

### 3.1 Schema of L2A GIPP FILE

GIPPs are configured in an XML file named L2A\_GIPP.xml, located in the <cfg> subdirectory of the Sen2Cor home directory which is specified by the environment variable \$SEN2COR\_HOME, and can be configured by the user (exceptions which should not be configured by standard users are marked with an asterisk (\*)). For each processed Level 2A tile, the GIPP xml file will be renamed to:

- S2A\_USER\_GIP\_L2A\_TL\_<TILE\_ID> (up to PSD V 13.1)
- GIP\_TL (for PSD V.14.2 and above)

and subsequently copied into the AUX\_DATA subfolder of the corresponding granule for documentation purposes.

schema location: [L2A\\_GIPP.xsd](#)

Elements

[AC Scheme](#)

[Adj Km](#)

[Aerosol Type](#)

[Altitude](#)

[Atmospheric Correction](#)

[BRDF Correction](#)

[BRDF Lower Bound](#)

[Calibration](#)

[Cirrus Correction](#)

[Common Section](#)

[DEM Directory](#)

[DEM Reference](#)

[DEM Unit](#)

[DS Scheme 1C](#)

[DS Scheme 2A](#)

[Filters](#)

[Flags](#)

[GIPP Scheme](#)

[Level-2A Ground Image Processing Parameter](#)

[Lib Dir](#)

[Log Level](#)

[Look Up Tables](#)

[Median Filter](#)

[Mid Latitude](#)

[Nr Processes](#)

[Ozone Content](#)

[PSD Scheme](#)

[SC Scheme](#)

[Scene Classification](#)

[Smooth WV Map](#)

[Target Directory](#)

[Tile Scheme 1C](#)

[Tile Scheme 2A](#)

[UP Scheme 1C](#)

[UP Scheme 2A](#)

[VIS Update Mode](#)

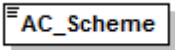
[Visibility](#)

[WV Correction](#)

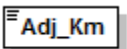
[WV Threshold Cirrus](#)

[WV Watermask](#)

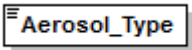
**element AC\_Scheme**

| diagram    |   |            |       |            |         |             |  |
|------------|--|------------|-------|------------|---------|-------------|--|
| type       | restriction of <b>xs:string</b>  |            |       |            |         |             |  |
| properties | content simple   |            |       |            |         |             |  |
| used by    | element <a href="#">Common Section</a>   |            |       |            |         |             |  |
| facets     | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>L2(.)+\.xsd</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | pattern | L2(.)+\.xsd |  |
| Kind       | Value  | Annotation |       |            |         |             |  |
| pattern    | L2(.)+\.xsd  |            |       |            |         |             |  |

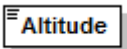
**element Adj\_Km**

| diagram      |   |            |       |            |              |   |  |              |    |  |
|--------------|--|------------|-------|------------|--------------|---|--|--------------|----|--|
| type         | restriction of <b>xs:decimal</b>   |            |       |            |              |   |  |              |    |  |
| properties   | content simple   |            |       |            |              |   |  |              |    |  |
| used by      | element <a href="#">Calibration</a>  |            |       |            |              |   |  |              |    |  |
| facets       | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>minInclusive</td> <td>0</td> <td></td> </tr> <tr> <td>maxInclusive</td> <td>10</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | minInclusive | 0 |  | maxInclusive | 10 |  |
| Kind         | Value  | Annotation |       |            |              |   |  |              |    |  |
| minInclusive | 0  |            |       |            |              |   |  |              |    |  |
| maxInclusive | 10   |            |       |            |              |   |  |              |    |  |

**element Aerosol\_Type**

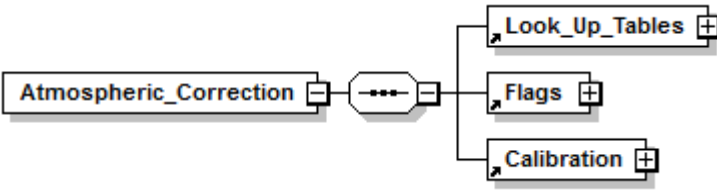
| diagram     |   |            |       |            |             |       |  |             |          |  |             |      |  |
|-------------|--|------------|-------|------------|-------------|-------|--|-------------|----------|--|-------------|------|--|
| type        | restriction of <b>xs:string</b>  |            |       |            |             |       |  |             |          |  |             |      |  |
| properties  | content simple   |            |       |            |             |       |  |             |          |  |             |      |  |
| used by     | element <a href="#">Look Up Tables</a>   |            |       |            |             |       |  |             |          |  |             |      |  |
| facets      | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>RURAL</td> <td></td> </tr> <tr> <td>enumeration</td> <td>MARITIME</td> <td></td> </tr> <tr> <td>enumeration</td> <td>AUTO</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | enumeration | RURAL |  | enumeration | MARITIME |  | enumeration | AUTO |  |
| Kind        | Value  | Annotation |       |            |             |       |  |             |          |  |             |      |  |
| enumeration | RURAL  |            |       |            |             |       |  |             |          |  |             |      |  |
| enumeration | MARITIME   |            |       |            |             |       |  |             |          |  |             |      |  |
| enumeration | AUTO   |            |       |            |             |       |  |             |          |  |             |      |  |

**element Altitude**


| diagram      |    |            |       |            |              |   |  |
|--------------|---|------------|-------|------------|--------------|---|--|
| type         | restriction of <b>xs:decimal</b>  |            |       |            |              |   |  |
| properties   | content simple  |            |       |            |              |   |  |
| used by      | element <a href="#">Calibration</a>   |            |       |            |              |   |  |
| facets       | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>minInclusive</td> <td>0</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | minInclusive | 0 |  |
| Kind         | Value   | Annotation |       |            |              |   |  |
| minInclusive | 0   |            |       |            |              |   |  |

|  |                  |
|--|------------------|
|  | maxInclusive 2.5 |
|--|------------------|


**element Atmospheric\_Correction**

|            |  |
|------------|--|
| diagram    |  |
| properties | content complex  |
| children   | <a href="#">Look Up Tables</a> <a href="#">Flags</a> <a href="#">Calibration</a>   |
| used by    | element <a href="#">Level-2A Ground Image Processing Parameter</a>                 |

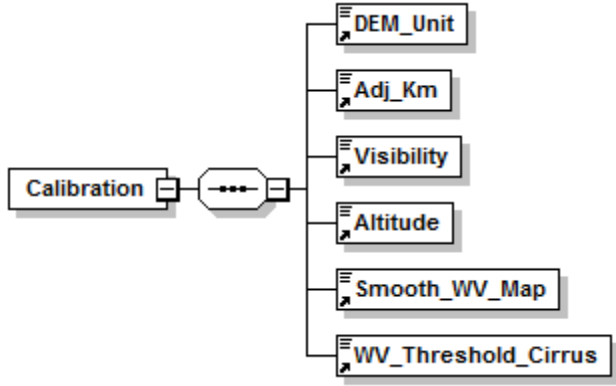
**element BRDF\_Correction**

| diagram     |   |            |       |            |             |   |  |             |   |  |             |   |  |             |    |  |             |    |  |             |    |  |             |    |  |
|-------------|--|------------|-------|------------|-------------|---|--|-------------|---|--|-------------|---|--|-------------|----|--|-------------|----|--|-------------|----|--|-------------|----|--|
| type        | restriction of <b>xs:byte</b>  |            |       |            |             |   |  |             |   |  |             |   |  |             |    |  |             |    |  |             |    |  |             |    |  |
| properties  | content simple   |            |       |            |             |   |  |             |   |  |             |   |  |             |    |  |             |    |  |             |    |  |             |    |  |
| used by     | element <a href="#">Flags</a>  |            |       |            |             |   |  |             |   |  |             |   |  |             |    |  |             |    |  |             |    |  |             |    |  |
| facets      | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>0</td> <td></td> </tr> <tr> <td>enumeration</td> <td>1</td> <td></td> </tr> <tr> <td>enumeration</td> <td>2</td> <td></td> </tr> <tr> <td>enumeration</td> <td>11</td> <td></td> </tr> <tr> <td>enumeration</td> <td>12</td> <td></td> </tr> <tr> <td>enumeration</td> <td>22</td> <td></td> </tr> <tr> <td>enumeration</td> <td>21</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | enumeration | 0 |  | enumeration | 1 |  | enumeration | 2 |  | enumeration | 11 |  | enumeration | 12 |  | enumeration | 22 |  | enumeration | 21 |  |
| Kind        | Value  | Annotation |       |            |             |   |  |             |   |  |             |   |  |             |    |  |             |    |  |             |    |  |             |    |  |
| enumeration | 0  |            |       |            |             |   |  |             |   |  |             |   |  |             |    |  |             |    |  |             |    |  |             |    |  |
| enumeration | 1  |            |       |            |             |   |  |             |   |  |             |   |  |             |    |  |             |    |  |             |    |  |             |    |  |
| enumeration | 2  |            |       |            |             |   |  |             |   |  |             |   |  |             |    |  |             |    |  |             |    |  |             |    |  |
| enumeration | 11   |            |       |            |             |   |  |             |   |  |             |   |  |             |    |  |             |    |  |             |    |  |             |    |  |
| enumeration | 12   |            |       |            |             |   |  |             |   |  |             |   |  |             |    |  |             |    |  |             |    |  |             |    |  |
| enumeration | 22   |            |       |            |             |   |  |             |   |  |             |   |  |             |    |  |             |    |  |             |    |  |             |    |  |
| enumeration | 21   |            |       |            |             |   |  |             |   |  |             |   |  |             |    |  |             |    |  |             |    |  |             |    |  |


**element BRDF\_Lower\_Bound**

| diagram      |   |            |       |            |              |     |  |              |      |  |
|--------------|--|------------|-------|------------|--------------|-----|--|--------------|------|--|
| type         | restriction of <b>xs:decimal</b>   |            |       |            |              |     |  |              |      |  |
| properties   | content simple   |            |       |            |              |     |  |              |      |  |
| used by      | element <a href="#">Flags</a>  |            |       |            |              |     |  |              |      |  |
| facets       | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>minInclusive</td> <td>0.1</td> <td></td> </tr> <tr> <td>maxInclusive</td> <td>0.25</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | minInclusive | 0.1 |  | maxInclusive | 0.25 |  |
| Kind         | Value  | Annotation |       |            |              |     |  |              |      |  |
| minInclusive | 0.1  |            |       |            |              |     |  |              |      |  |
| maxInclusive | 0.25   |            |       |            |              |     |  |              |      |  |

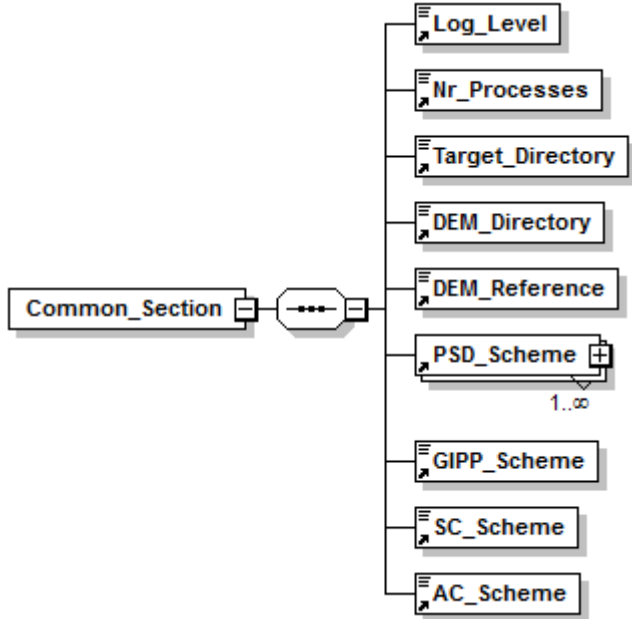
**element Calibration**

|            |   |
|------------|---|
| diagram    |  <p>The diagram shows a 'Calibration' element box connected to a central hub, which then branches out to six sub-elements: DEM_Unit, Adj_Km, Visibility, Altitude, Smooth_WV_Map, and WV_Threshold_Cirrus.</p> |
| properties | content complex   |
| children   | <a href="#">DEM_Unit</a> <a href="#">Adj_Km</a> <a href="#">Visibility</a> <a href="#">Altitude</a> <a href="#">Smooth_WV_Map</a> <a href="#">WV_Threshold_Cirrus</a>   |
| used by    | element <a href="#">Atmospheric Correction</a>  |


**element Cirrus\_Correction**

| diagram     |  <p>The diagram shows a single 'Cirrus_Correction' element box.</p>   |            |       |            |             |   |  |             |   |  |
|-------------|---|------------|-------|------------|-------------|---|--|-------------|---|--|
| type        | restriction of <b>xs:byte</b>   |            |       |            |             |   |  |             |   |  |
| properties  | content simple  |            |       |            |             |   |  |             |   |  |
| used by     | element <a href="#">Flags</a>   |            |       |            |             |   |  |             |   |  |
| facets      | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>0</td> <td></td> </tr> <tr> <td>enumeration</td> <td>1</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | enumeration | 0 |  | enumeration | 1 |  |
| Kind        | Value   | Annotation |       |            |             |   |  |             |   |  |
| enumeration | 0   |            |       |            |             |   |  |             |   |  |
| enumeration | 1   |            |       |            |             |   |  |             |   |  |

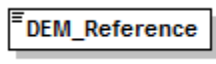
element **Common\_Section**

|            |  |
|------------|--|
| diagram    |   |
| properties | content complex  |
| children   | <a href="#">Log_Level</a> <a href="#">Nr_Processes</a> <a href="#">Target_Directory</a> <a href="#">DEM_Directory</a> <a href="#">DEM_Reference</a> <a href="#">PSD_Scheme</a> <a href="#">GIPP_Scheme</a> <a href="#">SC_Scheme</a> <a href="#">AC_Scheme</a> |
| used by    | element <a href="#">Level-2A Ground Image Processing Parameter</a>   |

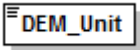
 element **DEM\_Directory**

|            |   |
|------------|---|
| diagram    |  |
| type       | restriction of <b>xs:string</b>   |
| properties | content simple  |
| used by    | element <a href="#">Common_Section</a>  |

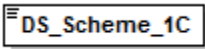
 element **DEM\_Reference**

|            |   |
|------------|---|
| diagram    |  |
| type       | <b>xs:anyURI</b>  |
| properties | content simple  |
| used by    | element <a href="#">Common_Section</a>  |

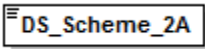
**element DEM\_Unit**

| diagram     |   |            |       |            |             |   |  |             |   |  |             |   |  |
|-------------|--|------------|-------|------------|-------------|---|--|-------------|---|--|-------------|---|--|
| type        | restriction of <b>xs:byte</b>  |            |       |            |             |   |  |             |   |  |             |   |  |
| properties  | content simple   |            |       |            |             |   |  |             |   |  |             |   |  |
| used by     | element <a href="#">Calibration</a>  |            |       |            |             |   |  |             |   |  |             |   |  |
| facets      | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>0</td> <td></td> </tr> <tr> <td>enumeration</td> <td>1</td> <td></td> </tr> <tr> <td>enumeration</td> <td>2</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | enumeration | 0 |  | enumeration | 1 |  | enumeration | 2 |  |
| Kind        | Value  | Annotation |       |            |             |   |  |             |   |  |             |   |  |
| enumeration | 0  |            |       |            |             |   |  |             |   |  |             |   |  |
| enumeration | 1  |            |       |            |             |   |  |             |   |  |             |   |  |
| enumeration | 2  |            |       |            |             |   |  |             |   |  |             |   |  |

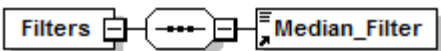
**element DS\_Scheme\_1C**

| diagram    |   |            |       |            |         |             |  |
|------------|--|------------|-------|------------|---------|-------------|--|
| type       | restriction of <b>xs:string</b>  |            |       |            |         |             |  |
| properties | content simple   |            |       |            |         |             |  |
| used by    | element <a href="#">PSD_Scheme</a>   |            |       |            |         |             |  |
| facets     | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>S2(.+)\.xsd</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | pattern | S2(.+)\.xsd |  |
| Kind       | Value  | Annotation |       |            |         |             |  |
| pattern    | S2(.+)\.xsd  |            |       |            |         |             |  |

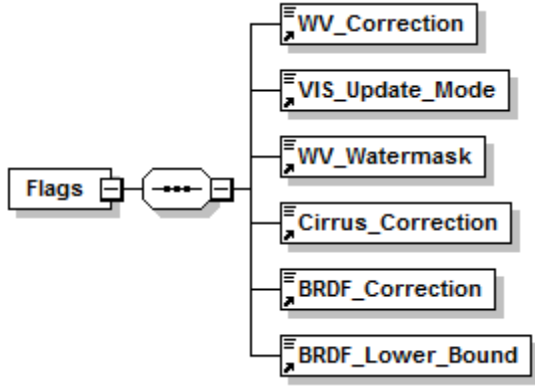
**element DS\_Scheme\_2A**

| diagram    |   |            |       |            |         |             |  |
|------------|--|------------|-------|------------|---------|-------------|--|
| type       | restriction of <b>xs:string</b>  |            |       |            |         |             |  |
| properties | content simple   |            |       |            |         |             |  |
| used by    | element <a href="#">PSD_Scheme</a>   |            |       |            |         |             |  |
| facets     | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>S2(.+)\.xsd</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | pattern | S2(.+)\.xsd |  |
| Kind       | Value  | Annotation |       |            |         |             |  |
| pattern    | S2(.+)\.xsd  |            |       |            |         |             |  |

**element Filters**

|            |   |
|------------|---|
| diagram    |  |
| properties | content complex   |
| children   | <a href="#">Median_Filter</a>   |
| used by    | element <a href="#">Scene Classification</a>  |

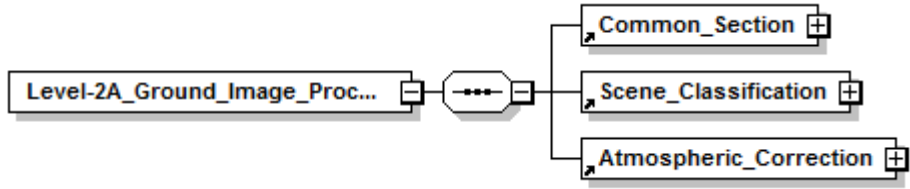
**element Flags**

|            |   |
|------------|---|
| diagram    |    |
| properties | content complex   |
| children   | <a href="#">WV_Correction</a> <a href="#">VIS_Update_Mode</a> <a href="#">WV_Watermask</a> <a href="#">Cirrus_Correction</a> <a href="#">BRDF_Correction</a> <a href="#">BRDF_Lower_Bound</a> |
| used by    | element <a href="#">Atmospheric_Correction</a>  |

**element GIPP\_Scheme**

|            |  |
|------------|--|
| diagram    |  |
| type       | restriction of xs:string   |
| properties | content simple   |
| used by    | element <a href="#">Common_Section</a>   |
| facets     | Kind Value Annotation<br>pattern L2(.)+\.xsd                                       |

**element Level-2A\_Ground\_Image\_Processing\_Parameter**

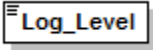
|            |  |
|------------|--|
| diagram    |                        |
| properties | content complex  |
| children   | <a href="#">Common_Section</a> <a href="#">Scene_Classification</a> <a href="#">Atmospheric_Correction</a> |

**element Lib\_Dir**

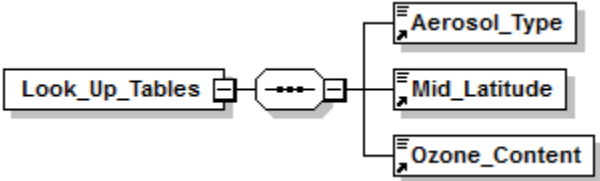
|         |   |
|---------|---|
| diagram |  |
|---------|---|

| type        | restriction of <b>xs:string</b>  |            |       |            |             |     |  |
|-------------|--|------------|-------|------------|-------------|-----|--|
| properties  | content simple   |            |       |            |             |     |  |
| facets      | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>lib</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | enumeration | lib |  |
| Kind        | Value  | Annotation |       |            |             |     |  |
| enumeration | lib  |            |       |            |             |     |  |


**element Log\_Level**

| diagram     |   |            |       |            |             |      |  |             |        |  |             |       |  |             |         |  |             |       |  |             |          |  |
|-------------|--|------------|-------|------------|-------------|------|--|-------------|--------|--|-------------|-------|--|-------------|---------|--|-------------|-------|--|-------------|----------|--|
| type        | restriction of <b>xs:string</b>  |            |       |            |             |      |  |             |        |  |             |       |  |             |         |  |             |       |  |             |          |  |
| properties  | content simple   |            |       |            |             |      |  |             |        |  |             |       |  |             |         |  |             |       |  |             |          |  |
| used by     | element <a href="#">Common Section</a>   |            |       |            |             |      |  |             |        |  |             |       |  |             |         |  |             |       |  |             |          |  |
| facets      | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>INFO</td> <td></td> </tr> <tr> <td>enumeration</td> <td>NOTSET</td> <td></td> </tr> <tr> <td>enumeration</td> <td>DEBUG</td> <td></td> </tr> <tr> <td>enumeration</td> <td>WARNING</td> <td></td> </tr> <tr> <td>enumeration</td> <td>ERROR</td> <td></td> </tr> <tr> <td>enumeration</td> <td>CRITICAL</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | enumeration | INFO |  | enumeration | NOTSET |  | enumeration | DEBUG |  | enumeration | WARNING |  | enumeration | ERROR |  | enumeration | CRITICAL |  |
| Kind        | Value  | Annotation |       |            |             |      |  |             |        |  |             |       |  |             |         |  |             |       |  |             |          |  |
| enumeration | INFO   |            |       |            |             |      |  |             |        |  |             |       |  |             |         |  |             |       |  |             |          |  |
| enumeration | NOTSET   |            |       |            |             |      |  |             |        |  |             |       |  |             |         |  |             |       |  |             |          |  |
| enumeration | DEBUG  |            |       |            |             |      |  |             |        |  |             |       |  |             |         |  |             |       |  |             |          |  |
| enumeration | WARNING  |            |       |            |             |      |  |             |        |  |             |       |  |             |         |  |             |       |  |             |          |  |
| enumeration | ERROR  |            |       |            |             |      |  |             |        |  |             |       |  |             |         |  |             |       |  |             |          |  |
| enumeration | CRITICAL   |            |       |            |             |      |  |             |        |  |             |       |  |             |         |  |             |       |  |             |          |  |

**element Look\_Up\_Tables**

|            |   |
|------------|---|
| diagram    |      |
| properties | content complex   |
| children   | <a href="#">Aerosol_Type</a> <a href="#">Mid_Latitude</a> <a href="#">Ozone_Content</a> |
| used by    | element <a href="#">Atmospheric Correction</a>  |


**element Median\_Filter**

| diagram      |    |            |       |            |              |   |  |
|--------------|---|------------|-------|------------|--------------|---|--|
| type         | restriction of <b>xs:byte</b>   |            |       |            |              |   |  |
| properties   | content simple  |            |       |            |              |   |  |
| used by      | element <a href="#">Filters</a>   |            |       |            |              |   |  |
| facets       | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>minInclusive</td> <td>0</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | minInclusive | 0 |  |
| Kind         | Value   | Annotation |       |            |              |   |  |
| minInclusive | 0   |            |       |            |              |   |  |

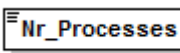


|  |                 |
|--|-----------------|
|  | maxInclusive 10 |
|--|-----------------|

### element Mid\_Latitude

| diagram     |    |            |       |            |             |        |  |             |        |  |             |      |  |
|-------------|---|------------|-------|------------|-------------|--------|--|-------------|--------|--|-------------|------|--|
| type        | restriction of <b>xs:string</b>   |            |       |            |             |        |  |             |        |  |             |      |  |
| properties  | content simple  |            |       |            |             |        |  |             |        |  |             |      |  |
| used by     | element <a href="#">Look Up Tables</a>  |            |       |            |             |        |  |             |        |  |             |      |  |
| facets      | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>SUMMER</td> <td></td> </tr> <tr> <td>enumeration</td> <td>WINTER</td> <td></td> </tr> <tr> <td>enumeration</td> <td>AUTO</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | enumeration | SUMMER |  | enumeration | WINTER |  | enumeration | AUTO |  |
| Kind        | Value   | Annotation |       |            |             |        |  |             |        |  |             |      |  |
| enumeration | SUMMER  |            |       |            |             |        |  |             |        |  |             |      |  |
| enumeration | WINTER  |            |       |            |             |        |  |             |        |  |             |      |  |
| enumeration | AUTO  |            |       |            |             |        |  |             |        |  |             |      |  |

### element Nr\_Processes

|            |   |
|------------|---|
| diagram    |    |
| type       | union of (restriction of <b>xs:string</b> , restriction of <b>xs:unsignedByte</b> ) |
| properties | content simple  |
| used by    | element <a href="#">Common Section</a>  |

### element Ozone\_Content

| diagram     |   |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
|-------------|--|------------|-------|------------|-------------|---|--|-------------|---|--|-------------|---|--|-------------|---|--|-------------|---|--|-------------|---|--|-------------|---|--|-------------|---|--|-------------|---|--|-------------|---|--|-------------|---|--|
| type        | restriction of <b>xs:string</b>  |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
| properties  | content simple   |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
| used by     | element <a href="#">Look Up Tables</a>   |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
| facets      | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr><td>enumeration</td><td>0</td><td></td></tr> <tr><td>enumeration</td><td>f</td><td></td></tr> <tr><td>enumeration</td><td>g</td><td></td></tr> <tr><td>enumeration</td><td>h</td><td></td></tr> <tr><td>enumeration</td><td>i</td><td></td></tr> <tr><td>enumeration</td><td>j</td><td></td></tr> <tr><td>enumeration</td><td>k</td><td></td></tr> <tr><td>enumeration</td><td>t</td><td></td></tr> <tr><td>enumeration</td><td>u</td><td></td></tr> <tr><td>enumeration</td><td>v</td><td></td></tr> <tr><td>enumeration</td><td>w</td><td></td></tr> </tbody> </table> | Kind       | Value | Annotation | enumeration | 0 |  | enumeration | f |  | enumeration | g |  | enumeration | h |  | enumeration | i |  | enumeration | j |  | enumeration | k |  | enumeration | t |  | enumeration | u |  | enumeration | v |  | enumeration | w |  |
| Kind        | Value  | Annotation |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
| enumeration | 0  |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
| enumeration | f  |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
| enumeration | g  |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
| enumeration | h  |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
| enumeration | i  |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
| enumeration | j  |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
| enumeration | k  |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
| enumeration | t  |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
| enumeration | u  |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
| enumeration | v  |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |
| enumeration | w  |            |       |            |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |             |   |  |

|             |   |
|-------------|---|
| enumeration | x |
| enumeration | y |

**element PSD\_Scheme**

|            |   |                                |     |         |       |            |
|------------|---|--------------------------------|-----|---------|-------|------------|
| diagram    |   |                                |     |         |       |            |
| properties | content   | complex                        |     |         |       |            |
| children   | <a href="#">UP_Scheme_1C</a> <a href="#">UP_Scheme_2A</a> <a href="#">Tile_Scheme_1C</a> <a href="#">Tile_Scheme_2A</a> <a href="#">DS_Scheme_1C</a> <a href="#">DS_Scheme_2A</a> |                                |     |         |       |            |
| used by    | element   | <a href="#">Common_Section</a> |     |         |       |            |
| attributes | Name  | Type                           | Use | Default | Fixed | Annotation |
|            | <a href="#">PSD_Version</a>   | derived by:<br>xs:string       |     |         |       |            |
|            | <a href="#">PSD_Reference</a>   | derived by:<br>xs:string       |     |         |       |            |

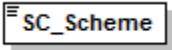
**attribute PSD\_Scheme/@PSD\_Version**

|        |                          |            |            |
|--------|--------------------------|------------|------------|
| type   | restriction of xs:string |            |            |
| facets | Kind                     | Value      | Annotation |
|        | length                   | 2          |            |
|        | pattern                  | [0-9][0-9] |            |

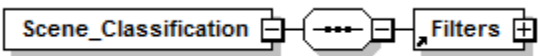
**attribute PSD\_Scheme/@PSD\_Reference**

|        |                          |        |            |
|--------|--------------------------|--------|------------|
| type   | restriction of xs:string |        |            |
| facets | Kind                     | Value  | Annotation |
|        | pattern                  | S2(.)+ |            |

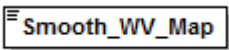
**element SC\_Scheme**

| diagram    |   |            |       |            |         |             |  |
|------------|--|------------|-------|------------|---------|-------------|--|
| type       | restriction of <b>xs:string</b>  |            |       |            |         |             |  |
| properties | content simple   |            |       |            |         |             |  |
| used by    | element <a href="#">Common Section</a>   |            |       |            |         |             |  |
| facets     | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>L2(.\+).xsd</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | pattern | L2(.\+).xsd |  |
| Kind       | Value  | Annotation |       |            |         |             |  |
| pattern    | L2(.\+).xsd  |            |       |            |         |             |  |

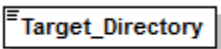
**element Scene\_Classification**

|            |   |
|------------|---|
| diagram    |  |
| properties | content complex   |
| children   | <a href="#">Filters</a>   |
| used by    | element <a href="#">Level-2A Ground Image Processing Parameter</a>                |

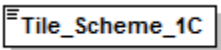
**element Smooth\_WV\_Map**

| diagram      |    |            |       |            |              |   |  |              |     |  |
|--------------|---|------------|-------|------------|--------------|---|--|--------------|-----|--|
| type         | restriction of <b>xs:decimal</b>  |            |       |            |              |   |  |              |     |  |
| properties   | content simple  |            |       |            |              |   |  |              |     |  |
| used by      | element <a href="#">Calibration</a>   |            |       |            |              |   |  |              |     |  |
| facets       | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>minInclusive</td> <td>0</td> <td></td> </tr> <tr> <td>maxInclusive</td> <td>300</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | minInclusive | 0 |  | maxInclusive | 300 |  |
| Kind         | Value   | Annotation |       |            |              |   |  |              |     |  |
| minInclusive | 0   |            |       |            |              |   |  |              |     |  |
| maxInclusive | 300   |            |       |            |              |   |  |              |     |  |

**element Target\_Directory**

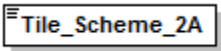
|            |   |
|------------|---|
| diagram    |  |
| type       | restriction of <b>xs:string</b>   |
| properties | content simple  |
| used by    | element <a href="#">Common Section</a>  |

**element Tile\_Scheme\_1C**

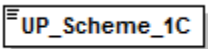
|         |   |
|---------|---|
| diagram |  |
|---------|---|

|            |  |
|------------|--|
| type       | restriction of <b>xs:string</b>              |
| properties | content simple                               |
| used by    | element <a href="#">PSD_Scheme</a>           |
| facets     | Kind Value Annotation<br>pattern S2(.+)\.xsd |

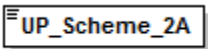
#### element **Tile\_Scheme\_2A**

|            |   |
|------------|---|
| diagram    |  |
| type       | restriction of <b>xs:string</b>   |
| properties | content simple  |
| used by    | element <a href="#">PSD_Scheme</a>  |
| facets     | Kind Value Annotation<br>pattern S2(.+)\.xsd                                      |

#### element **UP\_Scheme\_1C**

|            |  |
|------------|--|
| diagram    |  |
| type       | restriction of <b>xs:string</b>  |
| properties | content simple   |
| used by    | element <a href="#">PSD_Scheme</a>   |
| facets     | Kind Value Annotation<br>pattern S2(.+)\.xsd                                       |

#### element **UP\_Scheme\_2A**


|            |   |
|------------|---|
| diagram    |  |
| type       | restriction of <b>xs:string</b>   |
| properties | content simple  |
| used by    | element <a href="#">PSD_Scheme</a>  |
| facets     | Kind Value Annotation<br>pattern S2(.+)\.xsd  |

#### element **VIS\_Update\_Mode**

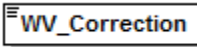
|         |   |
|---------|---|
| diagram |  |
|---------|---|

| type        | restriction of <b>xs:byte</b>   |            |       |            |             |   |  |             |   |  |
|-------------|---|------------|-------|------------|-------------|---|--|-------------|---|--|
| properties  | content simple  |            |       |            |             |   |  |             |   |  |
| used by     | element <a href="#">Flags</a>   |            |       |            |             |   |  |             |   |  |
| facets      | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>0</td> <td></td> </tr> <tr> <td>enumeration</td> <td>1</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | enumeration | 0 |  | enumeration | 1 |  |
| Kind        | Value   | Annotation |       |            |             |   |  |             |   |  |
| enumeration | 0   |            |       |            |             |   |  |             |   |  |
| enumeration | 1   |            |       |            |             |   |  |             |   |  |


### element **Visibility**

| diagram      |    |            |       |            |              |   |  |              |     |  |
|--------------|---|------------|-------|------------|--------------|---|--|--------------|-----|--|
| type         | restriction of <b>xs:decimal</b>  |            |       |            |              |   |  |              |     |  |
| properties   | content simple  |            |       |            |              |   |  |              |     |  |
| used by      | element <a href="#">Calibration</a>   |            |       |            |              |   |  |              |     |  |
| facets       | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>minInclusive</td> <td>5</td> <td></td> </tr> <tr> <td>maxInclusive</td> <td>120</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | minInclusive | 5 |  | maxInclusive | 120 |  |
| Kind         | Value   | Annotation |       |            |              |   |  |              |     |  |
| minInclusive | 5   |            |       |            |              |   |  |              |     |  |
| maxInclusive | 120   |            |       |            |              |   |  |              |     |  |

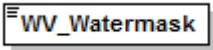
### element **WV\_Correction**

| diagram      |    |            |       |            |              |   |  |              |   |  |
|--------------|---|------------|-------|------------|--------------|---|--|--------------|---|--|
| type         | restriction of <b>xs:byte</b>   |            |       |            |              |   |  |              |   |  |
| properties   | content simple  |            |       |            |              |   |  |              |   |  |
| used by      | element <a href="#">Flags</a>   |            |       |            |              |   |  |              |   |  |
| facets       | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>minInclusive</td> <td>0</td> <td></td> </tr> <tr> <td>maxInclusive</td> <td>4</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | minInclusive | 0 |  | maxInclusive | 4 |  |
| Kind         | Value   | Annotation |       |            |              |   |  |              |   |  |
| minInclusive | 0   |            |       |            |              |   |  |              |   |  |
| maxInclusive | 4   |            |       |            |              |   |  |              |   |  |

### element **WV\_Threshold\_Cirrus**

| diagram      |    |            |       |            |              |     |  |              |     |  |
|--------------|---|------------|-------|------------|--------------|-----|--|--------------|-----|--|
| type         | restriction of <b>xs:decimal</b>  |            |       |            |              |     |  |              |     |  |
| properties   | content simple  |            |       |            |              |     |  |              |     |  |
| used by      | element <a href="#">Calibration</a>   |            |       |            |              |     |  |              |     |  |
| facets       | <table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>minInclusive</td> <td>0.1</td> <td></td> </tr> <tr> <td>maxInclusive</td> <td>1.0</td> <td></td> </tr> </tbody> </table> | Kind       | Value | Annotation | minInclusive | 0.1 |  | maxInclusive | 1.0 |  |
| Kind         | Value   | Annotation |       |            |              |     |  |              |     |  |
| minInclusive | 0.1   |            |       |            |              |     |  |              |     |  |
| maxInclusive | 1.0   |            |       |            |              |     |  |              |     |  |

element **WV\_Watermask**

|            |   |                       |            |
|------------|---|-----------------------|------------|
| diagram    |  |                       |            |
| type       | restriction of <b>xs:byte</b>   |                       |            |
| properties | content   | simple                |            |
| used by    | element   | <a href="#">Flags</a> |            |
| facets     | Kind  | Value                 | Annotation |
|            | enumeration   | 0                     |            |
|            | enumeration   | 1                     |            |
|            | enumeration   | 2                     |            |