLV Fill following Header Metadata	
	, , , , , , , , , , , , , , , , , , , ,	a16	Random Index Pack pressence	
		a17	KLV Alignment Grid	
		a18	Index Table presence	
		a19	Index Table location	
		a20	Index Table location	
		a21	Index Table correctness	
		a22	Essence Container	
		a23	Essence Container  Essence Container Wrapping	
		a24	Essence Container Wrapping  Essence Container Location	
		a25	Essence Container Parent Partitions	
		a25	Essence Track Referencing	
			Ü	
		a27	1 Material Package Picture Track	
		a28 a29	Picture Essence Elements Used	
		a29 a30	4 or 16 Material Package Sound Tracks	
	+		Sound Essence Elements Used  Material Package Sound Track Numbers	
	+	a31	Material Package Sound Track Numbers	
	-	a32	1 Material Package Timecode Track	
	+	a33	Footer Presence	
Tests 7 - 8	All the following:	b1-112	Consolidated Essence Descriptors: Presence and Value	
(Essence			·	
Descriptors)	mxfdump, MXFDump			
,				

OEM	Telestream, Inc.		WRITER TESTING: FILE TEST REPORT		
Product	Vantage	Test Result Key			
Version	6.3	P		PASS	
File	Telestream_WriterTestB_Dutch_2.mxf	w		PASS with Warning	
File ref	179	С		PASS with Conditional Error	
Date	05-Sep-14	F		FAIL with Critical Error	

	Fault Description	PASS / FAI
		•
2		P P
3		P
4		P
5		P
6		P
7		P
8		P
9		P
10		P
11		P
12		P
13		P
14		P
15		P
16		P
17		P
18		P
19 20		P
21		P
22		P
23		P
24		P
25		P
26		P
27		P
28		P
29		P
30		P
31		P
32		P
33		P
34		P
35		P
36 37		P
38		P
30	The property BitRate in the MPEG2VideoDescriptor has the disallowed value of 100000000.	
39	Allowed values are: 113766400	С
	The property BitRate should not really be used in the MPEG2VideoDescriptor because: This is not	
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41	present because: SMPTE ST 377-1:2011 states 'A file writer should write the best value it can'	W
	The property ContainerDuration was not found in the WaveAudioDescriptor but should be	
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43	value it can write' for the ContainerDuration property.	W

	Note	
Media Player checks:		media duration
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DPP Metadata tool		DPP Metadata Validation
mxf2xml validation	c1-12	Mandated DM is present
	c13-36	DM conditional & mandated values in range
	c37-40	Line-up and Ident T/C in range, part T/Cs
	c41	Timecode timebase is 25 fps
	b61, b87	Exactly 1 audio channel in a track
All the following:	a1	AVC syntax: SMPTE RP 2027:2011 Class 100
AQC 1	a2	SPS and PPS location
AQC 2	a3-6	Video essence: frame size, 25 fps, interlaced, 10 bit
mxf analyser	a7	Sound Essence Bytes
	a8	Closed Captions
All the following:	a12	MXF Conformance
AQC 1	a13	Op1a
AQC 2	a14	Header Partition Status
mxf analyser	a15	KLV Fill following Header Metadata
	a16	Random Index Pack pressence
	a17	KLV Alignment Grid
	a18	Index Table presence
	a19	Index Table location
	a20	Index Table completeness
	a21	Index Table correctness
	a22	Essence Container
	a23	Essence Container Wrapping
	a24	Essence Container Location
	a25	Essence Container Parent Partitions
	a26	Essence Track Referencing
	a27	1 Material Package Picture Track
	a28	Picture Essence Elements Used
	a29	4 or 16 Material Package Sound Tracks
	a30	Sound Essence Elements Used
	a31	Material Package Sound Track Numbers
	a32	1 Material Package Timecode Track
	a33	Footer Presence
All the following:	b1-112	Consolidated Essence Descriptors: Presence and Value
mxfdump, MXFDump		
1	1	
	DPP Metadata tool mxf2xml validation  All the following: AQC 1 AQC 2 mxf analyser  All the following: AQC 1 AQC 2 mxf analyser	DPP Metadata tool

OEM	Telestream, Inc.		WRITER TESTING: FILE TEST REPORT		
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	Fault Description		PASS / FAIL
	rault Description		PASS / FAIL
1		-	Р
2		lt	P
3			Р
4			Р
5			P
6			P
7			Р
8		L	P
9		L	P
10		▎▐	P
11		▎┡	P
12		H	P
13 14		l	P P
15			Р Р
16		H	Р Р
17		l	P
18		l f	<u>.</u> Р
19		l	P
20		lt	Р
21		lf	Р
22			Р
23			Р
24			P
25			P
26		L	P
27		L	Р
28		l	P
29		l F	P
30 31		┞	P P
32		H	<u>Р</u>
33		H	P
34		H	Р
35		l	<u>.</u> Р
36		lt	P
37			Р
38			Р
	The property BitRate in the MPEG2VideoDescriptor has the disallowed value of 100000000.		С
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44	The property ContainerDuration was not found in the MPEG2VideoDescriptor but should be		
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42	The property ContainerDuration was not found in the WaveAudioDescriptor but should be present because: SMPTE ST 377-1:2011 states 'A file writer should write the best value it can'		w
42	Details of the Container Duration could not be found in the Multiple Descriptor of the Top Level	ŀ	VV
	File Package. SMPTE ST 377-1:2011, 9.5.5, 17 specifically defines this property for the Top Level	П	
	File Package and the table in SMPTE ST 377-1:2011 F.2 states 'A file writer should write the best		
43	value it can write' for the ContainerDuration property.		W
	• • •	lf	

Test	Tool	Error or V	Varning Category (refer to accompanying notes)
		Note	
Test 1	Media Player checks:		media duration
			audio plays ok
			video plays ok
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		c41	Timecode timebase is 25 fps
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Test 4 - 6	All the following:	a1	AVC syntax: SMPTE RP 2027:2011 Class 100
(Misc)	AQC 1	a2	SPS and PPS location
,	AQC 2	a3-6	Video essence: frame size, 25 fps, interlaced, 10 bit
	mxf analyser	a7	Sound Essence Bytes
		a8	Closed Captions
Tests 4 - 6	All the following:	a12	MXF Conformance
(MXF)	AQC 1	a13	Op1a
(111111)	AQC 2	a14	Header Partition Status
	mxf analyser	a15	KLV Fill following Header Metadata
	mar analyser	a16	Random Index Pack pressence
		a17	KLV Alignment Grid
		a18	Index Table presence
		a19	Index Table location
		a20	Index Table location
		a20 a21	Index Table completeness
		a21 a22	Essence Container
		a23	Essence Container Wrapping
		a23	Essence Container Wrapping Essence Container Location
		a24 a25	
			Essence Container Parent Partitions
		a26 a27	Essence Track Referencing
			1 Material Package Picture Track
		a28	Picture Essence Elements Used
	_	a29	4 or 16 Material Package Sound Tracks
		a30	Sound Essence Elements Used
		a31	Material Package Sound Track Numbers
		a32	1 Material Package Timecode Track
		a33	Footer Presence
Tosts 7 0	All the following:	h1 112	Consolidated Econos Descriptors: Processes and Value
Tests 7 - 8	All the following:	b1-112	Consolidated Essence Descriptors: Presence and Value
(Essence	and was ANTD		
Descriptors)	mxfdump, MXFDump		
		-	
		1	

#### **Overall READER Result**

(DPP Test Lab review of OEM supplied test results)

PASS

# **FILE READER TEST results - For DPP Compliance Testing of PRODUCT to Certification Level**

6a Table 1 - GENERAL DETAILS (OEM to complete)		
OEM name	Telestream, Inc.	
Product name	Vantage	
Product version	6.3	
Date of tests	09/04/2014	

6b Table 2 - PRODUCT DESCRIPTION and CAPABILITIES (OEM to complete)	
Brief description of product / product type	Vantage Transcode Pro; Vantage Transcode Multiscreen, Vantage
	Transcode IPTV VOD
What are its primary functions in relation to AS-11 UK DPP Reader	Transcoding DPP files to broadcast, edit, cable, web and IPTV
tests? Please list the main ones.	formats
Does the device render both video and audio from the AS-11 DPP	Yes
file for use by the device?	
Player functionality: Does the device render to video on to a	N/A
display? If so how is this presented to the display?	
Player functionality: Is audio decoded to outputs suitable for	N/A
monitoring purposes?	
Transcode functionality: Does the device render the AS-11 DPP	Yes
video to a different file format as part of its operation?	
Does the device perform a partial file read of video and/or audio?	User may specify partial file reads to perform trimming during
	transcode.
Is there a display of media Timecode?	Yes
Does the device read AS-11 DM (descriptive metadata) and/or UK	Not during a transcode
DPP DM? If so how is this used and displayed?	
Is there any display of programme segmentation / programme	No
parting?	
Does the product have the capability to jog, shuttle and jump to a	N/A
new T/C?	

# **6e NOTES** (OEM to complete if there are any other relevant details)

DECLARATION	
7 DECLARATION	The detailed test results for File Reader Tests, and the resulting overall READER result, is based on information provided by the OEM in self testing. When submitting the detailed test results the OEM representative signed the following declaration confirming that they agreed to the statement below. The details were then reviewed by the DPP Test Lab to determine the overall READER result shown at the top of this page.

"I confirm that the information in this report has been completed honestly and is an accurate representation of the results obtained. Also, that these results provide a fair assessment of the product's ability to read and work with AS-11 DPP files in a way reasonably expected for a product of this type and functionality, and that these results were achieved when using the product in a configuration which would reasonably be regarded as normal operational use."