## (a) <br> 2nd Annual for formancial Services

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## W3C XML Schema Structures Reference <br> By Eric van der Vlist

xs:all
Compositor describing an unordered group of elements.
<xs:all

| id | $=x s: I D$ |
| :--- | :--- |
| maxOccurs | $=" 1 ": " 1 "$ |
| minOccurs | $=(" 0 " \mid " 1 "): " 1 "$ |
| \{any attributes with non-schema namespace $\}$ |  |

$>$
Content: (xs:annotation?, $x$ xs:element $*)$
</xs:all>
May be included in: xs:complexType (reference or local definition), xs:complexType (global definition), $\underline{x s: e x t e n s i o n ~(c o m p l e x ~ c o n t e n t), ~} \underline{x s}$ :restriction (complex content)

## xs:all (within a group)

Compositor describing an unordered group of elements. The number of occurences cannot be defined when xs:all is used within a group.
<xs:all
id
= xs:ID
\{any attributes with non-schema namespace \}
>
Content: (xs:annotation?, $\underline{x s: \text { element } *) ~}$
</xs:all>
xs:group (definition)

## xs:annotation

Informative data for human or electronic agents.
<xs:annotation

$$
\begin{aligned}
& \text { id } \quad=\text { xs:ID } \\
& \text { \{any attributes with non-schema namespace\} } \\
& > \\
& \text { Content: (xs:appinfo } \mid \underline{\text { xs:documentation }})^{*}
\end{aligned}
$$

[^0]May be included in: $\quad \underline{x s}$ :all, $\underline{x s}$ :all (within a group), $\underline{x s}$ :any,,$\underline{x s}$ :any Attribute, $\underline{x s}$ :attribute (reference or local definition), xs:attribute (global definition), xs:attributeGroup (reference or ocal definition), xs:attributeGroup (global definition), xs:choice, xs:choice (within a group), xs:complexContent, xs:complexType (reference or local definition), xs:complexType (global definition), xs:element (within xs:all), $\mathrm{xs}:$ element (reference or local definition), xs:element (global definition), xs :enumeration, xs :extension (complex content), xs:extension (simple content), xs:field, $\underline{x s}$ :fractionDigits, $\underline{x s}$ :group (reference), $\underline{x s}$ :group (definition),
 xs:maxInclusive, xs:maxLength, xs:minExclusive, xs:minInclusive, xs:minLength, xs:notation, xs:pattern, xs:redefine, xs:restriction (complex content), xs:restriction (simple type), xs:restriction (simple content), xs:schema, xs :selector, xs :sequence (within a group), $\mathrm{xs}:$ sequence, xs simpleContent, xs :simpleType (reference or local definition), xs:simpleType (global definition), xs:totalDigits, xs:union, xs:unique, xs:whiteSpace

## xs:any

Wildcard to replace any element.
<xs:any
id
maxOccurs
minOccurs
namespace
processContent
<any
Content: (xs:annotation?)
</xs:any>
May be included in: xs:choice, xs:choice (within a group), $\underline{x s: s e q u e n c e ~(w i t h i n ~ a ~ g r o u p) ~}$ xs:sequence

## xs:anyAttribute

Wildcard to replace any attribute.
<xs:anyAttribute
id
namespace
= xs:ID
= ( ( "\#\#any" | "\#\#other" ) | list of ( xs:anyURI |
( "\#\#targetNamespace" | "\#\#local" ) ) ) : "\#\#any"
= ( "skip" | "lax" | "strict" ) : "strict"
any attributes with non-schema namespace\}
<any
Content: (xs:annotation?)
</xs:anyAttribute>
May be included in: xs:attributeGroup (global definition), xs:complexType (reference or local ds:finition), xs:complexType (global definition), xs:extension (complex
content), $\mathrm{xs}:$ extension (simple content), xs :restriction (complex content), xs:restriction (simple content)

## xs:appinfo

Information for applications.
<xs:appinfo

$$
\begin{aligned}
& \text { source } \quad=\text { xs:anyURI } \\
& > \\
& \text { Content: }(\{\text { any }\})^{*}
\end{aligned}
$$

</xs:appinfo>
May be included in: xs:annotation

## xs:attribute (reference or local definition)

Reference to a global attribute declaration or local definition (local definitions cannot be referenced). <xs:attribute

| default | $=x s:$ string |
| :--- | :--- |
| fixed | $=x s:$ string |
| form | $=($ "qualified" \| "unqualified" $)$ |
| id | $=x s: I D$ |
| name | $=x s: N C N a m e$ |
| ref | $=x s:$ QName |
| type | $=x s: Q N a m e$ |
| use |  |
|  | " ( "prohibited" \| "optional" | "required" $):$ |
|  | "optional" |

\{any attributes with non-schema namespace\}
$>$
Content: ((xs:annotation?), ( xs:simpleType ?))
</xs:attribute>
May be included in: xs:attributeGroup (global definition), xs:complexType (reference or local definition), xs:complexType (global definition), xs:extension (complex content), xs:extension (simple content), xs:restriction (complex content), xs:restriction (simple content)

## xs:attribute (global definition)

Global attribute declaration which can be referenced within the same schema of by other schemas <xs:attribute

| default | $=x s: s t r i n g$ |
| :--- | :--- |
| fixed | $=x s: s t r i n g$ |
| id | $=x s: I D$ |
| name | $=x s: N C N a m e$ |
| type | $=x s: Q N a m e$ |
| \{any attributes with non-schema namespace\} |  |

$\rightarrow$
Content: (xs:annotation?, xs:simpleType ?)
</xs:attribute>
May be included in: xs :schema

## xs:attributeGroup (reference or local definition)

Reference to a global attributes group declaration or local definition (local definitions cannot be referenced).
<xs:attributeGroup

| id | $=x s: I D$ |
| :--- | :--- |
| ref | $=x s: Q N a m e$ |

\{any attributes with non-schema namespace\}
$>$
Content: (xs:annotation?)
</xs:attributeGroup>
May be included in: xs:attributeGroup (global definition), xs:complexType (reference or local xs:attributeGroup (global definition), $\mathrm{xs}:$ complexType (reference or loca
definition), xs:complexType (global definition), xs:extension (complex content), xs:extension (simple content), xs:restriction (complex content), xs:restriction (simple content)

## xs:attributeGroup (global definition)

Global attributes group declaration which can be referenced within the same schema of by other schemas.
<xs:attributeGroup

$$
\begin{array}{ll}
\text { id } & =x s: I D \\
\text { name } & =x s: N C N a m e
\end{array}
$$

\{any attributes with non-schema namespace\}
$>$
Content: (xs:annotation?, ((xs:attribute |xs:attributeGroup )*, xs:anyAttribute?))
</xs:attributeGroup>
May be included in: xs:redefine, xs:schema

## xs:choice

Compositor to define group of mutually exclusive elements or compositors.
<xs:choice

| id | = xs:ID |
| :---: | :---: |
| maxOccurs | = ( xs:nonNegativeInteger \| "unbounded" ) : "1" |
| minOccurs | = xs:nonNegativeInteger : "1" |
| \{any attributes with non-schema namespace\} |  |
| > |  |
| $\begin{aligned} & \text { Content: (xs: } \\ & \text { xs:any)*) } \end{aligned}$ | xs:element $\mid \underline{x s}$ :group $\mid \underline{x s}:$ choice $\mid \underline{x s}$ :sequence $\mid$ |

</xs:choice>
May be included in: $\quad$ xs:choice, $x$ xs:choice (within a group), $\underline{x s: c o m p l e x T y p e ~(r e f e r e n c e ~ o r ~ l o c a l ~}$ definition), xs:complexType (global definition), xs:extension (complex content), xs:restriction (complex content), $\underline{\text { xs:sequence (within a group), }}$ xs :sequence

## xs:choice (within a group)

Compositor to define group of mutually exclusive elements or compositors. The number of occurences cannot be defined when xs:choice is used within a group.
<xs:choice

$$
\begin{aligned}
& \text { id } \quad=\mathrm{xs}: I D \\
& \text { \{any attributes with non-schema namespace\} } \\
& > \\
& \text { Content: (xs:annotation?, ( } \underline{\text { xs:element } \mid \text { xs:group } \mid \text { xs:choice } \mid \text { xs:sequence } \mid} \\
& \left.\underline{\text { xs:any }})^{*}\right)
\end{aligned}
$$

</xs:choice>
May be included in: xs:group (definition)

## xs:complexContent

Derivation of a simple type to complex content.
<xs:complexContent

| id |
| :--- |
| mixed |
| (any attributes with non-schema namespace $\}$ |

$>$
Content: ((xs:annotation?), ( xs:restriction $\mid \underline{\text { xs:extension }))}$

| xs:complexType (reference or local definition), xs:complexType (global |
| :--- |
| definition) |

## xs:complexType (reference or local definition)

Reference to a global complex type declaration or local definition (local definitions cannot be referenced).
<xs:complexType

| id | $=x s: I D$ |
| :--- | :--- |
| mixed | $=$ xs:boolean : "false" |
| \{any attributes with non-schema namespace $\}$ |  |

\{any attributes with non-schema namespace\}
>
Content: (xs:annotation?, (xs:simpleContent $|\underline{\text { xs:complexContent }}|$ (( xs:group $\mid$
xs:all | xs:choice | xs:sequence)?, (( xs:attribute | xs:attributeGroup $)^{*}$,
xs:anyAttribute?))))
</xs:complexType>
May be included in: xs:element (within xs:all), xs:element (reference or local definition), xs:element

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## xs:complexType (global definition)

Global declaration of a complex type which can be referenced within the same schema of by other schemas.
<xs:complexType


## xs:documentation

Human targeted documentation
<xs:documentation

| source $=x s: a n y U R I$ <br> xml:lang $=x m l: l a n g$ |  |
| :--- | :--- |
| $>$ |  |
| Content: $(\{\text { any }\})^{*}$ |  |

</xs:documentation>
May be included in: xs:annotation

## xs:element (within xs:all)

Reference to a global element declaration or local definition (local definitions cannot be referenced)
The number of occurences can only be 0 or 1 when xs:element is used within xs:all..
<xs:element

| block | $=($ "\#all" \| list of ( "extension" | "restriction" | |
| :--- | :--- |
| default | substitution" ) ) |
| fixed | $=$ xs:string |
| form | $=($ "qualified" \| "unqualified" $)$ |
| id | $=$ xs:ID |
| maxOccurs | $=(" 0 " \mid 1 "): " 1 "$ |
| minOccurs | $=(" 0 " \mid " 1 "): " 1 "$ |



## xs:element (reference or local definition)

Reference to a global element declaration or local definition (local definitions cannot be referenced). <xs:element

| block | $\begin{aligned} & =(\text { "\#all" \| list of ( "extension" \| "restriction" \| } \\ & \text { "substitution" ) ) } \end{aligned}$ |
| :---: | :---: |
| default | = xs:string |
| fixed | = xs:string |
| form | = ( "qualified" \| "unqualified" ) |
| id | = xs:ID |
| maxOccurs | = ( xs:nonNegativeInteger $\mid$ "unbounded" ) : "1" |
| minOccurs | = xs:nonNegativeInteger : "1" |
| name | = xs:NCName |
| nillable | = xs:boolean : "false" |
| ref | = xs:QName |
| type | = xs:QName |

any attributes with non-schema namespace
any attributes with non-schema namespace
>
Content: (xs:annotation?, ( xs:simpleType $\mid \underline{x s: c o m p l e x T y p e ~) ?, ~(x s: u n i q u e ~}$ xs:key | xs:keyref)*)
</xs:element>
May be included in: xs:choice, xs:choice (within a group), xs:sequence (within a group), xs:sequence

## xs:element (global definition)

Global element declaration which can be referenced within the same schema of by other schemas. <xs:element

| abstract | $=$ xs:boolean : "false" |
| :--- | :--- |
| block | $=($ "\#all" \| list of ( "extension" | "restriction" | |
| default | "substitution" $))$ |
| final | $=$ xs:string |
|  | $=($ "\#all" \| list of ( "extension" | "restriction" ) ) |



May be included in: xs:schema

## xs:enumeration

Facet to restrict a datatype to a finite set of values
<xs:enumeration

| id | $=x s: I D$ |
| :--- | :--- |
| value | $=$ anySimpleType |
| \{any attributes with non-schema namespace $\}$ |  |
| $>$ |  |
| Content: (xs:annotation?) |  |

</xs:enumeration>
May be included in: xs:restriction (simple type), xs:restriction (simple content)

## xs:extension (complex content)

Extension of a complex content model.
<xs:extension

| base | $=x s: Q N a m e$ |
| :--- | :--- |
| id | $=x s: I D$ |

\{any attributes with non-schema namespace\} $>$

Content: ((xs:annotation?), (( xs:group $\mid \underline{x s}:$ all $|\underline{x s}: c h o i c e| \underline{x s}:$ sequence $)$ ?, (( xs:attribute xs:attributeGroup $)^{*}$, xs:anyAttribute? )))
</xs:extension>
May be included in: xs:complexContent

## xs:extension (simple content)

Extension of a simple content model.
<xs:extension

| base | $=x s:$ QName |
| :--- | :--- |
| id | $=x s: I D$ |

\{any attributes with non-schema namespace \}

## $>$

Content: (xs:annotation?, ((xs:attribute |xs:attributeGroup )*, xs:anyAttribute?))
</xs:extension>
May be included in: xs:simpleContent

## xs:field

Definition of the field to be used for a uniqueness constraint.
<xs:field

| id | $=$ xs:ID |
| :--- | :--- |
| xpath $\quad=$ | xs:token |
| $\{$ any attributes with non-schema namespace $\}$ |  |
| $>$ |  |

Content: (xs:annotation?)
</xs:field>
May be included in: xs:key, xs:keyref, xs:unique

## xs:fractionDigits

Facet to define the number of fractional digits of a numerical datatype.
<xs:fractionDigits

| fixed | $=x s:$ boolean : "false" |
| :--- | :--- |
| id | $=x s: I D$ |
| value | $=x s:$ nonNegativeInteger |

\{any attributes with non-schema namespace\}
>
Content: (xs:annotation?)
</xs:fractionDigits>
May be included in: xs:restriction (simple type), xs:restriction (simple content)

## xs:group (reference)

Reference to a global elements group declaration or local definition (local definitions cannot be referenced).
<xs:group

| id | $=$ xs:ID |
| :--- | :--- |
| maxOccurs | $=($ xs:nonNegativeInteger \| "unbounded" $): " 1 "$ |
| minOccurs | $=$ xs:nonNegativeInteger : "1" |
| ref | $=x s:$ QName |

= xs:QName
\{any attributes with non-schema namespace \}
$>$
Content: (xs:annotation?)
</xs:group>
May be included in: xs:choice, xs:choice (within a group), xs:complexType (reference or local
definition), xs:complexType (global definition), xs:extension (complex content), $\underline{x s}:$ restriction (complex content), $\underline{x s: \text { sequence (within a group) }}$ xs :sequence

## xs:group (definition)

Global elements group declaration which can be referenced within the same schema of by other schemas.
<xs:group

| maxOccurs | $=$ anySimpleType |
| :--- | :--- |
| minOccurs | $=$ anySimpleType |
| name | $=$ xs:NCName |
| ref | $=$ anySimpleType |

ref
Content: (xs:annotation?, ( $\underline{x s}$ :all $\mid \underline{x s}$ :choice $\mid x s$ :sequence $)$ )
</xs:group>
May be included in: xs:redefine, xs:schema

## xs:import

Import of a W3C XML Schema for another namespace
<xs:import

| id | $=x s: I D$ |
| :--- | :--- |
| namespace | $=x s: a n y U R I$ |
| schemaLocation | $=x s: a n y U R I$ |

\{any attributes with non-schema namespace $\}$
$>$
</xs:import>
May be included in: xs:schema

## xs:include

Inclusion of a W3C XML Schema for the same target namespace.
<xs:include

| id | $=x s: I D$ |
| :--- | :--- |
| schemaLocation | $=x s: a n y U R I$ |
| \{any attributes with non-schema namespace $\}$ |  |
| $>$ |  |

</xs:include>
May be included in: xs:schema

## xs:key

Definition of a key

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<xs:key
name $\quad=$ xs:ID $\quad=$ xs:NCName
\{any attributes with non-schema namespace \}
$>$
Content: ((xs:annotation?), (xs:selector, xs:field + ))
</xs:key>
May be included in: xs:element (within xs:all), xs:element (reference or local definition), xs:element (global definition)

## xs:keyref

Definition of a key reference
<xs:keyref

| id | $=x s: I D$ |
| :--- | :--- |
| name | $=x s:$ NCName |
| refer | $=x s:$ QName |

refer $=x$ x:OName
any attributes with non-schema namespace \}
Content: ((xs:annotation?), (xs:selector, xs:field + )
</xs:keyref>
May be included in: $\quad$ xs:element (within xs:all), xs:element (reference or local definition), xs:element (global definition)

## xs:length

Facet to define the length of a value.
<xs:length

| fixed | $=$ xs:boolean : "false" |
| :--- | :--- |
| id | $=$ xs:ID |
| value | $=x s:$ nonNegativeInteger |

\{any attributes with non-schema namespace\}
>
Content: (xs:annotation?)
</xs:length>
May be included in: xs:restriction (simple type), $\underline{x s}$ :restriction (simple content)

## xs:list

Derivation by list.
<xs:list

| id | $=x s: I D$ |
| :--- | :--- |
| itemType | $=x s:$ QName |
| \{any attributes with non-schema namespace $\}$ |  |

any attributes with non-schema namespace
$>$

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</xs:list>
May be included in: xs:simpleType (reference or local definition), xs:simpleType (global definition)

## xs:maxExclusive

Facet to define a maximum (exclusive) value.
<xs:maxExclusive

| fixed | $=$ xs:boolean : "false" |
| :--- | :--- |
| id | $=$ xs:ID |
| value | $=$ anySimpleType |

\{any attributes with non-schema namespace\}
$>$
Content: (xs:annotation?)
</xs:maxExclusive>
May be included in: xs:restriction (simple type), xs:restriction (simple content)

## xs:maxInclusive

Facet to define a maximum (inclusive) value.
<xs:maxInclusive

| fixed | $=$ xs:boolean : "false" |
| :--- | :--- |
| id | $=$ xs:ID |
| value | $=$ anySimpleType |
| \{any attributes with non-schema namespace $\}$ |  |
| $>$ |  |
| Content: (xs:annotation?) |  |

</xs:maxInclusive>
May be included in: xs:restriction (simple type), xs:restriction (simple content)

## xs:maxLength

Facet to define a maximum length.
<xs:maxLength

| fixed $=x s: b o o l e a n ~: ~ " f a l s e " ~$ <br> id $=$ xs:ID |  |
| :--- | :--- |
| value | $=$ xs:nonNegativeInteger |
| \{any attributes with non-schema namespace $\}$ |  |
| $>$ |  |
| Content: (xs:annotation?) |  |

## xs:minExclusive

Facet to define a minimum (exclusive) value
<xs:minExclusive

| fixed | $=x s:$ boolean : "false" |
| :--- | :--- |
| id | $=x s:$ ID |
| value | $=$ anySimpleType |

\{any attributes with non-schema namespace\}
>
Content: (xs:annotation?)
</xs:minExclusive>
May be included in: $\quad$ xs:restriction (simple type), xs:restriction (simple content)

## xs:minInclusive

Facet to define a minimum (inclusive) value.
<xs:minInclusive

| fixed | $=\mathrm{xs}:$ boolean : "false" |
| :--- | :--- |
| id $=\mathrm{xs}: \mathrm{ID}$ <br> value $=$ anySimpleType <br> \{any attributes with non-schema namespace $\}$  |  |
| $>$ |  |
| Content: (xs:annotation? |  |

</xs:minInclusive>
May be included in: xs:restriction (simple type), xs:restriction (simple content)

## xs:minLength

Facet to define a minimum length
$<x s: m i n L e n g t h$

| fixed | $=x s:$ boolean : "false" |
| :--- | :--- |
| id | $=x s: I D$ |
| value | $=x s: n o n N e g a t i v e$ Integer |

\{any attributes with non-schema namespace\}
$>$
Content: (xs:annotation?)
</xs:minLength>
May be included in: xs:restriction (simple type), xs:restriction (simple content)

## xs:notation

Declaration of a notation
<xs:notation

| id | $=x s:$ ID |
| :--- | :--- |
| name | $=x s:$ NCName |
| public | $=x s:$ token |

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any attributes with non-schema namespace
$>$
Content: (xs:annotation?)

## /xs:notation>

May be included in: xs:schema

## xs:pattern

Facet to define a regular expression pattern constraint
xs:pattern

| id | $=$ xs:ID |
| :--- | :--- |
| value | $=$ anySimpleType |
| \{any attributes with non-schema namespace $\}$ |  |
| $>$ |  |
| Content: (xs:annotation?) |  |

</xs:pattern>
May be included in: xs:restriction (simple type), xs:restriction (simple content)

## xs:redefine

Import of a W3C XML Schema for the same namespace with possible overide.
<xs:redefine

| id | $=x s: I D$ |
| :--- | :--- |
| schemaLocation | $=x s: a n y U R I$ |
| \{any attributes with non-schema namespace $\}$ |  |

\{any attributes with non-schema namespace \}
Content: (xs:annotation | (xs:simpleType | xs:complexType | xs:group | xs:attributeGroup))*

## </xs:redefine>

May be included in: xs:schema

## xs:restriction (complex content)

Derivation of a complex content model by restriction.
<xs:restriction

| base | $=\mathrm{xs}:$ QName |
| :--- | :--- |
| id | $=\mathrm{xs}: \mathrm{ID}$ |
| \{any attributes with non-schema namespace $\}$ |  |

\{any attributes with non-schema namespace\}
>
Content: (xs:annotation?, ( xs:group $\mid \underline{x s}$ :all $\mid \underline{x s}$ :choice $\mid \underline{x s}$ :sequence) $)$,
(( $\underline{\left.\left.x s: \text { attribute } \mid \underline{x s: a t t r i b u t e G r o u p ~})^{*} \text {, xs:anyAttribute? }\right)\right) ~}$
</xs:restriction>
May be included in: xs:complexContent

## xs:restriction (simple type)

Derivation of a simple datatype by restriction

<xs:restriction
id
any attributes with non-schema namespace
(x.s.
|ns $\mid \underline{x s}:$ maxExclusive $\mid$ xs:maxInclusive $\mid$ xs:totalDigits
ng x.maxLeng xs.enumeration

May

## xs: restriction (simple content)

Derivation of a simple content model by restriction.
<xs:restriction
${ }_{i}{ }^{i d}$
= $\mathrm{xs}: \mathrm{QName}$
\{any attributes with non-schema namespace\}

Content: (xs:annotation?, (xs:simpleType ?, (xs:minExclusive | xs:minInclusive
as.maxinclusivo xs. ?
xs:pattern $\left.)^{*}\right) ?,\left((\underline{x s: a t t r i b u t e ~} \mid \underline{x s}: \text { attributeGroup })^{*}\right.$, xs:anyAttribute? $\left.)\right)$
</xs:restriction>
xs:simpleContent

## che

Document element of a W3C XML Schema.

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$(((\underline{\text { xs:simpleType }}|\underline{\mathrm{xs}: c o m p l e x T y p e}| \underline{\mathrm{xs}: g r o u p} \mid \underline{\mathrm{xs}: \text { attributeGroup })|\underline{\mathrm{xs}: e l e m e n t \mid}| \mid}$ xs:attribute $\mid \underline{\text { xs:notation }), ~ x s: a n n o t a t i o n *) *) ~}$
</xs:schema>
May be included in:

## xs:selector

Definition of the the path selecting an element for a uniqueness constraint
<xs:selector

| id | $=x s: I D$ |
| :--- | :--- |
| xpath | $=x s: t o k e n$ |
| \{any attributes with non-schema namespace $\}$ |  |
| $>$ |  |

</xs:selector>
May be included in: xs:key, xs:keyref, xs:unique

## xs:sequence (within a group)

Compositor to define an ordered group of elements. The number of occurences cannot be defined when xs:all is used within a group.
<xs:sequence
id
$=\mathrm{xs}$ :ID
\{any attributes with non-schema namespace \}
>
Content: (xs:annotation?, ( $\underline{x s}$ :element $\mid \underline{x s}:$ group $|\underline{x s}: c h o i c e ~| \underline{x s}:$ sequence $\mid$ xs:any)*)
</xs:sequence>
May be included in: xs:group (definition)

## xs:sequence

Compositor to define an ordered group of elements.
<xs:sequence

$$
\begin{array}{ll}
\text { id } & =x s: I D \\
\text { maxOccurs } & =(\text { xs:nonNegativeInteger | "unbounded" }): " 1 " \\
\operatorname{minOccurs} & =x s: n o n N e g a t i v e I n t e g e r ~: ~ " 1 " ~
\end{array}
$$

\{any attributes with non-schema namespace\}
>
Content: (xs:annotation?, ( $\underline{x s: e l e m e n t} \mid \underline{x s}:$ group $|\underline{\mathrm{xs}: c h o i c e}| \underline{\mathrm{xs}: \text { sequence }}$ xs:any)*)
</xs:sequence>
May be included in: xs:choice, xs:choice (within a group), xs:complexType (reference or local definition), xs:complexType (global definition), xs:extension (complex definition), xs:complexType (global definition), xs :extension (complex xs :sequence

## xs:simpleContent

Simple content model declaration.
<xs:simpleContent
= xs:ID
\{any attributes with non-schema namespace\}
>
Content: ((xs:annotation?), ( $\underline{x s \text { :restriction } \mid \underline{x s}: \text { extension })) ~}$
</xs:simpleContent>
May be included in: xs:complexType (reference or local definition), xs:complexType (global definition)

## xs:simpleType (reference or local definition)

Reference to a global simple type declaration or local definition (local definitions cannot be
referenced).
<xs:simpleType
id
= xs:ID
\{any attributes with non-schema namespace\}

Content: (xs:annotation?, (xs:restriction | xs:list | xs:union))
</xs:simpleType>
May be included in:
xs:attribute (reference or local definition), xs:attribute (global definition), xs:element (within xs:all), xs:element (reference or local definition), xs:element global definition), $\underline{\text { xs:list, }} \underline{\text { xs:restriction (simple type), }} \underline{\text { xs:restriction (simple }}$ content), xs:union

## xs:simpleType (global definition)

Global simple type declaration which can be referenced within the same schema of by other schemas. <xs:simpleType

\{any attributes with non-schema namespace
$>$
Content: (xs:annotation?, (xs:restriction $|\underline{\text { xs:list }}| \underline{\text { xs:union }})$
</xs:simpleType>
May be included in: xs:redefine, xs:schema

## xs:totalDigits

Facet to define the total number of digits of a numeric datatype.
<xs:totalDigits

$$
\text { fixed } \quad=x s: b o o l e a n: \text { "false" }
$$

XML.com: W3C XML Schema Structures Reference

May be included in: xs:restriction (simple type), xs :restriction (simple content)

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[^0]:    </xs:annotation>

