Logged in as: *brutzman* (Don Brutzman - developer)   2021-04-06 09:21 PDT   Project: X3D

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Issue #   Jump

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ID	Project	Category	View Status	Date Submitted	Last Update
0001302	X3D	19775-1 (Abstract)	public	2020-05-22 09:22	2021-04-05 10:31

Reporter	brutzman
Assigned To	brutzman

Priority	normal	**Severity**	major	**Reproducibility**	have not tried
Status	resolved	**Resolution**	no change required		

Summary   0001302: geoSystem is difficult to define and parse, consider alternative approach

Description   Look at split of MFString geoSystem parameters for better parsing and referencability, i.e. rather than a single MFString with complex parsing requirements, perhaps splitting into separate fields is better handled. This can be accomplished without loss of data, for example:
- geoSystemSpatialReferenceFrame
- geoSystemEarthEllipsoid
- geoSystemParameters

Good discussions that indeed the current means of expressing geoSystem might be improved so that information is more accessible without convoluted scripting.

Forward compatibility: consider whether future approaches are not thwarted.

Sticking with accessType initializeOnly should avoid any unexpected run-time interdependencies.

Tags   No tags attached.

Attach Tags   (Separate by ",")   Existing tags ⌄   Attach

Attached Files

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⊟ Relationships

related to	0001354	assigned	brutzman	regularization of HAnimHumanoid.info and GeoMetadata.summary information as MetadataSet collection

⊟ Users monitoring this issue

User List	There are no users monitoring this issue.
	Username Add

⊟ Notes

~0002578 **dougsanden** (developer) 2020-05-22 16:10	The issue relates to the ISO 18026 option: that has 15 nodes that are information-only/parameter-gathering nodes and have no functionality. So finding an elegant way to express those 15 nodes some other way might give hints to how to express geoSystem better, or vice versa.
~0002607 **brutzman** (developer) 2020-06-18 08:31 Last edited: 2021-04-05 10:24 View 5 revisions	Relevant reference: [1] X3D Architecture, 25.2.3 Specifying a spatial reference frame https://www.web3d.org/documents/specifications/19775-1/V3.3/Part01 /components/geodata.html#Specifyingaspatialreference Do we split into two suggested names, namely initial keyword plus parameters: a. geoSystemSRF, geoSystemFrame, geoSystemSpatialReferenceFrame, something else? b. geoSystemParameters Note that we are not changing existing functionality. If we can compatibly add enhanced geospatial reference frames, that will be useful. TODO: define and link that issue.
~0002697 **brutzman** (developer) 2020-12-15 23:41	No activity on this topic, not accepted for X3D4
~0002783 **brutzman** (developer) 2021-04-05 10:30	This is not a problem for browsers since existing implementations work. The geoSystem field identifies the characteristics inherent to carefully prepared geospatial data. It is exceedingly unlikely that any author would be trying to make changes at run-time, since geoSystem reflects the controlling parameters for (usually large) blocks of data. If anything, an author might only be creating such a node. Therefore this enhancement, which would facilitate modifications by scripting and animation, is not really needed. No run-time use-case justification found. Change not accepted.

~0002784   spec editor review

brutzman (developer)

2021-04-05 10:31

⊟ **Issue History**

Date Modified	Username	Field	Change
2020-05-22 09:22	brutzman	New Issue	
2020-05-22 09:22	brutzman	Status	new => assigned
2020-05-22 09:22	brutzman	Assigned To	=> brutzman
2020-05-22 09:22	brutzman	Tag Attached: V4.0	
2020-05-22 16:10	dougsanden	Note Added: 0002578	
2020-06-18 08:31	brutzman	Note Added: 0002607	
2020-06-18 09:27	brutzman	Note Edited: 0002607	View Revisions
2020-06-18 09:29	brutzman	Note Edited: 0002607	View Revisions
2020-06-18 09:30	brutzman	Note Edited: 0002607	View Revisions
2020-12-15 23:40	brutzman	Tag Detached: V4.0	
2020-12-15 23:41	brutzman	Note Added: 0002697	
2021-04-05 10:21	brutzman	Relationship added	related to 0001354
2021-04-05 10:24	brutzman	Note Edited: 0002607	View Revisions
2021-04-05 10:30	brutzman	Note Added: 0002783	
2021-04-05 10:31	brutzman	Status	assigned => resolved
2021-04-05 10:31	brutzman	Resolution	open => no change required
2021-04-05 10:31	brutzman	Note Added: 0002784	