

INTERNATIONAL
STANDARD

ISO/IEC
8613-9

First edition
1996-09-15

**Information technology — Open Document
Architecture (ODA) and interchange format:
Audio content architectures**

*Technologies de l'information — Architecture de document ouverte (ODA)
et format de transfert: Architectures du système audio*



Reference number
ISO/IEC 8613-9:1996(E)

CONTENTS

	<i>Page</i>
1 Scope	1
2 Normative references	2
2.1 Identical Recommendations International Standards	2
2.2 Paired Recommendations International Standards equivalent in technical content	2
2.3 Additional references	2
3 Definitions	3
4 Abbreviations	3
5 Conventions	3
6 General principles	3
6.1 Content architectures	3
6.1.1 Formatted processable content architecture class	4
6.2 Content	4
6.3 Presentation attributes	4
6.4 Content portion attributes	4
6.5 Coding of content information	4
7 Audio positioning	4
7.1 Basic concepts	4
7.1.1 Measurement units	4
7.2 Positioning of elements of sampled sound in a basic layout time frame	5
7.3 Reference recording level	5
8 Audio presentation	5
8.1 Attenuation and temporal envelope	5
8.2 Frequency envelope	6
9 Definition of audio presentation attributes	6
9.1 Shared presentation attributes	6
9.1.1 Clipping	6
9.2 Layout presentation attributes	7
9.2.1 Attenuation	7
9.2.2 Temporal envelope	7
9.2.3 Frequency envelope	8
9.2.4 Content architecture class	9
10 Definition of audio content portion attributes	9
10.1 Common coding attributes	9
10.1.1 Type of coding	9
10.2 Other coding attributes	10
10.2.1 Marker	10
10.3 Content information attribute	10

© ISO/IEC 1996

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

ISO/IEC Copyright Office • Case postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

11	Formal definitions of audio content architecture dependent data types	11
11.1	Introduction.....	11
11.2	Representation of document profile attributes	11
11.3	Representation of presentation attributes	11
11.4	Representation of coding attributes.....	12
11.5	Representation of non-basic features and non-standard defaults	13
12	Content layout process	13
12.1	Introduction.....	13
12.1.1	Purpose.....	13
12.1.2	Available area	13
12.1.3	Available time span.....	13
12.1.4	Presentation attributes	13
12.1.5	Audio content architecture classes	13
12.1.6	Association of content.....	14
12.2	Content layout process for audio content.....	14
13	Content presentation process.....	14
13.1	Introduction.....	14
13.2	Content presentation process for formatted processable form	14
14	Interactions with document architecture attributes.....	14
15	Definition of audio content architecture classes.....	16
15.1	Summary of audio presentation attributes.....	16
15.2	Summary of audio content portion attributes	16
Annex A	– SGML representation of audio content-specific attributes for ODL.....	17
A.1	Introduction.....	17
A.2	Names and public identifiers.....	17
A.3	Representation of attribute values.....	17
A.3.1	Constructed parameters.....	17
A.3.2	String parameters	17
A.3.3	Keyword parameters	17
A.3.4	Integer parameters.....	18
A.3.5	Real parameters.....	18
A.4	Presentation attributes	18
A.5	Coding attributes	19
Annex B	– Data type definitions for audio content architecture attributes	20
Annex C	– Summary of audio content architecture class.....	21
C.1	Formatted processable audio content architecture class	21
C.1.1	Presentation attributes	21
C.1.2	Content portion attributes.....	22
Annex D	– Summary of ASN.1 object identifiers.....	23
Annex E	– Modifications to other parts of ITU-T Rec. T.410-Series ISO/IEC 8613	24
E.1	Modifications to ITU-T Rec. T.411 ISO/IEC 8613-1	24
E.2	Modifications to ITU-T Rec. T.412 ISO/IEC 8613-2	24
E.3	Modifications to ITU-T Rec. T.414 ISO/IEC 8613-4	24
E.4	Modifications to ITU-T Rec. T.415 ISO/IEC 8613-5	24
Annex F	– Characteristics of audio encoding schemes	26