

X3D Specification Node Coverage			X3D Node Inventory Comparison			X3D version 3.3, updated 4 June 2015			http://www.web3d.org/specifications/X3dNodeInventoryComparison.xlsx http://www.web3d.org/specifications/X3dNodeInventoryComparison.pdf			Worksheet conversion support: X3dToX3dvClassicVrmEncoding.xslt		
X3D Abstract Specification Node Index	X3D Schema validation	X3D DTD validation	X3D Tooltips	X3D-Edit	X3DOM	VRML97 Specification	X3dToVrm97.xslt	X3D Schematron validation						
Anchor	Anchor	Anchor	Anchor	ANCHOR	Anchor	(Grey background = forward compatibility for .wrl VRML97)	Anchor	Anchor	Anchor	Anchor				
Appearance	Appearance	Appearance	Appearance	APPEARANCE	Appearance		Appearance	Appearance	Appearance	Appearance				
Arc2D	Arc2D	Arc2D	Arc2D	ARC2D	Arc2D	(Prototype available)	Arc2D	Arc2D						
ArcClose2D	ArcClose2D	ArcClose2D	ArcClose2D	ARCClose2D	ArcClose2D	(Prototype available)	ArcClose2D	ArcClose2D						
AudioClip	AudioClip	AudioClip	AudioClip	AUDIOCLIP	AudioClip	AudioClip	AudioClip	AudioClip	AudioClip	AudioClip				
Background	Background	Background	Background	BACKGROUND	Background	Background	Background	Background	Background	Background				
BallJoint	BallJoint	BallJoint	BallJoint	BALLJOINT	BallJoint				BallJoint	BallJoint				
Billboard	Billboard	Billboard	Billboard	BILLBOARD	Billboard	Billboard	Billboard	Billboard	Billboard	Billboard				
BlendedVolumeStyle	BlendedVolumeStyle	BlendedVolumeStyle	BlendedVolumeStyle	BLENDEDVOLUMESTYLE	BlendedVolumeStyle				BlendedVolumeStyle	BlendedVolumeStyle				
BooleanFilter	BooleanFilter	BooleanFilter	BooleanFilter	BOOLEANFILTER		(Prototype available)	BooleanFilter	BooleanFilter	BooleanFilter	BooleanFilter				
BooleanSequencer	BooleanSequencer	BooleanSequencer	BooleanSequencer	BOOLEANSEQUENCER		(Prototype available)	BooleanSequencer	BooleanSequencer	BooleanSequencer	BooleanSequencer				
BooleanToggle	BooleanToggle	BooleanToggle	BooleanToggle	BOOLEANTOGGLE		(Prototype available)	BooleanToggle	BooleanToggle	BooleanToggle	BooleanToggle				
BooleanTrigger	BooleanTrigger	BooleanTrigger	BooleanTrigger	BOOLEANTRIGGER		(Prototype available)	BooleanTrigger	BooleanTrigger	BooleanTrigger	BooleanTrigger				
BoundaryEnhancementVolumeStyle	BoundaryEnhancementVolumeStyle	BoundaryEnhancementVolumeStyle	BoundaryEnhancementVolumeStyle	BOUNDARYENHANCEMENTVOLUMESTYLE	BoundaryEnhancementVolumeStyle				BoundaryEnhancementVolumeStyle	BoundaryEnhancementVolumeStyle				
BoundedPhysicsModel	BoundedPhysicsModel	BoundedPhysicsModel	BoundedPhysicsModel											
Box	Box	Box	Box	BOX	Box	Box	Box	Box	Box	Box				
CADAssembly	CADAssembly	CADAssembly	CADAssembly	CADASSEMBLY	CADAssembly	(Prototype available)	CADAssembly	CADAssembly	CADAssembly	CADAssembly				
CADFace	CADFace	CADFace	CADFace	CADFACE	CADFace	(Prototype available)	CADFace	CADFace	CADFace	CADFace				
CADLayer	CADLayer	CADLayer	CADLayer	CADLAYER	CADLayer	(Prototype available)	CADLayer	CADLayer	CADLayer	CADLayer				
CADPart	CADPart	CADPart	CADPart	CADPART	CADPart	(Prototype available)	CADPart	CADPart	CADPart	CADPart				
CartoonVolumeStyle	CartoonVolumeStyle	CartoonVolumeStyle	CartoonVolumeStyle	CARTOONVOLUMESTYLE	CartoonVolumeStyle				CartoonVolumeStyle	CartoonVolumeStyle				
Circle2D	Circle2D	Circle2D	Circle2D	CIRCLE2D	Circle2D	(Prototype available)	Circle2D							
ClipPlane	ClipPlane	ClipPlane	ClipPlane	CLIPPLANE	ClipPlane				ClipPlane	ClipPlane				
CollidableOffset	CollidableOffset	CollidableOffset	CollidableOffset	COLLIDABLEOFFSET										
CollidableShape	CollidableShape	CollidableShape	CollidableShape	COLLIDABLESHAPE	CollidableShape									
Collision	Collision	Collision	Collision	COLLISION	Collision	Collision	Collision	Collision	Collision	Collision				
CollisionCollection	CollisionCollection	CollisionCollection	CollisionCollection	COLLISIONCOLLECTION	CollisionCollection									
CollisionSensor	CollisionSensor	CollisionSensor	CollisionSensor	COLLISIONSENSOR	CollisionSensor									
CollisionSpace	CollisionSpace	CollisionSpace	CollisionSpace	COLLISIONSPACE										
Color	Color	Color	Color	COLOR	Color	Color	Color	Color	Color	Color				
ColorChaser	ColorChaser	ColorChaser	ColorChaser		ColorChaser				ColorChaser	ColorChaser				
ColorDamper	ColorDamper	ColorDamper	ColorDamper	COLORDAMPER	ColorDamper				ColorDamper	ColorDamper				
ColorInterpolator	ColorInterpolator	ColorInterpolator	ColorInterpolator	COLORINTERPOLATOR	ColorInterpolator	ColorInterpolator	ColorInterpolator	ColorInterpolator	ColorInterpolator	ColorInterpolator				
ColorRGBA	ColorRGBA	ColorRGBA	ColorRGBA	COLORRGBA	ColorRGBA	(Prototype available)	ColorRGBA	ColorRGBA	ColorRGBA	ColorRGBA				
COMPONENT	component	component	component	COMPONENT	component				component	component				
ComposedCubeMapTexture	ComposedCubeMapTexture	ComposedCubeMapTexture	ComposedCubeMapTexture		ComposedCubeMapTexture									
ComposedShader	ComposedShader	ComposedShader	ComposedShader	COMPOSEDShader	ComposedShader				ComposedShader	ComposedShader				
ComposedTexture3D	ComposedTexture3D	ComposedTexture3D	ComposedTexture3D	COMPOSEDTEXTURE3D	ComposedTexture3D									
ComposedVolumeStyle	ComposedVolumeStyle	ComposedVolumeStyle	ComposedVolumeStyle	COMPOSEDVOLUMESTYLE	ComposedVolumeStyle				ComposedVolumeStyle	ComposedVolumeStyle				
Cone	Cone	Cone	Cone	CONE	Cone	Cone	Cone	Cone	Cone	Cone				
ConeEmitter	ConeEmitter	ConeEmitter	ConeEmitter											
connect	connect	connect	connect	CONNECT					connect	connect				
Contact	Contact	Contact	Contact	CONTACT										
Contour2D	Contour2D	Contour2D	Contour2D	CONTOUR2D		(Prototype available)	Contour2D							
ContourPolyline2D	ContourPolyline2D	ContourPolyline2D	ContourPolyline2D	CONTOURPOLYLINE2D		(Prototype available)	ContourPolyline2D		ContourPolyline2D	ContourPolyline2D				
Coordinate	Coordinate	Coordinate	Coordinate	COORDINATE	Coordinate	Coordinate	Coordinate	Coordinate	Coordinate	Coordinate				
CoordinateChaser	CoordinateChaser	CoordinateChaser	CoordinateChaser						CoordinateChaser	CoordinateChaser				
CoordinateDamper	CoordinateDamper	CoordinateDamper	CoordinateDamper	COORDINATEDAMPER	CoordinateDamper				CoordinateDamper	CoordinateDamper				
CoordinateDouble	CoordinateDouble	CoordinateDouble	CoordinateDouble	COORDINATE(Double)		(Prototype available)	CoordinateDouble							
CoordinateInterpolator	CoordinateInterpolator	CoordinateInterpolator	CoordinateInterpolator	COORDINATEINTERPOLATOR	CoordinateInterpolator	CoordinateInterpolator	CoordinateInterpolator	CoordinateInterpolator	CoordinateInterpolator	CoordinateInterpolator				
CoordinateInterpolator2D	CoordinateInterpolator2D	CoordinateInterpolator2D	CoordinateInterpolator2D	COORDINATEINTERPOLATOR2D		(Prototype available)	CoordinateInterpolator2D		CoordinateInterpolator2D	CoordinateInterpolator2D				
Cylinder	Cylinder	Cylinder	Cylinder	CYLINDER	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder				
CylinderSensor	CylinderSensor	CylinderSensor	CylinderSensor	CYLINDERSENSOR	CylinderSensor	CylinderSensor	CylinderSensor	CylinderSensor	CylinderSensor	CylinderSensor				
DirectionalLight	DirectionalLight	DirectionalLight	DirectionalLight	DIRECTIONALLIGHT	DirectionalLight	DirectionalLight	DirectionalLight	DirectionalLight	DirectionalLight	DirectionalLight				
DISntityManager	DISntityManager	DISntityManager	DISntityManager	DISENTITYMANAGER					DISntityManager	DISntityManager				
DISntityTypeMapping	DISntityTypeMapping	DISntityTypeMapping	DISntityTypeMapping	DISENTITYTYPEMAPPING					DISntityTypeMapping	DISntityTypeMapping				
Disk2D	Disk2D	Disk2D	Disk2D	DISK2D	Disk2D	(Prototype available)	Disk2D							
DoubleAxisHingeJoint	DoubleAxisHingeJoint	DoubleAxisHingeJoint	DoubleAxisHingeJoint	DOUBLEAXISHINGEJOINT	DoubleAxisHingeJoint									
EaseInEaseOut	EaseInEaseOut	EaseInEaseOut	EaseInEaseOut											
EdgeEnhancementVolumeStyle	EdgeEnhancementVolumeStyle	EdgeEnhancementVolumeStyle	EdgeEnhancementVolumeStyle	EDGEENHANCEMENTVOLUMESTYLE	EdgeEnhancementVolumeStyle	EdgeEnhancementVolumeStyle			EdgeEnhancementVolumeStyle	EdgeEnhancementVolumeStyle				
ElevationGrid	ElevationGrid	ElevationGrid	ElevationGrid	ELEVATIONGRID	ElevationGrid	ElevationGrid	ElevationGrid	ElevationGrid	ElevationGrid	ElevationGrid				
EspduTransform	EspduTransform	EspduTransform	EspduTransform	ESPDUTRANSFORM		(Java Prototype available)	EspduTransform		EspduTransform	EspduTransform				
ExplosionEmitter	ExplosionEmitter	ExplosionEmitter	ExplosionEmitter											
EXPORT	EXPORT	EXPORT	EXPORT	EXPORT										
ExternProtoDeclare	ExternProtoDeclare	ExternProtoDeclare	ExternProtoDeclare	EXTERNPROTODECLARE					ExternProtoDeclare	ExternProtoDeclare				
Extrusion	Extrusion	Extrusion	Extrusion	EXTRUSION	Extrusion	Extrusion	Extrusion	Extrusion	Extrusion	Extrusion				
field	field	field	field	FIELD	field				field	field				
fieldValue	fieldValue	fieldValue	fieldValue	FIELDVALUE					fieldValue	fieldValue				
FILLProperties	FILLProperties	FILLProperties	FILLProperties	FILLPROPERTIES					FILLProperties	FILLProperties				
FloatVertexAttribute	FloatVertexAttribute	FloatVertexAttribute	FloatVertexAttribute	FLOATVERTEXATTRIBUTE	FloatVertexAttribute									
Fog	Fog	Fog	Fog	FOG	Fog	Fog	Fog	Fog	Fog	Fog				
FogCoordinate	FogCoordinate	FogCoordinate	FogCoordinate						FogCoordinate	FogCoordinate				
FontStyle	FontStyle	FontStyle	FontStyle	FONTSTYLE	FontStyle	FontStyle	FontStyle	FontStyle	FontStyle	FontStyle				
ForcePhysicsModel	ForcePhysicsModel	ForcePhysicsModel	ForcePhysicsModel											
GeneratedCubeMapTexture	GeneratedCubeMapTexture	GeneratedCubeMapTexture	GeneratedCubeMapTexture		GeneratedCubeMapTexture									
GeoCoordinate	GeoCoordinate	GeoCoordinate	GeoCoordinate	GEOCOORDINATE	GeoCoordinate	(Prototype available)	GeoCoordinate	GeoCoordinate	GeoCoordinate	GeoCoordinate				
GeoElevationGrid	GeoElevationGrid	GeoElevationGrid	GeoElevationGrid	GEOELEVATIONGRID	GeoElevationGrid	(Prototype available)	GeoElevationGrid	GeoElevationGrid	GeoElevationGrid	GeoElevationGrid				
GeoLocation	GeoLocation	GeoLocation	GeoLocation	GEOLOCATION	GeoLocation	(Prototype available)	GeoLocation	GeoLocation	GeoLocation	GeoLocation				
GeoLOD	GeoLOD	GeoLOD	GeoLOD	GEOLOD	GeoLOD	(Prototype available)	GeoLOD	GeoLOD	GeoLOD	GeoLOD				
GeoMetadata	GeoMetadata	GeoMetadata	GeoMetadata	GEOMETADATA	GeoMetadata	(Prototype available)	GeoMetadata	GeoMetadata	GeoMetadata	GeoMetadata				
GeoOrigin	GeoOrigin	GeoOrigin	GeoOrigin	GEOORIGIN	GeoOrigin	(Prototype available)	GeoOrigin	GeoOrigin	GeoOrigin	GeoOrigin				
GeoPositionInterpolator	GeoPositionInterpolator	GeoPositionInterpolator	GeoPositionInterpolator	GEOPOSITIONINTERPOLATOR	GeoPositionInterpolator	(Prototype available)	GeoPositionInterpolator	GeoPositionInterpolator	GeoPositionInterpolator	GeoPositionInterpolator				
GeoProximitySensor	GeoProximitySensor	GeoProximitySensor	GeoProximitySensor	GEOPROXIMITYSENSOR					GeoProximitySensor	GeoProximitySensor				
GeoTouchSensor	GeoTouchSensor	GeoTouchSensor	GeoTouchSensor	GEO TOUCHSENSOR		(Prototype available)	GeoTouchSensor	GeoTouchSensor	GeoTouchSensor	GeoTouchSensor				
GeoTransform	GeoTransform	GeoTransform	GeoTransform	GEO TRANSFORM	GeoTransform				GeoTransform	GeoTransform				
GeoViewpoint	GeoViewpoint	GeoViewpoint	GeoViewpoint	GEOVIEWPOINT	GeoViewpoint	(Prototype available)	GeoViewpoint	GeoViewpoint	GeoViewpoint	GeoViewpoint				
Group	Group	Group	Group	GROUP	Group	Group	Group	Group	Group	Group				
HAnimDisplacer	HAnimDisplacer	HAnimDisplacer	HAnimDisplacer	HANIMDISPLACER	HAnimDisplacer	(Prototype available)	HAnimDisplacer		HAnimDisplacer	HAnimDisplacer				

HAnimHumanoid	HAnimHumanoid	HAnimHumanoid	HAnimHumanoid	HANIMHUMANOID	HAnimHumanoid	(Prototype available)	HAnimHumanoid	HAnimHumanoid
HAnimJoint	HAnimJoint	HAnimJoint	HAnimJoint	HANIMJOINT	HAnimJoint	(Prototype available)	HAnimJoint	HAnimJoint
HAnimSegment	HAnimSegment	HAnimSegment	HAnimSegment	HANIMSEGMENT	HAnimSegment	(Prototype available)	HAnimSegment	HAnimSegment
HAnimSite	HAnimSite	HAnimSite	HAnimSite	HANIMSITE	HAnimSite	(Prototype available)	HAnimSite	HAnimSite
head	head	head	head	HEAD				head
ImageCubeMapTexture	ImageCubeMapTexture	ImageCubeMapTexture	ImageCubeMapTexture					
ImageTexture	ImageTexture	ImageTexture	ImageTexture	IMAGETEXTURE	ImageTexture	ImageTexture	ImageTexture	ImageTexture
ImageTexture3D	ImageTexture3D	ImageTexture3D	ImageTexture3D	IMAGETEXTURE3D	ImageTexture3D			
IMPORT	IMPORT	IMPORT	IMPORT	IMPORT				
IndexedFaceSet	IndexedFaceSet	IndexedFaceSet	IndexedFaceSet	INDEXEDFACESET	IndexedFaceSet	IndexedFaceSet	IndexedFaceSet	IndexedFaceSet
IndexedLineSet	IndexedLineSet	IndexedLineSet	IndexedLineSet	INDEXEDLINESET	IndexedLineSet		IndexedLineSet	IndexedLineSet
IndexedQuadSet	IndexedQuadSet	IndexedQuadSet	IndexedQuadSet	INDEXEDQUADSET	IndexedQuadSet	(Prototype available)	IndexedQuadSet	IndexedQuadSet
IndexedTriangleFanSet	IndexedTriangleFanSet	IndexedTriangleFanSet	IndexedTriangleFanSet	INDEXEDTRIANGLEFANSET		(Prototype available)	IndexedTriangleFanSet	IndexedTriangleFanSet
IndexedTriangleSet	IndexedTriangleSet	IndexedTriangleSet	IndexedTriangleSet	INDEXEDTRIANGLESET	IndexedTriangleSet	(Prototype available)	IndexedTriangleSet	IndexedTriangleSet
IndexedTriangleStripSet	IndexedTriangleStripSet	IndexedTriangleStripSet	IndexedTriangleStripSet	INDEXEDTRIANGLESTRIPSET	IndexedTriangleStripSet	(Prototype available)	IndexedTriangleStripSet	IndexedTriangleStripSet
Inline	Inline	Inline	Inline	INLINE	Inline	Inline	Inline	Inline
IntegerSequencer	IntegerSequencer	IntegerSequencer	IntegerSequencer	INTEGERSEQUENCER		(Prototype available)	IntegerSequencer	IntegerSequencer
IntegerTrigger	IntegerTrigger	IntegerTrigger	IntegerTrigger	INTEGERTRIGGER		(Prototype available)	IntegerTrigger	IntegerTrigger
IS	IS	IS	IS	IS				IS
IsoSurfaceVolumeData	IsoSurfaceVolumeData	IsoSurfaceVolumeData	IsoSurfaceVolumeData	ISOSURFACEVOLUMEDATA	IsoSurfaceVolumeData			IsoSurfaceVolumeData
KeySensor	KeySensor	KeySensor	KeySensor	KEYSENSOR				
Layer	Layer	Layer	Layer					
LayerSet	LayerSet	LayerSet	LayerSet					
Layout	Layout	Layout	Layout					
LayoutGroup	LayoutGroup	LayoutGroup	LayoutGroup					
LayoutLayer	LayoutLayer	LayoutLayer	LayoutLayer					
LinePickSensor	LinePickSensor	LinePickSensor	LinePickSensor					
LineProperties	LineProperties	LineProperties	LineProperties	LINEPROPERTIES	LineProperties			LineProperties
LineSet	LineSet	LineSet	LineSet	LINESET	LineSet	(Prototype available)	LineSet	LineSet
LoadSensor	LoadSensor	LoadSensor	LoadSensor	LOADSENSOR		(Prototype available)	LoadSensor	LoadSensor
LocalFog	LocalFog	LocalFog	LocalFog	LOCALFOG				LocalFog
LOD	LOD	LOD	LOD	LOD	LOD	LOD	LOD	LOD
Material	Material	Material	Material	MATERIAL	Material	Material	Material	Material
Matrix3VertexAttribute	Matrix3VertexAttribute	Matrix3VertexAttribute	Matrix3VertexAttribute	MATRIX3VERTEXATTRIBUTE				Matrix3VertexAttribute
Matrix4VertexAttribute	Matrix4VertexAttribute	Matrix4VertexAttribute	Matrix4VertexAttribute	MATRIX4VERTEXATTRIBUTE				Matrix4VertexAttribute
meta	meta	meta	meta	META	meta	(Prototype available)	meta	meta
MetadataBoolean	MetadataBoolean	MetadataBoolean	MetadataBoolean	METADATABOOLEAN	MetadataBoolean	(Prototype available)	MetadataBoolean	MetadataBoolean
MetadataDouble	MetadataDouble	MetadataDouble	MetadataDouble	METADATADOUBLE	MetadataDouble	(Prototype available)	MetadataDouble	MetadataDouble
MetadataFloat	MetadataFloat	MetadataFloat	MetadataFloat	METADATAFLOAT	MetadataFloat	(Prototype available)	MetadataFloat	MetadataFloat
MetadataInteger	MetadataInteger	MetadataInteger	MetadataInteger	METADATAINTEGER	MetadataInteger	(Prototype available)	MetadataInteger	MetadataInteger
MetadataSet	MetadataSet	MetadataSet	MetadataSet	METADATASET	MetadataSet	(Prototype available)	MetadataSet	MetadataSet
MetadataString	MetadataString	MetadataString	MetadataString	METADATASTRING	MetadataString	(Prototype available)	MetadataString	MetadataString
MotorJoint	MotorJoint	MotorJoint	MotorJoint	MOTORJOINT	MotorJoint			
MovieTexture	MovieTexture	MovieTexture	MovieTexture	MOVIETEXTURE	MovieTexture	MovieTexture		MovieTexture
MultiTexture	MultiTexture	MultiTexture	MultiTexture	MULTITEXTURE				MultiTexture
MultiTextureCoordinate	MultiTextureCoordinate	MultiTextureCoordinate	MultiTextureCoordinate	MULTITEXTURECOORDINATE	MultiTextureCoordinate			
MultiTextureTransform	MultiTextureTransform	MultiTextureTransform	MultiTextureTransform	MULTITEXTURETRANSFORM				
NavigationInfo	NavigationInfo	NavigationInfo	NavigationInfo	NAVIGATIONINFO	NavigationInfo	NavigationInfo	NavigationInfo	NavigationInfo
Normal	Normal	Normal	Normal	NORMAL	Normal	Normal	Normal	Normal
NormalInterpolator	NormalInterpolator	NormalInterpolator	NormalInterpolator	NORMALINTERPOLATOR	NormalInterpolator	NormalInterpolator	NormalInterpolator	NormalInterpolator
NurbsCurve	NurbsCurve	NurbsCurve	NurbsCurve	NURBSCURVE		(Java Prototype available)	NurbsCurve	NurbsCurve
NurbsCurve2D	NurbsCurve2D	NurbsCurve2D	NurbsCurve2D	NURBSCURVE2D		(Java Prototype available)	NurbsCurve2D	
NurbsOrientationInterpolator	NurbsOrientationInterpolator	NurbsOrientationInterpolator	NurbsOrientationInterpolator	NURBSORIENTATIONINTERPOLATOR		(Java Prototype available)	NurbsOrientationInterpolator	
NurbsPatchSurface	NurbsPatchSurface	NurbsPatchSurface	NurbsPatchSurface	NURBSPATCHSURFACE		(Java Prototype available)	NurbsPatchSurface	NurbsPatchSurface
NurbsPositionInterpolator	NurbsPositionInterpolator	NurbsPositionInterpolator	NurbsPositionInterpolator	NURBSPOSITIONINTERPOLATOR		(Java Prototype available)	NurbsPositionInterpolator	
NurbsSet	NurbsSet	NurbsSet	NurbsSet	NURBSSET		(Java Prototype available)	NurbsSet	
NurbsSurfaceInterpolator	NurbsSurfaceInterpolator	NurbsSurfaceInterpolator	NurbsSurfaceInterpolator	NURBSSURFACEINTERPOLATOR		(Java Prototype available)	NurbsSurfaceInterpolator	
NurbsSweptSurface	NurbsSweptSurface	NurbsSweptSurface	NurbsSweptSurface	NURBSWEPTSURFACE		(Java Prototype available)	NurbsSweptSurface	
NurbsSwungSurface	NurbsSwungSurface	NurbsSwungSurface	NurbsSwungSurface	NURBSSWUNGSURFACE		(Java Prototype available)	NurbsSwungSurface	
NurbsTextureCoordinate	NurbsTextureCoordinate	NurbsTextureCoordinate	NurbsTextureCoordinate	NURBSTEXTURECOORDINATE		(Java Prototype available)	NurbsTextureCoordinate	
NurbsTrimmedSurface	NurbsTrimmedSurface	NurbsTrimmedSurface	NurbsTrimmedSurface	NURBSTRIMMEDSURFACE		(Java Prototype available)	NurbsTrimmedSurface	NurbsTrimmedSurface
OpacityMapVolumeStyle	OpacityMapVolumeStyle	OpacityMapVolumeStyle	OpacityMapVolumeStyle	OPACITYMAPVOLUMESTYLE	OpacityMapVolumeStyle			OpacityMapVolumeStyle
OrientationChaser	OrientationChaser	OrientationChaser	OrientationChaser	ORIENTATIONCHASER	OrientationChaser			
OrientationDamper	OrientationDamper	OrientationDamper	OrientationDamper	ORIENTATIONDAMPER	OrientationDamper			OrientationDamper
OrientationInterpolator	OrientationInterpolator	OrientationInterpolator	OrientationInterpolator	ORIENTATIONINTERPOLATOR	OrientationInterpolator	OrientationInterpolator	OrientationInterpolator	
OrthoViewpoint	OrthoViewpoint	OrthoViewpoint	OrthoViewpoint	ORTHOVIEWPOINT	OrthoViewpoint			OrthoViewpoint
PackagedShader	PackagedShader	PackagedShader	PackagedShader	PACKAGEDSHADER				
ParticleSystem	ParticleSystem	ParticleSystem	ParticleSystem					ParticleSystem
PickableGroup	PickableGroup	PickableGroup	PickableGroup					
PixelTexture	PixelTexture	PixelTexture	PixelTexture	PIXELTEXTURE	PixelTexture	PixelTexture	PixelTexture	PixelTexture
PixelTexture3D	PixelTexture3D	PixelTexture3D	PixelTexture3D	PIXELTEXTURE3D	PixelTexture3D			
PlaneSensor	PlaneSensor	PlaneSensor	PlaneSensor	PLANESENSOR	PlaneSensor	PlaneSensor	PlaneSensor	PlaneSensor
PointEmitter	PointEmitter	PointEmitter	PointEmitter					
PointLight	PointLight	PointLight	PointLight	POINTLIGHT	PointLight	PointLight	PointLight	PointLight
PointPickSensor	PointPickSensor	PointPickSensor	PointPickSensor					
PointSet	PointSet	PointSet	PointSet	POINTSET	PointSet	PointSet	PointSet	PointSet
Polyline2D	Polyline2D	Polyline2D	Polyline2D	POLYLINE2D	Polyline2D	(Prototype available)	Polyline2D	
PolylineEmitter	PolylineEmitter	PolylineEmitter	PolylineEmitter					
Polypoint2D	Polypoint2D	Polypoint2D	Polypoint2D	POLYPOINT2D	Polypoint2D	(Prototype available)	Polypoint2D	
PositionChaser	PositionChaser	PositionChaser	PositionChaser	POSITIONCHASER	PositionChaser			
PositionChaser2D	PositionChaser2D	PositionChaser2D	PositionChaser2D	POSITIONCHASER2D	PositionChaser2D			
PositionDamper	PositionDamper	PositionDamper	PositionDamper	POSITIONDAMPER	PositionDamper			
PositionDamper2D	PositionDamper2D	PositionDamper2D	PositionDamper2D	POSITIONDAMPER2D	PositionDamper2D			
PositionInterpolator	PositionInterpolator	PositionInterpolator	PositionInterpolator	POSITIONINTERPOLATOR	PositionInterpolator	PositionInterpolator	PositionInterpolator	PositionInterpolator
PositionInterpolator2D	PositionInterpolator2D	PositionInterpolator2D	PositionInterpolator2D	POSITIONINTERPOLATOR2D		(Prototype available)	PositionInterpolator2D	
PrimitivePickSensor	PrimitivePickSensor	PrimitivePickSensor	PrimitivePickSensor					
ProgramShader	ProgramShader	ProgramShader	ProgramShader	PROGRAMSHADER				ProgramShader
ProjectionVolumeStyle	ProjectionVolumeStyle	ProjectionVolumeStyle	ProjectionVolumeStyle	PROJECTIONVOLUMESTYLE	ProjectionVolumeStyle			ProjectionVolumeStyle
-		ProtoBody	ProtoBody	PROTODODY				ProtoBody
ProtoDeclare	ProtoDeclare	ProtoDeclare	ProtoDeclare	PROTODECLARE				ProtoDeclare
ProtoInstance	ProtoInstance	ProtoInstance	ProtoInstance	PROTOINSTANCE				ProtoInstance
-	ProtoInterface	ProtoInterface	ProtoInterface	PROTOINTERFACE				ProtoInterface

ProximitySensor	ProximitySensor	ProximitySensor	ProximitySensor	PROXIMITYSENSOR		ProximitySensor	ProximitySensor	ProximitySensor
QuadSet	QuadSet	QuadSet	QuadSet	QUADSET	QuadSet	(Prototype available)	QuadSet	QuadSet
ReceiverPdu	ReceiverPdu	ReceiverPdu	ReceiverPdu	RECEIVERPDU		(Java Prototype available)	ReceiverPdu	ReceiverPdu
Rectangle2D	Rectangle2D	Rectangle2D	Rectangle2D	RECTANGLE2D	Rectangle2D	(Prototype available)	Rectangle2D	
RigidBody			RigidBody	RIGIDBODY	RigidBody			RigidBody
RigidBodyCollection	RigidBodyCollection	RigidBodyCollection	RigidBodyCollection	RIGIDBODYCOLLECTION	RigidBodyCollection			
ROUTE	ROUTE	ROUTE	ROUTE	ROUTE	ROUTE			ROUTE
ScalarChaser	ScalarChaser	ScalarChaser	ScalarChaser	SCALARCHASER	ScalarChaser			
ScalarDamper	ScalarDamper	ScalarDamper	ScalarDamper		ScalarDamper			
ScalarInterpolator	ScalarInterpolator	ScalarInterpolator	ScalarInterpolator	SCALARINTERPOLATOR	ScalarInterpolator	ScalarInterpolator	ScalarInterpolator	ScalarInterpolator
	Scene	Scene	Scene	SCENE	Scene			Scene
ScreenFontStyle			ScreenFontStyle					
ScreenGroup	ScreenGroup	ScreenGroup	ScreenGroup					
Script	Script	Script	Script	SCRIPT		Script	Script	Script
SegmentedVolumeData	SegmentedVolumeData	SegmentedVolumeData	SegmentedVolumeData	SEGMENTEDVOLUMEDATA	SegmentedVolumeData			SegmentedVolumeData
ShadedVolumeStyle	ShadedVolumeStyle	ShadedVolumeStyle	ShadedVolumeStyle	SHADEDVOLUMESTYLE	ShadedVolumeStyle			ShadedVolumeStyle
ShaderPart	ShaderPart	ShaderPart	ShaderPart	SHADERPART	ShaderPart			ShaderPart
ShaderProgram	ShaderProgram	ShaderProgram	ShaderProgram	SHADERPROGRAM				ShaderProgram
Shape	Shape	Shape	Shape	SHAPE	Shape			Shape
SignalPdu	SignalPdu	SignalPdu	SignalPdu	SIGNALPDU		Shape	Shape	SignalPdu
SilhouetteEnhancementVolumeStyle	SilhouetteEnhancementVolumeStyle	SilhouetteEnhancementVolumeStyle	SilhouetteEnhancementVolumeStyle	SILHOUETTEENHANCEMENTVOLUMESTYLE	SilhouetteEnhancementVolumeStyle	(Java Prototype available)	SignalPdu	SilhouetteEnhancementVolumeStyle
SingleAxisHingeJoint	SingleAxisHingeJoint	SingleAxisHingeJoint	SingleAxisHingeJoint	SINGLEAXISHINGEJOINT	SingleAxisHingeJoint			
SliderJoint	SliderJoint	SliderJoint	SliderJoint	SLIDERJOINT	SliderJoint			
Sound	Sound	Sound	Sound	SOUND	Sound	Sound		Sound
Sphere	Sphere	Sphere	Sphere	SPHERE	Sphere	Sphere	Sphere	Sphere
SphereSensor	SphereSensor	SphereSensor	SphereSensor	SPHERESENSOR	SphereSensor	SphereSensor	SphereSensor	SphereSensor
SplinePositionInterpolator	SplinePositionInterpolator	SplinePositionInterpolator	SplinePositionInterpolator		SplinePositionInterpolator			
SplinePositionInterpolator2D	SplinePositionInterpolator2D	SplinePositionInterpolator2D	SplinePositionInterpolator2D					
SplineScalarInterpolator	SplineScalarInterpolator	SplineScalarInterpolator	SplineScalarInterpolator					
SpotLight	SpotLight	SpotLight	SpotLight	SPOTLIGHT	SpotLight	SpotLight	SpotLight	SpotLight
SquadOrientationInterpolator	SquadOrientationInterpolator	SquadOrientationInterpolator	SquadOrientationInterpolator					
StaticGroup	StaticGroup	StaticGroup	StaticGroup	STATICGROUP	StaticGroup			StaticGroup
StringSensor	StringSensor	StringSensor	StringSensor	STRINGSENSOR				
SurfaceEmitter	SurfaceEmitter	SurfaceEmitter	SurfaceEmitter					
Switch	Switch	Switch	Switch	SWITCH	Switch	Switch	Switch	Switch
TexCoordChaser2D	TexCoordChaser2D	TexCoordChaser2D	TexCoordChaser2D					TexCoordChaser2D
TexCoordDamper2D	TexCoordDamper2D	TexCoordDamper2D	TexCoordDamper2D	TEXCOORDDAMPER2D	TexCoordDamper2D			
Text	Text	Text	Text	TEXT	Text	Text	Text	Text
TextureBackground	TextureBackground	TextureBackground	TextureBackground	TEXTUREBACKGROUND				TextureBackground
TextureCoordinate	TextureCoordinate	TextureCoordinate	TextureCoordinate	TEXTURECOORDINATE	TextureCoordinate	TextureCoordinate		
TextureCoordinate3D	TextureCoordinate3D	TextureCoordinate3D	TextureCoordinate3D	TEXTURECOORDINATE3D	TextureCoordinate3D			TextureCoordinate3D
TextureCoordinate4D	TextureCoordinate4D	TextureCoordinate4D	TextureCoordinate4D	TEXTURECOORDINATE4D				TextureCoordinate4D
TextureCoordinateGenerator	TextureCoordinateGenerator	TextureCoordinateGenerator	TextureCoordinateGenerator	TEXTURECOORDINATEGENERATOR	TextureCoordinateGenerator			TextureCoordinateGenerator
TextureProperties	TextureProperties	TextureProperties	TextureProperties	TEXTUREPROPERTIES	TextureProperties			TextureProperties
TextureTransform	TextureTransform	TextureTransform	TextureTransform	TEXTURETRANSFORM	TextureTransform	TextureTransform		TextureTransform
TextureTransform3D	TextureTransform3D	TextureTransform3D	TextureTransform3D	TEXTURETRANSFORM3D	TextureTransform3D			TextureTransform3D
TextureTransformMatrix3D	TextureTransformMatrix3D	TextureTransformMatrix3D	TextureTransformMatrix3D	TEXTURETRANSFORMMATRIX3D	TextureTransformMatrix3D			TextureTransformMatrix3D
TimeSensor	TimeSensor	TimeSensor	TimeSensor	TIMESENSOR	TimeSensor	TimeSensor	TimeSensor	
TimeTrigger	TimeTrigger	TimeTrigger	TimeTrigger	TIME_TRIGGER		(Prototype available)	TimeTrigger	TimeTrigger
ToneMappedVolumeStyle	ToneMappedVolumeStyle	ToneMappedVolumeStyle	ToneMappedVolumeStyle	TONEMAPPEDVOLUMESTYLE	ToneMappedVolumeStyle			ToneMappedVolumeStyle
TouchSensor	TouchSensor	TouchSensor	TouchSensor	TOUCHSENSOR	TouchSensor	TouchSensor	TouchSensor	TouchSensor
Transform	Transform	Transform	Transform	TRANSFORM	Transform	Transform	Transform	Transform
TransformSensor	TransformSensor	TransformSensor	TransformSensor					TransformSensor
TransmitterPdu	TransmitterPdu	TransmitterPdu	TransmitterPdu	TRANSMITTERPDU		(Java Prototype available)	TransmitterPdu	TransmitterPdu
TriangleFanSet	TriangleFanSet	TriangleFanSet	TriangleFanSet	TRIANGLEFANSET		(Prototype available)	TriangleFanSet	
TriangleSet	TriangleSet	TriangleSet	TriangleSet	TRIANGLESET	TriangleSet	(Prototype available)	TriangleSet	
TriangleSet2D	TriangleSet2D	TriangleSet2D	TriangleSet2D	TRIANGLESET2D	TriangleSet2D	(Prototype available)	TriangleSet2D	
TriangleStripSet	TriangleStripSet	TriangleStripSet	TriangleStripSet	TRIANGLESTRIPSET		(Prototype available)	TriangleStripSet	
TwoSidedMaterial	TwoSidedMaterial	TwoSidedMaterial	TwoSidedMaterial	TWOSIDEDMATERIAL	TwoSidedMaterial			TwoSidedMaterial
UNIT	unit	unit	unit	unit				unit
UniversalJoint	UniversalJoint	UniversalJoint	UniversalJoint	UNIVERSALJOINT	UniversalJoint			
Viewpoint	Viewpoint	Viewpoint	Viewpoint	VIEWPOINT	Viewpoint	Viewpoint	Viewpoint	Viewpoint
ViewpointGroup	ViewpointGroup	ViewpointGroup	ViewpointGroup	VIEWPOINTGROUP				ViewpointGroup
Viewport	Viewport	Viewport	Viewport					
VisibilitySensor	VisibilitySensor	VisibilitySensor	VisibilitySensor	VISIBILITYSENSOR		VisibilitySensor	VisibilitySensor	VisibilitySensor
VolumeData	VolumeData	VolumeData	VolumeData	VOLUME_DATA	VolumeData			VolumeData
VolumeEmitter	VolumeEmitter	VolumeEmitter	VolumeEmitter					
VolumePickSensor	VolumePickSensor	VolumePickSensor	VolumePickSensor					
WindPhysicsModel	WindPhysicsModel	WindPhysicsModel	WindPhysicsModel					
WorldInfo	WorldInfo	WorldInfo	WorldInfo	WORLDINFO	WorldInfo	WorldInfo	WorldInfo	WorldInfo
X3D	X3D	X3D	X3D	X3D	X3D	#VRML	#X3D, #VRML	X3D
Supported nodes:	100%	100%	100%	85%	61%	33%	48%	66%
251	251	251	251	214	154	55	121	166
Missing nodes:								
0	0	0	0	37	97	0	75	85
X3D v3.3 Specification	X3D Schema Validation	X3D DOCTYPE (DTD) Validation	X3D Resources: Tooltips	X3D-Edit v3.3 Authoring Tool	X3DOM supported node list	55 nodes in VRML97 Specification 83 nodes in VRML97 Amendment 1		X3D Schematron validation

X3D Node Profiles, Components and Levels

<i>X3D Abstract Specification Node Index</i>	<i>Minimum Profile</i>	<i>Component</i>	<i>Component Level for Full Support</i>	<i>Notes</i>
Anchor	Interactive	Networking	2	
Appearance	Interchange	Shape	1	textureTransform, fillP
Arc2D	Full	Geometry2D	2	
ArcClose2D	Full	Geometry2D	2	
AudioClip	Immersive	Sound	1	
Background	Interchange	EnvironmentalEffects	1	
BallJoint	Full	RigidBodyPhysics	2	
Billboard	Immersive	Navigation	2	
BlendedVolumeStyle	Full	VolumeRendering	3	
BooleanFilter	Interactive	EventUtilities	1	
BooleanSequencer	Interactive	EventUtilities	1	
BooleanToggle	Interactive	EventUtilities	1	
BooleanTrigger	Interactive	EventUtilities	1	
BoundaryEnhancementVolumeStyle	Full	VolumeRendering	2	
BoundedPhysicsModel	Full	ParticleSystems	2	
Box	Interchange	Geometry3D	1	
CADAssembly	Full	CADGeometry	2	
CADFace	Full	CADGeometry	2	
CADLayer	Full	CADGeometry	2	
CADPart	Full	CADGeometry	2	
CartoonVolumeStyle	Full	VolumeRendering	3	
Circle2D	Full	Geometry2D	2	
ClipPlane	Full	Rendering	5	
CollidableOffset	Full	RigidBodyPhysics	1	
CollidableShape	Full	RigidBodyPhysics	1	
Collision	Immersive	Navigation	2	
CollisionCollection	Full	RigidBodyPhysics	1	
CollisionSensor	Full	RigidBodyPhysics	1	contacts_changed requ
CollisionSpace	Full	RigidBodyPhysics	1	
Color	Interchange	Rendering	1	15,000 colors
ColorChaser	Full	Followers	1	
ColorDamper	Full	Followers	1	
ColorInterpolator	Interchange	Interpolation	2	
ColorRGBA	Interchange	Rendering	1	15,000 colors, alpha op
COMPONENT	Core	Core	1	
ComposedCubeMapTexture	Full	CubeMapTexturing	1	
ComposedShader	Full	Shaders	1	
ComposedTexture3D	Full	Texturing3D	1	
ComposedVolumeStyle	Full	VolumeRendering	2	ordered field is treated
Cone	Interchange	Geometry3D	1	
ConeEmitter	Full	ParticleSystems	1	
connect	Immersive	Core	1	in support of ProtoDec
Contact	Full	RigidBodyPhysics	2	
Contour2D	Full	NURBS	4	
ContourPolyline2D	Full	NURBS	3	
Coordinate	Interchange	Rendering	1	
CoordinateChaser	Full	Followers	1	
CoordinateDamper	Full	Followers	1	
CoordinateDouble	Full	NURBS	1	
CoordinateInterpolator	Interchange	Interpolation	1	
CoordinateInterpolator2D	Full	Interpolation	3	
Cylinder	Interchange	Geometry3D	1	
CylinderSensor	Interactive	PointingDeviceSensor	1	
DirectionalLight	Interchange	Lighting	1	Not scoped by parent C
DISEntityManager	Full	DIS	2	
DISEntityTypeMapping	Full	DIS	2	
Disk2D	Full	Geometry2D	2	
DoubleAxisHingeJoint	Full	RigidBodyPhysics	2	
EaseInEaseOut	Full	Interpolation	4	
EdgeEnhancementVolumeStyle	Full	VolumeRendering	2	
ElevationGrid	Interactive	Geometry3D	3	
EspduTransform	Full	DIS	1	
ExplosionEmitter	Full	ParticleSystems	1	
EXPORT	Interactive	Networking	3	in support of Inline

ExternProtoDeclare	Core	Core	1	in support of ProtoDec
Extrusion	Immersive	Geometry3D	4	
field	Core	Core	1	
fieldValue	Core	Core	1	
FillProperties	Full	Shape	3	Prototypes fields are C Optional until Interact
FloatVertexAttribute	Full	Shaders	1	
Fog	Immersive	EnvironmentalEffects	2	
FogCoordinate	Full	EnvironmentalEffects	4	
FontStyle	Immersive	Text	1	
ForcePhysicsModel	Full	ParticleSystems	1	
GeneratedCubeMapTexture	Full	CubeMapTexturing	3	
GeoCoordinate	Full	Geospatial	1	
GeoElevationGrid	Full	Geospatial	1	
GeoLocation	Full	Geospatial	1	
GeoLOD	Full	Geospatial	1	
GeoMetadata	Full	Geospatial	1	
GeoOrigin	Full	Geospatial	1	
GeoPositionInterpolator	Full	Geospatial	1	
GeoProximitySensor	Full	Geospatial	2	
GeoTouchSensor	Full	Geospatial	1	
GeoTransform	Full	Geospatial	2	
GeoViewpoint	Full	Geospatial	1	
Group	Interchange	Grouping	1	
HAnimDisplacer	Full	H-Anim	1	addChildren, removeCl
HAnimHumanoid	Full	H-Anim	1	
HAnimJoint	Full	H-Anim	1	
HAnimSegment	Full	H-Anim	1	
HAnimSite	Full	H-Anim	1	
head	Core	Core	1	
ImageCubeMapTexture	Full	CubeMapTexturing	2	
ImageTexture	Interchange	Texturing	1	
ImageTexture3D	Full	Texturing3D	2	in support of Inline
IMPORT	Interactive	Networking	3	
IndexedFaceSet	Interchange	Geometry3D	2	
IndexedLineSet	Interchange	Rendering	1	
IndexedQuadSet	Full	CADGeometry	1	
IndexedTriangleFanSet	Interchange	Rendering	3	
IndexedTriangleSet	Interchange	Rendering	3	
IndexedTriangleStripSet	Interchange	Rendering	3	
Inline	Interactive	Networking	2	Inline scene may requir
IntegerSequencer	Interactive	EventUtilities	1	
IntegerTrigger	Interactive	EventUtilities	1	
IS	Immersive	Core	1	
IsoSurfaceVolumeData	Full	VolumeRendering	2	in support of ProtoDec
KeySensor	Interactive	KeyDeviceSensor	1	
Layer	Full	Layering	1	
LayerSet	Full	Layering	1	
Layout	Full	Layout	1	
LayoutGroup	Full	Layout	1	
LayoutLayer	Full	Layout	1	
LinePickSensor	Full	Picking	1	
LineProperties	Immersive	Shape	2	
LineSet	Interchange	Rendering	1	
LoadSensor	Immersive	Networking	3	
LocalFog	Full	EnvironmentalEffects	4	
LOD	Immersive	Navigation	2	Some restrictions until
Material	Interchange	Shape	1	
Matrix3VertexAttribute	Full	Shaders	1	
Matrix4VertexAttribute	Full	Shaders	1	
meta	Core	Core	1	
MetadataBoolean	Core	Core	1	
MetadataDouble	Core	Core	1	
MetadataFloat	Core	Core	1	
MetadataInteger	Core	Core	1	
MetadataSet	Core	Core	1	
MetadataString	Core	Core	1	
MotorJoint	Full	RigidBodyPhysics	2	
MovieTexture	Immersive	Texturing	3	

MultiTexture	Interchange	Texturing	2	
MultiTextureCoordinate	Interchange	Texturing	2	
MultiTextureTransform	Interchange	Texturing	2	
NavigationInfo	Interchange	Navigation	1	
Normal	Interchange	Rendering	2	
NormalInterpolator	Interchange	Interpolation	2	
NurbsCurve	Full	NURBS	1	
NurbsCurve2D	Full	NURBS	3	
NurbsOrientationInterpolator	Full	NURBS	1	
NurbsPatchSurface	Full	NURBS	1	
NurbsPositionInterpolator	Full	NURBS	1	
NurbsSet	Full	NURBS	2	
NurbsSurfaceInterpolator	Full	NURBS	1	
NurbsSweptSurface	Full	NURBS	3	
NurbsSwungSurface	Full	NURBS	3	
NurbsTextureCoordinate	Full	NURBS	1	
NurbsTrimmedSurface	Full	NURBS	4	
OpacityMapVolumeStyle	Full	VolumeRendering	2	
OrientationChaser	Full	Followers	1	
OrientationDamper	Full	Followers	1	
OrientationInterpolator	Interchange	Interpolation	1	
OrthoViewpoint	Full	Navigation	3	
PackagedShader	Full	Shaders	1	
ParticleSystem	Full	ParticleSystems	1	Need level 3 for geome
PickableGroup	Full	Picking	1	
PixelTexture	Interchange	Texturing	1	
PixelTexture3D	Full	Texturing3D	1	
PlaneSensor	Interactive	PointingDeviceSensor	1	
PointEmitter	Full	ParticleSystems	1	
PointLight	Interactive	Lighting	2	radius optionally suppl
PointPickSensor	Full	Picking	1	
PointSet	Interchange	Rendering	1	
Polyline2D	Immersive	Geometry2D	1	
PolylineEmitter	Full	ParticleSystems	1	
Polypoint2D	Immersive	Geometry2D	1	
PositionChaser	Full	Followers	1	
PositionChaser2D	Full	Followers	1	
PositionDamper	Full	Followers	1	
PositionDamper2D	Full	Followers	1	
PositionInterpolator	Interchange	Interpolation	1	
PositionInterpolator2D	Full	Interpolation	3	
PrimitivePickSensor	Full	Picking	2	Non-uniform scale not
ProgramShader	Full	Shaders	1	
ProjectionVolumeStyle	Full	VolumeRendering	2	
ProtoBody	Core	Core	1	Optional until Interact
ProtoDeclare	Core	Core	1	Optional until Interact
ProtoInstance	Core	Core	1	Optional until Interact
ProtoInterface	Core	Core	1	Optional until Interact
ProximitySensor	Interactive	EnvironmentalSensor	1	position_changed, orie
QuadSet	Full	CADGeometry	1	
ReceiverPdu	Full	DIS	1	
Rectangle2D	Immersive	Geometry2D	1	
RigidBody	Full	RigidBodyPhysics	2	
RigidBodyCollection	Full	RigidBodyPhysics	2	
ROUTE	Core	Core	1	
ScalarChaser	Full	Followers	1	
ScalarDamper	Full	Followers	1	
ScalarInterpolator	Interchange	Interpolation	1	
-				
ScreenFontStyle	Full	Layout	2	
ScreenGroup	Full	Layout	2	
Script	Immersive	Scripting	1	
SegmentedVolumeData	Full	VolumeRendering	2	
ShadedVolumeStyle	Full	VolumeRendering	3	Use level 4 for full capa
ShaderPart	Full	Shaders	1	
ShaderProgram	Full	Shaders	1	
Shape	Interchange	Shape	1	
SignalPdu	Full	DIS	1	

SilhouetteEnhancementVolumeStyle	Full	VolumeRendering	2	
SingleAxisHingeJoint	Full	RigidBodyPhysics	2	
SliderJoint	Full	RigidBodyPhysics	2	
Sound	Immersive	Sound	1	
Sphere	Interchange	Geometry3D	1	
SphereSensor	Interactive	PointingDeviceSensor	1	
SplinePositionInterpolator	Full	Interpolation	4	
SplinePositionInterpolator2D	Full	Interpolation	4	
SplineScalarInterpolator	Full	Interpolation	4	
SpotLight	Interactive	Lighting	2	beamWidth optionally
SquadOrientationInterpolator	Full	Interpolation	5	
StaticGroup	Full	Grouping	3	
StringSensor	Interactive	KeyDeviceSensor	2	
SurfaceEmitter	Full	ParticleSystems	2	
Switch	Interactive	Grouping	2	
TexCoordChaser2D	Full	Followers	1	
TexCoordDamper2D	Full	Followers	1	
Text	Immersive	Text	1	
TextureBackground	Full	EnvironmentalEffects	3	
TextureCoordinate	Interchange	Texturing	1	
TextureCoordinate3D	Full	Texturing3D	1	
TextureCoordinate4D	Full	Texturing3D	1	
TextureCoordinateGenerator	Interchange	Texturing	2	
TextureProperties	Full	Texturing	2	
TextureTransform	Interchange	Texturing	1	
TextureTransform3D	Full	Texturing3D	1	
TextureTransformMatrix3D	Full	Texturing3D	1	
TimeSensor	Interchange	Time	1	
TimeTrigger	Interactive	EventUtilities	1	
ToneMappedVolumeStyle	Full	VolumeRendering	2	
TouchSensor	Interactive	PointingDeviceSensor	1	
Transform	Interchange	Grouping	1	addChildren, removeCt
TransformSensor	Full	EnvironmentalSensor	3	
TransmitterPdu	Full	DIS	1	
TriangleFanSet	Interchange	Rendering	3	
TriangleSet	Interchange	Rendering	3	
TriangleSet2D	Full	Geometry2D	1	
TriangleStripSet	Interchange	Rendering	3	
TwoSidedMaterial	Full	Shape	4	
UNIT	Core	Core	1	
UniversalJoint	Full	RigidBodyPhysics	2	
Viewpoint	Interchange	Navigation	1	
ViewpointGroup	Full	Navigation	3	
Viewport	Full	Layering	1	
VisibilitySensor	Immersive	EnvironmentalSensor	2	
VolumeData	Full	VolumeRendering	1	
VolumeEmitter	Full	ParticleSystems	2	
VolumePickSensor	Full	Picking	3	
WindPhysicsModel	Full	ParticleSystems	1	
WorldInfo	Core	Core	1	
X3D	Core	Core	1	

X3D Interactive, X3D MPEG4 Interactive Profile Comparison

<http://www.web3d.org/specifications/X3dNodeInventoryComparison-X3dInteractiveMpeg4Interactive.pdf>

X3D Interactive Profile	MPEG4 Interactive Profile	To be added
Anchor	Anchor	
Appearance	Appearance	
Background	Background	
BooleanFilter		
BooleanSequencer		
BooleanToggle		
BooleanTrigger		
Box	Box	
Color	Color	
ColorInterpolator	ColorInterpolator	
ColorRGBA	ColorRGBA	
Cone	Cone	
Coordinate	Coordinate	
CoordinateInterpolator	CoordinateInterpolator	
Cylinder	Cylinder	
CylinderSensor	CylinderSensor	
DirectionalLight	DirectionalLight	
ElevationGrid	ElevationGrid	
Group	Group	
ImageTexture	ImageTexture	
IndexedFaceSet	IndexedFaceSet	
IndexedLineSet	IndexedLineSet	
IndexedTriangleFanSet		
IndexedTriangleSet		
IndexedTriangleStripSet		
Inline	Inline	
IntegerSequencer		
IntegerTrigger		
KeySensor		
LineSet	LineSet	
Material	Material	
MetadataBoolean	MetadataBoolean	
MetadataDouble	MetadataDouble	
MetadataFloat	MetadataFloat	
MetadataInteger	MetadataInteger	
MetadataSet	MetadataSet	
MetadataString	MetadataString	
MultiTexture		
MultiTextureCoordinate		
MultiTextureTransform		
NavigationInfo	NavigationInfo	
Normal		

NormalInterpolator	NormalInterpolator
OrientationInterpolator	OrientationInterpolator
PixelTexture	PixelTexture
PlaneSensor	PlaneSensor
PointLight	PointLight
PointSet	PointSet
PositionInterpolator	PositionInterpolator
ProximitySensor	ProximitySensor
ScalarInterpolator	ScalarInterpolator
Shape	Shape
Sphere	Sphere
SphereSensor	SphereSensor
SpotLight	SpotLight
StringSensor	
Switch	Switch
TextureCoordinate	TextureCoordinate
TextureCoordinateGenerator	
TextureTransform	TextureTransform
TimeSensor	TimeSensor
TimeTrigger	
TouchSensor	TouchSensor
Transform	Transform
TriangleFanSet	
TriangleSet	
TriangleStripSet	
Viewpoint	Viewpoint
VisibilitySensor	
WorldInfo	WorldInfo

Total nodes:

70	49
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Missing nodes:

0	21	0
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References:

<http://www.web3d.org/files/specifications/19775-1/V3.3/Part01/interactive.html>
<http://www.web3d.org/files/specifications/19775-1/V3.3/Part01/MPEG4interactive.html>