



# **Open IPTV Forum – Release 1 DAE Reference Guide**

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# 1. Introduction

This informative document describes the elements of CSS, JavaScript and the DOM APIs that are supported by an OITF. This includes any elements defined by the OIPF DAE specification or by the profile of CEA-2014-A defined by that specification.

The intended audience of this document is both implementers of DAE platforms and content developers producing DAE applications.

This document accompanies OIPF Release 1 Specification Volume 5 Version 1.1 2009-10-08. In case of discrepancy between this document and Volume 5 of the Release 1 V1.1 Solution specification, the latter takes precedence.

## 2. CSS support

Note: In the tables found in this section, the “CSS version” column indicates the version of the CSS specification that defines the corresponding item as used in the OIPF DAE specification. It does not indicate the version of the CSS standard in which the item was introduced.

### 2.1 Generic definitions

The generic definitions in the following table are referred to in CSS properties table using the “<...>” notation.

Table 1: CSS generic definitions

Definition	Values	CSS version	Comment
color	Supports HTML4 color keywords (plus orange), <code>rgb()</code> and <code>rgba()</code> functions, transparent keyword and the six-digit hexadecimal form (e.g. #000000).	3 Color	See 2.6 for the exact CSS 3 Color profile.
shape	<code>rect(&lt;top&gt;, &lt;right&gt;, &lt;bottom&gt;, &lt;left&gt;)</code>	2.1	
uri	Relative or absolute (e.g. <code>http:</code> ) URI.	2.1	
integer	Consists of one or more digits "0" to "9".	2.1	
number	Can either be an <code>&lt;integer&gt;</code> , or it can be zero or more digits followed by a dot ( <code>.</code> ) followed by one or more digits.	2.1	
length	<code>&lt;number&gt;</code> (with or without a decimal point) immediately followed by a unit identifier (e.g., <code>px</code> , <code>em</code> , etc.). After a zero length, the unit identifier is optional.	2.1	
percentage	<code>&lt;number&gt;</code> immediately followed by <code>'%'</code> .	2.1	
border-width	<code>thin</code>   <code>medium</code>   <code>thick</code>   <code>&lt;length&gt;</code>	2.1	
<code>&lt;margin-width&gt;</code>	<code>[&lt;length&gt;   &lt;percentage&gt;   auto]</code>	2.1	
border-style	<code>none</code>   <code>hidden</code>   <code>dotted</code>   <code>dashed</code>   <code>double</code>   <code>groove</code>   <code>inset</code>   <code>outset</code>   <code>ridge</code>   <code>solid</code>	2.1	

### 2.2 CSS Properties and values

The following table shows the CSS properties supported by an OITF..

Table 2: CSS support

Properties	Values as specified	CSS version	Supported	Comment
background	<code>[ 'background-color'   'background-image'   'background-repeat'   'background-attachment'   'background-position' ]   inherit</code>	2.1	Yes	Except background-attachment
background-attachment	<code>scroll</code>   <code>fixed</code>   <code>inherit</code>	2.1	No	
background-color	<code>&lt;color&gt;</code>   <code>inherit</code>	2.1	Yes	
background-image	<code>&lt;uri&gt;</code>   <code>none</code>   <code>inherit</code>	2.1	Yes	

Properties	Values as specified	CSS version	Supported	Comment
background-position	[ [ <percentage>   <length>   left   center   right ] [ <percentage>   <length>   top   center   bottom ]? ]   [ [ left   center   right ]    [ top   center   bottom ] ]   inherit	2.1	Yes	
background-position-x/y		De-facto	No	
background-repeat	repeat   repeat-x   repeat-y   no-repeat   inherit	2.1	Yes	
border	[ <border-width>    <border-style>    <color> ]   inherit	2.1	Yes	
border-bottom border-left border-right border-top	[ <border-width>    <border-style>    <color> ]   inherit	2.1	Yes	
border-bottom-color border-left-color border-right-color border-top-color	<color>   inherit	2.1	Yes	
border-bottom-left-radius border-bottom-right-radius border-top-left-radius border-top-right-radius	<length>	3 Background d	Yes (with restrictions)	
border-bottom-style border-left-style border-right-style border-top-style	<border-style>   inherit	2.1	Yes	
border-bottom-width border-left-width border-right-width border-top-width	<border-width>   inherit	2.1	Yes	
border-collapse	collapse   separate   inherit	2.1	Yes	
border-color	<color>{1,4}   inherit	2.1	Yes	
border-radius	<length>{1,4}	3 Background d	Yes (with restrictions)	
border-spacing	<length> <length>?   inherit	2.1	Yes	
border-style	<border-style>{1,4}   inherit	2.1	Yes	
border-width	<border-width>{1,4}   inherit	2.1	Yes	
bottom	<length>   <percentage>   auto   inherit	2.1	Yes	
caption-side	top   bottom   inherit	2.1	Yes	
clear	none   left   right   both   inherit	2.1	Yes	
clip	<shape>   auto   inherit	2.1	Yes	

Properties	Values as specified	CSS version	Supported	Comment
color	<color>   inherit	2.1	Yes	Support for system colors values not required. Supports rgb() and rgba() keywords.
content	normal   none   [<string>   <uri>   <counter>   attr(<identifier>)   open-quote   close-quote   no-open-quote   no-close-quote]+   inherit	2.1	No	
counter-increment	[<identifier><integer>? ]+   none   inherit	2.1	No	
counter-reset	[<identifier><integer>? ]+   none   inherit	2.1	No	
cursor	[[<uri> ,]* [auto   crosshair   default   pointer   move   e-resize   ne-resize   nw-resize   n-resize   se-resize   sw-resize   s-resize   w-resize   text   wait   help   progress]]   inherit	2.1	No	
direction	ltr   rtl   inherit	2.1	No	
display	inline   block   list-item   run-in   inline-block   table   inline-table   table-row-group   table-header-group   table-footer-group   table-row   table-column-group   table-column   table-cell   table-caption   none   inherit	2.1	Yes (as in CSSTV)	Only inline   block   list-item   none   inherit are required to be supported.
empty-cells	show   hide   inherit	2.1	No	
float	right   left   none   inherit	2.1	Yes	
font	[ [ 'font-style'    'font-variant'    'font-weight' ]? 'font-size' [ / 'line-height' ]? 'font-family' ]   caption   icon   menu   message-box   small-caption   status-bar   inherit	2.1	Yes	Support for system font values (caption, icon, menu, message-box, small-caption, status-bar) is not required.

Properties	Values as specified	CSS version	Supported	Comment
font-family	[ [ <family-name>   <generic-family> ], [ , <family-name>   <generic-family> ]* ]   inherit  where:  <generic-family>: [ 'serif'   'sans-serif'   'cursive'   'fantasy'   'monospace' ]	2.1	Yes	
font-size	<absolute-size>   <relative-size>   <length>   <percentage>   inherit  where:  <absolute-size>: [ xx-small   x-small   small   medium   large   x-large   xx-large ] <relative-size>: [ larger   smaller ]	2.1	Yes	
font-style	normal   italic   oblique   inherit	2.1	Yes	
font-variant	normal   small-caps   inherit	2.1	Yes	
font-weight	normal   bold   bolder   lighter   100   200   300   400   500   600   700   800   900   inherit	2.1	Yes	
height	<length>   <percentage>   auto   inherit	2.1	Yes	
input-format	<alpha-numeric>   <numeric>	CEA-2014-A	Yes	
image-orientation		3	No	
left	<length>   <percentage>   auto   inherit	2.1	Yes	
letter-spacing	normal   <length>   inherit	2.1	Yes	
line-height	normal   <number>   <length>   <percentage>   inherit	2.1	Yes	
list-style	[ 'list-style-type'   'list-style-position'   'list-style-image' ]   inherit	2.1	Yes	
list-style-image	<uri>   none   inherit	2.1	Yes	
list-style-position	inside   outside   inherit	2.1	Yes	



Properties	Values as specified	CSS version	Supported	Comment
list-style-type	disc   circle   square   decimal   decimal-leading-zero   lower-roman   upper-roman   lower-greek   lower-latin   upper-latin   armenian   georgian   lower-alpha   upper-alpha   none   inherit	2.1	Yes	Support for decimal-leading-zero, lower-greek, armenian, georgian not required.
margin	<margin-width>{1,4}   inherit	2.1	Yes	
margin-bottom margin-left margin-right margin-top	<margin-width>   inherit	2.1	Yes	
max-height	<length>   <percentage>   none   inherit	2.1	Yes	
max-width	<length>   <percentage>   none   inherit	2.1	Yes	
min-height	<length>   <percentage>   inherit	2.1	Yes	
min-width	<length>   <percentage>   inherit	2.1	Yes	
nav-down nav-left nav-right nav-up	auto   <id> [ current   root   <target-name> ]?   inherit  where: <target-name> is a string and it cannot start with the underscore "_" character	3 Basic UI	YesCEA-2014-A	.Not in CEA-2014-A
opacity	<alphavalue>   inherit	3 Color	Yes (subset for specific HTML element)	
outline	[ 'outline-color'    'outline-style'    'outline-width' ]   inherit	2.1	Yes	
outline-color	<color>   invert   inherit	2.1	Yes	
outline-style	none   hidden   dotted   dashed   double   groove   inset   outset   ridge   solid   inherit   auto (CSS3)	2.1	Yes	OIPF has further restrictions and supports CSS 3 value "auto" to disambiguate browser-rendered focus highlight versus application rendered focus highlight.
outline-width	thin   medium   thick   <length>   inherit	2.1	Yes	
overflow	visible   hidden   scroll   auto   inherit	2.1	Yes	

Properties	Values as specified	CSS version	Supported	Comment
padding	<padding-width>{1,4}   inherit where, <padding-width>: <length>   <percentage>	2.1	Yes	
padding-bottom padding-left padding-right padding-top	<padding-width>   inherit	2.1	Yes	
position	static   relative   absolute   fixed   inherit	2.1	Yes	
quotes	[ <string> <string> ]+   none   inherit	2.1	No	
right	<length>   <percentage>   auto   inherit	2.1	Yes	
table-layout	auto   fixed   inherit	2.1	Yes	
text-align	left   right   center   justify   inherit	2.1	Yes	
text-decoration	none   [ underline    overline    line-through    blink ]   inherit	2.1	Yes	blink not required
text-indent	<length>   <percentage>   inherit	2.1	Yes	
text-shadow		2 (not in 2.1)	Yes (partially: only required to be able to render the text with a shadow outline font)	Part of CSS 3 2007 draft.
text-transform	capitalize   uppercase   lowercase   none   inherit	2.1	Yes	
top	<length>   <percentage>   auto   inherit	2.1	Yes	
unicode-bidi	normal   embed   bidi-override   inherit	2.1	No	
vertical-align	baseline   sub   super   top   text-top   middle   bottom   text-bottom   <percentage>   <length>   inherit	2.1	Yes	
visibility	visible   hidden   collapse   inherit	2.1	Yes	
white-space	normal   pre   nowrap   pre-wrap   pre-line   inherit	2.1	Yes	pre-wrap and pre-line support not required.
width	<length>   <percentage>   auto   inherit	2.1	Yes	
word-spacing	normal   <length>   inherit	2.1	Yes	
z-index	auto   <integer>   inherit	2.1	Yes	

## 2.3 CSS @ rules

Rule	Description	CSS version	Supported	Comment
@charset		2.1	Yes	
@font-face		2	No	
@import		2.1	Yes	
@media	all, braille, embossed, handheld, print, projection, screen, speech, tty, tv	2.1	Yes	Support required for 'all'
@page		2.1	No	

## 2.4 CSS Pseudo classes

Classes	CSS version	Supported	Comment
:link	2.1	Yes	
:visited	2.1	Yes	
:active	2.1	Yes	
:hover	2.1	No	
:focus	2.1	Yes	
:lang	2.1	Yes	
:first-child	2.1	Yes	
:first-line	2.1	Yes	
:first-letter	2.1	Yes	
:before	2.1	No	
:after	2.1	No	

## 2.5 CSS Selectors

Pattern	Selector type	Meaning	CSS version	Supported
*	Universal selector	Matches any element	2.1	Yes
E F	Descendent selectors	Matches any F element that is a descendent of an E element	2.1	Yes
E > F	Child selectors	Matches any F element that is a child of an element E	2.1	Yes
E + F	Adjacent selectors	Matches any F element immediately preceded by an element E.	2.1	No
E:first-child	The :first child pseudo class	Matches element E when it is the first child of its parent	2.1	Yes
E:link E:visited	The link pseudo-classes	Matches element E if E is the source anchor of a hyperlink of which the target is not yet visited (:link) or already visited (:visited).	2.1	Yes
E:active	The dynamic pseudo-classes	Matches E during certain user actions.	2.1	Yes
E:hover	The dynamic pseudo-classes	Matches E during certain user actions.	2.1	No
E:focus	The dynamic pseudo-classes	Matches E during certain user actions.	2.1	Yes
E:lang(c)	The :lang() pseudo-class	Matches element of type E if it is in (human) language c (the document language specifies how language is determined).	2.1	No
E[foo]	Attribute selectors	Matches any E element with the "foo" attribute set (whatever the value).	2.1	No

Pattern	Selector type	Meaning	CSS version	Supported
E[foo="bar"]	Attribute selectors	Matches any E element whose "foo" attribute value is exactly equal to "bar".	2.1	No
E[foo~="bar"]	Attribute selectors	Matches any E element whose "foo" attribute value is a list of space-separated values, one of which is exactly equal to "bar".	2.1	No
E[foo = "bar"]	Attribute selectors	Matches any E element whose "foo" attribute value has a hyphen-separated list of values beginning (from the left) with "bar".	2.1	No
E:first-line	The :first-line pseudo-element	Matches the first formatted line of an E element.	2.1	Yes
E:first-letter	The :first-letter pseudo-element	Matches the first formatted letter of an E element.	2.1	Yes
E:before	The :before pseudo-element	Matches/creates generated content before an E element.	2.1	No
E:after	The :after pseudo-element	Matches/creates generated content after an E element.	2.1	No
E.bar	Class selectors	Matches any E element whose class attribute (as defined by the document language) value is a list of space-separated values, one of which is exactly equal to "bar".	2.1	Yes
E#bar	ID selectors	Matches any E element whose ID attribute (as defined by the document language) is equal to "bar".	2.1	Yes

## 2.6 CSS-3 Color

The following table shows support for the CSS-3 Color Profiles using the format of the "Profile" section 7 of CSS3 Color specification.

	OIPF DAE
Accepts	'color' property 'opacity' property HTML4 color keywords and 'orange' RGB color values RGBA color values 'transparent' color value
Excludes	'currentColor' color value SVG color keywords HSL and HSLA color values CSS2 System colors
Extra constraints	Opacity can be used with any elements except <object> and <form> elements

### 3. JavaScript standard support

The following tables provide details on the JavaScript objects/interfaces that are supported by an OITF. Where a name starts with “:”, this indicates that it is the parent in an inheritance relationship.

#### 3.1 Basic objects (from Ecma-262 edition 3)

Object	Method / Property	Supported	Comment
(global)		Yes	
	NaN		
	Infinity		
	undefined		
	eval()		
	parseInt()		
	parseFloat()		
	isNaN()		
	isFinite()		
	decodeURI()		
	encodeURIComponent()		
	decodeURIComponent()		
	encodeURIComponent()		
Array		Yes	
	prototype		
	constructor		
	length		
	Array()		
	toString()		
	toLocaleString()		
	concat()		
	join()		
	pop()		
	push()		
	reverse()		
	shift()		
	slice()		
	sort()		
	splice()		
	unshift()		
	valueOf()		
Boolean		Yes	
	prototype		
	constructor		
	Boolean()		
	toString()		
	valueOf()		
Date		Yes	
	prototype		
	constructor		
	Date()		
	toString()		
	valueOf()		
	getTime()		
	getFullYear()		
	getFullYear()		
	getUTCFullYear()		
	getMonth()		

	getUTCMonth()		
	getDate()		
	getUTCDate()		
	getDay()		
	getUTCDay()		
	getHours()		
	getUTCHours()		
	getMinutes()		
	getUTCMinutes()		
	getSeconds()		
	getUTCSeconds()		
	getMilliseconds()		
	getUTCMilliseconds()		
	getTimezoneOffset()		
	setTime()		
	setMilliseconds()		
	setUTCMilliseconds()		
	setSeconds()		
	setUTCSeconds()		
	setMinutes()		
	setUTCMinutes()		
	setHours()		
	setUTCHours()		
	setDate()		
	setUTCDate()		
	setMonth()		
	setUTCMonth()		
	setFullYear()		
	setUTCFullYear()		
	parse()		
	UTC()		
	toDateString()		
	toTimeString()		
	toLocaleString()		
	toLocaleDateString()		
	toLocaleTimeString()		
	toUTCString()		
Error		Yes	Can be a EvalError, a RangeError, a ReferenceError, a SyntaxError, a TypeError or a URIError.
	prototype		
	constructor		
	name		
	message		
	Error()		
	toString()		
Function		Yes	
	prototype		
	constructor		
	length		
	Function()		
	apply()		
	call()		
	toString()		
Math		Yes	

	E		
	LN10		
	LN2		
	LOG2E		
	LOG10E		
	PI		
	SQRT1_2		
	SQRT2		
	abs()		
	acos()		
	asin()		
	atan()		
	atan2()		
	cos()		
	ceil()		
	exp()		
	floor()		
	log()		
	max()		
	min()		
	pow()		
	random()		
	round()		
	sin()		
	sqrt()		
	tan()		
Number		Yes	
	prototype		
	constructor		
	MAX_VALUE		
	MIN_VALUE		
	NaN		
	NEGATIVE_INFINITY		
	POSITIVE_INFINITY		
	Number()		
	toString()		
	toLocaleString()		
	toFixed()		
	toExponential()		
	toPrecision()		
	valueOf()		
Object		Yes	
	prototype		
	constructor		
	Object()		
	toString()		
	toLocaleString()		
	valueOf()		
	hasOwnProperty()		
	isPrototypeOf()		
	propertyIsEnumerable()		
RegExp		Yes	
	prototype		
	constructor		
	global		
	ignoreCase		
	lastIndex		

	multiline		
	source		
	RegExp()		
	exec()		
	test()		
	toString()		
	valueOf()		
<b>String</b>		<b>Yes</b>	
	prototype		
	length		
	constructor		
	String()		
	fromCharCode()		
	toString()		
	valueOf()		
	charAt()		
	charCodeAt()		
	concat()		
	indexOf()		
	lastIndexOf()		
	localeCompare()		
	match()		
	replace()		Second argument can use the following replacements: \$\$, \$n, \$&, \$` or \$'.
	search()		
	slice()		
	split()		
	substring()		
	toLowerCase()		
	toLocaleLowerCase()		
	toUpperCase()		
	toLocaleUpperCase()		

### 3.2 DOM0 Legacy interfaces

Interface	Attributes and methods	Supported	Comment
<b>History</b>		Partial	
	length	Yes	
	current	No	
	next	No	
	previous	No	
	back()	Yes	
	forward()	Yes	
	go()	Yes	
<b>Location</b>		Yes	
	hash		
	host		
	hostname		
	href		
	pathname		
	port		
	protocol		



	search		
	reload()		reload() and reload(false) get the page from the cache if it exists. reload(true) always gets the page from the server.
	replace()		
<b>MimeType</b>		No	
	description		
	enabledPlugin		
	suffixes		
	type		
<b>Navigator</b>		Partial	
	appName	No	
	appName	Yes	
	appVersion	Yes	
	cookieEnabled	No	
	onLine	No	
	platform	No	
	plugins	No	
	userAgent	No	
	mimeTypes	No	
	javaEnabled()	No	
	taintEnabled()	No	
<b>Plugin</b>		No	
	description		
	filename		
	length		
	name		
<b>Screen</b>		No	
	...		
<b>Window</b>	<b>:ViewCSS</b>	Partial	
	document	Yes	
	event	No	Note: The event property is available in the scope of an intrinsic event listener.
	frames	Yes	
	history	Yes	
	innerHeight	Yes	
	innerWidth	Yes	
	length	No	
	location	Yes	
	name	Yes	
	navigator	Yes	
	status	No	
	oipfObjectFactory	Yes	Added by OIPF
	onblur	Yes	
	onfocus	Yes	
	onkeydown	Yes	
	onkeypress	Yes	
	onkeyup	Yes	
	opener	No	
	closed	No	
	parent	Yes	
	screen	No	

	security	No	
	self	No	
	sidebar	No	
	statusbar	No	
	top	Yes	
	window	Yes	
	addEventListener()	Yes	
	alert()	No	
	attachEvent()	No	
	back()	No	
	blur()	Yes	
	captureEvent()	No	
	confirm()	No	
	clearInterval()	Yes	
	clearTimeout()	Yes	
	close()	Yes	
	debug()	Yes	Added by OIPF
	download()	No	Added by CEA-2014-A
	focus()	Yes	
	forward()	No	
	getSelection()	No	
	home()	No	
	moveBy()	No	
	moveTo()	No	
	navigate()	No	
	open()	No	
	postMessage()	Yes	Added by OIPF
	print()	No	
	prompt()	No	
	releaseEvents()	No	
	removeEventListener()	No	
	resizeBy()	No	
	resizeTo()	No	
	routeEvent()	No	
	scroll()	No	
	scrollBy()	No	
	scrollByLines()	No	
	scrollByPages()	No	
	scrollTo()	No	
	setInterval()	Yes	
	setTimeout()	Yes	
	subscribeToNotifications()		Added by CEA-2014-A
	subscribeToNotificationsAsync()		Added by OIPF
	onNotificationSubscriptionResponse		Added by OIPF
	unsubscribe()		Added by OIPF
	listNotificationSubscriptions()		Added by OIPF
	isSubscribed()		Added by OIPF

### 3.3 DOM Level 2 Core interfaces

Interface	Attributes and methods	Supported	Comment
Attr	:Node	Yes	
	name		
	specified		
	value		
	ownerElement		

CharacterData	:Node	Yes	
	data		
	length		
	substringData()		
	appendData()		
	insertData()		
	deleteData()		
	replaceData()		
Comment	:CharacterData	Yes	
CDATASection	:Text	Yes	
DOMException		Yes	
	code		
	DOMSTRING_SIZE_ERR		
	HIERARCHY_REQUEST_ERR		
	INDEX_SIZE_ERR		
	INUSE_ATTRIBUTE_ERR		
	INVALID_ACCESS_ERR		
	INVALID_CHARACTER_ERR		
	INVALID_MODIFICATION_ERR		
	INVALID_STATE_ERR		
	NAMESPACE_ERR		
	NOT_FOUND_ERR		
	NOT_SUPPORTED_ERR		
	NO_DATA_ALLOWED_ERR		
	NO_MODIFICATION_ALLOWED_ERR		
	SYNTAX_ERR		
	WRONG_DOCUMENT_ERR		
Document	:Node	Partial	
	doctype	Yes	
	implementation	Yes	
	documentElement	Yes	
	createElement()	Yes	
	createDocumentFragment()	Yes	
	createTextNode()	Yes	
	createComment()	Yes	
	createCDATASection()	Yes	
	createProcessingInstruction()	No	
	createAttribute()	Yes	
	createEntityReference()	No	
	getElementByTagName()	Yes	
	importNode()	Yes	
	createElementNS()	No	
	createAttributeNS()	No	
	getElementByTagNameNS()	No	
	getElementById	Yes	
DocumentFragment	:Node	Yes	
DocumentType	:Node	Yes	
	name		
	entities		
	notations		
	publicId		
	systemId		
	internalSubset		
DOMImplementation		Yes	
	createDocument()		
	createDocumentType()		
	hasFeature()		

Element	:Node	Yes	
	tagName	Yes	
	getAttribute()	Yes	
	setAttribute()	Yes	
	removeAttribute()	Yes	
	getAttributeNode()	Yes	
	setAttributeNode()	Yes	
	removeAttributeNode()	Yes	
	getElementsByTagName()	Yes	
	getAttributeNS()	No	
	setAttributeNS()	No	
	removeAttributeNS()	No	
	getAttributeNodeNS()	No	
	setAttributeNodeNS()	No	
	getElementsByTagNameNS()	No	
	hasAttribute()	Yes	
	hasAttributeNS()	No	
Entity	:Node	No	
	publicId		
	systemId		
	notationName		
EntityReference	:Node	No	
NamedNodeMap		Partial	
	length	Yes	
	getNamedItem()	Yes	
	setNamedItem()	Yes	
	removeNamedItem()	Yes	
	item()	Yes	
	getNamedItemNS()	No	
	setNamedItemNS()	No	
	removeNamedItemNS()	No	
Node		Partial	
	nodeName	Yes	
	nodeValue	Yes	
	nodeType	Yes	
	parentNode	Yes	
	childNodes	Yes	
	firstChild	Yes	
	lastChild	Yes	
	previousSibling	Yes	
	nextSibling	Yes	
	attributes	Yes	
	ownerDocument	Yes	
	namespaceURI	No	
	prefix	No	
	localName	No	
	ATTRIBUTE_NODE	Yes	
	CDATA_SECTION_NODE	Yes	
	COMMENT_NODE	Yes	
	DOCUMENT_FRAGMENT_NODE	Yes	
	DOCUMENT_NODE	Yes	
	DOCUMENT_TYPE_NODE	Yes	
	ELEMENT_NODE	Yes	
	ENTITY_NODE	Yes	
	ENTITY_REFERENCE_NODE	Yes	
	NOTATION_NODE	Yes	
	PROCESSING_INSTRUCTION_NODE	Yes	

	TEXT_NODE	Yes	
	insertBefore()	Yes	
	replaceChild()	Yes	
	removeChild()	Yes	
	appendChild()	Yes	
	hasChildNodes()	Yes	
	cloneNode()	Yes	
	normalize()	Yes	
	isSupported()	Yes	
	hasAttributes()	Yes	
NodeList		Yes	
	length		
	item()		
Notation	:Node	No	
	publicId		
	systemId		
ProcessingInstruction	:Node	No	
	target		
	data		
Text	:CharacterData	Yes	
	splitText()		

### 3.4 DOM Level 2 Events interfaces

Interface	Attributes and methods	Supported	Comment
DocumentEvent		Yes	
	createEvent()		
Event		Yes	
	type		
	target		
	currentTarget		
	eventPhase		
	bubbles		
	cancelable		
	timeStamp		
	stopPropagation()		
	preventDefault()		
	initEvent()		
EventException		Yes	
	code		
	UNSPECIFIED_EVENT_TYPE_ERR		
EventListener		Yes	In CEA-2014-A, some extra restrictions, i.e. returning a Boolean. This is not standard. However, returning false from the Javascript event handler is very common to prevent the default action to take place. For more information see section "Prevent default" in <a href="http://www.quirksmode.org/js/events_early.html">http://www.quirksmode.org/js/events_early.html</a>

Interface	Attributes and methods	Supported	Comment
EventTarget		Yes	
	addEventListener()		
	removeEventListener()		
	dispatchEvent()		
MouseEvent	:UIEvent	No	In CEA-2014-A, useful if there is a pointing device used in a remote UI scenario. Also, in OIPF requirements added about generating click events when activating: <a>, <area> <button>, <input> and <select> (see [Req. 5.4.1.s] in Annex B)
	screenX		
	screenY		
	clientX		
	clientY		
	ctrlKey		
	shiftKey		
	altKey		
	metaKey		
	button		
	relatedTarget		
	initMouseEvent()		
MutationEvent	:Event	Yes	
	relatedNode		
	prevValue		
	newValue		
	attrName		
	attrChange		
	MODIFICATION		
	ADDITION		
	REMOVAL		
	initMutationEvent()		
UIEvent	:Event	Yes	
	view		May return null
	detail		
	initUIEvent()		
KeyEvent	:UIEvent	Yes	CEA-2014-A specific (inspired from a W3C draft).
	shiftKey		
	keyCode		
	initKeyEvent()		
	VK_*		

### 3.5 Supported event type

Event type	Spec	Supported	Comments
DOMFocusIn	DOM 2 Event (UIEvent)	Yes	Support for elements other than form elements, anchors and

			<area> elements is optional.
DOMFocusOut	DOM 2 Event (UIEvent)	Yes	Support for elements other than form elements, anchors and <area> elements is optional.
DOMActivate	DOM 2 Event (UIEvent)	Yes	
DOMAttrModified	DOM 2 Event (MutationEvent)	Yes	
DOMCharacterDataModified	DOM 2 Event (MutationEvent)	Yes	
DOMNodeInserted	DOM 2 Event (MutationEvent)	Yes	
DOMNodeInsertedIntoDocument	DOM 2 Event (MutationEvent)	Yes	
DOMNodeRemoved	DOM 2 Event (MutationEvent)	Yes	
DOMNodeRemovedFromDocument	DOM 2 Event (MutationEvent)	Yes	
DOMSubtreeModified	DOM 2 Event (MutationEvent)	Yes	
abort	DOM 2 Event (HTML event)	Yes	Only for <img> element.
blur	DOM 2 Event (HTML event)	Yes	
change	DOM 2 Event (HTML event)	Yes	
click	DOM 2 Event (MouseEvent)	Yes	Generated when activating: <a>, <area>, <button>, <input> and <select>.
dblclick	DOM 0 legacy	No	
error	DOM 2 Event (HTML event)	Yes	Only for <img> element.
focus	DOM 2 Event (HTML event)	Yes	
keydown	DOM 0 legacy	Yes	
keypress	DOM 0 legacy	Yes	
keyup	DOM 0 legacy	Yes	
load	DOM 2 Event (HTML event)	Yes	Only for <body>, <iframe>, <img> and <script> elements.
mousedown	DOM 2 Event (MouseEvent)	Yes (if pointer is supported)	
mousemove	DOM 2 Event (MouseEvent)	Yes (if pointer is supported)	
mouseout	DOM 2 Event (MouseEvent)	Yes (if pointer is supported)	
mouseover	DOM 2 Event (MouseEvent)	Yes (if pointer is supported)	
mouseup	DOM 2 Event (MouseEvent)	Yes (if pointer is supported)	
readystatechange	XMLHttpRequest	Yes	
reset	DOM 2 Event (HTML event)	Yes	
resize	DOM 2 Event (HTML event)	Yes	
scroll	DOM 2 Event (HTML event)	Yes	
select	DOM 2 Event (HTML event)	Yes	
submit	DOM 2 Event (HTML event)	Yes	
unload	DOM 2 Event (HTML event)	Yes	Only for <body> element.

### 3.6 DOM Level 2 Style interfaces

Interface	Attributes and methods	Supported	Comment
Counter		No	
	identifier		
	listStyle		
	separator		
CSSCharsetRule		Yes	
	UNKNOWN_RULE		
	STYLE_RULE		
	CHARSET_RULE		
	IMPORT_RULE		
	MEDIA_RULE		
	FONT_FACE_RULE		
	PAGE_RULE		
	type		
	cssText		
	parentStyleSheet		
	parentRule		
	encoding		
CSSFontFaceRule		No	
	UNKNOWN_RULE		
	STYLE_RULE		
	CHARSET_RULE		
	IMPORT_RULE		
	MEDIA_RULE		
	FONT_FACE_RULE		
	PAGE_RULE		
	type		
	cssText		
	parentStyleSheet		
	parentRule		
	style		
CSSImportRule		Yes	
	UNKNOWN_RULE		
	STYLE_RULE		
	CHARSET_RULE		
	IMPORT_RULE		
	MEDIA_RULE		
	FONT_FACE_RULE		
	PAGE_RULE		
	type		
	cssText		
	parentStyleSheet		
	parentRule		
	Href		
	Media		
	styleSheet		
CSSMediaRule		Yes	
	UNKNOWN_RULE		
	STYLE_RULE		
	CHARSET_RULE		
	IMPORT_RULE		
	MEDIA_RULE		
	FONT_FACE_RULE		
	PAGE_RULE		



Interface	Attributes and methods	Supported	Comment
	type		
	cssText		
	parentStyleSheet		
	parentRule		
	media		
	cssRules		
	insertRule()		
	deleteRule()		
<b>CSSPageRule</b>		No	
	UNKNOWN_RULE		
	STYLE_RULE		
	CHARSET_RULE		
	IMPORT_RULE		
	MEDIA_RULE		
	FONT_FACE_RULE		
	PAGE_RULE		
	type		
	cssText		
	parentStyleSheet		
	parentRule		
	selectorText		
	style		
<b>CSSPrimitiveValue</b>		No	Was in CEA-2014-A, excluded in OIPF
	CSS_UNKNOWN		
	CSS_NUMBER		
	CSS_PERCENTAGE		
	CSS_EMS		
	CSS_EXS		
	CSS_PX		
	CSS_CM		
	CSS_MM		
	CSS_IN		
	CSS_PT		
	CSS_PC		
	CSS_DEG		
	CSS-RAD		
	CSS_GRAD		
	CSS_MS		
	CSS_S		
	CSS_HZ		
	CSS_KHZ		
	CSS_DIMENSION		
	CSS_STRING		
	CSS_URK		
	CSS_IDENT		
	CSS_ATTR		
	CSS_COUNTER		
	CSS_RECT		
	CSS_RGBCOLOR		
	primitiveType		
	setFloatValue()		
	getFloatValue()		
	setStringValue		
	getStringValue()		
	getCounterValue()		

Interface	Attributes and methods	Supported	Comment
	getRectValue()		
	getRGBColorValue()		
	cssText		
	cssValueType		
CSS2Properties		Partial	For all supported CSS properties.
	azimuth	No	
	background	Yes	
	backgroundAttachment	No	
	backgroundColor	Yes	
	backgroundImage	Yes	
	backgroundPosition	Yes	
	backgroundPositionX	No	IE specific
	backgroundPositionY	No	IE specific
	backgroundRepeat	Yes	
	border	Yes	
	border-radius	Yes	
	border-bottom-left-radius	Yes	
	border-bottom-right-radius	Yes	
	border-top-left-radius	Yes	
	border-top-right-radius	Yes	
	borderBottom	Yes	
	borderBottomColor	Yes	
	borderBottomStyle	Yes	
	borderBottomWidth	Yes	
	borderCollapse	Yes	
	borderColor	Yes	
	borderLeft	Yes	
	borderLeftColor	Yes	
	borderLeftStyle	Yes	
	borderLeftWidth	Yes	
	borderRight	Yes	
	borderRightColor	Yes	
	borderRightStyle	Yes	
	borderRightWidth	Yes	
	borderSpacing	No	
	borderStyle	Yes	
	borderTop	Yes	
	borderTopColor	Yes	
	borderTopStyle	Yes	
	borderTopWidth	Yes	
	borderWidth	Yes	
	bottom	Yes	
	captionSide	Yes	
	clear	Yes	
	clip	Yes	
	color	Yes	
	content	No	
	counterIncrement	No	
	counterReset	No	
	cssFloat	Yes	
	cue	No	
	cueAfter	No	
	cueBefore	No	
	cursor	No	
	direction	No	

Interface	Attributes and methods	Supported	Comment
	display	Yes	
	elevation	No	
	emptyCells	No	
	font	Yes	
	fontFamily	Yes	
	fontSize	Yes	
	fontSizeAdjust	No	
	fontStretch	No	
	fontStyle	Yes	
	fontVariant	Yes	
	fontWeight	Yes	
	height	Yes	
	left	Yes	
	letterSpacing	Yes	
	lineHeight	Yes	
	listStyle	Yes	
	listStyleImage	Yes	
	listStylePosition	Yes	
	listStyleType	Yes	
	margin	Yes	
	marginBottom	Yes	
	marginLeft	Yes	
	marginRight	Yes	
	marginTop	Yes	
	markerOffset	No	
	marks	No	
	maxHeight	Yes	
	maxWidth	Yes	
	minHeight	Yes	
	minWidth	Yes	
	opacity	Yes	CSS3
	orphans	No	
	outline	Yes	
	outlineColor	Yes	
	outlineStyle	Yes	
	outlineWidth	Yes	
	overflow	Yes	
	padding	Yes	
	paddingBottom	Yes	
	paddingLeft	Yes	
	paddingRight	Yes	
	paddingTop	Yes	
	page	No	
	pageBreakAfter	No	
	pageBreakBefore	No	
	pageBreakInside	No	
	pause	No	
	pauseAfter	No	
	pauseBefore	No	
	pitch	No	
	pitchRange	No	
	playDuring	No	
	position	Yes	
	quotes	No	
	richness	No	

Interface	Attributes and methods	Supported	Comment
	right	Yes	
	size	No	
	speak	No	
	speakHeader	No	
	speakNumeral	No	
	speakPunctuation	No	
	speechRate	No	
	stress	No	
	tableLayout	No	
	textAlign	Yes	
	textDecoration	Yes	
	textIndent	Yes	
	textShadow	Yes	
	textTransform	Yes	
	top	Yes	
	unicodeBidi	No	
	verticalAlign	Yes	
	visibility	Yes	
	voiceFamily	No	
	volume	No	
	whiteSpace	Yes	
	widows	No	
	width	Yes	
	wordSpacing	Yes	
	zIndex	Yes	
	zoom	No	
<b>CSSRule</b>		<b>Yes</b>	
	UNKNOWN_RULE		
	STYLE_RULE		
	CHARSET_RULE		
	IMPORT_RULE		
	MEDIA_RULE		
	FONT_FACE_RULE		
	PAGE_RULE		
	type		
	cssText		
	parentStyleSheet		
	parentRule		
<b>CSSRuleList</b>		<b>Yes</b>	
	readonly Number length		
	item()		
<b>CSSStyleDeclaration</b>		<b>Partial</b>	
	cssText	Yes	
	length	Yes	
	parentRule	Yes	
	getPropertyCSSValue()	No	Was in CEA-2014-A, excluded by OIPF
	getPropertyPriority()	Yes	
	getPropertyValue()	Yes	
	item()	Yes	
	removeProperty()	Yes	
	setProperty()	Yes	
<b>CSSStyleRule</b>		<b>Yes</b>	
	UNKNOWN_RULE		
	STYLE_RULE		
	CHARSET_RULE		

Interface	Attributes and methods	Supported	Comment
	IMPORT_RULE		
	MEDIA_RULE		
	FONT_FACE_RULE		
	PAGE_RULE		
	type		
	cssText		
	parentStyleSheet		
	parentRule		
	selectorText		
	style		
CSSStyleSheet		Yes	
	ownerRule		
	cssRules		
	insertRule()		
	deleteRule()		
CSSUnknownRule		No	Was in CEA-2014-A, excluded by OIPF
	UNKNOWN_RULE		
	STYLE_RULE		
	CHARSET_RULE		
	IMPORT_RULE		
	MEDIA_RULE		
	FONT_FACE_RULE		
	PAGE_RULE		
	type		
	cssText		
	parentStyleSheet		
	parentRule		
CSSValue		No	Was in CEA-2014-A, excluded by OIPF
	cssText		
	cssValueType		
CSSValueList		No	Was in CEA-2014-A, excluded by OIPF
	cssText		
	cssValueType		
	length		
	item		
DocumentCSS		Yes	
	styleSheets		
	getOverrideStyle()		
DocumentStyle		Yes	
	styleSheets		
ElementCSSInlineStyle		Yes	
	style		
LinkStyle		Yes	
	sheet		
MediaList		Yes	
	mediaText		
	length		
	item()		
	deleteMedium()		
	appendMedium()		
Rect		No	Was in CEA-2014-A, excluded by OIPF
	left		

Interface	Attributes and methods	Supported	Comment
	right		
	bottom		
	top		
RGBColor		No	Was in CEA-2014-A, excluded by OIPF
	red		
	green		
	blue		
StyleSheet		Yes	
	type		
	disabled		
	ownerNode		
	parentStyleSheet		
	href		
	title		
	media		
StyleSheetList		Yes	
	length		
	item()		
ViewCSS		Yes	
	getComputedStyle()		

### 3.7 DOM Level 2 HTML interfaces

Interface	Attributes and methods	Supported	Comment
HTMLCollection		Yes	
	length		
	item()		
	namedItem()		
HTMLDocument	:Document :DocumentStyle	Partial	
	anchors	Yes	
	applets	No	
	body	Yes	
	cookie	Yes	
	domain	Yes	
	forms	Yes	
	images	Yes	
	links	Yes	
	referrer	Yes	
	title	Yes	
	URL	Yes	
	open()	Yes	
	close()	Yes	
	write()	Yes	
	writeln()	Yes	
	getElementsByName()	Yes	
HTMLElement	:Element :EventTarget :ElementCSSInlineStyle	Yes	
	className		
	dir		
	id		

Interface	Attributes and methods	Supported	Comment
	lang		
	title		
	innerHTML		
HTMLHtmlElement	:HTMLElement	Yes	
	version	Yes	
HTMLHeadElement	:HTMLElement	Yes	
	profile	Yes	
HTMLLinkElement	:HTMLElement	Yes	
	charset		
	disabled		
	href		
	hreflang		
	media		
	rel		
	rev		
	target		
	type		
HTMLTitleElement	:HTMLElement	Yes	
	text	Yes	
HTMLMetaElement	:HTMLElement	Yes	
	content		
	httpEquiv		
	name		
	scheme		
HTMLBaseElement	:HTMLElement	Yes	
	href		
	target		
HTMLIsindexElement	:HTMLElement	Yes	
	form		
	prompt		
HTMLStyleElement	:HTMLElement	Yes	
	disabled		
	media		
	type		
HTMLBodyElement	:HTMLElement	Yes	
	aLink		
	background		
	bgColor		
	link		
	text		
	vLink		
HTMLFormElement	:HTMLElement	Yes	
	acceptCharset		
	action		
	elements		
	enctype		
	length		
	method		
	name		
	target		
	reset()		
	submit()		
HTMLSelectElement	:HTMLElement	Yes	
	disabled		
	form		

Interface	Attributes and methods	Supported	Comment
	length		
	multiple		
	name		
	options		
	selectedIndex		
	size		
	tabIndex		
	type		
	value		
	add()		
	remove()		
	blur()		
	focus()		
HTMLOptGroupElement	:HTMLElement	Yes	
	disabled		
	label		
HTMLOptionElement	:HTMLElement	Yes	
	defaultSelected		
	disabled		
	form		
	index		
	label		
	selected		
	text		
	value		
HTMLInputElement	:HTMLElement	Yes	
	accept		
	accessKey		
	align		
	alt		
	checked		
	defaultChecked		
	defaultValue		
	disabled		
	form		
	maxLength		
	name		
	readOnly		
	size		
	src		
	tabIndex		
	type		
	useMap		
	value		
	select()		
	blur()		
	focus()		
	click()		
HTMLTextAreaElement	:HTMLElement	Yes	
	accessKey		
	cols		
	defaultValue		
	disabled		
	form		
	name		



Interface	Attributes and methods	Supported	Comment
	readOnly		
	rows		
	tabIndex		
	type		
	value		
	select()		
	blur()		
	focus()		
HTMLButtonElement	:HTMLInputElement	Yes	
	accessKey		
	disabled		
	form		
	name		
	tabIndex		
	type		
	value		
	blur()		NOTE: Not standard
	focus()		NOTE: Not standard
HTMLLabelElement	:HTMLInputElement	Yes	
	accessKey		
	form		
	htmlFor		
HTMLFieldSetElement	:HTMLInputElement	Yes	
	form		
HTMLLegendElement	:HTMLInputElement	Yes	
	accessKey		
	align		
	form		
HTMLULListElement	:HTMLListElement	Yes	
	compact		
	type		
HTMLLOListElement	:HTMLListElement	Yes	
	compact		
	start		
	type		
HTMLDListElement	:HTMLListElement	Yes	
	compact		
HTMLDirectoryElement	:HTMLListElement	Yes	
	compact		
HTMLMenuElement	:HTMLListElement	Yes	
	compact		
HTMLLIElement	:HTMLListElement	Yes	
	type		
	value		
HTMLBlockquoteElement	:HTMLTextElement	Yes	
	cite		
HTMLDivElement	:HTMLTextElement	Yes	
	align		
HTMLParagraphElement	:HTMLTextElement	Yes	
	align		
HTMLHeadingElement	:HTMLTextElement	Yes	
	align		
HTMLQuoteElement	:HTMLTextElement	Yes	
	cite		
HTMLPreElement	:HTMLTextElement	Yes	

Interface	Attributes and methods	Supported	Comment
	width		
HTMLBRElement	:HTMLInputElement	Yes	
	clear		
HTMLBaseFontElement	:HTMLFontElement	Yes	
	color		
	face		
	size		
HTMLFontElement	:HTMLFontElement	Yes	
	color		
	face		
	size		
HTMLHRElement	:HTMLTextElement	Yes	
	align		
	noShade		
	size		
	width		
HTMLModElement	:HTMLTextElement	Yes	
	cite		
	dateTime		
HTMLAnchorElement	:HTMLTextElement	Yes	
	accessKey		
	charset		
	coords		
	href		
	hreflang		
	name		
	rel		
	rev		
	shape		
	tabIndex		
	target		
	type		
	blur()		
	focus()		
HTMLImageElement	:HTMLImageElement	Yes	
	align		
	alt		
	border		
	height		
	hspace		
	isMap		
	longDesc		
	lowSrc		
	name		
	src		
	useMap		
	vspace		
	width		
HTMLObjectElement	:HTMLImageElement	Yes	
	align		
	archive		
	border		
	code		
	codeBase		
	codeType		

Interface	Attributes and methods	Supported	Comment
	data		
	declare		
	form		
	height		
	hspace		
	name		
	standby		
	tabIndex		
	type		
	useMap		
	vspace		
	width		
	contentDocument		
HTMLParamElement	:HTMLInputElement	Yes	
	name		
	type		
	value		
	valueType		
HTMLAppletElement	:HTMLAppletElement	No	
	align		
	alt		
	archive		
	code		
	codeBase		
	height		
	hspace		
	name		
	object		
	vspace		
	width		
HTMLMapElement	:HTMLMapElement	Yes	
	areas		
	name		
HTMLAreaElement	:HTMLAreaElement	Yes	
	accessKey		
	alt		
	coords		
	href		
	noHref		
	shape		
	target		
	tabIndex		
HTMLScriptElement	:HTMLScriptElement	Yes	
	charset		
	defer		
	event		
	htmlFor		
	src		
	text		
	type		
HTMLTableElement	:HTMLTableElement	Yes	
	align		
	bgColor		
	border		
	caption		

Interface	Attributes and methods	Supported	Comment
	cellPadding		
	cellSpacing		
	frame		
	rows		
	rules		
	summary		
	tBodies		
	tFoot		
	tHead		
	width		
	createCaption()		
	createTFoot()		
	createTHead()		
	deleteCaption()		
	deleteRow()		
	deleteTFoot()		
	deleteTHead()		
	insertRow()		
HTMLTableCaptionElement	:HTMLElement	Yes	
	align		
HTMLTableColElement	:HTMLElement	Yes	
	align		
	ch		
	chOff		
	span		
	vAlign		
	width		
HTMLTableSelectionElement	:HTMLElement	Yes	
	align		
	ch		
	chOff		
	rows		
	vAlign		
	deleteRow()		
	insertRow()		
HTMLTableRowElement	:HTMLElement	Yes	
	align		
	bgColor		
	cells		
	ch		
	chOff		
	rowIndex		
	sectionRowIndex		
	vAlign		
	deleteCell()		
	insertCell()		
HTMLTableCellElement	:HTMLElement	Yes	
	abbr		
	align		
	axis		
	bgColor		
	cellIndex		
	ch		
	chOff		
	colSpan		

Interface	Attributes and methods	Supported	Comment
	headers		
	height		
	noWrap		
	rowSpan		
	scope		
	vAlign		
	width		
HTMLFrameSetElement	:HTMLElement	No	
	cols		
	rows		
HTMLFrameElement	:HTMLElement	No	
	frameBorder		
	longDesc		
	marginHeight		
	marginWidth		
	name		
	noResize		
	scrolling		
	src		
	contentDocument		
HTMLIFrameElement	:HTMLElement	Yes	
	align		
	frameBorder		
	height		
	longDesc		
	marginHeight		
	marginWidth		
	name		
	scrolling		
	src		
	width		
	contentDocument		
	contentWindow		
HTMLOptionsCollection		Yes	

### 3.8 Constructor aliases

Alias	Interface	Supported	Comment
Image	HTMLImageElement	No	
Option	HTMLOptionElement	No	

Example:

```
img = new Image();
```

### 3.9 DOM Level 2 View interfaces

Interface	Attributes and methods	Supported	Comment
AbstractView		Yes	(implemented by the window object)
	document	Yes	
DocumentView		Yes	(implemented by the document object)
	defaultView	Yes	

### 3.10 XMLHttpRequest object

The XMLHttpRequest object is supported as defined by the W3C specification (<http://www.w3.org/TR/XMLHttpRequest/>).

The following table summarizes the interface support:

Interface	Method / Property	Supported	Comment
XMLHttpRequest		Yes	
	onreadystatechange		
	readyState		
	responseText		
	responseXML		Implies that "XML Document" must be supported.
	status		
	statusText		
	open()		Only with asyncFlag set to TRUE.
	send()		
	abort()		
	getAllResponseHeaders()		
	getResponseHeader()		
	setRequestHeader()		

## 4. OIPF support

The following tables give an overview of the JavaScript APIs and events defined by the OIPF DAE specification or by the profile of CEA-2014-A defined by the OIPF DAE specification.

### 4.1 OIPF JavaScript APIs

Interface	Attributes and methods	Section
application/oipfObjectFactory embedded object		7.1
	Boolean <b>isObjectSupported</b> ( String mimeType )	
	HTMLObjectElement <b>createVideoBroadcastObject</b> ()	
	HTMLObjectElement <b>createVideoMpegObject</b> ()	
	HTMLObjectElement <b>createStatusViewObject</b> ()	
	Object <b>createApplicationManagerObject</b> ()	
	Object <b>createCodManagerObject</b> ()	
	Object <b>createConfigurationObject</b> ()	
	Object <b>createDownloadManagerObject</b> ()	
	Object <b>createDownloadTriggerObject</b> ()	
	Object <b>createDrmAgentObject</b> ()	
	Object <b>createGatewayInfoObject</b> ()	
	Object <b>createIMSObject</b> ()	
	Object <b>createNotifSocketObject</b> ()	
	Object <b>createParentalControlManagerObject</b> ()	
	Object <b>createRecordingSchedulerObject</b> ()	
	Object <b>createRemoteManagementObject</b> ()	
	Object <b>createSearchManagerObject</b> ()	
	Object <b>createCapabilitiesObject</b> ()	
	Object <b>createMDTFObject</b> ()	
application/oipfApplicationManager embedded object		7.2.1
	function <b>onLowmemory</b> ()	
	function <b>onApplicationLoaded</b> ( Application appl )	
	function <b>onApplicationUnloaded</b> ( Application appl )	
	Integer <b>getApplicationVisualizationMode</b> ()	
	Application <b>getOwnerApplication</b> ( Document document )	
	ApplicationCollection <b>getChildApplications</b> ( Application application )	
	void <b>gc</b> ()	
Application		7.2.2
	readonly Boolean <b>visible</b>	
	readonly Boolean <b>active</b>	
	readonly StringCollection <b>permissions</b>	
	readonly Boolean <b>isPrimaryReceiver</b>	
	readonly Window <b>window</b>	
	readonly ApplicationPrivateData <b>private</b>	
	function <b>onApplicationActivated</b> ()	
	function <b>onApplicationDeactivated</b> ()	
	function <b>onApplicationShown</b> ()	
	function <b>onApplicationHidden</b> ()	
	function <b>onApplicationPrimaryReceiver</b> ()	
	function <b>onApplicationNotPrimaryReceiver</b> ()	
	function <b>onApplicationTopmost</b> ()	
	function <b>onApplicationNotTopmost</b> ()	
	function <b>onApplicationDestroyRequest</b> ()	
	function <b>onKeyPress</b> ()	
	function <b>onKeyUp</b> ()	
	function <b>onKeyDown</b> ()	

Interface	Attributes and methods	Section
	void <b>show</b> ()	
	void <b>hide</b> ()	
	void <b>activateInput</b> ()	
	void <b>deactivateInput</b> ()	
	Application <b>createApplication</b> ( String uri, Boolean createChild)	
	void <b>destroyApplication</b> ()	
ApplicationCollection		7.2.3
	readonly Integer <b>length</b>	
	Application <b>item</b> ( Integer index )	
ApplicationPrivateData		
	readonly Keyset <b>keyset</b>	
	Integer <b>getFreeMem</b> ()	
Keyset		7.2.5
	RED	
	GREEN	
	YELLOW	
	BLUE	
	NAVIGATION	
	VCR	
	SCROLL	
	INFO	
	NUMERIC	
	ALPHA	
	OTHER	
	readonly Integer <b>value</b>	
	readonly Integer <b>otherKeys</b> [ ]	
	readonly Integer <b>maximumValue</b>	
	readonly Integer <b>maximumOtherKeys</b> [ ]	
	Integer <b>setValue</b> ( Integer value, Integer otherKeys[ ] )	
application/oipfConfiguration embedded object		7.3.1
	readonly Configuration <b>configuration</b>	
	readonly LocalSystem <b>localSystem</b>	
Configuration		7.3.2
	String <b>preferredAudioLanguage</b>	
	String <b>preferredSubtitleLanguage</b>	
	String <b>countryId</b>	
	Integer <b>regionId</b>	
	readonly Boolean <b>isPINEntryLocked</b>	
	Integer <b>pvrPolicy</b>	
	Integer <b>pvrSaveEpisodes</b>	
	Integer <b>pvrSaveDays</b>	
	Integer <b>pvrStartPadding</b>	
	Integer <b>pvrEndPadding</b>	
	Integer <b>setParentalControlPIN</b> ( String oldPcPIN, String newPcPIN )	
	Integer <b>setParentalControlPINEnable</b> ( String pcPIN, Boolean enable )	
	Boolean <b>getParentalControlPINEnable</b> ()	
	Integer <b>unlockWithParentalControlPIN</b> ( String pcPIN, Object target, Integer duration )	
	Integer <b>verifyParentalControlPIN</b> ( String pcPIN )	
	Integer <b>setBlockUnrated</b> ( String pcPIN, Boolean block )	
	Boolean <b>getBlockUnrated</b> ()	
	String <b>getText</b> ( String key )	



Interface	Attributes and methods	Section
	void <b>setText</b> ( String key, String value )	
LocalSystem		7.3.3
	readonly String <b>deviceID</b>	
	readonly Boolean <b>systemReady</b>	
	readonly String <b>vendorName</b>	
	readonly String <b>modelName</b>	
	readonly String <b>softwareVersion</b>	
	readonly String <b>hardwareVersion</b>	
	readonly String <b>serialNumber</b>	
	readonly Boolean <b>pvrEnabled</b>	
	Boolean <b>standbyState</b>	
	Integer <b>volume</b>	
	Boolean <b>mute</b>	
	readonly AVOutputCollection <b>outputs</b>	
	readonly NetworkInterfaceCollection <b>networkInterfaces</b>	
	readonly Integer <b>tvStandard</b>	
	readonly Integer <b>pvrSupport</b>	
	Boolean <b>setScreenSize</b> ( Integer width, Integer height )	
	Integer <b>setPvrSupport</b> ( Integer state )	
NetworkInterface		7.3.4
	readonly String <b>ipAddress</b>	
	readonly String <b>macAddress</b>	
	readonly Boolean <b>connected</b>	
	Boolean <b>enabled</b>	
AVOutput		7.3.5
	readonly String <b>name</b>	
	readonly String <b>type</b>	
	Boolean <b>enabled</b>	
	Boolean <b>subtitleEnabled</b>	
	String <b>videoMode</b>	
	String <b>digitalAudioMode</b>	
	String <b>audioRange</b>	
	String <b>hdVideoFormat</b>	
	String <b>tvAspectRatio</b>	
	readonly StringCollection <b>supportedVideoModes</b>	
	readonly StringCollection <b>supportedDigitalAudioModes</b>	
	readonly StringCollection <b>supportedAudioRanges</b>	
	readonly StringCollection <b>supportedHdVideoFormats</b>	
	readonly StringCollection <b>supportedAspectRatios</b>	
NetworkInterfaceCollection		7.3.6
	readonly Integer <b>length</b>	
	NetworkInterface <b>item</b> ( Integer index )	
AVOutputCollection		7.3.7
	readonly Integer <b>length</b>	
	AVOutput <b>item</b> ( Integer index )	
application/oipfDownloadTrigger embedded object		7.4.1
	String <b>registerDownload</b> ( String contentAccessDownloadDescriptor, Date downloadStart )	7.4.1
	String <b>registerDownloadURL</b> ( String URL, String contentType, Date downloadStart )	7.4.1
	Integer <b>checkDownloadPossible</b> ( Integer sizeInBytes )	7.4.1
	String <b>registerDownloadFromCRID</b> ( String CRID, String IMI, Date downloadStart )	7.4.2
application/oipfDownloadManager embedded object		7.4.3

Interface	Attributes and methods	Section
	function <b>onDownloadStateChange</b> ( Download item, Integer state, Integer reason )	
	readonly DiscInfo <b>discInfo</b>	
	Boolean <b>pause</b> ( Download download )	
	Boolean <b>resume</b> ( Download download )	
	Boolean <b>remove</b> ( Download download )	
	DownloadCollection <b>getDownloads</b> ( String id )	
	DownloadCollection <b>createFilteredList</b> ( Boolean currentDomain, Integer states )	
Download		7.4.4
	readonly Integer <b>totalSize</b>	
	readonly Integer <b>state</b>	
	readonly Integer <b>amountDownloaded</b>	
	readonly String <b>name</b>	
	readonly Integer <b>downloadIDType</b>	
	readonly String <b>id</b>	
	readonly String <b>contentURL</b>	
	readonly String <b>description</b>	
	readonly ParentalRatingCollection <b>parentalRatings</b>	
	readonly DRMControlInfoCollection <b>drmControl</b>	
	readonly Date <b>startTime</b>	
	readonly Integer <b>timeElapsed</b>	
	readonly Integer <b>timeRemaining</b>	
	readonly String <b>transferType</b>	
	readonly String <b>originSite</b>	
	readonly String <b>originSiteName</b>	
	readonly String <b>contentID</b>	
	readonly String <b>iconURL</b>	
DownloadCollection		7.4.5
	readonly Integer <b>length</b>	
	Download <b>item</b> ( Integer index )	
DRMControlInformation		7.4.6
	readonly String <b>drmType</b>	
	readonly String <b>drmContentID</b>	
	readonly String <b>rightsIssuerURL</b>	
	readonly String <b>silentRightsURL</b>	
	readonly String <b>drmContentID</b>	
	readonly String <b>previewRightsURL</b>	
	readonly String <b>drmPrivateData</b>	
	readonly Boolean <b>doNotRecord</b>	
	readonly Boolean <b>doNotTimeShift</b>	
DRMControlInfoCollection		7.4.7
	readonly Integer <b>length</b>	
	DRMControlInformation <b>item</b> ( Integer index )	
application/oipfCodManager embedded object		7.5.1
	readonly ContentCatalogueCollection <b>catalogues</b>	
	function <b>onContentCatalogueEvent</b>	
	function <b>onContentAction</b>	
CatalogueCollection		7.5.2
	readonly Integer <b>length</b>	
	contentCatalogue <b>item</b> ( Integer index )	
ContentCatalogue		7.5.3
	readonly String <b>name</b>	
	readonly CODFolder <b>rootFolder</b>	
	CODFolder <b>getPurchaseHistory</b> ()	
CODFolder		7.5.5

Interface	Attributes and methods	Section
	readonly Integer <b>type</b>	
	readonly String <b>uid</b>	
	readonly String <b>uri</b>	
	readonly String <b>name</b>	
	readonly String <b>description</b>	
	readonly String <b>thumbnailUri</b>	
	readonly Integer <b>length</b>	
	readonly Integer <b>currentPage</b>	
	readonly Integer <b>pageSize</b>	
	readonly Integer <b>totalSize</b>	
	Object <b>item</b> ( Integer index )	
	void <b>getPage</b> ( Integer page, Integer pageSize )	
	void <b>abort</b> ()	
CODAsset		7.5.6
	readonly Integer <b>type</b>	
	readonly String <b>uid</b>	
	readonly String <b>uri</b>	
	readonly String <b>name</b>	
	readonly String <b>description</b>	
	readonly StringCollection <b>genres</b>	
	readonly ParentalRating <b>parentalRating</b>	
	readonly Boolean <b>blocked</b>	
	readonly Boolean <b>locked</b>	
	readonly String <b>thumbnailUri</b>	
	readonly String <b>price</b>	
	readonly Integer <b>rentalPeriod</b>	
	readonly Integer <b>playCount</b>	
	readonly Integer <b>duration</b>	
	readonly String <b>previewUri</b>	
	readonly BookmarkCollection <b>bookmarks</b>	
	Boolean <b>isReady</b> ()	
	StringCollection <b>lookupMetadata</b> ( String key )	
CODService		7.5.7
	readonly Integer <b>length</b>	
	readonly Integer <b>currentPage</b>	
	readonly Integer <b>pageSize</b>	
	readonly Integer <b>totalSize</b>	
	readonly Integer <b>type</b>	
	readonly String <b>uid</b>	
	readonly String <b>uri</b>	
	readonly String <b>name</b>	
	readonly String <b>description</b>	
	readonly String <b>thumbnailUri</b>	
	readonly String <b>previewUri</b>	
	Boolean <b>isReady</b> ()	
	StringCollection <b>lookupMetadata</b> ( String key )	
application/oipfDrmAgent embedded object		7.6.1
	function <b>onDRMMessageResult</b> ( String msgID, String resultMsg, Integer resultCode )	
	String <b>sendDRMMessage</b> (String msgType, String msg, String DRMSystemID)	
application/oipfGatewayInfo embedded object		7.7.1
	readonly Boolean <b>IGDiscovery</b>	
	readonly Boolean <b>AGDiscovery</b>	
	readonly Boolean <b>cspGatewayDiscovery</b>	
	readonly String <b>igURL</b>	

Interface	Attributes and methods	Section
	readonly String <b>agURL</b>	
	readonly String <b>cspGatewayURL</b>	
	Integer <b>interval</b>	
	function <b>onDiscoverIG</b>	
	function <b>onDiscoverAG</b>	
	function <b>onDiscoverCSPG</b>	
	Boolean <b>isIGSupportedMethod</b> ( String methodName )	
application/oipfIMS embedded object		7.8.1
	STATE_REGISTERED	7.8.1
	STATE_REGISTERED_SUBSCRIPTION_PENDING	7.8.1
	STATE_REGISTERED_SUBSCRIPTION_ACTIVE	7.8.1
	STATE_DEREGISTERED	7.8.1
	STATE_FAILURE	7.8.1
	function <b>onIMSNotification</b> ( String responseHeaders, String msgText, Document msgXML )	7.8.1
	function <b>onNotificationResult</b> ( Integer resultMsg )	7.8.1
	function <b>onRegistrationContextUpdate</b> ( String user, Integer state, Integer errorCode )	7.8.1
	readonly UserData <b>currentUser</b>	7.8.1
	UserDataCollection <b>getRegisteredUsers</b> ()	7.8.1
	void <b>registerUser</b> ( String userId, String pin )	7.8.1
	void <b>deRegisterUser</b> ( String userId )	7.8.1
	UserDataCollection <b>getAllUsers</b> ()	7.8.1
	Boolean <b>setUser</b> ( String userId )	7.8.1
	void <b>subscribeIMSNotification</b> ( FeatureTagCollection featureTagCollection, Boolean performuserregistration )	7.8.1
	void <b>unsubscribeIMSNotification</b> ()	
	function <b>onIncomingMessage</b> ( String fromURI, String msg, Integer cid )	7.8.2
	function <b>onContactStatusChange</b> ( String remoteURI, Integer state )	7.8.2
	function <b>onNewWatcher</b> ( String remoteURI )	7.8.2
	Integer <b>openChatSession</b> ( String toURI )	7.8.2
	void <b>sendMessageInSession</b> ( Integer cid, String msg )	7.8.2
	void <b>closeChatSession</b> ( Integer cid )	7.8.2
	void <b>sendMessage</b> ( String toURI, String msg )	7.8.2
	void <b>setStatus</b> ( Integer state )	7.8.2
	void <b>subscribeToStatus</b> ( String remoteURI )	7.8.2
	ContactCollection <b>getContacts</b> ()	7.8.2
	void <b>allowContact</b> ( String remoteURI )	7.8.2
	void <b>blockContact</b> ( String remoteURI )	7.8.2
	Boolean <b>createContactList</b> ( String contactListUri, ContactCollection contacts )	7.8.2
	ContactCollection <b>getContacts</b> ( String contactListUri )	7.8.2
	Boolean <b>addToContactList</b> ( String contactListUri, Contact member )	7.8.2
	Boolean <b>removeFromContactList</b> ( String contactListUri, Contact member )	7.8.2
	Boolean <b>deleteContactList</b> ( String contactListUri )	7.8.2
	void <b>allowContact</b> ( String remoteURI )	7.8.2
	void <b>blockContact</b> ( String remoteURI )	7.8.2
	void <b>allowAllContacts</b> ( String domain )	7.8.2
	void <b>blockAllContacts</b> ( String domain )	7.8.2
UserData		7.8.3
	readonly String <b>userId</b>	
	readonly FeatureTagCollection <b>featureTags</b>	

Interface	Attributes and methods	Section
	readonly String <b>friendlyName</b>	
UserDataCollection		7.8.4
	readonly Integer <b>length</b>	
	UserData <b>item</b> ( Integer index )	
FeatureTag		7.8.5
	readonly String <b>featureTag</b>	
FeatureTagCollection		7.8.6
	readonly Integer <b>length</b>	
	FeatureTag <b>item</b> ( Integer index )	
Contact		7.8.7
	String <b>contactId</b>	
	String <b>friendlyName</b>	
ContactCollection		7.8.8
	readonly Integer <b>length</b>	
	Contact <b>item</b> ( Integer index )	
	Boolean <b>add</b> ( Contact contact )	
	Boolean <b>remove</b> ( String contactId )	
application/oipfParentalControlManager embedded object		7.9.1
	readonly ParentalRatingSchemeCollection <b>parentalRatingSchemes</b>	
	Integer <b>setParentalControlStatus</b> ( String pcPIN, Boolean enable )	
	Boolean <b>getParentalControlStatus</b> ()	
	Boolean <b>getBlockUnrated</b> ()	
ParentalRatingScheme		7.9.2
	readonly String <b>name</b>	
	readonly Integer <b>length</b>	
	readonly ParentalRating <b>threshold</b>	
	Integer <b>indexOf</b> ( String ratingValue )	
	String <b>item</b> ( Integer index )	
	String <b>iconUri</b> ( Integer index )	
ParentalRatingSchemeCollection		7.9.3
	readonly Integer <b>length</b>	
	ParentalRatingScheme <b>item</b> ( Integer index )	
	ParentalRatingScheme <b>addParentalRatingScheme</b> ( String name, String values )	
	ParentalRatingScheme <b>getParentalRatingScheme</b> ( String name )	
ParentalRating		7.9.4
	readonly String <b>name</b>	
	readonly String <b>scheme</b>	
	readonly Integer <b>value</b>	
	readonly Integer <b>labels</b>	
	readonly String <b>region</b>	
ParentalRatingCollection		7.9.5
	readonly Integer <b>length</b>	
	ParentalRating <b>item</b> ( Integer index )	
	void <b>addParentalRating</b> ( String scheme, String name, Integer value, Integer labels, String region )	
application/oipfRecordingScheduler embedded object		7.10.1
	ScheduledRecording <b>record</b> ( Programme programme )	7.10.1
	ScheduledRecording <b>recordAt</b> ( Integer startTime, Integer duration, Integer repeatDays, String channelId )	7.10.1
	ScheduledRecordingCollection <b>getScheduledRecordings</b> ()	7.10.1
	ChannelConfig <b>getChannelConfig</b> ()	7.10.1
	void <b>remove</b> ( ScheduledRecording recording )	7.10.1

Interface	Attributes and methods	Section
	Programme <b>createProgrammeObject()</b>	7.10.1
	readonly RecordingCollection <b>recordings</b>	7.10.4
	readonly DiscInfo <b>discInfo</b>	7.10.4
	function <b>onPVREvent</b>	7.10.4
	Recording <b>getRecording( String id )</b>	7.10.4
	void <b>remove ( Recording recording )</b>	7.10.4
	void <b>stop( Recording recording )</b>	7.10.4
	void <b>stop( Recording recording )</b>	7.10.4
ScheduledRecording		7.10.2
	ID_TVA_CRID	
	ID_DVB_EVENT	
	Integer <b>startPadding</b>	
	Integer <b>endPadding</b>	
	readonly Integer <b>repeatDays</b>	
	readonly String <b>name</b>	
	readonly String <b>longName</b>	
	readonly String <b>description</b>	
	readonly String <b>longDescription</b>	
	readonly Integer <b>startTime</b>	
	readonly Integer <b>duration</b>	
	readonly Channel <b>channel</b>	
	readonly Boolean <b>isSeries</b>	
	readonly String <b>programmeID</b>	
	readonly Integer <b>programmeIDType</b>	
	readonly Integer <b>episode</b>	
	readonly Integer <b>totalEpisodes</b>	
	readonly ParentalRatingCollection <b>parentalRating</b>	
	readonly RecordingCollection <b>recordings</b>	
	readonly DiscInfo <b>discInfo</b>	
	function <b>onPVREvent</b>	
	Recording <b>getRecording( String id )</b>	
	void <b>remove ( Recording recording )</b>	
	void <b>stop( Recording recording )</b>	
	void <b>refresh()</b>	
ScheduledRecordingCollection		7.10.3
	readonly Integer <b>length</b>	
	ScheduledRecording <b>item( Integer index )</b>	
Recording		7.10.5
	readonly Integer <b>state</b>	
	readonly String <b>id</b>	
	readonly Boolean <b>isManual</b>	
	Boolean <b>doNotDelete</b>	
	Integer <b>saveDays</b>	
	Integer <b>saveEpisodes</b>	
	readonly Boolean <b>blocked</b>	
	readonly ParentalRatingCollection <b>parentalRatings</b>	
	readonly Integer <b>showType</b>	
	readonly Boolean <b>subtitles</b>	
	readonly StringCollection <b>subtitleLanguages</b>	
	readonly Boolean <b>isHD</b>	
	readonly Integer <b>audioType</b>	
	readonly Boolean <b>isMultilingual</b>	
	readonly StringCollection <b>audioLanguages</b>	
	readonly StringCollection <b>genres</b>	
	readonly Integer <b>recordingStartTime</b>	

Interface	Attributes and methods	Section
	readonly Integer <b>recordingDuration</b>	
	readonly BookmarkCollection <b>bookmarks</b>	
	readonly Boolean <b>locked</b>	
RecordingCollection		7.10.6
	readonly Integer <b>length</b>	
	Object <b>item</b> ( Integer index )	
Bookmark		7.10.8
	readonly Integer <b>time</b>	
	readonly String <b>name</b>	
BookmarkCollection		7.10.9
	readonly Integer <b>length</b>	
	Bookmark <b>item</b> ( Integer index )	
	Bookmark <b>addBookmark</b> ( Integer time, String name )	
	void <b>removeBookmark</b> ( Bookmark bookmark )	
application/oipfRemoteManagement embedded object		7.11.1
	readonly String <b>vendorName</b>	
	readonly String <b>modelName</b>	
	readonly String <b>softwareVersion</b>	
	readonly String <b>hardwareVersion</b>	
	String <b>getParameter</b> ( String parameterName )	
	String <b>setParameter</b> ( String parameterName, String value )	
	Integer <b>triggerSoftwareUpdate</b> ( String token )	
application/oipfSearchManager embedded object		7.12.1
	readonly Integer <b>guideDaysAvailable</b>	
	function <b>onMetadataUpdate</b>	
	function <b>onMetadataSearch</b>	
	MetadataSearch <b>createSearch</b> ( Integer searchTarget )	
	ChannelConfig <b>getChannelConfig</b> ()	
MetadataSearch		7.12.2
	readonly Integer <b>id</b>	
	readonly Integer <b>searchTarget</b>	
	Query <b>query</b>	
	readonly SearchResults <b>result</b>	
	void <b>addRatingConstraint</b> ( ParentalRatingScheme scheme, Integer threshold )	
	void <b>addCurrentRatingConstraint</b> ()	
	void <b>addChannelConstraint</b> ( ChannelList channels )	
	void <b>addChannelConstraint</b> ( Channel channel )	
	void <b>orderBy</b> ( String field, Boolean ascending )	
	Query <b>createQuery</b> ( String field, Integer comparison, String value )	
	Boolean <b>findProgrammesFromStream</b> ( Channel channel, Integer startTime, Integer count )	
Query		7.12.3
	readonly String <b>field</b>	
	readonly Integer <b>comparison</b>	
	readonly String <b>value</b>	
	Query <b>and</b> ( Query query )	
	Query <b>or</b> ( Query query )	
	Query <b>not</b> ()	
SearchResults		7.12.4
	readonly Integer <b>length</b>	
	readonly Integer <b>offset</b>	
	readonly Integer <b>totalSize</b>	
	Object <b>item</b> ( Integer index )	
	Boolean <b>getResults</b> ( Integer offset, Integer count )	

Interface	Attributes and methods	Section
	void <b>abort</b> ()	
	void <b>update</b> ()	
video/broadcast embedded object		7.13.1
	Integer <b>width</b>	7.13.1
	Integer <b>height</b>	7.13.1
	readonly Boolean <b>fullScreen</b>	7.13.1
	function <b>onChannelChangeError</b> ( Channel channel, Number errorState )	7.13.1
	Integer <b>playState</b>	7.13.1
	function <b>onPlayStateChange</b> ( Number state, Number error )	7.13.1
	function <b>onChannelChangeSucceeded</b> ( Channel channel )	7.13.1
	function <b>onFullScreenChange</b>	7.13.1
	function <b>onfocus</b>	7.13.1
	function <b>onblur</b>	7.13.1
	ChannelConfig <b>getChannelConfig</b> ()	7.13.1
	void <b>bindToCurrentChannel</b> ()	7.13.1
	Channel createChannelObject( Integer idType, String dsd, Integer sid )	7.13.1
	Channel createChannelObject( Integer idType, Integer onid, Integer tsid, Integer sid, Integer sourceID, String ipBroadcastID )	7.13.1
	void <b>setChannel</b> ( Channel channel, Boolean trickplay, String contentAccessDescriptorURL )	7.13.1
	void <b>prevChannel</b> ()	7.13.1
	void <b>nextChannel</b> ()	7.13.1
	void <b>setFullScreen</b> ( Boolean fullscreen )	7.13.1
	Boolean <b>setVolume</b> ( Integer volume )	7.13.1
	Integer <b>getVolume</b> ()	7.13.1
	void <b>release</b> ()	7.13.1
	POSITION_START	7.13.2
	POSITION_CURRENT	7.13.2
	POSITION_END	7.13.2
	function <b>onPlaySpeedChanged</b> ( Number speed )	7.13.2
	function <b>onPlayPositionChanged</b> ( Integer position )	7.13.2
	readonly Integer <b>playbackOffset</b>	7.13.2
	readonly Integer <b>maxOffset</b>	7.13.2
	readonly Integer <b>recordingState</b>	7.13.2
	function <b>onRecordingEvent</b>	7.13.2
	readonly Integer <b>playPosition</b>	7.13.2
	readonly Number <b>playSpeed</b>	7.13.2
	readonly Number <b>playSpeeds</b> [ ]	7.13.2
	String <b>recordNow</b> ( Integer duration )	7.13.2
	void <b>stopRecording</b> ()	7.13.2
	Boolean <b>pause</b> ()	7.13.2
	Boolean <b>resume</b> ()	7.13.2
	Boolean <b>setSpeed</b> ( Number speed )	7.13.2
	Boolean <b>seek</b> ( Integer offset, Integer reference )	7.13.2
	Boolean <b>stopTimeshift</b> ()	7.13.2
	void <b>setChannel</b> ( Channel channel, Boolean trickplay, String contentAccessDescriptorURL, Integer offset )	7.13.2
	readonly ProgrammeCollection <b>programmes</b>	7.13.3
	function <b>onProgrammesChanged</b>	7.13.3
	COMPONENT_TYPE_VIDEO	7.13.4
	COMPONENT_TYPE_AUDIO	7.13.4
	COMPONENT_TYPE_SUBTITLE	7.13.4



Interface	Attributes and methods	Section
	AVComponent[] <b>getComponents</b> ( Integer componentType )	7.13.4
	AVComponent[] <b>getCurrentActiveComponents</b> ( Integer componentType )	7.13.4
	void <b>selectComponent</b> ( AVComponent component )	7.13.4
	void <b>unselectComponent</b> ( AVComponent component )	7.13.4
	function <b>onParentalRatingChange</b> ( String contentID, ParentalRating rating, String DRMSystemID )	7.13.5
	function <b>onParentalRatingError</b> ( String contentID, ParentalRating rating, String DRMSystemID )	7.13.5
	function <b>onDRMRightsError</b> ( Integer errorState, String contentID, String DRMSystemID, String rightsIssuerURL )	7.13.6
	readonly Channel <b>currentChannel</b>	7.13.7
	function <b>onChannelScan</b>	7.13.7
	Integer <b>startScan</b> ()	7.13.7
	void <b>stopScan</b> ()	7.13.7
	ChannelList <b>createChannelList</b> ( String bdr )	7.13.8
AVComponent		7.13.4.2
	readonly Integer <b>type</b>	
	readonly String <b>encoding</b>	
	readonly Boolean <b>encrypted</b>	
	readonly Number <b>aspectRatio</b>	
	readonly String <b>language</b>	
	readonly Boolean <b>audioDescription</b>	
	readonly Integer <b>audioChannels</b>	
	readonly Boolean <b>hearingImpaired</b>	
ChannelConfig		7.13.9
	readonly ChannelList <b>channelList</b>	
	readonly FavouriteListCollection <b>favouriteLists</b>	
	readonly String <b>currentFavouriteList</b>	
	ChannelList <b>createFilteredList</b> ( Boolean blocked, Boolean favourite, Boolean hidden, String favouriteListID )	
ChannelList		7.13.10
	readonly Integer <b>length</b>	
	Channel <b>item</b> ( Integer index )	
	Channel <b>getChannel</b> ( String channelID )	
	Channel <b>getChannelByTriplet</b> ( Integer onid, Integer tsid, Integer sid )	
	Channel <b>getChannelBySourceID</b> ( Integer sourceID )	
Channel		7.13.11
	TYPE_TV	7.13.11
	TYPE_RADIO	7.13.11
	TYPE_OTHER	7.13.11
	ID_ANALOG	7.13.11
	ID_DVB_C	7.13.11
	ID_DVB_S	7.13.11
	ID_DVB_T	7.13.11
	ID_DVB_SI_DIRECT	7.13.11
	ID_DVB_C2	7.13.11
	ID_DVB_S2	7.13.11
	ID_DVB_T2	7.13.11
	ID_ISDB_C	7.13.11
	ID_ISDB_S	7.13.11
	ID_ISDB_T	7.13.11
	ID_ATSC_T	7.13.11
	ID_IPTV_SDS	7.13.11

Interface	Attributes and methods	Section
	ID_IPTV_URI	7.13.11
	readonly Integer <b>channelType</b>	7.13.11
	readonly Integer <b>idType</b>	7.13.11
	readonly String <b>ccid</b>	7.13.11
	readonly String <b>tunerID</b>	7.13.11
	readonly Integer <b>onid</b>	7.13.11
	readonly Integer <b>tsid</b>	7.13.11
	readonly Integer <b>tsid</b>	7.13.11
	readonly Integer <b>sourceID</b>	7.13.11
	readonly Integer <b>freq</b>	7.13.11
	readonly Integer <b>cni</b>	7.13.11
	readonly String <b>name</b>	7.13.11
	readonly Integer <b>majorChannel</b>	7.13.11
	readonly Integer <b>minorChannel</b>	7.13.11
	readonly String <b>dsd</b>	7.13.11
	readonly Boolean <b>favourite</b>	7.13.11
	readonly StringCollection <b>favIDs</b>	7.13.11
	readonly Boolean <b>locked</b>	7.13.11
	readonly Boolean <b>manualBlock</b>	7.13.11
	readonly String <b>ipBroadcastID</b>	7.13.11
	readonly Integer <b>channelMaxBitRate</b>	7.13.11
	readonly Integer <b>channelTTR</b>	7.13.11
	readonly String <b>longName</b>	7.13.11.3
	readonly String <b>description</b>	7.13.11.3
	readonly Boolean <b>authorised</b>	7.13.11.3
	readonly StringCollection <b>genre</b>	7.13.11.3
	Boolean <b>hidden</b>	7.13.11.3
	string <b>logoURL</b>	7.13.11.3
	String <b>getField</b> ( String fieldId )	7.13.11.3
	String <b>getLogo</b> ( Integer width, Integer height )	7.13.11.3
FavouriteListCollection		7.13.12
	readonly Integer <b>length</b>	
	FavouriteList <b>getFavouriteList</b> ( String favID )	
	FavouriteList <b>item</b> ( Integer index )	
	Integer <b>createFavouriteList</b> ( )	
	Boolean <b>remove</b> ( Integer index )	
	Boolean <b>commit</b> ( )	
FavouriteList		7.13.13
	readonly String <b>favID</b>	
	readonly String <b>name</b>	
	readonly Integer <b>length</b>	
	Channel <b>item</b> ( Integer index )	
	Channel <b>getChannel</b> ( String channelID )	
	Channel <b>getChannelByTriplet</b> ( Integer onid, Integer tsid, Integer sid )	
	Channel <b>getChannelBySourceID</b> ( Integer sourceID )	
	Boolean <b>insertBefore</b> ( Integer index, String ccid )	
	Boolean <b>remove</b> ( Integer index )	
	Boolean <b>commit</b> ( )	
AV Control embedded object		CEA-2014-A
	String <b>data</b>	CEA-2014-A
	readonly Number <b>playPosition</b>	CEA-2014-A
	readonly Number <b>playPosition</b>	CEA-2014-A
	readonly Number <b>playState</b>	CEA-2014-A
	readonly Number <b>error</b>	CEA-2014-A
	readonly Number <b>speed</b>	CEA-2014-A

Interface	Attributes and methods	Section
	Object <b>onPlayStateChange</b>	CEA-2014-A
	readonly Number <b>nrTracks</b>	CEA-2014-A
	Number <b>currentTrackIndex</b>	CEA-2014-A
	Boolean <b>persist</b>	CEA-2014-A
	Boolean <b>play(Number speed)</b>	CEA-2014-A
	Boolean <b>stop()</b>	CEA-2014-A
	Boolean <b>seek(Number pos)</b>	CEA-2014-A
	Boolean <b>setVolume(Number volume)</b>	CEA-2014-A
	Boolean <b>next()</b>	CEA-2014-A
	Boolean <b>previous()</b>	CEA-2014-A
	String <b>getSinkProtocolInfo()</b>	CEA-2014-A
	String <b>getTransportStateVariables</b> ( String stateVariableList)	CEA-2014-A
	String <b>setTransportStateVariables</b> ( String stateVariableValuePairs)	CEA-2014-A
	readonly Boolean <b>fullScreen</b>	CEA-2014-A
	Number <b>width</b>	CEA-2014-A
	Number <b>height</b>	CEA-2014-A
	Object <b>onFullScreenChange</b>	CEA-2014-A
	<b>setFullScreen(Boolean fullscreen);</b>	CEA-2014-A
	void <b>focus()</b>	CEA-2014-A
	Object <b>onfocus</b>	CEA-2014-A
	Object <b>onblur</b>	CEA-2014-A
	function <b>onPlaySpeedChanged</b> ( Number speed )	7.14.3
	script <b>onPlayPositionChanged</b> ( Integer position )	7.14.3
	readonly Number <b>playSpeeds[ ]</b>	7.14.3
	readonly String <b>oifSourceIPAddress</b>	7.14.3
	readonly String <b>oifSourcePortAddress</b>	7.14.3
	Boolean <b>oifNoRTSPSessionControl</b>	7.14.3
	String <b>oifRTSPSessionId</b>	7.14.3
	COMPONENT_TYPE_VIDEO	7.14.4
	COMPONENT_TYPE_AUDIO	7.14.4
	COMPONENT_TYPE_SUBTITLE	7.14.4
	AVComponent[] <b>getComponents</b> ( Integer componentType )	7.14.4
	AVComponent[] <b>getCurrentActiveComponents</b> ( Integer componentType )	7.14.4
	void <b>selectComponent</b> ( AVComponent component )	7.14.4
	void <b>unselectComponent</b> ( AVComponent component )	7.14.4
	function <b>onParentalRatingChange</b> ( String contentID, ParentalRating rating, String DRMSystemID )	7.14.5
	function <b>onParentalRatingError</b> ( String contentID, ParentalRating rating, String DRMSystemID )	7.14.5
	function <b>onDRMRightsError</b> ( Integer errorState, String contentID, String DRMSystemID, String rightsIssuerURL )	7.14.6
	Boolean <b>setSource</b> ( String id )	7.14.7
	function <b>onReadyToPlay</b>	7.14.8
	Boolean <b>readyToPlay</b>	7.14.8
	Integer <b>getAvailablePlayTime</b> ( Boolean fromPlayPosition )	7.14.8
	Boolean <b>setBufferingStrategy</b> ( String name )	7.14.8
application/oipfMDF	embedded object	7.15.1
	function <b>onFLUTEListenerResult</b> ( String multicastAddress, Integer resultMsg )	
	void <b>addFLUTEListener</b> ( String multicastAddress )	
	void <b>addFLUTEListenerTags</b> ( String multicastAddress, String[] tags, String downloadCallBack)	
	String[] <b>getFLUTEListeners</b> ()	

Interface	Attributes and methods	Section
	String[] <b>getTags</b> ( String multicastAddress )	
	void <b>removeFLUTEListener</b> ( String multicastAddress )	
application/oipfStatusView embedded object		7.15.2
	Integer <b>getMinimumItemWidth</b> ( String state )	
	Integer <b>getMinimumItemHeight</b> ( String state )	
application/oipfCapabilities embedded object		7.15.3
	readonly Document <b>xmlCapabilities</b>	
	Boolean <b>hasCapability</b> ( String profileName )	
Navigator		
Window		
StringCollection		7.16.1
	readonly Integer <b>length</b>	
	String <b>item</b> ( Integer index )	
Programme		7.16.2
	ID_TVA_CRID	7.16.2
	ID_DVB_EVENT	7.16.2
	String <b>name</b>	7.16.2
	String <b>longName</b>	7.16.2
	String <b>description</b>	7.16.2
	String <b>longDescription</b>	7.16.2
	Integer <b>startTime</b>	7.16.2
	Integer <b>duration</b>	7.16.2
	String <b>channelID</b>	7.16.2
	Integer <b>episode</b>	7.16.2
	Integer <b>totalEpisodes</b>	7.16.2
	String <b>programmeID</b>	7.16.2
	Integer <b>programmeIDType</b>	7.16.2
	readonly ParentalRatingCollection <b>parentalRating</b>	7.16.2
	readonly Channel <b>channel</b>	7.16.2.3
	readonly Boolean <b>blocked</b>	7.16.2.3
	readonly Integer <b>showType</b>	7.16.2.3
	readonly Boolean <b>subtitles</b>	7.16.2.3
	readonly Boolean <b>isHD</b>	7.16.2.3
	readonly Integer <b>audioType</b>	7.16.2.3
	readonly Boolean <b>isMultilingual</b>	7.16.2.3
	readonly StringCollection <b>genre</b>	7.16.2.3
	readonly Boolean <b>hasRecording</b>	7.16.2.3
	readonly StringCollection <b>audioLanguages</b>	7.16.2.3
	readonly StringCollection <b>subtitleLanguages</b>	7.16.2.3
	readonly Boolean <b>locked</b>	7.16.2.3
	String <b>getField</b> ( String fieldId )	7.16.2.3
	StringCollection <b>getSIDescriptors</b> ( Integer descriptorTag, Integer descriptorTagExtension )	7.16.2.4
	readonly ScheduledRecording <b>scheduledRecording</b>	7.16.2.5
	readonly RecordingCollection <b>recordings</b>	7.16.2.5
ProgrammeCollection		7.16.3
	readonly Integer <b>length</b>	
	Programme <b>item</b> ( Integer index )	
DiscInfo		7.16.4
	readonly Integer <b>free</b>	
	readonly Integer <b>total</b>	

Interface	Attributes and methods	Section
	readonly Integer <b>reserved</b>	

## 4.2 OIPF JavaScript events

Interface	Attributes and methods	
ApplicationLoaded		
	readonly Application <b>application</b>	
ApplicationUnloaded		
	readonly Application application	
LowMemory		
ApplicationActivated		
ApplicationDeactivated		
ApplicationShown		
ApplicationHidden		
ApplicationPrimaryReceiver		
ApplicationNotPrimaryReceiver		
ApplicationTopmost		
ApplicationNotTopmost		
ContentCatalogueEvent		
	readonly Integer <b>action</b>	
ContentActionEvent		
	readonly Integer <b>action</b>	
	readonly Integer <b>result</b>	
	readonly Object <b>item</b>	
	readonly ContentCatalogue <b>catalogue</b>	
DownloadStateChange		
	Download item	
	Integer state	
	Integer reason	
DRMMessageResult		
	String msgID	
	String resultMsg	
	Integer resultCode	
NotificationResult		
	Integer resultMsg	
IMSNotification		
	String responseHeaders	
	String msgText	
	Document msgXML	
RegistrationContextUpdate		
	String user	
	Integer state	
	Integer errorCode	
IncomingMessage		
	String fromURI	
	String msg	
	Integer cid	
ContactStatusChange		
	String remoteURI	
	Integer state	
NewWatcher		
	String remoteURI	
PVREvent		
	readonly Integer <b>state</b>	

Interface	Attributes and methods	
	readonly Recording <b>recording</b>	
<b>MetadataSearchEvent</b>		
	readonly Integer <b>state</b>	
	readonly Integer <b>id</b>	
<b>MetadataUpdateEvent</b>		
	readonly Integer <b>action</b>	
	readonly Integer <b>info</b>	
	readonly Object <b>object</b>	
<b>FullScreenChange</b>		
<b>ChannelChangeError</b>		
	Channel <b>channel</b>	
	Number <b>errorState</b>	
<b>ChannelChangeSucceeded</b>		
	Channel <b>channel</b>	
<b>ChannelScanEvent</b>		
	readonly Integer <b>type</b>	
	readonly Integer <b>progress</b>	
	readonly Integer <b>frequency</b>	
	readonly Integer <b>signalStrength</b>	
	readonly Integer <b>channelNumber</b>	
	readonly Integer <b>channelType</b>	
	readonly Integer <b>channelCount</b>	
	readonly Integer <b>transponderCount</b>	
<b>RecordingEvent</b>		
	Integer <b>state</b>	
	Integer <b>error</b>	
	String <b>recordingId</b>	
<b>ParentalRatingChange</b>		
	String <b>contentID</b>	
	ParentalRating <b>rating</b>	
	String <b>DRMSystemID</b>	
<b>ParentalRatingError</b>		
	String <b>contentID</b>	
	ParentalRating <b>rating</b>	
	String <b>DRMSystemID</b>	
<b>DRMRightsError</b>		
	Integer <b>errorState</b>	
	String <b>contentID</b>	
	String <b>DRMSystemID</b>	
	String <b>rightsIssuerURL</b>	
<b>PlayStateChange</b>		
<b>PlaySpeedChanged</b>		
	Number <b>speed</b>	
<b>PlayPositionChanged</b>		
	Integer <b>position</b>	
<b>ProgrammesChanged</b>		
<b>ReadyToPlay</b>		

## 5. OIPF Capabilities

This section gives an overview of the OIPF capability exchange mechanism.

### 5.1 XML Schema Overview

The following table provides an overview of the elements and attributes supported in the XML-based capability exchange mechanism.

Element Name	Description	Status	Max. instances
profilelist	Root element.	M	
ui_profile		M	Unlimited
name		M	
width		O	
height		O	
colors		O	
hscroll		O	
vscroll		O	
font		O	
type		O	
unicodeRange		O	
defaultSize		O	
navigationkeys		O	
numerickeys		O	
playcontrolkeys		O	
colorkeys		O	
alphakeys		O	
key		O	
pointer		O	
security		O	
protocolNames		O	
download		O	Unlimited
protocolNames		O	
manageDownloads		O	
overlay		O	
overlaylocal		O	
notificationscripts		O	
save-restore		O	
mime-extensions		O	
version		O	
video_broadcast		O	Unlimited
type		M	
transport		O	
nrstreams		O	
scaling		O	
minSize		O	
postList		O	
overlaylocaltuner		O	
recording		O	
ipBroadcast			
manageRecordings			
postList			
parentalcontrol		O	
schemes			
extendedAVControl	Indicate support for the extended A/V control APIs defined in section 7.13.7.	O	

Element Name	Description	Status	Max. instances
clientMetadata	Indicates support for client-side metadata processing APIs defined in section 7.12.	O	
<i>type</i>	supported metadata formats	O	
configurationChanges	Indicates support for modification of OITF configuration and settings APIs defined in section 7.3.	O	
ims	Indicates support for IMS APIs defined in section 7.8.	O	
communication_services	Indicate support for IMS Communication Services APIs defined in section 7.8.2.	O	
drm	Indicates support for DRM content protection system for downloading and streaming content APIs.	O	Unlimited
<i>DRMSystemID</i>	Supported DRM system.	M	
<i>protectionGateways</i>	Supported CSP Gateway types.	O	
<i>remote_diagnostics</i>		O	
<i>pollingNotification</i>		O	
audio_profile		O	Unlimited
<i>name</i>		O	
<i>type</i>		M	
<i>transport</i>		O	
<i>alt</i>		O	
<i>DRMSystemID</i>		O	
video_profile		O	Unlimited
<i>name</i>		O	
<i>type</i>		M	
<i>nrstreams</i>		O	
<i>scaling</i>		O	
<i>aspectratio</i>		O	
<i>transport</i>		O	
<i>alt</i>		O	
<i>DRMSystemID</i>		O	

## 5.2 OIPF Profile Names

This section describes the shortened form of an OIPF capability description.

### 5.2.1 Base UI Profiles

The following base profile names are defined by DAE as shortened forms of an OIPF capability description:

Base UI Profile Name	Default values
OITF_SDEU_UIPROF	<pre> &lt;width&gt;720&lt;/width&gt; &lt;height&gt;576&lt;/height&gt; &lt;colors&gt;high&lt;/colors&gt; &lt;hscroll&gt;&gt;false&lt;/hscroll&gt; &lt;vscroll&gt;&gt;true&lt;/vscroll&gt; &lt;font type="sans-serif" defaultsize="16"&gt;Tiresias&lt;/font&gt; &lt;key&gt;VK_BACK&lt;/key&gt; &lt;navigationkeys&gt;&gt;true&lt;/navigationkeys&gt; &lt;numerickeys&gt;&gt;true&lt;/numerickeys&gt; &lt;pointer&gt;&gt;false&lt;/pointer&gt; &lt;security protocolNames="ssl tls"&gt;&gt;true&lt;/security&gt; &lt;overlay&gt;per-pixel&lt;/overlay&gt; &lt;overlaylocal&gt;per-pixel&lt;/overlaylocal&gt; &lt;overlaylocaltuner&gt;per-pixel&lt;/overlaylocaltuner&gt; </pre>



Base UI Profile Name	Default values
	<pre>&lt;overlayIPbroadcast&gt;per-pixel&lt;/overlayIPbroadcast&gt; &lt;notificationscripts&gt;false&lt;/notificationscripts&gt; &lt;save-restore&gt;false&lt;/save-restore&gt;</pre>
OITF_SD60_UIPROF	<pre>&lt;width&gt;720&lt;/width&gt; &lt;height&gt;480&lt;/height&gt; &lt;colors&gt;high&lt;/colors&gt; &lt;hscroll&gt;false&lt;/hscroll&gt; &lt;vscroll&gt;true&lt;/vscroll&gt; &lt;font type="sans-serif" defaultsizes="16"&gt;Tiresias&lt;/font&gt; &lt;key&gt;VK_BACK&lt;/key&gt; &lt;navigationkeys&gt;true&lt;/navigationkeys&gt; &lt;numerickeys&gt;true&lt;/numerickeys&gt; &lt;pointer&gt;false&lt;/pointer&gt; &lt;security protocolNames="ssl tls"&gt;true&lt;/security&gt; &lt;overlay&gt;per-pixel&lt;/overlay&gt; &lt;overlaylocal&gt;per-pixel&lt;/overlaylocal&gt; &lt;overlaylocaltuner&gt;per-pixel&lt;/overlaylocaltuner&gt; &lt;overlayIPbroadcast&gt;per-pixel&lt;/overlayIPbroadcast&gt; &lt;notificationscripts&gt;false&lt;/notificationscripts&gt; &lt;save-restore&gt;false&lt;/save-restore&gt;</pre>
OITF_SDUS_UIPROF	<pre>&lt;width&gt;640&lt;/width&gt; &lt;height&gt;480&lt;/height&gt; &lt;colors&gt;high&lt;/colors&gt; &lt;hscroll&gt;false&lt;/hscroll&gt; &lt;vscroll&gt;true&lt;/vscroll&gt; &lt;font type="sans-serif" defaultsizes="16"&gt;Tiresias&lt;/font&gt; &lt;key&gt;VK_BACK&lt;/key&gt; &lt;navigationkeys&gt;true&lt;/navigationkeys&gt; &lt;numerickeys&gt;true&lt;/numerickeys&gt; &lt;pointer&gt;false&lt;/pointer&gt; &lt;security protocolNames="ssl tls"&gt;true&lt;/security&gt; &lt;overlay&gt;per-pixel&lt;/overlay&gt; &lt;overlaylocal&gt;per-pixel&lt;/overlaylocal&gt; &lt;overlaylocaltuner&gt;per-pixel&lt;/overlaylocaltuner&gt; &lt;overlayIPbroadcast&gt;per-pixel&lt;/overlayIPbroadcast&gt; &lt;notificationscripts&gt;false&lt;/notificationscripts&gt; &lt;save-restore&gt;false&lt;/save-restore&gt;</pre>
OITF_HD_UIPROF	<pre>&lt;width&gt;1280&lt;/width&gt; &lt;height&gt;720&lt;/height&gt; &lt;colors&gt;high&lt;/colors&gt; &lt;hscroll&gt;false&lt;/hscroll&gt; &lt;vscroll&gt;true&lt;/vscroll&gt; &lt;font type="sans-serif" defaultsizes="24"&gt;Tiresias&lt;/font&gt; &lt;key&gt;VK_BACK&lt;/key&gt; &lt;navigationkeys&gt;true&lt;/navigationkeys&gt; &lt;numerickeys&gt;true&lt;/numerickeys&gt; &lt;pointer&gt;false&lt;/pointer&gt; &lt;security protocolNames="ssl tls"&gt;true&lt;/security&gt; &lt;overlay&gt;per-pixel&lt;/overlay&gt; &lt;overlaylocal&gt;per-pixel&lt;/overlaylocal&gt; &lt;overlaylocaltuner&gt;per-pixel&lt;/overlaylocaltuner&gt; &lt;overlayIPbroadcast&gt;per-pixel&lt;/overlayIPbroadcast&gt; &lt;notificationscripts&gt;false&lt;/notificationscripts&gt; &lt;save-restore&gt;false&lt;/save-restore&gt;</pre>
OITF_FULL_HD_UIPROF	<pre>&lt;width&gt;1920&lt;/width&gt; &lt;height&gt;1080&lt;/height&gt; &lt;colors&gt;high&lt;/colors&gt; &lt;hscroll&gt;false&lt;/hscroll&gt; &lt;vscroll&gt;true&lt;/vscroll&gt; &lt;font type="sans-serif" defaultsizes="24"&gt;Tiresias&lt;/font&gt; &lt;key&gt;VK_BACK&lt;/key&gt; &lt;navigationkeys&gt;true&lt;/navigationkeys&gt; &lt;numerickeys&gt;true&lt;/numerickeys&gt; &lt;pointer&gt;false&lt;/pointer&gt; &lt;security protocolNames="ssl tls"&gt;true&lt;/security&gt;</pre>

Base UI Profile Name	Default values
	<pre>&lt;overlay&gt;per-pixel&lt;/overlay&gt; &lt;overlaylocal&gt;per-pixel&lt;/overlaylocal&gt; &lt;overlaylocaltuner&gt;per-pixel&lt;/overlaylocaltuner&gt; &lt;overlayIPbroadcast&gt;per-pixel&lt;/overlayIPBroadcast&gt; &lt;notificationscripts&gt;&gt;false&lt;/notificationscripts&gt; &lt;save-restore&gt;&gt;false&lt;/save-restore&gt;</pre>

## 5.2.2 Additional UI Profile Name Fragments

The following fragments may be added to any of the base UI profile names listed in section 5.2.1:

UI Profile Name Fragment	Default values
+TRICKMODE	<pre>&lt;key&gt;VK_PLAY&lt;/key&gt;&lt;key&gt;VK_PAUSE&lt;/key&gt; and/or &lt;key&gt;VK_PLAY_PAUSE&lt;/key&gt; &lt;key&gt;VK_STOP&lt;/key&gt; &lt;key&gt;VK_REWIND&lt;/key&gt; &lt;key&gt;VK_FAST_FWD&lt;/key&gt;</pre>
+AVCAD	<pre>&lt;video_profile type="application/vnd.oipf.ContentAccessStreaming+xml"/&gt;</pre>
+DL	<pre>&lt;download protocolNames="http"&gt;true&lt;/download&gt;</pre>
+IPTV_SDS	<pre>&lt;video_broadcast type="ID_IPTV_SDS" scaling="arbitrary"&gt;true&lt;/video_broadcast&gt;</pre>
+IPTV_URI	<pre>&lt;video_broadcast type="ID_IPTV_URI" scaling="arbitrary"&gt;true&lt;/video_broadcast&gt;</pre>
+ANA	<pre>&lt;video_broadcast type="ID_ANALOG" scaling="quarterscreen"&gt;true&lt;/video_broadcast&gt;</pre>
+DVB_C	<pre>&lt;video_broadcast type="ID_DVB_C ID_DVB_SI_DIRECT" scaling="quarterscreen"&gt;true&lt;/video_broadcast&gt;</pre>
+DVB_T	<pre>&lt;video_broadcast type="ID_DVB_T ID_DVB_SI_DIRECT" scaling="quarterscreen"&gt;true&lt;/video_broadcast&gt;</pre>
+DVB_S	<pre>&lt;video_broadcast type="ID_DVB_S ID_DVB_SI_DIRECT" scaling="quarterscreen"&gt;true&lt;/video_broadcast&gt;</pre>
+DVB_C2	<pre>&lt;video_broadcast type="ID_DVB_C2 ID_DVB_SI_DIRECT" scaling="quarterscreen"&gt;true&lt;/video_broadcast&gt;</pre>
+DVB_T2	<pre>&lt;video_broadcast type="ID_DVB_T2 ID_DVB_SI_DIRECT" scaling="quarterscreen"&gt;true&lt;/video_broadcast&gt;</pre>
+DVB_S2	<pre>&lt;video_broadcast type="ID_DVB_S2 ID_DVB_SI_DIRECT" scaling="quarterscreen"&gt;true&lt;/video_broadcast&gt;</pre>
+ISDB_C	<pre>&lt;video_broadcast type="ID_ISDB_C" scaling="quarterscreen"&gt;true&lt;/video_broadcast&gt;</pre>
+ISDB_T	<pre>&lt;video_broadcast type="ID_ISDB_T" scaling="quarterscreen"&gt;true&lt;/video_broadcast&gt;</pre>
+ISDB_S	<pre>&lt;video_broadcast type="ID_ISDB_S" scaling="quarterscreen"&gt;true&lt;/video_broadcast&gt;</pre>
+META_BCG	<pre>&lt;clientMetadata type="bcg"&gt;true&lt;/clientMetadata &gt;</pre>
+META_EIT	<pre>&lt;clientMetadata type="eit-pf"&gt;true&lt;/clientMetadata &gt;</pre>
+META_SI	<pre>&lt;clientMetadata type="dvb-si"&gt;true&lt;/clientMetadata &gt;</pre>
+ITV_KEYS	<pre>&lt;key&gt;VK_HOME&lt;/key&gt; &lt;key&gt;VK_MENU&lt;/key&gt; &lt;key&gt;VK_CANCEL&lt;/key&gt; &lt;key&gt;VK_SUBTITLES&lt;/key&gt; &lt;colorkeys&gt;true&lt;/colorkeys&gt;</pre>
+CONTROLLED	<pre>&lt;key&gt;VK_CHANNEL_UP&lt;/key&gt; &lt;key&gt;VK_CHANNEL_DOWN&lt;/key&gt; &lt;key&gt;VK_VOLUME_UP&lt;/key&gt; &lt;key&gt;VK_VOLUME_DOWN&lt;/key&gt; &lt;key&gt;VK_MUTE&lt;/key&gt;</pre>

UI Profile Name Fragment	Default values
	<pre>&lt;configurationChanges&gt;true&lt;/configurationChanges&gt; &lt;extendedAVControl&gt;true&lt;/extendedAVControl&gt;</pre> <p>When relevant (i.e. when coupled with +DL, resp +PVR):</p> <pre>&lt;download manageDownloads="sameDomain"&gt;true&lt;/download&gt; &lt;recording manageRecordings="sameDomain"&gt;true&lt;/ recording &gt; &lt;remote_diagnostics&gt;true&lt;/remote_diagnostics&gt;</pre>
+PVR	<pre>&lt;key&gt;VK_RECORD&lt;/key&gt; &lt;recording&gt;true&lt;/recording&gt;</pre>
+DRM	<pre>&lt;drm DRMSystemID="urn:dvb:casystemid:19188"&gt;TS_BBTS TTS_BBTS MP4_PDCF&lt;/drm&gt;</pre>
+IMS	<pre>&lt;ims&gt;true&lt;/ims&gt;</pre>
+SVG	<pre>&lt;mime-extensions&gt;image/svg+xml&lt;/mime-extensions&gt;</pre>
+POINTER	<pre>&lt;pointer&gt;true&lt;/pointer&gt;</pre>
+POLLNOTIF	<pre>&lt;pollingNotifications&gt;true&lt;/pollingNotifications&gt;</pre>