

# Robotics Service Bus - Bug #338

## Clarify Meaning of "string" Wire-schema

05/28/2011 03:12 AM - J. Moringen

<b>Status:</b>	Resolved	<b>Start date:</b>	05/28/2011
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	100%
<b>Category:</b>	Documentation	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	0.3		
<b>Description</b>			
Possible interpretations			
- UTF-8 string (as in Protocol Buffers)			
- ASCII string			
- Array of bytes			
Should be handled with two string wire-schemas:			
- utf-8-string: decoding attempts on invalid data should signal an error			
- ascii-string: decoding attempts on invalid data should signal an error			
Language-specific details are documented in [[Types]]. <b>In particular, limitations of the current C++ implementation are discussed there.</b>			
<b>Related issues:</b>			
Related to Robotics Service Bus - Bug # 367: Wire Schema Error on Deserializi...		<b>Resolved</b>	<b>06/11/2011</b>

### Associated revisions

#### Revision 815fcb2c - 06/11/2011 08:40 PM - J. Wienke

- use bytearray for SpreadPort instead of str
- adapt handling of strings refs #338

#### Revision 6a9912a8 - 06/12/2011 06:10 PM - J. Moringen

Improved define-basic-converter-test-cases in test/converter/package.lisp

refs #338

- test/converter/package.lisp (define-basic-converter-test-cases):  
generate additional test cases domain->wire-smoke and  
wire->domain-smoke; allow wire-data and domain-object to be :error  
to indicate a failing conversion for one direction

#### Revision 89978fd3 - 06/12/2011 06:10 PM - J. Moringen

Split string into utf-8 and ascii in src/converter/fundamental.lisp

refs #338

- src/converter/fundamental.lisp  
(wire->domain? eql :fundamental-ascii-string simple-array eql  
:ascii-string): new method; part of new ASCII converter  
(domain->wire? eql :fundamental-ascii-string string): likewise  
(wire->domain eql :fundamental-ascii-string simple-array eql  
:ascii-string): likewise  
(domain->wire eql :fundamental-ascii-string string): likewise  
(wire->domain? eql :fundamental-utf-8-string simple-array eql  
:utf-8-string): changed specializers :fundamental-string >  
~~:fundamental-utf-8-string and :string > :utf-8-string~~

~~(domain->wire? eql :fundamental-utf-8-string string): similar  
(wire->domain eql :fundamental-utf-8-string simple-array eql  
:utf-8-string): similar  
(domain->wire eql :fundamental-utf-8-string string): similar~~  
- test/converter/fundamental.lisp (file local variables): added utf-8  
coding  
(define-basic-converter-test-cases :fundamental-null): added more  
cases  
(test suite fundamental-ascii-string-root): new test suite; for  
fundamental-ascii-string converter  
(define-basic-converter-test-cases :fundamental-ascii-string): new  
basic test case definition  
(test suite fundamental-utf-8-string-root): renamed  
fundamental-string-root > ~~fundamental-utf-8-string-root~~  
~~(define-basic-converter-test-cases :fundamental-utf-8-string): added~~  
~~test cases that actually exercise UTF-8 on and decoding~~

#### **Revision b50689b2 - 06/12/2011 06:10 PM - J. Moringen**

Fixed default converter for strings in src/configuration.lisp

refs #338

- src/configuration.lisp (options-from-default-sources): use  
:fundamental-utf-8-string instead of :fundamental-string as default  
converter

#### **Revision 9cb8e77b - 06/12/2011 08:24 PM - J. Wienke**

make properties aware of utf8 and ascii and leave string for backwards compatibility refs #338

#### **Revision 4f891c56 - 06/12/2011 09:16 PM - J. Moringen**

Changes for changed converter name in lisp/config.lisp

refs #338

- lisp/config.lisp: changed option name ... :string ->  
... :utf-8-string

## **History**

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### **#1 - 06/09/2011 03:48 PM - J. Moringen**

- *Description updated*

### **#2 - 06/10/2011 01:07 PM - J. Wienke**

Forced ASCII-Conversion for Java.

### **#3 - 06/10/2011 01:12 PM - J. Wienke**

- % Done changed from 0 to 20

### **#4 - 06/10/2011 03:01 PM - J. Moringen**

- *Description updated*

we will skip the intermediate solution

**#5 - 06/12/2011 06:10 PM - J. Moringen**

- % Done changed from 20 to 70

**#6 - 06/12/2011 09:32 PM - J. Moringen**

- Description updated

- Status changed from New to Resolved

**#7 - 06/23/2011 10:26 PM - J. Moringen**

- % Done changed from 70 to 100