## Subject: Re: strange behaviour of Vector serialization Posted by mirek on Sun, 31 May 2020 22:19:06 GMT

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michael79 wrote on Sun, 31 May 2020 14:19Here is the serialization of struct data which contains Vector(byte):

```
#pragma pack(push, 1)
struct OttMessage
{
  uint16 descriptor;
  uint16 msgNum;
  int32 sec;
  int32 nsec:
  Vector<br/>byte> data;
  void Serialize(Stream& s)
   s % descriptor % msgNum % sec % nsec % data;
};
#pragma pack(pop)
DUMP of buffer show the next:
(int)buf[0] = 102
(int)buf[1] = 0
(int)buf[2] = 111
(int)buf[3] = 0
(int)buf[4] = 123
(int)buf[5] = 0
(int)buf[6] = 0
(int)buf[7] = 0
(int)buf[8] = 222
(int)buf[9] = 0
(int)buf[10] = 0
(int)buf[11] = 0
(int)buf[12] = 7
(int)buf[13] = 10
(int)buf[14] = 144
(int)buf[15] = 56
(int)buf[16] = 233
(int)buf[17] = 77
```

Data from Vector begins since buf[12], but the value 7 unexpectable, it was not added to Vector.

When I change Serialize() as the following, then all data correct:

```
void Serialize(Stream& s)
  s % descriptor % msgNum % sec % nsec;
  for(int i = 0; i < data.size(); i++)
s % data[i];
}
(int)buf[0] = 102
(int)buf[1] = 0
(int)buf[2] = 111
(int)buf[3] = 0
(int)buf[4] = 123
(int)buf[5] = 0
(int)buf[6] = 0
(int)buf[7] = 0
(int)buf[8] = 222
(int)buf[9] = 0
(int)buf[10] = 0
(int)buf[11] = 0
(int)buf[12] = 10
(int)buf[13] = 144
(int)buf[14] = 56
(int)buf[15] = 233
(int)buf[16] = 77
(int)buf[17] = 188
```

Can anyone explane such strange behaviour? Why I need to add Vector data one by one?

Well, it would not hurt if you posted more code. So I can only guess the buf is the result of Serialization (e.g. StoreAsString) etc...

In any case, the content of serialized code is the responsibility of class that does Serialize and there is no guarantee about what it contains.

In this case, it is definitely needed to store the number of elements. So I guess that is what that 7 is.

Mirek