# Protocols String Services Test

## EFI\_REGULAR\_EXPRESSION\_PROTOCOL Test

Reference Document:

*UEFI Specification*, EFI\_REGULAR\_EXPRESSION\_PROTOCOL Section.

### MatchString()

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| Number | GUID | Assertion | Test Description |
| 5.35.1.1.1 | 0x9cec70a0, 0xfb56, 0x4b7f, 0x95, 0x31, 0xeb, 0xd0, 0x61, 0xa2, 0xcf, 0x8f | EFI\_REGULAR\_EXPRESSION\_PROTOCOL. MatchString() - MatchString()returns EFI\_INVALID\_PARAMETER when String is NULL. | 1. Call MatchString() when String is NULL, the return status should be EFI\_INVALID\_PARAMETER. |
| 5.35.1.1.2 | 0xfdceb7d8, 0x5fb7, 0x43c8, 0x8f, 0xa8, 0xec, 0xf, 0x7f, 0x14, 0x34, 0x29 | EFI\_REGULAR\_EXPRESSION\_PROTOCOL. MatchString() - MatchString()returns EFI\_INVALID\_PARAMETER when Pattern is NULL. | 1. Call MatchString() when Pattern is NULL, the return status should be EFI\_INVALID\_PARAMETER. |
| 5.35.1.1.3 | 0x76813d40, 0xd2a7, 0x4912, 0x9e, 0xc4, 0x96, 0x6b, 0x14, 0x15, 0x4b, 0x51 | EFI\_REGULAR\_EXPRESSION\_PROTOCOL. MatchString() - MatchString()returns EFI\_INVALID\_PARAMETER when Result is NULL. | 1. Call MatchString() when Result is NULL, the return status should be EFI\_INVALID\_PARAMETER. |
| 5.35.1.1.4 | 0xea3de64c, 0xe402, 0x43a7, 0xb4, 0x77, 0x66, 0xcd, 0xf5, 0x13, 0x1e, 0x85 | EFI\_REGULAR\_EXPRESSION\_PROTOCOL. MatchString() - MatchString()returns EFI\_INVALID\_PARAMETER when CapturesCount is NULL. | 1. Call MatchString() when CapturesCount is NULL, the return status should be EFI\_INVALID\_PARAMETER. |
| 5.35.1.1.5 | 0x98dee30e, 0xdc2b, 0x4dc6, {0x83, 0x10, 0xf8, 0x85, 0x17, 0x2f, 0x4c, 0xc8 | EFI\_REGULAR\_EXPRESSION\_PROTOCOL. MatchString() - MatchString()returns EFI\_UNSUPPORTED with unsupported SyntaxType. | 1. Call MatchString() with unsupported SyntaxType, the return status should be EFI\_UNSUPPORTED. |
| 5.35.1.1.6 | 0x94407424, 0xc17e, 0x4a28, 0xb7, 0x84, 0x3f, 0x84, 0x39, 0xcf, 0x30, 0x96 | EFI\_REGULAR\_EXPRESSION\_PROTOCOL. MatchString() - MatchString()returns EFI\_SUCCESS with all supported SyntaxType. | 1. Call MatchString() with all supported SyntaxType, the return status should be EFI\_SUCCESS. |
| 5.35.1.1.7 | 0x3d3be925, 0xfbf3, 0x425c, 0xbd, 0xd, 0x2b, 0x95, 0x2f, 0xf3, 0xbf, 0xe8 | EFI\_REGULAR\_EXPRESSION\_PROTOCOL. MatchString() - MatchString()returns EFI\_SUCCESS with default SyntaxType. | 1. Call MatchString() with default SyntaxType, the return status should be EFI\_SUCCESS. |

### GetInfo()

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| Number | GUID | Assertion | Test Description |
| 5.35.1.2.1 | 0x3219e1b1, 0xac3a, 0x4f53, 0x99, 0x11, 0xf3, 0x25, 0x44, 0x5b, 0xa8, 0x26 | EFI\_REGULAR\_EXPRESSION\_PROTOCOL. GetInfo() - GetInfo()returns EFI\_BUFFER\_TOO\_SMALL when SyntaxTypeListSize is too small to hold the result. | 1. Call GetInfo() when SyntaxTypeListSize is too small to hold the result, the return status should be EFI\_BUFFER\_TOO\_SMALL. The outputted SyntaxTypeListSize should be the multiple of size of EFI\_REGEX\_SYNTAX\_TYPE. |
| 5.35.1.2.2 | 0x5a216f4d, 0xb4fe, 0x486d, 0x8e, 0x2e, 0x7b, 0xf9, 0x98, 0x47, 0x62, 0xbd | EFI\_REGULAR\_EXPRESSION\_PROTOCOL. GetInfo() - GetInfo()returns EFI\_INVALID\_PARAMETER when SyntaxTypeListSize is NULL. | 1. Call GetInfo() when SyntaxTypeListSize is NULL, the return status should be EFI\_INVALID\_PARAMETER. |
| 5.35.1.2.3 | 0x5365a661, 0xdb02, 0x46ed, 0xb8, 0x3e, 0xbc, 0x71, 0x6d, 0x6a, 0x8b, 0xb4 | EFI\_CONFIG\_KEYWORD\_HANDLER\_PROTOCOL. GetData() - GetData()returns EFI\_SUCCESS with valid parameters. | 1. Call GetInfo() with valid parameters, the return status should be EFI\_SUCCESS. The outputted SyntaxTypeListSize should be same as the input size. |
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