```
LinksPlatform's Platform Communication Class Library
     ./csharp/Platform.Communication/Protocol/Gexf/Edge.cs
   using System. Globalization;
   using System.Runtime.CompilerServices;
2
   using System.Xml;
   using System.Xml.Serialization;
4
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
6
   namespace Platform.Communication.Protocol.Gexf
        /// <summary>
10
        /// <para>
11
        /// Represents the edge.
        /// </para>
        /// <para></para>
14
        /// </summary>
15
        public class Edge
16
17
            /// <summary>
18
            /// <para>
19
            /// The element name.
20
21
            /// </para>
            /// <para></para>
22
            /// </summary>
23
            public static readonly string ElementName = "edge";
            /// <summary>
            /// <para> /// The id attribute name.
26
27
            /// </para>
            /// <para></para>
29
            /// </summary>
30
            public const string IdAttributeName = "id";
31
            /// <summary>
/// <para>
32
33
            /// The source attribute name.
34
            /// </para>
35
            /// <para></para>
36
            /// </summary>
            public const string SourceAttributeName = "source";
38
            /// <summary>
39
            /// <para>
40
            /// The target attribute name.
41
            /// </para>
            /// <para></para>
            /// </summary>
44
                          string TargetAttributeName = "target";
45
            public const
            /// <summary>
^{46}
            /// <para>
47
            /// The label attribute name.
48
            /// </para>
            /// <para></para>
50
            /// </summary>
51
            public const string LabelAttributeName = "label";
52
            /// <summary>
            /// <para>
55
            /// Gets or sets the id value.
56
            /// </para>
            /// <para></para>
58
            /// </summary>
59
            [XmlAttribute(AttributeName = IdAttributeName)]
            public long Id
61
62
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
63
64
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
                set:
66
            }
68
            /// <summary>
69
            /// <para>
70
            /// Gets or sets the source value.
71
            /// </para>
72
            /// <para></para>
73
            /// </summary>
74
            [XmlAttribute(AttributeName = SourceAttributeName)]
75
            public long Source
```

```
[MethodImpl(MethodImplOptions.AggressiveInlining)]
79
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
80
                 set;
81
             }
82
83
             /// <summary>
84
             /// <para>
85
             /// Gets or sets the target value.
             /// </para>
87
             /// <para></para>
88
             /// </summary>
89
             [XmlAttribute(AttributeName = TargetAttributeName)]
90
             public long Target
91
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
93
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
95
                 set;
96
             }
97
98
             /// <summary>
             /// <para>
100
             /// Gets or sets the label value.
101
             /// </para>
             /// <para></para>
103
             /// </summary>
104
             [XmlAttribute(AttributeName = LabelAttributeName)]
105
             public string Label
106
107
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
109
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
110
                 set;
111
             }
112
113
             /// <summary>
114
             /// <para>
             /// Writes the xml using the specified writer.
116
             /// </para>
117
             /// <para></para>
118
             /// </summary>
             /// <param name="writer">
120
             /// <para>The writer.</para>
121
             /// <para></para>
             /// </param>
123
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
124
             public void WriteXml(XmlWriter writer) => WriteXml(writer, Id, Source, Target, Label);
126
             /// <summary>
127
             /// <para>
128
             /// Writes the xml using the specified writer.
129
             /// </para>
130
             /// <para></para>
             /// </summary>
132
             /// <param name="writer">
133
             /// <para>The writer.</para>
134
             /// <para></para>
             /// </param>
136
             /// <param name="id">
137
             /// < para> The id. </para>
             /// <para></para>
139
             /// </param>
140
             /// <param name="sourceNodeId">
141
             /// <para>The source node id.</para>
142
             /// <para></para>
143
             /// </param>
144
             /// <param name="targetNodeId">
             /// <para>The target node id.</para>
146
             /// <para></para>
147
             /// </param>
148
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
149
             public static void WriteXml(XmlWriter writer, long id, long sourceNodeId, long
150
             targetNodeId) => WriteXml(writer, id, sourceNodeId, targetNodeId, null);
             /// <summary>
152
             /// <para>
/// Writes the xml using the specified writer.
153
154
             /// </para>
```

```
/// <para></para>
156
             /// </summary>
             /// <param name="writer">
158
             /// <para>The writer.</para>
159
             /// <para></para>
             /// </param>
161
             /// <param name="id">
162
             /// <para>The id.</para>
163
             /// <para></para>
             /// </param>
165
             /// <param name="sourceNodeId">
166
             /// <para>The source node id.</para>
             /// <para></para>
             /// </param>
169
             /// <param name="targetNodeId">
170
             /// <para>The target node id.</para>
171
             /// <para></para>
172
             /// </param>
173
             /// <param name="label">
             /// <para>The label.</para>
175
             /// <para></para>
176
             /// </param>
177
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public static void WriteXml(XmlWriter writer, long id, long sourceNodeId, long
179
                targetNodeId, string label)
180
                 // <edge id="0" source="0" target="0" label="..." />
181
                 writer.WriteStartElement(ElementName);
182
                 writer.WriteAttributeString(IdAttributeName,
183
                 → id.ToString(CultureInfo.InvariantCulture));
                 writer.WriteAttributeString(SourceAttributeName,
184
                     sourceNodeId.ToString(CultureInfo.InvariantCulture));
                 writer.WriteAttributeString(TargetAttributeName,
185
                     targetNodeId.ToString(CultureInfo.InvariantCulture));
                 if (!string.IsNullOrWhiteSpace(label))
                 {
187
                     writer.WriteAttributeString(LabelAttributeName, label);
188
                 }
                 writer.WriteEndElement();
190
             }
191
        }
192
    }
193
     ./csharp/Platform.Communication/Protocol/Gexf/Gexf.cs
    using System;
    using System.Runtime.CompilerServices;
 2
    using System.Xml;
    using System.Xml.Serialization;
 4
    #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
    namespace Platform.Communication.Protocol.Gexf
 8
 9
        /// <summary>
10
        /// <para>
11
        /// Represents the gexf.
        /// </para>
13
        /// <para></para>
14
         /// </summary>
15
        [XmlRoot(ElementName = ElementName, Namespace = Namespace)]
        public class Gexf
17
18
             /// <summary>
19
             /// <para>
20
             /// The element name.
21
             /// </para>
22
             /// <para></para>
23
             /// </summary>
2.4
            public const string ElementName = "gexf";
25
             /// <summary>
/// <para>
26
             /// The namespace.
28
             /// </para>
29
            /// <para></para>
30
             /// </summary>
            public const string Namespace = "http://www.gexf.net/1.2draft";
32
             /// <summary>
33
             /// <para>
```

```
/// The version attribute name.
35
             /// </para>
             /// <para></para>
37
             /// </summary>
38
             public const string VersionAttributeName = "version";
39
             /// <summary>
40
             /// <para>
41
             /// The graph element name.
42
             /// </para>
43
             /// <para></para>
44
             /// </summary>
45
             public const string GraphElementName = "graph";
46
47
             /// <summary>
             /// <para>
             /// The current version.
49
             /// </para>
50
             /// <para></para>
             /// </summary>
52
             public static readonly string CurrentVersion = "1.2";
54
             /// <summary>
55
             /// <para>
             /// Gets or sets the version value.
57
             /// </para>
58
             /// <para></para>
59
             /// </summary>
60
             [XmlAttribute(AttributeName = VersionAttributeName)]
61
             public string Version
63
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
64
65
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
66
                 set;
67
             }
68
69
             /// <summary>
70
             /// <para>
71
             /// Gets or sets the graph value.
             /// </para>
73
             /// <para></para>
/// </summary>
74
75
             [XmlElement(ElementName = GraphElementName)]
76
             public Graph Graph
77
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
79
80
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
81
                 set;
             }
83
84
             /// <summary>
85
             /// <para>
86
             /// Initializes a new <see cref="Gexf"/> instance.
87
             /// </para>
88
             /// <para></para>
             /// </summary>
90
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
91
             public Gexf() => (Version, Graph) = (CurrentVersion, new Graph());
93
             /// <summary>
             /// <para>
95
             /// Writes the xml using the specified writer.
96
             /// </para>
             /// <para></para>
98
             /// </summary>
99
             /// <param name="writer">
100
             /// <para>The writer.</para>
             /// <para></para>
102
             /// </param>
103
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
104
             public void WriteXml(XmlWriter writer) => WriteXml(writer, () => Graph.WriteXml(writer),
105

→ Version);

106
             /// <summary>
             /// <para>
108
             /// Writes the xml using the specified writer.
109
             /// </para>
110
             /// <para></para>
111
             /// </summary>
112
```

```
/// <param name="writer">
113
             /// <para>The writer.</para>
             /// <para></para>
115
             /// </param>
116
             /// <param name="writeGraph">
             /// /// para>The write graph.
118
             /// <para></para>
119
             /// </param>
120
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
121
            public static void WriteXml(XmlWriter writer, Action writeGraph) => WriteXml(writer,
122

    writeGraph, CurrentVersion);
             /// <summary>
             /// <para>
125
             /// Writes the xml using the specified writer.
126
             /// </para>
127
             /// <para></para>
128
             /// </summary>
129
             /// <param name="writer">
130
             /// <para>The writer.</para>
             /// <para></para>
132
             /// </param>
133
             /// <param name="writeGraph">
             /// <para>The write graph.</para>
135
             /// <para></para>
136
             /// </param>
             /// <param name="version">
138
             /// <para>The version.</para>
139
             /// <para></para>
140
             /// </param>
141
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
142
            public static void WriteXml(XmlWriter writer, Action writeGraph, string version)
143
144
                 writer.WriteStartDocument();
                 writer.WriteStartElement(ElementName, Namespace);
146
                 writer.WriteAttributeString(VersionAttributeName, version);
147
                 writeGraph();
                 writer.WriteEndElement();
149
                 writer.WriteEndDocument();
150
             }
152
153
             /// <summary>
             /// <para>
154
             /// Writes the xml using the specified writer.
155
             /// </para>
156
             /// <para></para>
             /// </summary>
158
             /// <param name="writer">
159
             /// <para>The writer.</para>
160
             /// <para></para>
161
             /// </param>
162
             /// <param name="writeNodes">
163
             /// <para>The write nodes.</para>
             /// <para></para>
165
             /// </param>
166
             /// <param name="writeEdges">
167
             /// <para>The write edges.</para>
168
             /// <para></para>
169
             /// </param>
170
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public static void WriteXml(XmlWriter writer, Action writeNodes, Action writeEdges) =>
                 WriteXml(writer, writeNodes, writeEdges, CurrentVersion, GraphMode.Static,
                GraphDefaultEdgeType.Directed);
             /// <summary>
174
             /// <para>
175
             /// \overline{	ext{Writes}} the xml using the specified writer.
176
             /// </para>
             /// <para></para>
178
             /// </summary>
179
             /// <param name="writer">
             /// <para>The writer.</para>
181
             /// <para></para>
182
             /// </param>
183
             /// <param name="writeNodes">
             /// <para>The write nodes.</para>
185
             /// <para></para>
186
             /// </param>
```

```
/// <param name="writeEdges">
188
             /// <para>The write edges.</para>
             /// <para></para>
190
             /// </param>
191
             /// <param name="version">
             /// <para>The version.</para>
193
             /// <para></para>
194
             /// </param>
195
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public static void WriteXml(XmlWriter writer, Action writeNodes, Action writeEdges,
197
                string version) => WriteXml(writer, writeNodes, writeEdges, version,
                GraphMode.Static, GraphDefaultEdgeType.Directed);
             /// <summary>
199
             /// <para>
200
             /// Writes the xml using the specified writer.
201
             /// </para>
202
             /// <para></para>
203
             /// </summary>
204
             /// <param name="writer">
             /// <para>The writer.</para>
206
             /// <para></para>
207
             /// </param>
208
             /// <param name="writeNodes">
209
            /// <para>The write nodes.</para>
210
             /// <para></para>
211
             /// </param>
             /// <param name="writeEdges">
213
             /// <para>The write edges.</para>
214
             /// <para></para>
215
             /// </param>
216
             /// <param name="version">
217
            /// <para>The version.</para>
218
             /// <para></para>
             /// </param>
220
             /// <param name="mode">
221
             /// <para>The mode.</para>
222
             /// <para></para>
223
             /// </param>
224
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
225
            public static void WriteXml(XmlWriter writer, Action writeNodes, Action writeEdges,
             string version, GraphMode mode) => WriteXml(writer, writeNodes, writeEdges, version,

→ mode, GraphDefaultEdgeType.Directed);
227
             /// <summary>
             /// <para>
229
             /// Writes the xml using the specified writer.
230
             /// </para>
231
             /// <para></para>
             /// </summary>
233
             /// <param name="writer">
234
             /// <para>The writer.</para>
            /// <para></para>
236
            /// </param>
237
            /// <param name="writeNodes">
238
             /// <para>The write nodes.</para>
239
             /// <para></para>
240
             /// </param>
241
             /// <param name="writeEdges">
242
             /// <para>The write edges.</para>
243
             /// <para></para>
244
             /// </param>
             /// <param name="version">
             /// <para>The version.</para>
247
             /// <para></para>
248
             /// </param>
249
             /// <param name="mode">
250
             /// <para>The mode.</para>
251
             /// <para></para>
252
             /// </param>
253
             /// <param name="defaultEdgeType">
254
             /// <para>The default edge type.</para>
255
             /// <para></para>
             /// </param>
257
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
258
```

```
public static void WriteXml(XmlWriter writer, Action writeNodes, Action writeEdges,
259
                 string version, GraphMode mode, GraphDefaultEdgeType defaultEdgeType) =>
                 WriteXml(writer, () => Graph.WriteXml(writer, writeNodes, writeEdges, mode,
                 defaultEdgeType), version);
        }
    }
261
      ./csharp/Platform.Communication/Protocol/Gexf/Graph.cs
    using System;
    using System.Collections.Generic;
    using System.Runtime.CompilerServices;
using System.Xml;
 3
 4
    using System.Xml.Serialization;
    #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
    namespace Platform.Communication.Protocol.Gexf
10
         /// <summary>
11
         /// <para>
12
         /// Represents the graph.
13
        /// </para>
14
         /// <para></para>
15
         /// </summary>
        public class Graph
17
18
             /// <summary>
19
             /// <para>
20
             /// The element name.
             /// </para>
             /// <para></para>
23
             /// </summary>
^{24}
             public static readonly string ElementName = "graph";
25
             /// <summary>
26
             /// <para>
             /// The mode attribute name.
             /// </para>
29
             /// <para></para>
30
             /// </summary>
             public const string ModeAttributeName = "mode";
32
             /// <summary>
33
             /// <para>
34
             /// The default edge type attribute name.
35
             /// </para>
36
             /// <para></para>
             /// </summary>
38
             public const string DefaultEdgeTypeAttributeName = "defaultedgetype";
             /// <summary>
             /// <para> /// The nodes element name.
41
42
             /// </para>
43
             /// <para></para>
44
             /// </summary>
45
             public const string NodesElementName = "nodes";
             /// <summary>
47
             /// <para>
48
             /// The node element name.
49
             /// </para>
50
             /// <para></para>
             /// </summary>
             public const string NodeElementName = "node";
53
             /// <summary>
54
             /// <para>
             /// The edges element name.
56
             /// </para>
             /// <para></para>
             /// </summary>
59
             public const string EdgesElementName = "edges";
60
             /// <summary>
61
             /// <para>
62
             /// The edge element name.
63
             /// </para>
             /// <para></para>
/// </summary>
65
66
             public const string EdgeElementName = "edge";
67
68
             /// <summary>
             /// <para>
70
             /// Gets or sets the mode value.
```

```
/// </para>
72
             /// <para></para>
73
             /// </summary>
74
             [XmlAttribute(AttributeName = ModeAttributeName)]
7.5
             public GraphMode Mode
76
77
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
78
79
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
80
81
                 set;
             }
82
83
             /// <summary>
84
             /// <para>
85
             /// Gets or sets the default edge type value.
             /// </para>
87
             /// <para></para>
88
             /// </summary>
89
             [XmlAttribute(AttributeName = DefaultEdgeTypeAttributeName)]
90
             public GraphDefaultEdgeType DefaultEdgeType
91
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
93
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
95
                 set;
             }
97
98
             /// <summary>
99
             /// <para>
100
             /// Gets or sets the nodes value.
101
             /// </para>
             /// <para></para>
103
             /// </summary>
104
             [XmlArray(ElementName = NodesElementName)]
105
             [XmlArrayItem(ElementName = NodeElementName)]
106
             public List<Node> Nodes
107
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
109
110
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
111
                 set;
             }
114
             /// <summary>
115
             /// <para>
116
             /// Gets or sets the edges value.
117
             /// </para>
             /// <para></para>
119
             /// </summary>
120
             [XmlArray(ElementName = EdgesElementName)]
121
             [XmlArrayItem(ElementName = EdgeElementName)]
122
             public List<Edge> Edges
123
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
125
126
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
127
                 set:
128
             }
129
130
             /// <summary>
131
             /// <para>
132
             /// Initializes a new <see cref="Graph"/> instance.
133
             /// </para>
134
             /// <para></para>
             /// </summary>
136
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
137
             public Graph() => (Nodes, Edges) = (new List<Node>(), new List<Edge>());
139
             /// <summary>
140
             /// <para>
141
             /// Writes the xml using the specified writer.
142
             /// </para>
143
             /// <para></para>
144
             /// </summary>
145
             /// <param name="writer">
146
             /// < para> The writer. </para>
             /// <para></para>
148
             /// </param>
149
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
150
```

```
public void WriteXml(XmlWriter writer) => WriteXml(writer, () => WriteNodes(writer), ()
151
                 => WriteEdges(writer), Mode, DefaultEdgeType);
152
             /// <summary>
153
             /// <para>
154
             /// Writes the edges using the specified writer.
155
             /// </para>
156
             /// <para></para>
157
             /// </summary>
             /// <param name="writer">
159
             /// <para>The writer.</para>
160
             /// <para></para>
161
             /// </param>
162
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
163
             private void WriteEdges(XmlWriter writer)
164
                 for (var i = 0; i < Edges.Count; i++)</pre>
166
                 {
167
                      Edges[i].WriteXml(writer);
168
                 }
             }
170
171
             /// <summary>
172
             /// <para>
173
             /// Writes the nodes using the specified writer.
             /// </para>
175
             /// <para></para>
176
             /// </summary>
177
             /// <param name="writer">
178
             /// <para>The writer.</para>
179
             /// <para></para>
180
             /// </param>
181
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
182
             private void WriteNodes(XmlWriter writer)
183
184
                 for (var i = 0; i < Nodes.Count; i++)</pre>
186
                      Nodes[i].WriteXml(writer);
187
                 }
             }
189
190
             /// <summary>
191
             /// <para>
192
             /// Writes the xml using the specified writer.
193
             /// </para>
             /// <para></para>
195
             /// </summary>
196
             /// <param name="writer">
197
             /// <para>The writer.</para>
198
             /// <para></para>
199
             /// </param>
200
             /// <param name="writeNodes">
             /// <para>The write nodes.</para>
202
             /// <para></para>
203
             /// </param>
204
             /// <param name="writeEdges">
205
             /// <para>The write edges.</para>
206
             /// <para></para>
207
             /// </param>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
209
             public static void WriteXml(XmlWriter writer, Action writeNodes, Action writeEdges) =>
210
                 WriteXml(writer, writeNodes, writeEdges, GraphMode.Static,
                 GraphDefaultEdgeType.Directed);
211
             /// <summary>
212
             /// <para>
213
             /// Writes the xml using the specified writer.
             /// </para>
215
             /// <para></para>
216
             /// </summary>
             /// <param name="writer">
218
             /// <para>The writer.</para>
219
             /// <para></para>
220
             /// </param>
221
             /// <param name="writeNodes">
222
             /// <para>The write nodes.</para>
223
             /// <para></para>
224
             /// </param>
225
```

```
/// <param name="writeEdges">
226
             /// <para>The write edges.</para>
227
             /// <para></para>
228
             /// </param>
229
             /// <param name="mode">
             /// <para>The mode.</para>
231
             /// <para></para>
232
             /// </param>
233
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public static void WriteXml(XmlWriter writer, Action writeNodes, Action writeEdges,
235
                 GraphMode mode) => WriteXml(writer, writeNodes, writeEdges, mode,
                 GraphDefaultEdgeType.Directed);
             /// <summary>
237
             /// <para>
238
             /// Writes the xml using the specified writer.
239
240
             /// </para>
             /// <para></para>
241
             /// </summary>
242
             /// <param name="writer">
             /// <para>The writer.</para>
244
             /// <para></para>
245
             /// </param>
246
             /// <param name="writeNodes">
247
             /// <para>The write nodes.</para>
248
             /// <para></para>
249
             /// </param>
             /// <param name="writeEdges">
251
             /// <para>The write edges.</para>
252
             /// <para></para>
253
             /// </param>
             /// <param name="mode">
255
             /// <para>The mode.</para>
256
             /// <para></para>
             /// </param>
258
             /// <param name="defaultEdgeType">
259
             /// <para>The default edge type.</para>
260
             /// <para></para>
261
             /// </param>
262
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
263
            public static void WriteXml(XmlWriter writer, Action writeNodes, Action writeEdges,
                GraphMode mode, GraphDefaultEdgeType defaultEdgeType)
             {
265
                 writer.WriteStartElement(ElementName);
266
                 writer.WriteAttributeString(ModeAttributeName, mode.ToString().ToLower());
267
268
                 writer.WriteAttributeString(DefaultEdgeTypeAttributeName,
                     defaultEdgeType.ToString().ToLower())
                 writer.WriteStartElement(NodesElementName);
269
                 writeNodes();
270
                 writer.WriteEndElement();
                 writer.WriteStartElement(EdgesElementName);
272
                 writeEdges();
273
                 writer.WriteEndElement();
274
                 writer.WriteEndElement();
            }
276
        }
277
278
     ./csharp/Platform.Communication/Protocol/Gexf/GraphDefaultEdgeType.cs
    using System.Xml.Serialization;
    #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
    namespace Platform.Communication.Protocol.Gexf
 5
 6
         /// <summary>
        /// <para>
        /// The graph default edge type enum.
 9
        /// </para>
        /// <para></para>
11
        /// </summary>
12
        public enum GraphDefaultEdgeType
13
14
             /// <summary>
15
             /// <para>
16
             /// The directed graph default edge type.
             /// </para>
18
             /// <para></para>
```

```
/// </summary>
20
            [XmlEnum(Name = "directed")]
21
            Directed
22
        }
  }
24
    ./csharp/Platform.Communication/Protocol/Gexf/GraphMode.cs
   using System.Xml.Serialization;
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
   namespace Platform.Communication.Protocol.Gexf
5
6
7
        /// <summary>
        /// <para>
        /// The graph mode enum.
9
        /// </para>
10
        /// <para></para>
11
        /// </summary>
12
        public enum GraphMode
13
14
            /// <summary>
15
            /// <para>
16
            /// The static graph mode.
            /// </para>
18
            /// <para></para>
19
            /// </summary>
20
            [XmlEnum(Name = "static")]
^{21}
            Static,
23
            /// <summary>
^{24}
            /// <para>
25
            /// The dynamic graph mode.
^{26}
            /// </para>
27
            /// <para></para>
            /// </summary>
29
            [XmlEnum(Name = "dynamic")]
30
31
            Dynamic
        }
32
33
    ./csharp/Platform.Communication/Protocol/Gexf/Node.cs
   using System.Globalization;
   using System.Runtime.CompilerServices;
using System.Xml;
3
   using System.Xml.Serialization;
4
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
   namespace Platform.Communication.Protocol.Gexf
8
   {
        /// <summary>
        /// <para>
11
        /// Represents the node.
12
        /// </para>
13
        /// <para></para>
14
        /// </summary>
15
        public class Node
17
            /// <summary>
18
            /// <para>
19
            /// The element name.
20
            /// </para>
21
            /// <para></para>
            /// </summary>
            public static readonly string ElementName = "node";
^{24}
            /// <summary>
25
            /// <para>
26
            /// The id attribute name.
27
            /// </para>
            /// <para></para>
29
            /// </summary>
30
            public const string IdAttributeName = "id";
31
            /// <summary>
32
            /// <para>
33
            /// The label attribute name.
            /// </para>
            /// <para></para>
36
            /// </summary>
```

```
public const string LabelAttributeName = "label";
38
39
             /// <summary>
40
             /// <para>
             /// Gets or sets the id value.
42
             /// </para>
43
             /// <para></para>
44
             /// </summary>
45
             [XmlAttribute(AttributeName = IdAttributeName)]
46
            public long Id
47
48
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
49
50
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
51
                 set;
53
             /// <summary>
55
             /// <para>
56
             /// Gets or sets the label value.
             /// </para>
             /// <para></para>
59
             /// </summary>
60
             [XmlAttribute(AttributeName = LabelAttributeName)]
            public string Label
62
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
64
65
                 [{f MethodImpl}({f MethodImpl}{f Options}.{f AggressiveInlining})]
                 set:
67
             }
69
             /// <summary>
70
             /// <para>
71
            /// Writes the xml using the specified writer.
72
            /// </para>
73
             /// <para></para>
             /// </summary>
75
             /// <param name="writer">
76
             /// <para>The writer.</para>
77
             /// <para></para>
78
             /// </param>
79
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
80
            public void WriteXml(XmlWriter writer) => WriteXml(writer, Id, Label);
82
             /// <summary>
83
             /// <para>
84
             /// Writes the xml using the specified writer.
85
             /// </para>
86
             /// <para></para>
87
             /// </summary>
88
             /// <param name="writer">
89
             /// <para>The writer.</para>
            /// <para></para>
91
            /// </param>
92
             /// <param name="id">
             /// <para>The id.</para>
             /// <para></para>
95
             /// </param>
96
             /// <param name="label">
             /// ra>The label.
98
             /// <para></para>
99
             /// </param>
100
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
101
            public static void WriteXml(XmlWriter writer, long id, string label)
102
103
                 // <node id="0" label="..." />
104
                 writer.WriteStartElement(ElementName);
105
                 writer.WriteAttributeString(IdAttributeName,
106
                     id.ToString(CultureInfo.InvariantCulture));
                 writer.WriteAttributeString(LabelAttributeName, label);
107
                 writer.WriteEndElement();
108
            }
109
        }
110
    ./csharp/Platform.Communication/Protocol/Udp/UdpClientExtensions.cs
```

1.7 ./csharp/Platform.Communication/Protocol/Udp/UdpClientExtensions.cs
using System.Net;
using System.Net.Sockets;

```
using System.Runtime.CompilerServices;
3
   using System. Text;
4
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
   namespace Platform.Communication.Protocol.Udp
        /// <summary>
        /// <para>
11
        /// Represents the udp client extensions.
12
        /// </para>
13
       /// <para></para>
14
        /// </summary>
15
       public static class UdpClientExtensions
17
            /// <summary>
18
            /// <para>
19
            /// The utf
20
            /// </para>
21
            /// <para></para>
            /// </summary>
            public static readonly Encoding DefaultEncoding = Encoding.UTF8;
24
25
            /// <summary>
26
            /// <para>
            /// Sends the string using the specified udp.
            /// </para>
29
            /// <para></para>
30
            /// </summary>
31
            /// <param name="udp">
32
            /// <para>The udp.</para>
33
            /// <para></para>
            /// </param>
35
            /// <param name="ipEndPoint">
36
            /// <para>The ip end point.</para>
37
            /// <para></para>
            /// </param>
39
            /// <param name="message">
40
            /// <para>The message.</para>
            /// <para></para>
42
            /// </param>
43
            /// <returns>
44
            /// <para>The int</para>
^{45}
            /// <para></para>
46
            /// </returns>
47
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
48
            public static int SendString(this UdpClient udp, IPEndPoint ipEndPoint, string message)
50
                var bytes = DefaultEncoding.GetBytes(message);
51
                return udp.Send(bytes, bytes.Length, ipEndPoint);
            }
53
            /// <summary>
55
            /// <para>
56
            /// Receives the string using the specified udp.
            /// </para>
58
            /// <para></para>
59
            /// </summary>
60
            /// <param name="udp">
            /// <para>The udp.</para>
62
            /// <para></para>
63
            /// </param>
64
            /// <returns>
65
            /// <para>The string</para>
66
            /// <para></para>
67
            /// </returns>
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
69
            public static string ReceiveString(this UdpClient udp)
70
71
                IPEndPoint remoteEndPoint = default;
72
                return DefaultEncoding.GetString(udp.Receive(ref remoteEndPoint));
73
            }
74
        }
7.5
76
1.8
    ./csharp/Platform.Communication/Protocol/Udp/UdpReceiver.cs
  using System;
1
  using System. Net. Sockets;
   using System.Runtime.CompilerServices;
```

```
using System. Threading;
   using Platform.Disposables; using Platform.Exceptions;
   using Platform. Threading;
7
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
9
   namespace Platform.Communication.Protocol.Udp
11
12
        /// <summary>
13
        /// <para>
14
        /// The message handler callback.
        /// </para>
        /// <para></para>
17
        /// </summary>
18
        public delegate void MessageHandlerCallback(string message);
19
20
        /// <summary>
21
        /// <para>Represents the receiver of messages transfered via UDP protocol.</para>
22
        /// <para>Представляет получателя сообщений по протоколу UDP.</para>
23
^{24}
        /// </summary>
        public class UdpReceiver : DisposableBase //-V3073
25
26
             /// <summary>
27
            /// <para>
            /// The default port.
29
            /// </para>
30
            /// <para></para>
31
            /// </summary>
32
            private const int DefaultPort = 15000;
33
34
            /// <summary>
35
            /// <para>
36
            /// The receiver running.
37
            /// </para>
38
            /// <para></para>
39
            /// </summary>
            private bool _receiverRunning;
41
            /// <summary>
42
            /// <para>
43
            /// The thread.
44
            /// </para>
45
            /// <para></para>
            /// </summary>
47
            private Thread _thread;
48
            /// <summary>
49
            /// <para>
50
            /// The udp.
51
            /// </para>
52
            /// <para></para>
/// </summary>
53
54
            private readonly UdpClient _udp;
55
            /// <summary>
56
            /// <para>
            /// The message handler.
            /// </para>
/// <para></para>
59
60
            /// </summary>
            private readonly MessageHandlerCallback _messageHandler;
62
63
            /// <summary>
64
            /// <para>
65
            /// Gets the available value.
66
            /// </para>
67
            /// <para></para>
68
            /// </summary>
            public bool Available
70
71
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
72
                 get => _udp.Available > 0;
73
            }
75
            /// <summary>
76
            /// <para>
77
            /// Initializes a new <see cref="UdpReceiver"/> instance.
78
            /// </para>
            /// <para></para>
80
            /// </summary>
81
             /// <param name="listenPort">
82
```

```
/// <para>A listen port.</para>
83
             /// <para></para>
             /// </param>
85
             /// <param name="autoStart">
86
             /// <para>A auto start.</para>
             /// <para></para>
88
             /// </param>
89
             /// <param name="messageHandler">
90
             /// <para>A message handler.</para>
             /// <para></para>
92
             /// </param>
93
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public UdpReceiver(int listenPort, bool autoStart, MessageHandlerCallback messageHandler)
96
                 _udp = new UdpClient(listenPort);
97
                  _messageHandler = messageHandler;
98
                 if (autoStart)
99
                     Start();
101
                 }
102
             }
103
104
             /// <summary>
105
             /// <para>
             /// Initializes a new <see cref="UdpReceiver"/> instance.
107
             /// </para>
108
             /// <para></para>
109
             /// </summary>
110
             /// <param name="listenPort">
111
             /// <para>A listen port.</para>
112
             /// <para></para>
             /// </param>
114
             /// <param name="messageHandler">
115
             /// <para>A message handler.</para>
116
             /// <para></para>
117
             /// </param>
118
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
119
            public UdpReceiver(int listenPort, MessageHandlerCallback messageHandler) :
                this(listenPort, true, messageHandler) { }
121
             /// <summary>
             /// <para>
123
             /// Initializes a new <see cref="UdpReceiver"/> instance.
124
             /// </para>
125
             /// <para></para>
             /// </summary>
127
             /// <param name="messageHandler">
128
             /// <para>A message handler.</para>
129
             /// <para></para>
130
             /// </param>
131
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
132
            public UdpReceiver(MessageHandlerCallback messageHandler) : this(DefaultPort, true,
             → messageHandler) { }
134
             /// <summary>
135
             /// <para>
136
             /// Initializes a new <see cref="UdpReceiver"/> instance.
137
             /// </para>
138
             /// <para></para>
             /// </summary>
140
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
141
            public UdpReceiver() : this(DefaultPort, true, message => { }) { }
142
143
             /// <summary>
144
             /// <para>
             /// Starts this instance.
146
             /// </para>
147
             /// <para></para>
             /// </summary>
149
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
150
            public void Start()
151
                 if (!_receiverRunning && _thread == null)
153
154
                      _receiverRunning = true;
155
                      _thread = new Thread(Receiver);
156
                     _thread.Start();
                 }
```

```
159
160
             /// <summary>
161
             /// <para>
             /// Stops this instance.
163
             /// </para>
164
             /// <para></para>
165
             /// </summary>
166
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
167
             public void Stop()
168
169
170
                  if (_receiverRunning && _thread != null)
171
172
                       _receiverRunning = false;
                      _thread.Join();
173
                      _thread = null;
174
                  }
175
             }
176
177
             /// <summary>
178
             /// <para>
179
             /// Receives this instance.
             /// </para>
181
             /// <para></para>
182
             /// </summary>
183
             /// <returns>
184
             /// <para>The string</para>
185
             /// <para></para>
186
             /// </returns>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
188
             public string Receive() => _udp.ReceiveString();
189
190
             /// <summary>
191
             /// <para>
             /// Receives the and handle.
193
             /// </para>
194
             /// <para></para>
195
             /// </summary>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
197
             public void ReceiveAndHandle() => _messageHandler(Receive());
198
199
             /// <remarks>
200
             /// <para>The method receives messages and runs in a separate thread.</para>
201
             /// <para>Метод получает сообщения и работает в отдельном потоке.</para>
202
             /// </remarks>
203
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
204
             private void Receiver()
206
                  while (_receiverRunning)
{
207
208
209
                      try
210
                           if (Available)
212
                           {
                               ReceiveAndHandle();
213
                           }
214
                           else
215
216
                           {
                               ThreadHelpers.Sleep();
                           }
218
219
                      catch (Exception exception)
220
221
                           exception.Ignore();
222
223
224
                  }
             }
225
             /// <summary>
227
             /// <para>
228
             /// Disposes the manual.
229
230
             /// </para>
             /// <para></para>
231
             /// </summary>
232
             /// <param name="manual">
233
             /// <para>The manual.</para>
234
             /// <para></para>
235
             /// </param>
236
```

```
/// <param name="wasDisposed">
237
             /// <para>The was disposed.</para>
             /// <para></para>
239
             /// </param>
240
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
             protected override void Dispose(bool manual, bool wasDisposed)
242
243
                 if (!wasDisposed)
244
                     Stop();
246
                     _udp.DisposeIfPossible();
247
                 }
248
             }
        }
250
251
     ./csharp/Platform.Communication/Protocol/Udp/UdpSender.cs
    using System.Net;
    using System.Net.Sockets;
using System.Runtime.CompilerServices;
 2
 3
    using Platform.Disposables;
    #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
    namespace Platform.Communication.Protocol.Udp
 9
    {
         /// <summary>
10
        /// <para>Represents the sender of messages transfered via UDP protocol.</para>
11
        /// <para>Представляет отправителя сообщений по протоколу UDP.</para>
12
        /// </summary>
13
        public class UdpSender : DisposableBase //-V3073
14
             /// <summary>
16
             /// <para>
17
             /// The udp.
18
             /// </para>
19
             /// <para></para>
20
             /// </summary>
21
             private readonly UdpClient _udp;
22
             /// <summary>
23
             /// <para>
24
             /// The ipendpoint.
25
             /// </para>
26
             /// <para></para>
27
             /// </summary>
             private readonly IPEndPoint _ipendpoint;
29
30
             /// <summary>
31
             /// <para>
32
             /// Initializes a new <see cref="UdpSender"/> instance.
33
             /// </para>
34
             /// <para></para>
35
             /// </summary>
36
             /// <param name="ipendpoint">
37
             /// <para>A ipendpoint.</para>
38
             /// <para></para>
39
             /// </param>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
41
             public UdpSender(IPEndPoint ipendpoint) => (_udp, _ipendpoint) = (new UdpClient(),
42
             → ipendpoint);
43
             /// <summary>
44
             /// <para>
45
             /// Initializes a new <see cref="UdpSender"/> instance.
47
             /// </para>
             /// <para></para>
48
             /// </summary>
49
             /// <param name="address">
50
             /// <para>A address.</para>
51
             /// <para></para>
52
             /// </param>
             /// <param name="port">
54
             /// <para>A port.</para>
55
             /// <para></para>
             /// </param>
57
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
58
             public UdpSender(IPAddress address, int port) : this(new IPEndPoint(address, port)) { }
60
             /// <summary>
```

```
/// <para>
62
             /// Initializes a new <see cref="UdpSender"/> instance.
63
             /// </para>
64
             /// <para></para>
65
             /// </summary>
             /// <param name="hostname">
67
             /// <para>A hostname.</para>
68
             /// <para></para>
69
             /// </param>
            /// <param name="port">
7.1
             /// <para>A port.</para>
72
             /// <para></para>
73
             /// </param>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
7.5
            public UdpSender(string hostname, int port) : this(IPAddress.Parse(hostname), port) { }
76
77
             /// <summary>
78
             /// <para>
             /// Initializes a new <see cref="UdpSender"/> instance.
80
             /// </para>
81
             /// <para></para>
82
             /// </summary>
83
             /// <param name="port">
84
             /// <para>A port.</para>
85
             /// <para></para>
             /// </param>
87
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
88
            public UdpSender(int port) : this(IPAddress.Loopback, port) { }
89
90
             /// <summary>
             /// <para>
             /// Sends the message.
93
             /// </para>
94
             /// <para></para>
95
             /// </summary>
96
             /// <param name="message">
97
             /// <para>The message.</para>
98
             /// <para></para>
             /// </param>
100
             /// <returns>
101
             /// <para>The int</para>
102
             /// <para></para>
103
             /// </returns>
104
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
105
            public int Send(string message) => _udp.SendString(_ipendpoint, message);
107
             /// <summary>
108
            /// <para>
109
             /// Disposes the manual.
110
             /// </para>
111
             /// <para></para>
             /// </summary>
113
             /// <param name="manual">
114
             /// <para>The manual.</para>
115
             /// <para></para>
116
             /// </param>
117
             /// <param name="wasDisposed">
118
             /// <para>The was disposed.</para>
             /// <para></para>
120
             /// </param>
121
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
122
            protected override void Dispose(bool manual, bool wasDisposed)
123
124
                 if (!wasDisposed)
125
                 {
                      _udp.DisposeIfPossible();
127
128
             }
        }
130
131
       ./csharp/Platform.Communication/Protocol/Xml/Serializer.cs
1.10
   using System.IO;
    using System.Runtime.CompilerServices;
    using System. Text;
 3
    using System.Xml.Serialization;
 4
    #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
```

```
namespace Platform.Communication.Protocol.Xml
        /// <summary>
10
        /// <para>
11
        /// Represents the serializer.
12
        /// </para>
13
        /// <para></para>
14
        /// </summary>
15
        public static class Serializer<T>
16
17
            /// <summary>
18
            /// <para>
19
            /// The .
20
            /// </para>
21
            /// <para></para>
22
            /// </summary>
            public static readonly XmlSerializer Instance = new XmlSerializer(typeof(T));
            /// <summary>
26
            /// <para>
27
            /// Creates the file using the specified path.
28
            /// </para>
            /// <para></para>
30
            /// </summary>
31
            /// <param name="path">
32
            /// <para>The path.</para>
33
            /// <para></para>
34
            /// </param>
            /// <returns>
            /// <para>The</para>
37
            /// <para></para>
38
            /// </returns>
39
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
40
            public static T FromFile(string path)
41
42
                using var stream = File.OpenRead(path);
                return (T) Instance.Deservalize(stream);
44
45
46
            /// <summary>
47
            /// <para>
48
            /// Creates the string using the specified xml.
            /// </para>
/// <para></para>
50
51
            /// </summary>
52
            /// <param name="xml">
53
            /// <para>The xml.</para>
54
            /// <para></para>
            /// </param>
            /// <returns>
57
            /// <para>The</para>
58
            /// <para></para>
            /// </returns>
60
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
61
            public static T FromString(string xml)
                using var reader = new StringReader(xml);
64
                return (T)Instance.Deserialize(reader);
65
            }
67
            /// <summary>
            /// <para>
69
            /// Returns the file using the specified object.
70
71
            /// </para>
            /// <para></para>
72
            /// </summary>
73
            /// <param name="@object">
74
            /// <para>The object.</para>
75
            /// <para></para>
            /// </param>
77
            /// <param name="path">
78
            /// <para>The path.</para>
79
            /// <para></para>
80
            /// </param>
81
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public static void ToFile(T @object, string path)
83
```

```
using var stream = File.OpenWrite(path);
                 Instance.Serialize(stream, @object);
             }
87
             /// <summary>
89
             /// <para>
90
             /// Returns the string using the specified object.
91
             /// </para>
92
             /// <para></para>
93
             /// </summary>
94
             /// <param name="@object">
             /// <para>The object.</para>
             /// <para></para>
97
             /// </param>
98
             /// <returns>
             /// <para>The string</para>
100
             /// <para></para>
101
             /// </returns>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
103
             public static string ToString(T @object)
104
105
                 var sb = new StringBuilder();
106
                 using (var writer = new StringWriter(sb))
107
                 {
108
                     Instance.Serialize(writer, @object);
                 }
110
                 return sb.ToString();
111
             }
112
        }
113
    }
114
1.11
       ./csharp/Platform.Communication.Tests/SerializerTests.cs
    using System;
    using System. IO;
   using Xunit;
 3
    using Platform.Singletons;
    using Platform.Communication.Protocol.Xml;
    namespace Platform.Communication.Tests
        /// <summary>
 q
        /// <para>
10
        /// Represents the serializer tests.
        /// </para>
12
        /// <para></para>
13
        /// </summary>
14
        public static class SerializerTests
15
16
             /// <summary>
             /// <para>
18
             /// Tests that serialize to file test.
19
20
             /// </para>
             /// <para></para>
/// </summary>
21
22
             [Fact]
23
             public static void SerializeToFileTest()
25
                 var tempFilename = Path.GetTempFileName();
26
                 Serializer<object>.ToFile(Default<object>.Instance, tempFilename);
27
                 Assert.Equal(File.ReadAllText(tempFilename), $\"<?xml
                     version=\"1.0\"?>{Environment.NewLine}<anyType</pre>
                     xmlns:xsi=\"http://www.w3.org/2001/XMLSchema-instance\"
                     xmlns:xsd=\"http://www.w3.org/2001/XMLSchema\" />");
                 File.Delete(tempFilename);
29
             }
30
             /// <summary>
32
             /// <para>
33
             /// Tests that serialize as xml string test.
             /// </para>
35
             /// <para></para>
36
             /// </summary>
             [Fact]
             public static void SerializeAsXmlStringTest()
39
40
                 var serializedObject = Serializer<object>.ToString(Default<object>.Instance);
```

```
Assert.Equal(serializedObject, $\crime{\sigma}''<?xml version=\"1.0\"
42
                 encoding=\"utf-16\"?>{Environment.NewLine}<anyType
                 xmlns:xsi=\"http://www.w3.org/2001/XMLSchema-instance\"

    xmlns:xsd=\"http://www.w3.org/2001/XMLSchema\" />");

            }
       }
^{44}
   }
45
1.12 ./csharp/Platform.Communication.Tests/UdpReceiverTests.cs
   using Xunit;
   using Platform.Communication.Protocol.Udp;
3
   namespace Platform.Communication.Tests
4
5
       /// <summary>
6
       /// <para>
        /// Represents the udp receiver tests.
       /// </para>
/// <para></para>
/// </summary>
9
10
11
       public static class UdpReceiverTests
12
13
            /// <summary>
14
            15
16
            /// </para>
17
            /// <para></para>
18
            /// </summary>
19
            [Fact]
            public static void DisposalTest()
21
22
                using var receiver = new UdpReceiver();
23
            }
24
       }
25
  }
26
```

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