

Environment

list<lPhenomen>_naturalPhenomena MapSize _size

list<StateMetadata>
GetEffects(LifeFormMetadata metadata)
EnvironmentMetadata GetMetadata()

void Update()

Phenomen Metadata

string Name
Place Place
Protobuff.Metadata.PhenomenMetadata
GetProtoMetadata()

<<Перечисление>>

PlaceType

Array Rectangle

<<Интерфейс>>

IPhenomen

void Update(EnvironmentMetadata environmentMetadata) list<StateUpdate> GetEffects(Point point, LifeFormMetadata metadata) bool IsIn(Point point) Place GetItPlace() PhenomenMetadata GetMetadata()

Place

PlaceType _placeType list<Point> _points

Place Intersect(Place anotherPlace) override string ToString() static bool IsEverything() static Place FromString(string str) static Place Everything() Protobuff.Place GetProtoPlace()

Point

int _x int _y

override string ToString()
static Point FromString()
Protobuff.Point GetProtoPoint()

EnvironmentMetadata: Dictionary<string, PhenomenMetadata>

MapSize Size list<PhenomenMetadata> PhenomenaMetadata Protobuff.Metadata.EnvironmentMetada ta GetProtoMetadata()

MapSize

int CountOfPoint
int Width
int Height
Protobuff.MapSize GetProtoMapSize()

LifeForm

Dictionary<string, LifeFormState> _states int64 _id

void Update(list StateUpdate)
LifeFormMetadata GetMetadata()

StateMetadata

double Value string Name Protobuff.Metadata.StateMetadata GetProtoMetadata()

StateReaction

string _stateName func<StateMetadata,void > _reaction void React(stateMetadata)

LifeFormState

string _name Place _place dougle _value

StateMetadata GetMetadata() read string StateName

LifeFormMetadata: Dictionary<string, StateMetadata>

int64 Id Place Place Protobuff.Metadata.LifeFormMetadata GetProtoMetadata()

Demiurg

list<World> Worlds

-имя участника

World

string _name
Visualizer _visualizer
Environment _environment
list<LifeForms> _lifeForms
int _age
List<StateReaction> _stateReactions

void Update()
WorldMetadata GetMetadata()
static World LoadFromFile(string
fileName, PhenomenaFabrica fabrica)
void SaveToFile(string fileName)

WorldMetadata

string Name
int Age
EnvironmentMetadata
EnvironmentMetadata
Dictionary<Int64, LifeFormMetadata>
LifeFormsMetadata

-имя участника Protobuff.Metadata.WorldMetadata GetProtoMetadata

<<Интерфейс>>

IVisualizer

World World{get;} void Update(); void SetWorld();

Place\Point

Place: PlaceType+point point

... point

Point: x|y



