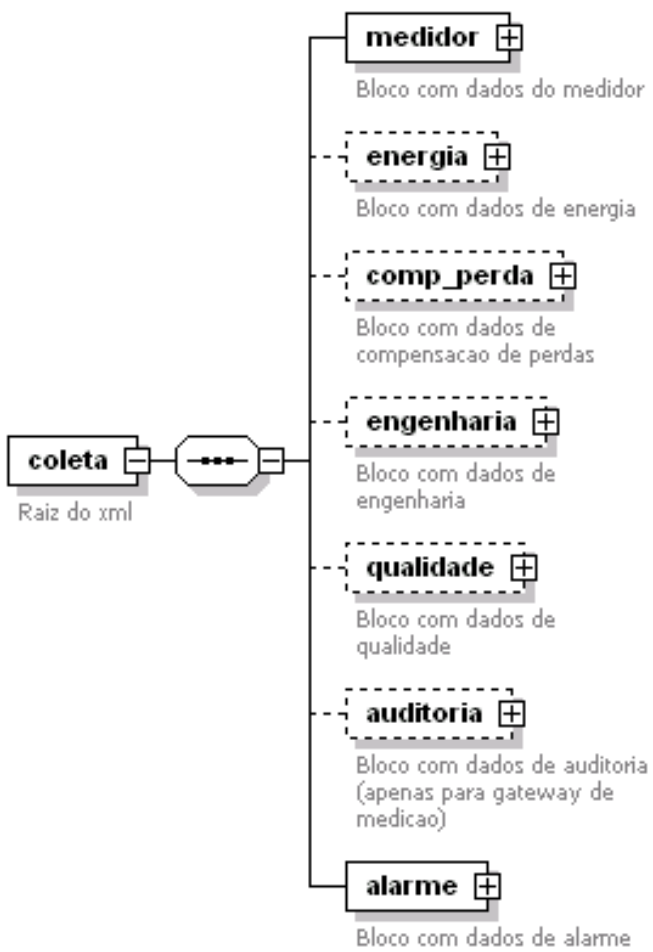


## Schema MAE1\_IT3\_10202.xsd

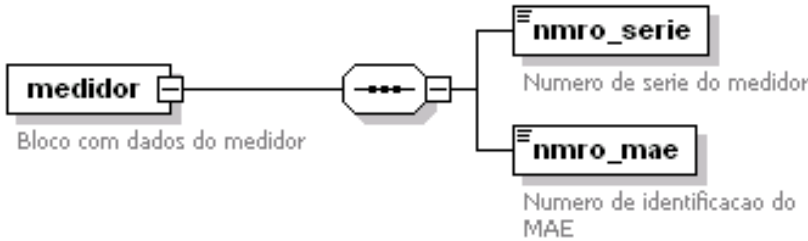
Os blocos tracejados são considerados opcionais e devem existir de acordo com o tipo de coleta. Para campos opcionais, quando o dado não existir, o mesmo deve ser suprimido do arquivo, mas o valor 0 (zero) é considerado um valor coletado. Para os valores numéricos que possuem casas decimais, deve-se utilizar "." (ponto) como separador.

### coleta


#### element coleta

<p>diagram</p> 	<p><b>medidor</b> + Bloco com dados do medidor</p> <p><b>energia</b> + Bloco com dados de energia</p> <p><b>comp_perda</b> + Bloco com dados de compensacao de perdas</p> <p><b>engenharia</b> + Bloco com dados de engenharia</p> <p><b>qualidade</b> + Bloco com dados de qualidade</p> <p><b>auditoria</b> + Bloco com dados de auditoria (apenas para gateway de medicao)</p> <p><b>alarme</b> + Bloco com dados de alarme</p>												
children	<b><u>medidor energia comp_perda engenharia qualidade auditoria alarme</u></b>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>versao</td> <td>xs:string</td> <td>optional</td> <td></td> <td>2.0</td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	versao	xs:string	optional		2.0	
Name	Type	Use	Default	Fixed	Annotation								
versao	xs:string	optional		2.0									
annotation	documentation Raiz do xml												


#### element coleta/medidor

diagram	
children	<b><u>nmro_serie</u></b> <b><u>nmro_mae</u></b>
annotation	documentation Bloco com dados do medidor

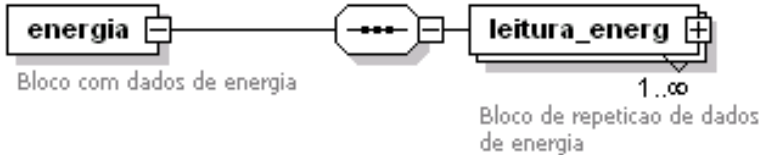
### element coleta/medidor/nmro\_serie

diagram	
type	restriction of <b>xs:string</b>
facets	minLength 1 maxLength 50 whiteSpace collapse
annotation	documentation Numero de serie do medidor

### element coleta/medidor/nmro\_mae

diagram	
type	restriction of <b>xs:string</b>
facets	minLength 14 maxLength 14 whiteSpace collapse
annotation	documentation Numero de identificacao do MAE

### element coleta/energia

diagram	
children	<b><u>leitura_energ</u></b>

attributes	Name const_integ	Type xs:int	Use required	Default	Fixed	Annotation documentation Constante de integracao (Segundos) documentation minInclusive: 1 documentation maxInclusive: 3600
annotation	documentation Bloco com dados de energia					


## element coleta/energia/leitura\_energ

diagram						
children	<b><u>e_atv_in e_atv_out e_rtv_in e_rtv_out</u></b>					
attributes	Name data hora	Type xs:date xs:time	Use required required	Default	Fixed	Annotation documentation Data (yyyy-mm-dd) (energia) documentation Hora (hh:MM:ss) (energia)
annotation	documentation Bloco de repeticao de dados de energia					

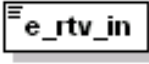
## element coleta/energia/leitura\_energ/e\_atv\_in

diagram						
type	restriction of <b>xs:decimal</b>					
facets	minInclusive 0 maxExclusive 100000000 fractionDigits 3					
annotation	documentation Energia Ativa Recebida (Energia Ativa In) (energia em kWh)					

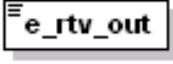
## element coleta/energia/leitura\_energ/e\_atv\_out

diagram	 <p>Energia Ativa Fornecida (Energia Ativa Out) (energia em kWh)</p>
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 100000000 fractionDigits 3
annotation	documentation Energia Ativa Fornecida (Energia Ativa Out) (energia em kWh)

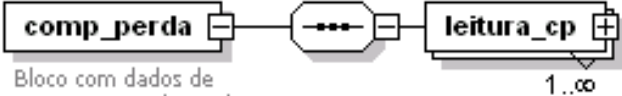
### element coleta/energia/leitura\_energ/e\_rtv\_in

diagram	 <p>Energia Reativa Recebida (Energia Reativa In) (energia em kVArh)</p>
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 100000000 fractionDigits 3
annotation	documentation Energia Reativa Recebida (Energia Reativa In) (energia em kVArh)

### element coleta/energia/leitura\_energ/e\_rtv\_out

diagram	 <p>Energia Reativa Fornecida (Energia Reativa Out) (energia em kVArh)</p>
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 100000000 fractionDigits 3
annotation	documentation Energia Reativa Fornecida (Energia Reativa Out) (energia em kVArh)

### element coleta/comp\_perda

diagram	 <p>Bloco com dados de compensacao de perdas</p> <p>1..∞</p> <p>Bloco de repeticao de dados de compensacao de perdas</p>
children	<b>leitura_cp</b>

attributes	Name	Type	Use	Default	Fixed	Annotation
	const_integ	xs:int	required			documentation Constante de integracao (Segundos) documentation minInclusive: 1 documentation maxInclusive: 3600
annotation	documentation Bloco com dados de compensacao de perdas					


## element coleta/comp\_perda/leitura\_cp

diagram						
children	<b><u>cp_atv_in cp_atv_out cp_rtv_in cp_rtv_out</u></b>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	data	xs:date	required			documentation Data (yyyy-mm-dd) (compensacao de perdas)
	hora	xs:time	required			documentation Hora (hh:MM:ss) (compensacao de perdas)
annotation	documentation Bloco de repeticao de dados de compensacao de perdas					


## element coleta/comp\_perda/leitura\_cp/cp\_atv\_in

diagram	
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 100000000 fractionDigits 3
annotation	documentation Energia Ativa Recebida Compensada (Energia Ativa In Compensada em kWh)


element **coleta/comp\_perda/leitura\_cp/cp\_atv\_out**

diagram	 <p>Energia Ativa Fornecida Compensada (Energia Ativa Out Compensada em kWh)</p>
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 100000000 fractionDigits 3
annotation	documentation Energia Ativa Fornecida Compensada (Energia Ativa Out Compensada em kWh)


element **coleta/comp\_perda/leitura\_cp/cp\_rtv\_in**

diagram	 <p>Energia Reativa Recebida Compensada (Energia Reativa In Compensada em kVArh)</p>
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 100000000 fractionDigits 3
annotation	documentation Energia Reativa Recebida Compensada (Energia Reativa In Compensada em kVArh)

element **coleta/comp\_perda/leitura\_cp/cp\_rtv\_out**

diagram	 <p>Energia Reativa Fornecida Compensada (Energia Reativa Out Compensada em kVArh)</p>
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 100000000 fractionDigits 3
annotation	documentation Energia Reativa Fornecida Compensada (Energia Reativa Out Compensada em kVArh)

element **coleta/engenharia**

diagram	 <p>Bloco com dados de engenharia</p> <p>Bloco de repeticao de dados de engenharia</p>
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children	<b>leitura_eng</b>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	const_integ	xs:int	required			documentation Constante de integracao (Segundos) documentation minInclusive: 1 documentation maxInclusive: 3600
annotation	documentation Bloco com dados de engenharia					

### element coleta/engenharia/leitura\_eng

diagram						
children	<b>tensao corrente</b>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	data	xs:date	required			documentation Data (yyyy-mm-dd) (engenharia)
	hora	xs:time	required			documentation Hora (hh:MM:ss) (engenharia)
annotation	documentation Bloco de repeticao de dados de engenharia					

### element coleta/engenharia/leitura\_eng/tensao


diagram						
children	<b>t_fase_a t_fase_b t_fase_c</b>					
annotation	documentation Bloco de tensao					

### element coleta/engenharia/leitura\_eng/tensao/t\_fase\_a


diagram						
type	restriction of <b>xs:decimal</b>					
facets	minInclusive 0 maxExclusive 1000000 fractionDigits 2					

annotation	documentation Tensao fase A (Volts)
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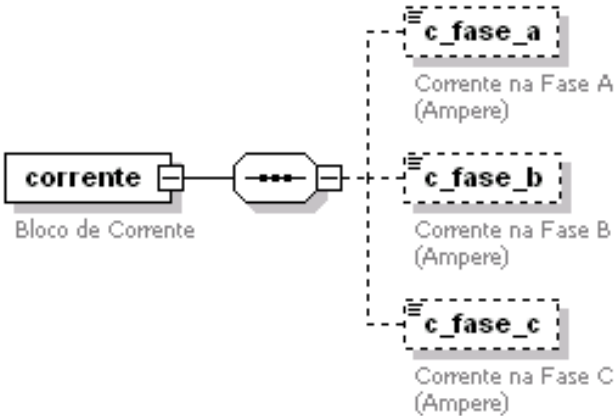
### element coleta/engenharia/leitura\_eng/tensao/t\_fase\_b

diagram	
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 1000000 fractionDigits 2
annotation	documentation Tensao fase B (Volts)

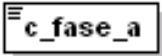
### element coleta/engenharia/leitura\_eng/tensao/t\_fase\_c

diagram	
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 1000000 fractionDigits 2
annotation	documentation Tensao fase C (Volts)


### element coleta/engenharia/leitura\_eng/corrente

diagram	
children	<b><u>c_fase_a</u> <u>c_fase_b</u> <u>c_fase_c</u></b>
annotation	documentation Bloco de Corrente


### element coleta/engenharia/leitura\_eng/corrente/c\_fase\_a

diagram	 <p>Corrente na Fase A (Ampere)</p>
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 100000 fractionDigits 2
annotation	documentation Corrente na Fase A (Ampere)


### element coleta/engenharia/leitura\_eng/corrente/c\_fase\_b

diagram	 <p>Corrente na Fase B (Ampere)</p>
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 100000 fractionDigits 2
annotation	documentation Corrente na Fase B (Ampere)

### element coleta/engenharia/leitura\_eng/corrente/c\_fase\_c

diagram	 <p>Corrente na Fase C (Ampere)</p>
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 100000 fractionDigits 2
annotation	documentation Corrente na Fase C (Ampere)

### element coleta/qualidade

diagram	 <p>Bloco com dados de qualidade</p> <p>Bloco de repeticao de dados de qualidade 1..∞</p>
children	<b>leitura_qlde</b>
annotation	documentation Bloco com dados de qualidade

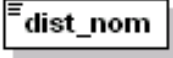
element **coleta/qualidade/leitura\_qlde**

diagram						
children	<b><u>dur_dist</u> <u>dist_nom</u> <u>sag_limit</u> <u>swell_limit</u> <u>val_1</u> <u>val_2</u> <u>val_3</u></b>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	data	xs:date	required			documentation Data (yyyy-mm-dd) (qualidade)
	hora	xs:time	required			documentation Hora (hh:MM:ss) (qualidade)
annotation	documentation Bloco de repeticao de dados de qualidade					


element **coleta/qualidade/leitura\_qlde/dur\_dist**

diagram						
type	restriction of <b>xs:int</b>					
facets	minInclusive 0 maxInclusive 99999					
annotation	documentation Duracao do disturbio (segundos)					


element **coleta/qualidade/leitura\_qlde/dist\_nom**

diagram	 Disturbio nominal (Volts)
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 1000000 fractionDigits 2
annotation	documentation Disturbio nominal (Volts)

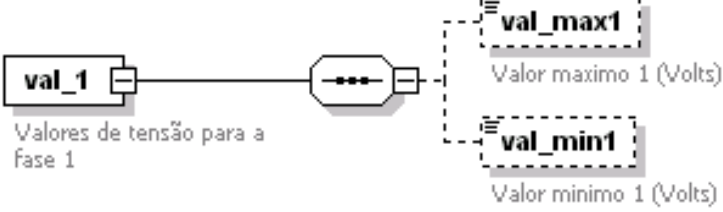
### element coleta/qualidade/leitura\_qlde/sag\_limit

diagram	 Limite de Sag (Volts)
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 1000000 fractionDigits 2
annotation	documentation Limite de Sag (Volts)

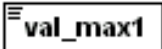
### element coleta/qualidade/leitura\_qlde/swell\_limit

diagram	 Limite de Swell (Volts)
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 1000000 fractionDigits 2
annotation	documentation Limite de Swell (Volts)

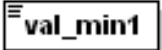
### element coleta/qualidade/leitura\_qlde/val\_1

diagram	 Valores de tensão para a fase 1
children	<b>val_max1</b> <b>val_min1</b>
annotation	documentation Valores de tensão para a fase 1

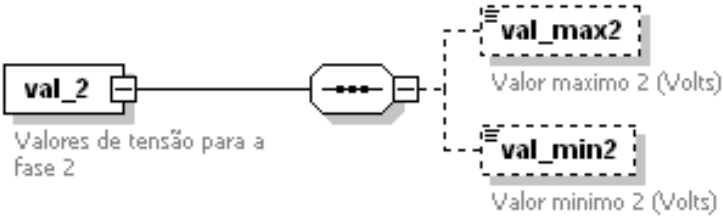
### element coleta/qualidade/leitura\_qlde/val\_1/val\_max1

diagram	 Valor maximo 1 (Volts)
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 1000000 fractionDigits 2
annotation	documentation Valor maximo 1 (Volts)

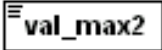
### element coleta/qualidade/leitura\_qlde/val\_1/val\_min1

diagram	 Valor minimo 1 (Volts)
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 1000000 fractionDigits 2
annotation	documentation Valor minimo 1 (Volts)

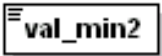
### element coleta/qualidade/leitura\_qlde/val\_2

diagram	 Valores de tensão para a fase 2
children	<u><a href="#">val_max2</a></u> <u><a href="#">val_min2</a></u>
annotation	documentation Valores de tensão para a fase 2

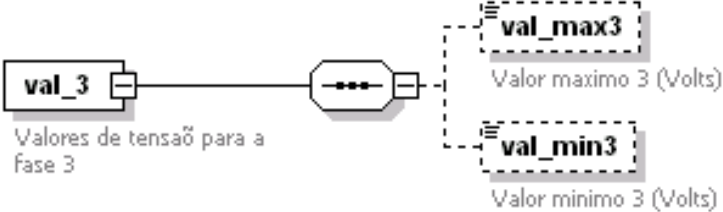
### element coleta/qualidade/leitura\_qlde/val\_2/val\_max2

diagram	 Valor maximo 2 (Volts)
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 1000000 fractionDigits 2
annotation	documentation Valor maximo 2 (Volts)

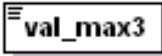
### element coleta/qualidade/leitura\_qlde/val\_2/val\_min2

diagram	 Valor minimo 2 (Volts)
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 1000000 fractionDigits 2
annotation	documentation Valor minimo 2 (Volts)

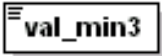
### element coleta/qualidade/leitura\_qlde/val\_3

diagram	 Valores de tensão para a fase 3
children	<a href="#">val_max3</a> <a href="#">val_min3</a>
annotation	documentation Valores de tensão para a fase 3

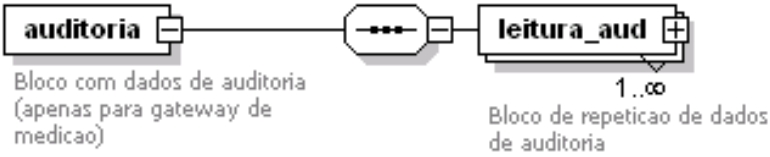
### element coleta/qualidade/leitura\_qlde/val\_3/val\_max3

diagram	 Valor maximo 3 (Volts)
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 1000000 fractionDigits 2
annotation	documentation Valor maximo 3 (Volts)

### element coleta/qualidade/leitura\_qlde/val\_3/val\_min3

diagram	 Valor minimo 3 (Volts)
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 1000000 fractionDigits 2
annotation	documentation Valor minimo 3 (Volts)

### element coleta/auditoria

<p>diagram</p>																																																												
<p>children</p>	<p><b>leitura_aud</b></p>																																																											
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>const_integ</td> <td>xs:int</td> <td>required</td> <td></td> <td></td> <td>documentation Constante de integracao (Segundos)</td> </tr> <tr> <td>rtp</td> <td>xs:decimal</td> <td>optional</td> <td></td> <td></td> <td>documentation minInclusive: 1 documentation maxInclusive: 3600</td> </tr> <tr> <td>tp_pri</td> <td>xs:int</td> <td>optional</td> <td></td> <td></td> <td>documentation Relacao do TP documentation minInclusive: 0 documentation maxExclusive: 1000000 documentation fractionDigits: 2</td> </tr> <tr> <td>tp_sec</td> <td>xs:decimal</td> <td>optional</td> <td></td> <td></td> <td>documentation Tensao Primaria do TP (Volts) documentation minInclusive: 0 documentation maxInclusive: 999999</td> </tr> <tr> <td>rtc</td> <td>xs:int</td> <td>optional</td> <td></td> <td></td> <td>documentation Tensao Secundaria do TP (Volts) documentation minInclusive: 0 documentation maxExclusive: 1000 documentation fractionDigits: 2</td> </tr> <tr> <td>tc_pri</td> <td>xs:int</td> <td>optional</td> <td></td> <td></td> <td>documentation Relacao do TC documentation minInclusive: 0 documentation maxInclusive: 9999</td> </tr> <tr> <td>tc_sec</td> <td>xs:int</td> <td>optional</td> <td></td> <td></td> <td>documentation Corrente Primaria do TC (Ampere) documentation minInclusive: 0 documentation maxInclusive: 9999</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>documentation Corrente Secundaria do TC (Ampere) documentation minInclusive: 0 documentation maxInclusive: 99</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	const_integ	xs:int	required			documentation Constante de integracao (Segundos)	rtp	xs:decimal	optional			documentation minInclusive: 1 documentation maxInclusive: 3600	tp_pri	xs:int	optional			documentation Relacao do TP documentation minInclusive: 0 documentation maxExclusive: 1000000 documentation fractionDigits: 2	tp_sec	xs:decimal	optional			documentation Tensao Primaria do TP (Volts) documentation minInclusive: 0 documentation maxInclusive: 999999	rtc	xs:int	optional			documentation Tensao Secundaria do TP (Volts) documentation minInclusive: 0 documentation maxExclusive: 1000 documentation fractionDigits: 2	tc_pri	xs:int	optional			documentation Relacao do TC documentation minInclusive: 0 documentation maxInclusive: 9999	tc_sec	xs:int	optional			documentation Corrente Primaria do TC (Ampere) documentation minInclusive: 0 documentation maxInclusive: 9999						documentation Corrente Secundaria do TC (Ampere) documentation minInclusive: 0 documentation maxInclusive: 99					
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					documentation Corrente Secundaria do TC (Ampere) documentation minInclusive: 0 documentation maxInclusive: 99																																																							
<p>annotation</p>	<p>documentation Bloco com dados de auditoria (apenas para gateway de medicao)</p>																																																											

element **coleta/auditoria/leitura\_aud**

<p>diagram</p>	Empty diagram area					
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	<p>The diagram illustrates a data flow from a central block labeled 'leitura_aud' (Bloco de repeticao de dados de auditoria) to four distinct energy audit elements. The elements are: 'aud_ativa_in' (Energia Ativa Recebida), 'aud_ativa_out' (Energia Ativa Fomecida), 'aud_cp_atv_in' (Energia Ativa Recebida Compensada), and 'aud_cp_atv_out' (Energia Ativa Fomecida Compensada). The connections are shown as lines branching from the central block to each element.</p>																		
children	<b><u>aud_ativa_in aud_ativa_out aud_cp_atv_in aud_cp_atv_out</u></b>																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>data</td> <td>xs:date</td> <td>required</td> <td></td> <td></td> <td>documentation Data (yyyy-mm-dd) (auditoria)</td> </tr> <tr> <td>hora</td> <td>xs:time</td> <td>required</td> <td></td> <td></td> <td>documentation Hora (hh:MM:ss) (auditoria)</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	data	xs:date	required			documentation Data (yyyy-mm-dd) (auditoria)	hora	xs:time	required			documentation Hora (hh:MM:ss) (auditoria)
Name	Type	Use	Default	Fixed	Annotation														
data	xs:date	required			documentation Data (yyyy-mm-dd) (auditoria)														
hora	xs:time	required			documentation Hora (hh:MM:ss) (auditoria)														
annotation	documentation Bloco de repeticao de dados de auditoria																		

element **coleta/auditoria/leitura\_aud/aud\_ativa\_in**

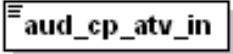
diagram	<p>The diagram shows the 'aud_ativa_in' element, representing 'Energia Ativa Recebida (Energia Ativa In) (auditoria em kWh)'.</p>
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 100000000 fractionDigits 3
annotation	documentation Energia Ativa Recebida (Energia Ativa In) (auditoria em kWh)

element **coleta/auditoria/leitura\_aud/aud\_ativa\_out**

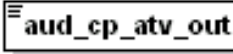
diagram	<p>The diagram shows the 'aud_ativa_out' element, representing 'Energia Ativa Fomecida (Energia Ativa Out) (auditoria em kWh)'.</p>
type	restriction of <b>xs:decimal</b>

facets	minInclusive 0 maxExclusive 100000000 fractionDigits 3
annotation	documentation Energia Ativa Fornecida (Energia Ativa Out) (auditoria em kWh) documentation Energia Ativa Fornecida (Energia Ativa Out) (auditoria em kWh)

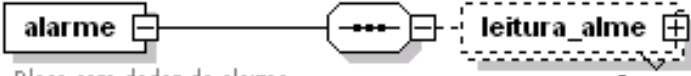
### element coleta/auditoria/leitura\_aud/aud\_cp\_atv\_in

diagram	 <p>aud_cp_atv_in</p> <p>Energia Ativa Recebida Compensada (Energia Ativa In Compensada) (auditoria em kWh)</p>
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 100000000 fractionDigits 3
annotation	documentation Energia Ativa Recebida Compensada (Energia Ativa In Compensada) (auditoria em kWh)

### element coleta/auditoria/leitura\_aud/aud\_cp\_atv\_out

diagram	 <p>aud_cp_atv_out</p> <p>Energia Ativa Fornecida Compensada (Energia Ativa Out Compensada) (auditoria em kWh)</p>
type	restriction of <b>xs:decimal</b>
facets	minInclusive 0 maxExclusive 100000000 fractionDigits 3
annotation	documentation Energia Ativa Fornecida Compensada (Energia Ativa Out Compensada) (auditoria em kWh)

### element coleta/alarme

diagram	 <p>alarme</p> <p>Bloco com dados de alarme</p> <p>leitura_alme</p> <p>0..∞</p> <p>Bloco de repeticao de dados de alarme</p>
children	<b>leitura_alme</b>
annotation	documentation Bloco com dados de alarme

### element coleta/alarme/leitura\_alme

diagram						
children	<b><u>prioridade causa causa_valor efeito efeito_valor</u></b>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	data	xs:date	required			documentation Data (yyyy-mm-dd) (alarme)
	hora	xs:time	required			documentation Hora (hh:MM:ss) (alarme)
annotation	documentation Bloco de repeticao de dados de alarme					

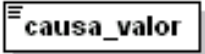
### element coleta/alarme/leitura\_alme/prioridade

diagram						
type	restriction of <b>xs:int</b>					
facets	minInclusive 0 maxInclusive 999					
annotation	documentation Prioridade do evento					

### element coleta/alarme/leitura\_alme/causa

diagram						
type	restriction of <b>xs:string</b>					
facets	minLength 0 maxLength 50					
annotation	documentation Causa do Evento					

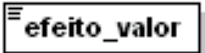
### element coleta/alarme/leitura\_alme/causa\_valor

diagram	 Valor da causa do Evento
type	restriction of <b>xs:string</b>
facets	minLength 1 maxLength 50 whiteSpace preserve
annotation	documentation Valor da causa do Evento

### element coleta/alarme/leitura\_alme/efeito

diagram	 Efeito do Evento
type	restriction of <b>xs:string</b>
facets	minLength 0 maxLength 50
annotation	documentation Efeito do Evento

### element coleta/alarme/leitura\_alme/efeito\_valor

diagram	 Valor do efeito do evento
type	restriction of <b>xs:string</b>
facets	minLength 1 maxLength 50 whiteSpace preserve
annotation	documentation Valor do efeito do evento

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