**Address binary serialization specification**

**Version**: 1.0

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**Last modified by**: Alexei Rebrov

**Revision list**:

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Description |
| 1.0 | 29.04.12 | Alexei Rebrov | Added BinaryReader/BinaryWriter using |

**Summary**: This specification provides rules for binary serialization of Address mock object to stream.

**Read method definition:**

void Read(Stream inStream)

Reads Address mock fields content from stream.

**Write method definition:**

void Write(Stream outStream)

Writes Address mock fields content to stream.

**Serialized Address structure** (each cell is 4 bytes)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | … |  |

PersonID value

LName value

AddressValue value

PersonID nullable flag

ID value

AddressValue length

**Serialization contest definition**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Order | Field name | Type | Absolute size (bytes) | Signed | IsNull | Encoding | Fixed size |
| 1 | ID | Int | 4 | + | - |  | + |
| 2 | PersonID | int | 4 | + | + |  | + |
| 3 | AddressValue | string | 100 | - | - | Unicode | 50 chars |

If string is empty, then on its length place writes -1

If int value equals 0, then it’s nullable flag is -1