



Specification of Corelyzer Files

Chris Jenkins

INSTAAR, University of Colorado

and

Julian Yu-Chung Chen

EVL, University of Illinois at Chicago

NOTES

1. This document is Version 1.3 12Jul2007
2. In the images, x is across-screen (down core) and y is up-screen (across core)
3. A [Local](#) or [Urn](#) address may be used for resources, or both. If both are used [Urn](#) takes precedence.
4. The file:///C:\etc... structure for [Urn](#) is made to be UNIX compatible.
5. Section coordinates are the x,y measured from the top of the section. Core coordinates are measured from the top of core.
6. It is immaterial whether forward- or back-slashes are used in file addresses.
7. While [urn](#) URL's have to be absolute, [local](#) URL's for the images, xml, and annotations may be relative to the folder containing the CML file.

CML

<code><?xml version="1.0" encoding="UTF-8"?></code>	Identifies file as XML	Unchanging line
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<pre><scene name="" version="1.0"></pre>	Opens a CoreLyzer Scene	<pre>name=</pre> (Optional) <pre>version=</pre> Signifies units of measurement (1 metres, 2 centimetres)
<pre><!-- --></pre>	Comment line	Inactive in the XML
<pre><dataset local="C:\dbSEABED_db9_SubBot\TMU_Crlyzr\A D69.xml" urn=""></dataset></pre>	Source of Track Data	<pre>local=</pre> LocalMachine URL <pre>urn=</pre> RemoteLocation URL
<pre><visual name="[AD69]PLP002" type="track" x="0.0" y="0.0" z="0"></pre>	Setup Track Visual	<pre>name=</pre> Name (for Convenience) <pre>type=</pre> Specifies visual type (“track” = an image) <pre>x=, y=, z=</pre> Location of Track Origin in core
<pre><visual depth="0.0" dpi_x="34.087" dpi_y="34.087" local="c:\dbSEABED_db9_Subbot\TMU_Crlyzr/ _Strips/plp002_1.jpg" rot="0.0" type="core_section" urn=""></pre>	Setup Image Section	<pre>depth=</pre> Depth in core that the image starts <pre>dpi_x=, dpi_y=</pre> Pixels/inch of the image relative to real core dimensions <pre>local=</pre> LocalMachine URL <pre>urn=</pre> RemoteLocation URL <pre>rot=</pre> Rotate the Core Image if necessary (0 if already left=top, 90 if top=top) <pre>type=</pre> Specifies visual type (“core_section” = an image)
<pre><visual ax="0.22718889" ay="-0.0381" group="LITHOLOGY" local="//C:\Documents and Settings\cjj\My Documents\Corelyzer\Annotations\annotation_0_ 0_0_cjj_06212007021520CST.html" marker="CORE_SPAN_MARKER" type="annotation" urn="file:///C:\Documents and Settings\cjj\My Documents\Corelyzer\Annotations\annotation_0_ 0_0_cjj_06212007021520CST.html" v0="0.2144889" v1="-0.00254" v2="0.23988888" v3="-0.00254" x="0.22718889" y="0.03351389"></visual></pre>	Setup Annotation	<pre>ax=, ay=</pre> Position of LowerLeft corner of the A annotation symbol (section coordinates) <pre>group=</pre> Specifies annotation subject (options: UNDEFINED, SEDIMENTOLOGY, GEOPHYSICS, BIOCHEMISTRY, OPERATIONAL, EDUCATIONAL, LITHOLOGY, PETROLOGY) <pre>local=</pre> LocalMachine URL <pre>marker=</pre> Symbol for annotation (options: “CORE_POINT_MARKER”; “CORE_SPAN_MARKER”; “CORE_OUTLINE_MARKER”) <pre>type=</pre> Specifies visual type “annotation” <pre>urn=</pre> RemoteLocation URL for the annotation <pre>v0=, v1=, v2=, v3=</pre> Extent of span or outline annotation space

		<p>(section coordinates) x=, y= Central position on the core that the annotation applies to (section coordinates) Notes: For:</p> <ol style="list-style-type: none"> a point annotation, v1/2/3/4 are all zero. a span marker v1/2 are zero an outline marker none are zero. <p>In other terms: (v0, v1) is the starting point, (v2, v3) is the ending point for span marker; (v0, v1) is the upper left corner, (v2,v3) is the lower corner for outline marker.</p>
</visual>	Closes Image Section	Unchanging line
<pre><visual b="1.0" dataset="AD69.xml" depth="3.5943267" field="Mud" g="0.0" max="100.0" min="0.0" r="1.0" slot="0" style="0" table="plp002_1" type="graph"></visual></pre>	Track Graph setup	<p>b= blue in RGB point/line colour (fraction of 1.0) dataset= Name of the XML file depth= Depth in core for start of track field= The display parameter g= green in RGB point/line colour (fraction of 1.0) max=, min= Range of data values to represent on graph r= red in RGB point/line colour (fraction of 1.0) slot= Number of the space above the image track, which is available for the graph (starts at 0 – the one above the core image) style= Line style (0: line, 1: dots, 2: cross lines) table= Corresponds to the section name (usually image name) type= Specifies visual type (“graph” = a track) If type=”graph” then the sensor tracks should appear automatically on loading a CML Track data is plotted in the order it appears in the XML, so line plots can retrograde if the data is out of depth order. A ‘<visual type=”graph” />’ entry is required for each section that the track is plotted.</p>
</scene>	Close the Corelyzer Scene	

XML

<corewall_data>	Announces a Sensor Track dataset	Unchanging line
<!-- -->	Comment line	Inactive in the XML
<section>	Announces a new section (usually an image)	Unchanging line
<id>plp002_1</id>	ID of the section	Must correspond with the relative image name (without extension) in the CML (visual/core_section entry, at urn= or local=)
<depth_unit>m</depth_unit>	Specify depth measurement unit	Options are metres (m) or centimetres (cm)
<field localid="6" name="Gravel" units="%" />	Sets out a list of parameters that could be graphed for the section	<p>localid= A unique assigned number</p> <p>name= Parameter name</p> <p>units= Parameter units</p> <p>Numeric values only</p> <p>Repeated for each parameter</p>
<depth>0.3</depth>	Depth from the top of the section	In specified units of measurement
<sensor id="4">7.0</sensor>		<p>id= Position of the parameter in the <field localid...> list</p> <p>One parameter (e.g., Gravel) can have a different sensor id in different sections of the core</p> <p>Repeated for each sensor (i.e., Parameter)</p>
</section>	Terminates this section	Unchanging line
</corewall_data>	Terminates this dataset	Unchanging line

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OTHER RESOURCES

Core archive file (112MB)	http://corewalldb.evl.uic.edu/files/wed_demo.car	*Use the "Import..." function under Corelyzer "Share" menu to import the big archive. It contains example core images from Janus and several different kinds of annotation markers. mentioned above.
dbSEABED Corelyzer project for TAMU Piston Cores	http://instaar.colorado.edu/~jenkinsc/corewall/	Computed with programs in dbSEABED in association with compiling this document.

CJJ 26 June 2007