ImageDM Utype	data model elements leaves and Utypesuggested	Obscore Utype
original Utype in version september	*data model elements leaves and Utypesuggested*	
basic fields for the simple usage		
extended fields for the advanced usage		
Char.SpatialAxis		
Char.SpatialAxis.Name		
Char.SpatialAxis.UCD		Char.SpatialAxis.ucd
Char.SpatialAxis.Unit		Char.SpatialAxis.unit
Char.SpatialAxis.Coverage.Location.Coord	Char.SpatialAxis.Coverage.Location.Coord	
	Has 2 values and extends STC:AstroCoords	
	Char.SpatialAxis.Coverage.Location.Coord.Position2D.Value2.C1 (double)	Char.SpatialAxis.Coverage.Location.Coord.Position2D.Value2.C1
	Char.SpatialAxis.Coverage.Location.Coord.Position2D.Value2.C2 (double)	Char.SpatialAxis.Coverage.Location.Coord.Position2D.Value2.C2
Char.SpatialAxis.Coverage.Bounds.Extent	Char.SpatialAxis.Coverage.Bounds.Extent.diameter	Char.SpatialAxis.Coverage.Bounds.Extent.diameter
Char.SpatialAxis.Coverage.Bounds.Limits.LoLimit2Vec	Char.SpatialAxis.Coverage.Bounds.Limits.LoLimit2Vec.C1	
is a vector of double values	Char.SpatialAxis.Coverage.Bounds.Limits.LoLimit2Vec.C2	
Char.SpatialAxis.Coverage.Bounds.Limits.HiLimit2Vec	Char.SpatialAxis.Coverage.Bounds.Limits.HiLimit2Vec.C1	
is a vector of double values	Char.SpatialAxis.Coverage.Bounds.Limits.HiLimit2Vec.C2	
Char.SpatialAxis.Coverage.Support.Area	Char.SpatialAxis.Coverage.Support.Area	Char.SpatialAxis.Coverage.Support.Area (encoded as STC-S)
		or ADQL region
Char.SpatialAxis.SamplingPrecision.SampleExtent		
Char.SpatialAxis.SamplingPrecision.SamplingPrecisionRefVal.FillFactor	Char.SpatialAxis.Sampling.RefVal.FillFactor	
Char.SpatialAxis.Accuracy.StatError	Char.SpatialAxis.Accuracy.StatError.Refval.Value (1 value)	Char.SpatialAxis.Accuracy.statError.refval.value
set of two values	Char.SpatialAxis.Accuracy.StatError.Refval.Error2 (stc)	
error along first coos of spatial axis	Char.SpatialAxis.Accuracy.StatError.Refval.Error2.C1	
error along second coos of spatial axis	Char.SpatialAxis.Accuracy.StatError.Refval.Error2.C2	
	Char.SpatialAxis.Accuracy.StatError.Refval.Error2Radius (stc)	
	Char.SpatialAxis.Accuracy.StatError.Refval.Error2matrix (stc)	
min and max values of the error along Spatial axis	Char.SpatialAxis.Accuracy.StatError.Bounds.Limits.LoLimit2Vec.C1	
	Char.SpatialAxis.Accuracy.StatError.Bounds.Limits.LoLimit2Vec.C2	
	Char.SpatialAxis.Accuracy.StatError.Bounds.Limits.HiLimit2Vec.C1	
	Char.SpatialAxis.Accuracy.StatError.Bounds.Limits.HiLimit2Vec.C2	
Char.SpatialAxis.Accuracy.SysError		
same structure as above		
Char.SpatialAxis.CalibrationStatus	ok	Char.SpatialAxis.calibrationStatus
Char.SpatialAxis.Resolution.RefVal	Char.SpatialAxis.Resolution.refval.value (one value similar for the 2 axes)	Char.SpatialAxis.Resolution.refval.value (one value similar for the 2 axes)

NB : Resolution is complex in stc	Char.SpatialAxis.Resolution.refval.Resolution2.C1	
this is a suggestion for simplication	Char.SpatialAxis.Resolution.refval.Resolution2.C2	
	Char.SpatialAxis.Resolution.refval.Resolution2Radius	
	Char.SpatialAxis .Resolution.Bounds. Limits.LoLimit	Char.SpatialAxis .Resolution.Bounds. Limits.LoLimit (one value similar for the 2 axes)
	Char.SpatialAxis.Resolution.Bounds. Limits.HiLimit	Char.SpatialAxis.Resolution.Bounds. Limits.HiLimit (one value similar for the 2 axes)
	Char.SpatialAxis.Resolution.Bounds.Limits.LoLimit2Vec	
	Char.SpatialAxis.Resolution.Bounds.Limits.LoLimit2Vec.C1	
	Char.SpatialAxis.Resolution.Bounds.Limits.LoLimit2Vec.C2	
	Char.SpatialAxis.Resolution.Bounds.Limits.HiLimit2Vec.C1	
	Char.SpatialAxis.Resolution.Bounds.Limits.HiLimit2Vec.C2	
Char.SpectralAxis		
Char.SpectralAxis.Name	Char.SpectralAxis.Name	
Char.SpectralAxis.UCD	Char.SpectralAxis.UCD	Char.SpectralAxis.ucd
Char.SpectralAxis.Unit	Char.SpectralAxis.Unit	Char.SpectralAxis.unit
Char.SpectralAxis.Coverage.Location.Coord	Char.SpectralAxis.Coverage.Location.Coord ?	
Char.SpectralAxis.Coverage.Bounds.Extent	Char.SpectralAxis.Coverage.Bounds.Extent	
Char.SpectralAxis.Coverage.Bounds.Limits.LoLimit	Char.SpectralAxis.Coverage.Bounds.Limits.LoLimit	Char.SpectralAxis.Coverage.Bounds.Limits.LoLimit
Char.SpectralAxis.Coverage.Bounds.Limits.HiLimit	Char.SpectralAxis.Coverage.Bounds.Limits.HiLimit	Char.SpectralAxis.Coverage.Bounds.Limits.HiLimit
Char.SpectralAxis.Coverage.Support.Extent	Char.SpectralAxis.Coverage.Support.Extent	
for all SamplingPrecision , simplify to Sampling		
Char.SpectralAxis.SamplingPrecision.SampleExtent	Char.SpectralAxis.Sampling.SampleExtent	
Char.SpectralAxis.Accuracy.BinSize		
Char.SpectralAxis.SamplingPrecision.SamplingPrecisionRefV	Char.SpectralAxis.Sampling.SampleExtent.FillFactor ????	
	in CharDM the fillfactor is at the level of the sampling element size	
Char.SpectralAxis.Accuracy.StatError		Char.SpectralAxis.Accuracy.StatError.Refval.Value
one double value	Char.SpectralAxis.Accuracy.StatError.Refval.Error	
Min , max values for the StatError	Char.SpectralAxis.Accuracy.StatError.Bounds.Limits.LoLimit	
	Char.SpectralAxis.Accuracy.StatError.Bounds.Limits.HiLimit	
Char.SpectralAxis.Accuracy.SysError	Char.SpectralAxis.Accuracy.SysError.Refval.value	
Char.SpectralAxis.CalibrationStatus	ok	Char.SpectralAxis.calibrationStatus
Char.SpectralAxis.Resolution.RefVal	Char.SpectralAxis.Resolution.refval.value	Char.SpectralAxis.Resolution.refval.value
here the value could be a Resolution stc element , but it makes things more ambiguous between the Resolution class of Char and the STC element . Just use « value » instead and code it as a double		
	Char.SpectralAxis.Resolution.Bounds.Limits.LoLimit	
	Char.SpectralAxis.Resolution.Bounds.Limits.HiLimit	
Char.SpectralAxis.ResolPower.RefVal	Char.SpectralAxis.Resolution.ResolPower.refval	Char.SpectralAxis.Resolution.ResolPower.refval
	Char.SpectralAxis.Resolution.ResolPower.LoLimit	Char.SpectralAxis.Resolution.ResolPower.LoLimit
	Char.SpectralAxis.Resolution.ResolPower.HiLimit	Char.SpectralAxis.Resolution.ResolPower.HiLimit
Char.TimeAxis		
Char.TimeAxis.Name	ok	
Char.TimeAxis.UCD	ok	

Char.TimeAxis.Unit	ok	
Char.TimeAxis.Coverage.Location.Coord	ok	
Char.TimeAxis.Coverage.Bounds.Extent	ok	
Char.TimeAxis.Coverage.Bounds.Limits.LoLimit	Char.TimeAxis.Coverage.Bounds.Limits.StartTime	Char.TimeAxis.Coverage.Bounds.Limits.StartTime
Char.TimeAxis.Coverage.Bounds.Limits.HiLimit	Char.TimeAxis.Coverage.Bounds.Limits.StopTime	Char.TimeAxis.Coverage.Bounds.Limits StopTime
Char.TimeAxis.Coverage.Support.Extent	ok	Char.TimeAxis.Coverage.Support.Extent
Char.TimeAxis.SamplingPrecision.SampleExtent	ok	
Char.TimeAxis.SamplingPrecision *.RefVal.FillFactor	Char.TimeAxis.Sampling.RefVal.FillFactor	
Char.TimeAxis.Accuracy.BinSize	?	
Char.TimeAxis.Accuracy.StatError	Error : basic type 1D from STC	Char.TimeAxis.Accuracy.StatError.Refval.Value
NB : use simple double for single value	Char.TimeAxis.Accuracy.StatError.Refval.Value	
	Char.TimeAxis.Accuracy.StatError.Bounds.Limits.LoLimit	
	Char.TimeAxis.Accuracy.StatError.Bounds.Limits.HiLimit	
Char.TimeAxis.Accuracy.SysError	Char.TimeAxis.Accuracy.SysError.Refval.Error	
Char.TimeAxis.CalibrationStatus	ok	Char.TimeAxis.calibrationStatus
Char.TimeAxis.Resolution.RefVal	Char.TimeAxis.Resolution.RefVal.value	Char.TimeAxis.Resolution.refval.value
Char.FluxAxis		
Char.FluxAxis.Name	ok	
Char.FluxAxis.UCD	ok	
Char.FluxAxis.Unit	ok	
Char.FluxAxis.Accuracy.StatError	Error : basic type 1D from STC	
	Char.FluxAxis.Accuracy.StatError.Refval.Value	
	Char.FluxAxis.Accuracy.StatError.Bounds.Limits.LoLimit	
	Char.FluxAxis.Accuracy.StatError.Bounds.Limits.HiLimit	
Char.FluxAxis.Accuracy.SysError	idem as StatError	
Char.FluxAxis.CalibrationStatus	ok	Char.FluxAxis.CalibrationStatus
Char.ObservableAxis		
		Char.ObservableAxis.ucd
		Char.ObservableAxis.unit
		Char.ObservableAxis.calibrationStatus
		Char.ObservableAxis.Accuracy.StatError.refval.value
Char.PolAxis		
Char.PolAxis.Name	ok	
Char.PolAxis.UCD	ok	
Char.PolAxis.Enumeration	Char.PolarizationAxis.stateList	Char.PolarizationAxis.stateList