Fix size buffer

Fixed size buffers are used to declare **C style** in-line arrays as members of structs. Fixed size buffers are primarily useful for interfacing with unmanaged APIs. Fixed size buffers are an unsafe feature, and fixed size buffers can only be declared in unsafe contexts.

A fixed size buffer is a member that represents storage for a fixed length buffer of variables of a given type. A fixed size buffer declaration introduces one or more fixed size buffers of a given element type. Fixed size buffers are only permitted in struct declarations and can only occur in unsafe contexts.

A fixed size buffer declaration that declares multiple fixed size buffers is equivalent to multiple declarations of a single fixed sized buffer declaration with the same attributes, and element types.

O This code:

```
unsafe struct A
{
    public fixed int x[5], y[10], z[100];
}
```

is equivalent to

```
unsafe struct A
{
   public fixed int x[5];
   public fixed int y[10];
   public fixed int z[100];
}
```

Reversed UML model: Attribute x Element Properties: S Zoom Documentation E Properties А Properties 12 V -x : int [5] -y : int [10] -z : int [100] Tags Traceability Element Language properties te di et et Expert Property Name х false Is ID Qualified Name A::x int [UML Standard Profile::MagicDraw Pro... Type Type Modifier Visibility private Default Value Owner 🗖 🗖 Applied Stereotype «» C#Attribute [Property] [C# Profile] Multiplicity 5 🗌 false Is Read Only Is Static false none Aggregation Is Derived false Is Ordered false Is Unique ✓ true Subsetted Property Redefined Property

To declare fix size buffer, you need in C# Language Properties set Property Fixed value to true:

🔀 Specification of Property x		×
 -x: int [5] Documentation/Hyperlinks Usage in Diagrams Usage in Diagrams Inner Elements Relations Relations Connectors Tags Constraints C++ Language Properties Traceability 	C# Language Properties	
	Container Conversion type Extern Extern Alias Fixed Initialization Internal	■ <undefined></undefined>
C# Language Properties	New Q Type here to filter properties	<pre><undefined></undefined></pre>
		Close Help