# Autodesk®
# Scaleform®

Flash Support Overview

# Table of Contents

# Overview

This document provides up to date listing of Flash functionality supported by Scaleform.

Last Edited: December 4 , 2012

Version: 4.2.22

**Copyright Notice**

<div align="center">

**Autodesk® Scaleform® 4.2**

</div>

# Control Tags

SWF control tags used in GFx.

| Tag Type | Name | SWF Version | Deprecated | Supported | Comment | GFx |
|---|---|---|---|---|---|---|
| 0 | End | 1 | | Yes | Implemented in GFxMovieDefImpl.Read | 1.0 |
| 1 | ShowFrame | 1 | | Yes | Implemented in GFxMovieDefImpl.Read, moves to next frame | 1.0 |
| 2 | DefineShape | 1 | | Yes | | 1.0 |
| 3 | FreeCharacter | 1 | | No | | 1.0 |
| 4 | PlaceObject | 1 | | Yes | | 1.0 |
| 5 | RemoveObject | 1 | | Yes | | 1.0 |
| 6 | DefineBits | 1 | | Yes | | 1.0 |
| 7 | DefineButton | 1 | | Yes | | 1.0 |
| 8 | JPEGTables | 1 | | Yes | | 1.0 |
| 9 | SetBackgroundColor | 1 | | Yes | | 1.0 |
| 10 | DefineFont | 1 | | Yes | | 1.0 |
| 11 | DefineText | 1 | | Yes | | 1.0 |
| 12 | DoAction | 1 | | Yes | | 1.0 |
| 13 | DefineFontInfo | 1 | | Yes | | 1.0 |
| 14 | DefineSound | 2 | | Yes | | 3.0.63 |
| 15 | StartSound | 2 | | Yes | | 3.0.63 |
| 17 | DefineButtonSound | 2 | | Yes | | 3.0.63 |
| 18 | SoundStreamHead | 2 | | Yes | | 3.0.63 |
| 19 | SoundStreamBlock | 2 | | Yes | | |
| 20 | DefineBitsLossless | 2 | | Yes | | 1.0 |
| 21 | DefineBitsJPEG2 | 2 | | Yes | | 1.0 |
| 22 | DefineShape2 | 2 | | Yes | | 1.0 |
| 23 | DefineButtonCxform | 2 | | No | | |
| 24 | Protect | 2 | | Partial | Handled but no implementation exists | |
| 26 | PlaceObject2 | 3 | | Yes | | 1.0 |
| 28 | RemoveObject2 | 3 | | Yes | | 1.0 |
| 32 | DefineShape3 | 3 | | Yes | | 1.0 |
| 33 | DefineText2 | 3 | | Yes | | 1.0 |
| 34 | DefineButton2 | 3 | | Yes | | 1.0 |
| 35 | DefineBitsJPEG3 | 3 | | Yes | | 1.0 |
| 36 | DefineBitsLossless2 | 3 | | Yes | | 1.0 |
| 37 | DefineEditText | 4 | | Yes | | 1.0 |
| 39 | DefineSprite | 3 | | Yes | | 1.0 |
| 40 | NameCharacter | 3 | | No | | |
| 41 | SerialNumber | 3 | | No | | |
| 42 | GeneratorText | 3 | | No | | |

| | | | | | |
|---|---|---|---|---|---|
| 43 | FrameLabel | 3 | | Yes | 1.0 |
| 45 | SoundStreamHead2 | 3 | | Yes | 3.0.63 |
| 46 | DefineMorphShape | 3 | | Yes | 1.0 |
| 48 | DefineFont2 | 3 | | Yes | Code page text may not render correctly | 1.0 |
| 49 | DefineInfo | 3 | | No | |
| 51 | Generator3 | 5 | | No | |
| 52 | ExternalFont | 5 | | No | |
| 56 | Export | 5 | | Yes | 1.0 |
| 57 | Import | 5 | | Yes | 1.0 |
| 58 | ProtectDebug | 5 | | No | |
| 59 | DoInitAction | 6 | | Yes | 1.0 |
| 60 | DefineVideoStream | 6 | | No | |
| 61 | VideoFrame | 6 | | No | |
| 62 | DefineFontInfo2 | 6 | | Yes | 2.0.38 |
| 64 | ProtectDebug2 | 6 | | No | |
| 65 | ScriptLimits | 7 | | No | |
| 66 | SetTabIndex | 7 | | No | |
| 67 | DefineShape4 | 8 | | No | |
| 69 | FileAttributes | 8 | | Yes | 1.0.11 |
| 70 | PlaceObject3 | 8 | | Partial | Loads shapes, will not apply filters | 1.0.11 |
| 71 | ImportAssets2 | 8 | | Partial | 1.0.18 |
| 73 | DefineFontInfo3 | 8 | | No | Content: FontId, flags, + data. Potentially used for bmp fonts |
| 74 | DefineTextInfo | 8 | | No | |
| 75 | DefineFont3 | 8 | | Yes | 1.0.12 |
| 77 | Metadata | 8 | | Yes | 1.0.11 |
| 78 | Slice9 | 8 | | Yes | 2.1.49 |
| 83 | DefineShape5 | 8 | | Yes | 1.0.11 |
| 84 | DefineMorphShape2 | 8 | | Yes | 1.0.11 |
| | | | | | |
| | **GFx Extensions** | | | | |
| 1000 | ExporterInfo | | | Yes | 1.1.27 |
| 1001 | DefineExternalImage | | | Yes | 1..1.27 |
| 1002 | FontTextureInfo | | | Yes | 1.1.29 |
| 1003 | DefineExternalGradientImage | | | Yes | 1.1.29 |
| 1004 | DefineGradientMap | | | Yes | Used for gradient sharing | 1.1.30 |
| 1005 | DefineCompactedFont | | | Yes | Used for compressed fonts | 2.2.53 |
| 1006 | DefineExternalSound | | | Yes | Used for sound extracted with gfxexport | 3.0.63 |
| 1007 | DefineExternalStreamSound | | | Yes | Used for streaming sound extracted with gfxexport | 3.0.63 |

# Global Functions

SWF global functions used in GFx.

| Opcode | Name | SWF Version | Deprecated | Supported | Comment | GFx |
|---|---|---|---|---|---|---|
| 0x06 | gotoAndPlay | 2 | | Yes | 0x81 - goto 0x06 - ActionPlay / Sprite Builtins implements | 1.0 |
| 0x07 | gotoAndStop | 2 | | Yes | 0x81 - goto 0x07 - ActionStop / Sprite Builtins implements | 1.0 |
| 0x04 | nextFrame | 2 | | Yes | 0x04 - ActionNextFrame / Sprite Builtins implements | 1.0 |
| | nextScene | 2 | | Yes | | 1.0 |
| | on | 2 | | Yes | | 1.0 |
| | play | 2 | | Yes | | 1.0 |
| 0x05 | prevFrame | 2 | | Yes | 0x05 - ActionPrevFrame / Sprite Builtins implements | 1.0 |
| | prevScene | 2 | | Yes | | 1.0 |
| | stop | 2 | | Yes | | 1.0 |
| 0x08 | toggleHighQuality | 2 | 5 | No | 0x08 - ActionToggleQuality | |
| | loadMovie | 3 | | Yes | | 1.0.23 |
| | loadMovieNum | 3 | | Yes | | 1.0.23 |
| | stopAllSounds | 3 | | No | | |
| | tellTarget | 3 | 5 | Yes | | 1.0 |
| | unloadMovie | 3 | | Yes | | 1.0.23 |
| | unloadMovieNum | 3 | | Yes | | 1.0.23 |
| | call | 4 | 5 | Yes | | 1.0 |
| 0x33 | chr | 4 | 5 | Yes | 0x33 - ActionAsciiToChar | 1.0 |
| 0x4C | duplicateMovieClip | 4 | | Yes | 0x4C - ActionPushDuplicate | 1.0 |
| 0x22 | getProperty | 4 | | Yes | 0x22 - ActionGetProperty | 1.0 |
| 0x34 | getTimer | 4 | | Yes | 0x34 - ActionGetTime | 1.0 |
| 0x83 | getURL | 4 | | Yes | 0x83 - ActionGetURL | 1.0 |
| | ifFrameLoaded | 4 | | Yes | Always true before progressive loading support in 2.1.50 | 2.1.50 |
| | int | 4 | | Yes | | 1.0 |
| | length | 4 | | Yes | | 1.0 |
| | loadVariables | 4 | | Yes | | 1.2.36 |
| | loadVariablesNum | 4 | | Yes | | 1.2.36 |
| 0x37 | mbchr | 4 | 5 | Yes | 0x37 - ActionMBAsciiToChar | 1.0 |
| 0x31 | mblength | 4 | 5 | Yes | 0x31 - ActionMBStringLength | 1.0 |
| 0x36 | mbord | 4 | 5 | Partial | 0x36 - ActionMBCharToAscii; SWF 6+ ok, some issues for SWF 5 | |
| 0x35 | mbsubstring | 4 | 5 | Yes | 0x35 - ActionMBStringExtract | 1.0 |
| | Number | 4 | | Yes | | 1.0.20 |
| 0x32 | ord | 4 | 5 | Yes | 0x32 - ActionCharToAscii | 1.0 |
| | print | 4 | | No | | |
| | printAsBitmap | 4 | | No | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0x30 | random | 4 | 5 | Yes | 0x30 - ActionRandomNumber | 1.0 |
| 0x25 | removeMovieClip | 4 | | Yes | 0x25 - ActionRemoveSprite | 1.0 |
| 0x23 | setProperty | 4 | | Yes | 0x23 - ActionSetProperty | 1.0 |
| | startDrag | 4 | | Yes | | 1.0 |
| | stopDrag | 4 | | Yes | | 1.0 |
| | String | 4 | | Yes | | 1.0 |
| 0x15 | substring | 4 | 5 | Yes | 0x15 - ActionStringExtract | 1.0 |
| 0x26 | trace | 4 | | Yes | 0x26 - ActionTrace | 1.0 |
| 0x8E | asfunction | 5 | | Yes | 0x8E - function2 | 1.0 |
| | Boolean | 5 | | Yes | | 1.0 |
| | escape | 5 | | Yes | | 1.0.22 |
| | eval | 5 | | Yes | | 1.1.25 |
| | getVersion | 5 | | Yes | | |
| | isFinite | 5 | | Yes | | 1.1.25 |
| | isNaN | 5 | | Yes | | 1.1.25 |
| | Object | 5 | | Yes | | 1.1.28 |
| | onClipEvent | 5 | | Yes | | 1.0 |
| | parseFloat | 5 | | Yes | | 1.0 |
| | parseInt | 5 | | Yes | | 1.0 |
| | printAsBitmapNum | 5 | | No | print and PrintJob are not implemented | |
| | printNum | 5 | | No | print and PrintJob are not implemented | |
| 0x45 | targetPath | 5 | | Yes | | 1.0.23 |
| | unescape | 5 | | Yes | | 1.0.22 |
| | updateAfterEvent | 5 | | Partial | empty stub is added, no need to do anything in it | |
| | Array | 6 | | Yes | | 1.0 |
| | clearInterval | 6 | | Yes | | 1.1.26 |
| | setInterval | 6 | | Yes | | 1.1.26 |
| | clearTimeout | 8 | | Yes | | 2.0.47 |
| | setTimeout | 8 | | Yes | | 2.0.47 |
| | MMExecute | 7 | | No | | |
| | showRedrawRegions | 8 | | No | | |
| | fscommand | | | Yes | | 1.0 |
| | | | | | | |
| | _accProps | 6 | | No | | |
| | _focusrect | 4 | | Yes | | 1.1.26 |
| | _global | 6 | | Yes | | 1.0 |
| | _highquality | 4 | 5 | Partial | | |
| | _level | 4 | | Yes | | 1.0.23 |
| | maxscroll | 4 | 5 | No | | |
| | _parent | 5 | | Yes | | 1.0 |
| | _quality | 5 | | No | | |
| | _root | 5 | | Yes | | 1.0 |

| | scroll | 4 | | No | | |
|---|---|---|---|---|---|---|
| | _soundbuftime | 4 | | Partial | No sound in GFx but soundbuftime is defined | |
| | this | 5 | | Yes | | 1.0 |
| | | | | | | |
| | **Undocumented** | | | | | |
| | ASSetPropFlags | ? | | Yes | | 1.0 |
| | ASnative | ? | | Partial | Only mouse interface is supported - args (800,2). | 1.2.32 |
| | | | | | | |
| | **GFx Extensions** | | | | | |
| | _global.gfxExtensions | EXT | | | Must be set to true to enable other GFX extensions | 1.2.32 |
| | _global.gfxVersion | EXT | | | Contains GFx version number | 1.2.32 |
| | _global.imecommand | EXT | | | Similar to fscommand, but used for IME only | 2.1.50 |
| | _global.setIMECandidateListStyle | EXT | | | Sets styles for IME candidate list | 2.1.50 |
| | _global.getIMECandidateListStyle | EXT | | | Returns styles for IME candidate list | 2.1.50 |
| | _global.noInvisibleAdvance | EXT | | | Turns off advancing of all invisible characters | 2.1.52 |

# AS2 Action Ops

Flash AS2 Action Ops used in GFx.

| Opcode | Name | SWF Version | Deprecated | Supported | Comment | GFx |
|--------|------|-------------|------------|-----------|---------|-----|
| 0x00 | ActionEnd | 3 | | Yes | | 1.0 |
| 0x04 | ActionNextFrame | 3 | | Yes | | 1.0 |
| 0x05 | ActionPrevFrame | 3 | | Yes | | 1.0 |
| 0x06 | ActionPlay | 3 | | Yes | | 1.0 |
| 0x07 | ActionStop | 3 | | Yes | | 1.0 |
| 0x08 | ActionToggleQuality | 3 | | Partial | Opcode handled, quality not supported | |
| 0x09 | ActionStopSounds | 3 | | Yes | | 3.0.63 |
| 0x0A | ActionAdd | 4 | | Yes | | 1.0 |
| 0x0B | ActionSubtract | 4 | | Yes | | 1.0 |
| 0x0C | ActionMultiply | 4 | | Yes | | 1.0 |
| 0x0D | ActionDivide | 4 | | Yes | | 1.0 |
| 0x0E | ActionEquals | 4 | | Yes | | 1.0 |
| 0x0F | ActionLess | 4 | | Yes | | 1.0 |
| 0x10 | ActionAnd | 4 | | Yes | | 1.0 |
| 0x11 | ActionOr | 4 | | Yes | | 1.0 |
| 0x12 | ActionNot | 4 | | Yes | | 1.0 |
| 0x13 | ActionStringEquals | 4 | | Yes | | 1.0 |
| 0x14 | ActionStringLength | 4 | | Yes | | 1.0 |
| 0x15 | ActionStringExtract | 4 | | Yes | | 1.0 |
| 0x17 | ActionPop | 4 | | Yes | | 1.0 |
| 0x18 | ActionToInteger | 4 | | Yes | | 1.0 |
| 0x1C | ActionGetVariable | 4 | | Yes | | 1.0 |
| 0x1D | ActionSetVariable | 4 | | Yes | | 1.0 |
| 0x20 | ActionSetTarget2 | 4 | | Yes | | 1.0 |
| 0x21 | ActionStringAdd | 4 | | Yes | | 1.0 |
| 0x22 | ActionGetProperty | 4 | | Yes | | 1.0 |
| 0x23 | ActionSetProperty | 4 | | Yes | | 1.0 |
| 0x24 | ActionCloneSprite | 4 | | Yes | | 1.0 |
| 0x25 | ActionRemoveSprite | 4 | | Yes | | 1.0 |
| 0x26 | ActionTrace | 4 | | Yes | | 1.0 |
| 0x27 | ActionStartDrag | 4 | | Yes | | 1.0 |
| 0x28 | ActionEndDrag | 4 | | Yes | | 1.0 |
| 0x29 | ActionStringLess | 4 | | Yes | | 1.0 |
| 0x2A | ActionThrow | 7 | | Yes | | 2.2.56 |
| 0x2B | ActionCastOp | 7 | | Yes | | 1.1.25 |
| 0x2C | ActionImplementsOp | 7 | | Yes | | 1.1.25 |

| 0x30 | ActionRandomNumber | 4 | | Yes | | 1.0 |
|------|-------------------|---|---|-----|---|-----|
| 0x31 | ActionMBStringLength | 4 | | Yes | | 1.0 |
| 0x32 | ActionCharToAscii | 4 | | Yes | | 1.0 |
| 0x33 | ActionAsciiToChar | 4 | | Yes | | 1.0 |
| 0x34 | ActionGetTime | 4 | | Yes | | 1.0 |
| 0x35 | ActionMBStringExtract | 4 | | Yes | | 1.0 |
| 0x36 | ActionMBCharToAscii | 4 | | Partial | SWF 6+ ok, some issues for SWF 5 | |
| 0x37 | ActionMBAsciiToChar | 4 | | Yes | | 1.0 |
| 0x3A | ActionDelete | 5 | | Yes | | 1.0 |
| 0x3B | ActionDelete2 | 5 | | Yes | | 1.0.22 |
| 0x3C | ActionDefineLocal | 5 | | Yes | | 1.0 |
| 0x3D | ActionCallFunction | 5 | | Yes | | 1.0 |
| 0x3E | ActionReturn | 5 | | Yes | | 1.0 |
| 0x3F | ActionModulo | 5 | | Yes | | 1.0 |
| 0x40 | ActionNewObject | 5 | | Yes | | 1.0 |
| 0x41 | ActionDefineLocal2 | 5 | | Yes | | 1.0 |
| 0x42 | ActionInitArray | 5 | | Yes | | 1.0 |
| 0x43 | ActionInitObject | 5 | | Yes | | 1.0 |
| 0x44 | ActionTypeOf | 5 | | Yes | Partial support in earlier versions | 1.0.23 |
| 0x45 | ActionTargetPath | 5 | | Yes | | 1.0.23 |
| 0x46 | ActionEnumerate | 5 | | Yes | | 1.0 |
| 0x47 | ActionAdd2 | 5 | | Yes | | 1.0 |
| 0x48 | ActionLess2 | 5 | | Yes | | 1.0 |
| 0x49 | ActionEquals2 | 5 | | Yes | | 1.0 |
| 0x4A | ActionToNumber | 5 | | Yes | | 1.0 |
| 0x4B | ActionToString | 5 | | Yes | | 1.0 |
| 0x4C | ActionPushDuplicate | 5 | | Yes | | 1.0 |
| 0x4D | ActionStackSwap | 5 | | Yes | | 1.0 |
| 0x4E | ActionGetMember | 5 | | Yes | | 1.0 |
| 0x4F | ActionSetMember | 5 | | Yes | | 1.0 |
| 0x50 | ActionIncrement | 5 | | Yes | | 1.0 |
| 0x51 | ActionDecrement | 5 | | Yes | | 1.0 |
| 0x52 | ActionCallMethod | 5 | | Yes | | 1.0 |
| 0x53 | ActionNewMethod | 5 | | Yes | | 1.0.25 |
| 0x54 | ActionInstanceOf | 6 | | Yes | | 1.1.25 |
| 0x55 | ActionEnumerate2 | 6 | | Yes | | 1.0 |
| 0x60 | ActionBitAnd | 5 | | Yes | | 1.0 |
| 0x61 | ActionBitOr | 5 | | Yes | | 1.0 |
| 0x62 | ActionBitXor | 5 | | Yes | | 1.0 |
| 0x63 | ActionBitLShift | 5 | | Yes | | 1.0 |
| 0x64 | ActionBitRShift | 5 | | Yes | | 1.0 |
| 0x65 | ActionBitURShift | 5 | | Yes | | 1.0 |

| 0x66 | ActionStrictEquals | 6 | | Yes | | 1.0 |
|------|--------------------|---|---|-----|---|-----|
| 0x67 | ActionGreater | 6 | | Yes | | 1.0 |
| 0x68 | ActionStringGreater | 6 | | Yes | | 1.0 |
| 0x69 | ActionExtends | 7 | | Yes | | 1.1.25 |
| 0x81 | ActionGotoFrame | 3 | | Yes | | 1.0 |
| 0x83 | ActionGetURL | 3 | | Yes | | 1.0 |
| 0x87 | ActionStoreRegister | 5 | | Yes | | 1.0 |
| 0x88 | ActionConstantPool | 5 | | Yes | | 1.0 |
| 0x8A | ActionWaitForFrame | 3 | | Yes | No progressive loading before 2.1.50 | 2.1.50 |
| 0x8B | ActionSetTarget | 3 | | Yes | | 1.0 |
| 0x8C | ActionGotToLabel | 3 | | Yes | | 1.0 |
| 0x8D | ActionWaitForFrame2 | 4 | | Yes | | 2.2.55 |
| 0x8E | ActionSetTarget | 7 | | Yes | | 1.0 |
| 0x8F | ActionTry | 7 | | Yes | | 2.2.56 |
| 0x94 | ActionWith | 5 | | Yes | | 1.0 |
| 0x96 | ActionPush | 4 | | Yes | | 1.0 |
| 0x99 | ActionJump | 4 | | Yes | | 1.0 |
| 0x9A | ActionGetURL2 | 4 | | Yes | loadMovie supported since 1.0.23. No loadVariables | 1.0.23 |
| 0x9B | ActionDefineFunction | 5 | | Yes | | 1.0 |
| 0x9D | ActionIf | 4 | | Yes | | 1.0 |
| 0x9E | ActionCall | 4 | | Yes | | 1.0 |
| 0x9F | ActionGotoFrame2 | 4 | | Yes | Now handles paths and scenes | 1.0 |

# AS2 Class Functions

Flash AS2 Class functions used in GFx.

| Class | Name | SWF Version | Deprecated | Supported | Comment | GFx |
|-------|------|-------------|------------|-----------|---------|-----|
| **Accessibility** | | **6** | | **No** | | |
| Accessibility | isActive | 6 | | No | | |
| Accessibility | updateProperties | 6 | | No | | |
| | | | | | | |
| **Arguments** | | **5** | | **Yes** | | **GFx 1.1** |
| Arguments | callee | | | Yes | | 1.1.28 |
| Arguments | caller | | | Yes | | 1.1.28 |
| Arguments | length | | | Yes | | 1.1.28 |
| | | | | | | |
| **Array** | | **5** | | **Yes** | | **GFx 1.0** |
| Array | CASEINSENSITIVE | 7 | | Yes | | 1.0 |
| Array | concat | 5 | | Yes | | 1.0 |
| Array | DESCENDING | 7 | | Yes | | 1.0 |
| Array | join | 5 | | Yes | | 1.0 |
| Array | length | 5 | | Yes | | 1.0 |
| Array | NUMERIC | 7 | | Yes | | 1.0 |
| Array | pop | 5 | | Yes | | 1.0 |
| Array | push | 5 | | Yes | | 1.0 |
| Array | RETURNINDEXEDARRAY | 7 | | Yes | | 1.0 |
| Array | reverse | 5 | | Yes | | 1.0 |
| Array | shift | 5 | | Yes | | 1.0 |
| Array | slice | 5 | | Yes | | 1.0 |
| Array | sort | 5 | | Yes | | 1.0 |
| Array | sortOn | 6 | | Yes | | 1.0 |
| Array | splice | 5 | | Yes | | 1.0 |
| Array | toString | 5 | | Yes | | 1.0 |
| Array | UNIQUESORT | 7 | | Yes | | 1.0 |
| Array | unshift | 5 | | Yes | | 1.0 |
| | | | | | | |
| **AsBroadcaster** | | **6** | | **Yes** | | **GFx 1.1** |
| AsBroadcaster | addListener | 6 | | Yes | | 1.1.31 |
| AsBroadcaster | broadcastMessage | 6 | | Yes | | 1.1.31 |
| AsBroadcaster | initialize | 6 | | Yes | | 1.1.31 |
| AsBroadcaster | _listeners | 6 | | Yes | | 1.1.31 |
| AsBroadcaster | removeListener | 6 | | Yes | | 1.1.31 |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **BevelFilter** | | **8** | | **Yes** | **For shapes only** | |
| BevelFilter | angle | 8 | | Yes | | |
| BevelFilter | blurX | 8 | | Yes | | |
| BevelFilter | blurY | 8 | | Yes | | |
| BevelFilter | clone | 8 | | Yes | | |
| BevelFilter | distance | 8 | | Yes | | |
| BevelFilter | highlightAlpha | 8 | | Yes | | |
| BevelFilter | highlightColor | 8 | | Yes | | |
| BevelFilter | knockout | 8 | | Yes | | |
| BevelFilter | quality | 8 | | Yes | | |
| BevelFilter | shadowAlpha | 8 | | Yes | | |
| BevelFilter | shadowColor | 8 | | Yes | | |
| BevelFilter | strength | 8 | | Yes | | |
| BevelFilter | type | 8 | | Yes | | |
| | | | | | | |
| **BitmapData** | | | | **Partial** | | |
| BitmapData | applyFilter | 8 | | No | | |
| BitmapData | clone | 8 | | No | | |
| BitmapData | colorTransform | 8 | | No | | |
| BitmapData | copyChannel | 8 | | No | | |
| BitmapData | copyPixels | 8 | | No | | |
| BitmapData | dispose | 8 | | No | | |
| BitmapData | draw | 8 | | No | | |
| BitmapData | fillRect | 8 | | No | | |
| BitmapData | floodFill | 8 | | No | | |
| BitmapData | generateFilterRect | 8 | | No | | |
| BitmapData | getColorBoundsRect | 8 | | No | | |
| BitmapData | getPixel | 8 | | No | | |
| BitmapData | getPixel32 | 8 | | No | | |
| BitmapData | height | 8 | | Yes | | 2.1.55 |
| BitmapData | hitTest | 8 | | No | | |
| BitmapData | loadBitmap | 8 | | Yes | | 1.2.35 |
| BitmapData | merge | 8 | | No | | |
| BitmapData | noise | 8 | | No | | |
| BitmapData | paletteMap | 8 | | No | | |
| BitmapData | perlinNoise | 8 | | No | | |
| BitmapData | pixelDissolve | 8 | | No | | |
| BitmapData | rectangle | 8 | | Yes | | |
| BitmapData | scroll | 8 | | No | | |
| BitmapData | setPixel | 8 | | No | | |
| BitmapData | setPixel32 | 8 | | No | | |
| BitmapData | threshold | 8 | | No | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| BitmapData | transparent | 8 | | No | | |
| BitmapData | width | 8 | | Yes | | 2.1.55 |
| | | | | | | |
| **BitmapFilter** | | **8** | | **Yes** | **For text fields only** | **GFx 3.0** |
| BitmapFilter | clone | 8 | | Yes | | 3.0.58 |
| | | | | | | |
| **BlurFilter** | | **8** | | **Yes** | **For shapes and text fields only** | **GFx 3.0** |
| BlurFilter | blurX | 8 | | Yes | | 3.0.58 |
| BlurFilter | blurY | 8 | | Yes | | 3.0.58 |
| BlurFilter | clone | 8 | | Yes | | 3.0.58 |
| BlurFilter | quality | 8 | | **Yes** | | |
| | | | | | | |
| **Boolean** | | | | **Yes** | | **GFx 1.0** |
| Boolean | toString | 5 | | Yes | | 1.0.20 |
| Boolean | valueOf | 5 | | Yes | | 1.0.20 |
| | | | | | | |
| **Button** | | **6** | | **Partial** | | **GFx 1.0** |
| Button | _alpha | 6 | | Yes | | 1.0 |
| Button | blendMode | 6 | | Partial | Limited combines, no layer bitmaps | 1.0.22 |
| Button | cacheAsBitmap | 8 | | No | | |
| Button | enabled | 6 | | Partial | Disables input, need to verify implementation | 1.1 |
| Button | filters | 8 | | No | | |
| Button | _focusrect | 6 | | Yes | | 1.1.26 |
| Button | getDepth | 6 | | Yes | | 1.0.23 |
| Button | _height | 6 | | Yes | Assignment does not match Flash for rotations | 1.0 |
| Button | _highquality | 6 | 7 | No | | |
| Button | menu | 7 | | No | | |
| Button | _name | 6 | | Yes | | 1.0.22 |
| Button | onDragOut | 6 | | Yes | | 1.0.23 |
| Button | onDragOver | 6 | | Yes | | 1.0.23 |
| Button | onKeyDown | 6 | | Yes | | 1.1.26 |
| Button | onKeyUp | 6 | | Yes | | 1.2.26 |
| Button | onKillFocus | 6 | | Yes | | 1.1.26 |
| Button | onPress | 6 | | Yes | on(press) only before 1.0.23 | 1.0.23 |
| Button | onRelease | 6 | | Yes | on(release) only before 1.0.23 | 1.0.23 |
| Button | onReleaseOutside | 6 | | Yes | on(releaseOutside) only before 1.0.23 | 1.0.23 |
| Button | onRollOut | 6 | | Yes | on(rollOut) only before 1.0.23 | 1.0.23 |
| Button | onRollOver | 6 | | Yes | on(rollOver) only before 1.0.23 | 1.0.23 |
| Button | onSetFocus | 6 | | Yes | | 1.1.26 |
| Button | _parent | 6 | | Yes | | 1.0.22 |
| Button | _quality | 6 | | No | | |
| Button | _rotation | 6 | | Yes | | 1.0.22 |

| Button | scale9Grid | 8 | | Yes | | 2.1.49 |
|--------|-----------|---|---|-----|---|--------|
| Button | _soundbuftime | 6 | | No | | |
| Button | tabEnabled | 6 | | Yes | | 1.1.26 |
| Button | tabIndex | 6 | | Yes | | 1.1.26 |
| Button | _target | 6 | | Yes | | 1.0.22 |
| Button | trackAsMenu | 6 | | Yes | | 1.0 |
| Button | _url | 6 | | Yes | Does not automatically include protocol | 1.0.23 |
| Button | useHandCursor | 6 | | Yes | EXT: Changes are tracked by Mouse.setCursorType. | 1.2.32 |
| Button | _visible | 6 | | Yes | | 1.0 |
| Button | _width | 6 | | Yes | Assignment does not match Flash for rotations | 1.0 |
| Button | _x | 6 | | Yes | | 1.0 |
| Button | _xmouse | 6 | | Yes | | 1.0.22 |
| Button | _xscale | 6 | | Yes | | 1.0.22 |
| Button | _y | 6 | | Yes | | 1.0 |
| Button | _ymouse | 6 | | Yes | | 1.0.22 |
| Button | _yscale | 6 | | Yes | | 1.0.22 |
| Button | hitTestDisable | EXT | | Yes | Prevents button from being used for hit-testing | 2.1.51 |
| Button | topmostLevel | EXT | | Yes | Boolean, makes object topmost on the stage | 2.1.50 |
| Button | _z | EXT | | Yes | Sets the Z coordinate (depth) of the object. | 3.2.82 |
| Button | _zscale | EXT | | Yes | Sets the scale of the object in the Z direction as a percentage | 3.2.82 |
| Button | _xrotation | EXT | | Yes | Sets the rotation of the object around the X (horizontal) axis | 3.2.82 |
| Button | _yrotation | EXT | | Yes | Sets the rotation of the object around the Y (vertical) axis | 3.2.82 |
| Button | _matrix3d | EXT | | Yes | Sets the complete 3D transform of the object using an array of 16 floats (4 * 4 matrix) | 3.2.82 |
| Button | _perspfov | EXT | | Yes | Allows the perspective field of view angle (in degrees) to be set on a movie clip. | 3.2.84 |
| | | | | | | |
| **Camera** | | **6** | | **No** | | |
| Camera | activityLevel | 6 | | No | | |
| Camera | bandwidth | 6 | | No | | |
| Camera | currentFps | 6 | | No | | |
| Camera | fps | 6 | | No | | |
| Camera | get | 6 | | No | | |
| Camera | height | 6 | | No | | |
| Camera | index | 6 | | No | | |
| Camera | motionLevel | 6 | | No | | |
| Camera | motionTimeOut | 6 | | No | | |
| Camera | muted | 6 | | No | | |
| Camera | name | 6 | | No | | |
| Camera | names | 6 | | No | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Camera | onActivity | 6 | | No | | |
| Camera | onStatus | 6 | | No | | |
| Camera | quality | 6 | | No | | |
| Camera | setMode | 6 | | No | | |
| Camera | setMotionLevel | 6 | | No | | |
| Camera | setQuality | 6 | | No | | |
| Camera | width | 6 | | No | | |
| | | | | | | |
| **Capabilities** | | **6** | | **Partial** | **most members return hardcoded values** | **GFx 1.2** |
| Capabilities | avHardwareDisable | 7 | | Partial | | 1.2.36 |
| Capabilities | hasAccessibility | 6 | | Partial | | 1.2.36 |
| Capabilities | hasAudio | 6 | | Partial | | 1.2.36 |
| Capabilities | hasAudioEncoder | 6 | | Partial | | 1.2.36 |
| Capabilities | hasEmbeddedVideo | 6 | | Partial | | 1.2.36 |
| Capabilities | hasIME | 8 | | Partial | | 1.2.36 |
| Capabilities | hasMP3 | 6 | | Partial | | 1.2.36 |
| Capabilities | hasPrinting | 6 | | Partial | | 1.2.36 |
| Capabilities | hasScreenBroadcast | 6 | | Partial | | 1.2.36 |
| Capabilities | hasScreenPlayback | 6 | | Partial | | 1.2.36 |
| Capabilities | hasStreamingAudio | 6 | | Partial | | 1.2.36 |
| Capabilities | hasStreamingVideo | 6 | | Partial | | 1.2.36 |
| Capabilities | hasVideoEncoder | 6 | | Partial | | 1.2.36 |
| Capabilities | isDebugger | 6 | | Partial | | 1.2.36 |
| Capabilities | language | 6 | | Partial | | 1.2.36 |
| Capabilities | localFileReadDisable | 7 | | Partial | | 1.2.36 |
| Capabilities | manufacturer | 6 | | Yes | | 1.2.36 |
| Capabilities | os | 6 | | Partial | | 1.2.36 |
| Capabilities | pixelAspectRatio | 6 | | Partial | | 1.2.36 |
| Capabilities | playerType | 7 | | Partial | | 1.2.36 |
| Capabilities | screenColor | 6 | | Partial | | 1.2.36 |
| Capabilities | screenDPI | 6 | | Partial | | 1.2.36 |
| Capabilities | screenResolutionX | 6 | | Yes | | 1.2.36 |
| Capabilities | serverString | 6 | | Yes | | 1.2.36 |
| Capabilities | version | 6 | | Yes | | 1.2.36 |
| | | | | | | |
| **Color** | | **5** | **8** | **Yes** | | **GFx 1.0** |
| Color | getRGB | 5 | 8 | Yes | | 1.0 |
| Color | getTransform | 5 | 8 | Yes | | 1.0 |
| Color | setRGB | 5 | 8 | Yes | | 1.0 |
| Color | setTransform | 5 | 8 | Yes | | 1.0 |
| | | | | | | |
| **ColorMatrixFilter** | | **8** | | **Yes** | **For shapes only** | |

| | | | | | |
|---|---|---|---|---|---|
| ColorMatrixFilter | clone | 8 | | Yes | |
| ColorMatrixFilter | matrix | 8 | | Yes | |
| | | | | | |
| **ColorTransform** | | **8** | | **Yes** | **GFx 1.2** |
| ColorTransform | alphaMultiplier | 8 | | Yes | 1.2.35 |
| ColorTransform | alphaOffset | 8 | | Yes | 1.2.35 |
| ColorTransform | blueMultiplier | 8 | | Yes | 1.2.35 |
| ColorTransform | blueOffset | 8 | | Yes | 1.2.35 |
| ColorTransform | concat | 8 | | Yes | 1.2.35 |
| ColorTransform | greenMultiplier | 8 | | Yes | 1.2.35 |
| ColorTransform | greenOffset | 8 | | Yes | 1.2.35 |
| ColorTransform | redMultiplier | 8 | | Yes | 1.2.35 |
| ColorTransform | redOffset | 8 | | Yes | 1.2.35 |
| ColorTransform | rgb | 8 | | Yes | 1.2.35 |
| ColorTransform | toString | 8 | | Yes | 1.2.35 |
| | | | | | |
| **ContextMenu** | | **7** | | **No** | |
| ContextMenu | builtInItems | 7 | | No | |
| ContextMenu | copy | 7 | | No | |
| ContextMenu | customItems | 7 | | No | |
| ContextMenu | hideBuiltInItems | 7 | | No | |
| ContextMenu | onSelect | 7 | | No | |
| | | | | | |
| **ContextMenuItem** | | **7** | | **No** | |
| ContextMenuItem | caption | 7 | | No | |
| ContextMenuItem | copy | 7 | | No | |
| ContextMenuItem | enabled | 7 | | No | |
| ContextMenuItem | onSelect | 7 | | No | |
| ContextMenuItem | separatorBefore | 7 | | No | |
| ContextMenuItem | visible | 7 | | No | |
| | | | | | |
| **ConvolutionFilter** | | **8** | | **No** | |
| ConvolutionFilter | alpha | 8 | | No | |
| ConvolutionFilter | bias | 8 | | No | |
| ConvolutionFilter | clamp | 8 | | No | |
| ConvolutionFilter | clone | 8 | | No | |
| ConvolutionFilter | color | 8 | | No | |
| ConvolutionFilter | divisor | 8 | | No | |
| ConvolutionFilter | matrix | 8 | | No | |
| ConvolutionFilter | matrixX | 8 | | No | |
| ConvolutionFilter | matrixY | 8 | | No | |
| ConvolutionFilter | preserveAlpha | 8 | | No | |

| CustomActions | | 6 | | No | | |
|---|---|---|---|---|---|---|
| CustomActions | get | 6 | | No | | |
| CustomActions | install | 6 | | No | | |
| CustomActions | list | 6 | | No | | |
| CustomActions | uninstall | 6 | | No | | |
| | | | | | | |
| **Date** | | **5** | | **Yes** | | **GFx 1.1** |
| Date | getDate | 5 | | Yes | | 1.1.31 |
| Date | getDay | 5 | | Yes | | 1.1.31 |
| Date | getFullYear | 5 | | Yes | | 1.1.31 |
| Date | getHours | 5 | | Yes | | 1.1.31 |
| Date | getMilliseconds | 5 | | Yes | | 1.1.31 |
| Date | getMinutes | 5 | | Yes | | 1.1.31 |
| Date | getMonth | 5 | | Yes | | 1.1.31 |
| Date | getSeconds | 5 | | Yes | | 1.1.31 |
| Date | getTime | 5 | | Yes | | 1.1.31 |
| Date | getTimezoneOffset | 5 | | Yes | | 1.1.31 |
| Date | getUTCDate | 5 | | Yes | | 1.1.31 |
| Date | getUTCDay | 5 | | Yes | | 1.1.31 |
| Date | getUTCFullYear | 5 | | Yes | | 1.1.31 |
| Date | getUTCHours | 5 | | Yes | | 1.1.31 |
| Date | getUTCMilliseconds | 5 | | Yes | | 1.1.31 |
| Date | getUTCMinutes | 5 | | Yes | | 1.1.31 |
| Date | getUTCMonth | 5 | | Yes | | 1.1.31 |
| Date | getUTCSeconds | 5 | | Yes | | 1.1.31 |
| Date | getUTCYear | 8 | | Yes | | 1.1.31 |
| Date | getYear | 5 | | Yes | | 1.1.31 |
| Date | setDate | 5 | | Yes | | 1.1.31 |
| Date | setFullYear | 5 | | Yes | | 1.1.31 |
| Date | setHours | 5 | | Yes | | 1.1.31 |
| Date | setMilliseconds | 5 | | Yes | | 1.1.31 |
| Date | setMinutes | 5 | | Yes | | 1.1.31 |
| Date | setMonth | 5 | | Yes | | 1.1.31 |
| Date | setSeconds | 5 | | Yes | | 1.1.31 |
| Date | setTime | 5 | | Yes | | 1.1.31 |
| Date | setUTCDate | 5 | | Yes | | 1.1.31 |
| Date | setUTCFullYear | 5 | | Yes | | 1.1.31 |
| Date | setUTCHours | 5 | | Yes | | 1.1.31 |
| Date | setUTCMilliseconds | 5 | | Yes | | 1.1.31 |
| Date | setUTCMinutes | 5 | | Yes | | 1.1.31 |
| Date | setUTCMonth | 5 | | Yes | | 1.1.31 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Date | setUTCSeconds | 5 | | Yes | | 1.1.31 |
| Date | setYear | 5 | | Yes | | 1.1.31 |
| Date | toString | 5 | | Yes | | 1.1.31 |
| Date | UTC | 5 | | Yes | | 1.1.31 |
| Date | valueOf | 5 | | Yes | | 1.1.31 |
| | | | | | | |
| **DisplacementMapFilter** | | **8** | | **No** | | |
| DisplacementMapFilter | alpha | 8 | | No | | |
| DisplacementMapFilter | clone | 8 | | No | | |
| DisplacementMapFilter | color | 8 | | No | | |
| DisplacementMapFilter | componentX | 8 | | No | | |
| DisplacementMapFilter | componentY | 8 | | No | | |
| DisplacementMapFilter | mapBitmap | 8 | | No | | |
| DisplacementMapFilter | mapPoint | 8 | | No | | |
| DisplacementMapFilter | mode | 8 | | No | | |
| DisplacementMapFilter | scaleX | 8 | | No | | |
| DisplacementMapFilter | scaleY | 8 | | No | | |
| | | | | | | |
| **DropShadowFilter** | | **8** | | **Yes** | **For shapes and text fields only** | **GFx 3.0** |
| DropShadowFilter | alpha | 8 | | Yes | | 3.0.58 |
| DropShadowFilter | angle | 8 | | Yes | | 3.0.58 |
| DropShadowFilter | blurX | 8 | | Yes | | 3.0.58 |
| DropShadowFilter | blurY | 8 | | Yes | | 3.0.58 |
| DropShadowFilter | clone | 8 | | Yes | | 3.0.58 |
| DropShadowFilter | color | 8 | | Yes | | 3.0.58 |
| DropShadowFilter | hideObject | 8 | | Yes | | 3.0.58 |
| DropShadowFilter | inner | 8 | | Yes | | |
| DropShadowFilter | knockout | 8 | | Yes | | 3.0.58 |
| DropShadowFilter | quality | 8 | | Yes | | |
| DropShadowFilter | strength | 8 | | Yes | | 3.0.58 |
| | | | | | | |
| **Error** | | **7** | | **No** | | |
| Error | message | 7 | | No | | |
| Error | name | 7 | | No | | |
| Error | toString | 7 | | No | | |
| | | | | | | |
| **ExternalInterface** | | **8** | | **Yes** | | **GFx 1.2** |
| ExternalInterface | addCallback | 8 | | Yes | | 2.2.58 |
| ExternalInterface | available | 8 | | Yes | | 1.2.33 |
| ExternalInterface | call | 8 | | Yes | Relies on user-installed GFxExternalInterface class. | 1.2.33 |
| | | | | | | |
| **FileReference** | | **8** | | **No** | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| FileReference | addListener | 8 | | No | | |
| FileReference | browse | 8 | | No | | |
| FileReference | creationDate | 8 | | No | | |
| FileReference | creator | 8 | | No | | |
| FileReference | download | 8 | | No | | |
| FileReference | modificationDate | 8 | | No | | |
| FileReference | name | 8 | | No | | |
| FileReference | onCancel | 8 | | No | | |
| FileReference | onComplete | 8 | | No | | |
| FileReference | onHTTPError | 8 | | No | | |
| FileReference | onIOError | 8 | | No | | |
| FileReference | onOpen | 8 | | No | | |
| FileReference | onProgress | 8 | | No | | |
| FileReference | onSecurityError | 8 | | No | | |
| FileReference | onSelect | 8 | | No | | |
| FileReference | removeListener | 8 | | No | | |
| FileReference | size | 8 | | No | | |
| FileReference | type | 8 | | No | | |
| FileReference | upload | 8 | | No | | |
| | | | | | | |
| **FileReferenceList** | | **8** | | **No** | | |
| FileReferenceList | addListener | 8 | | No | | |
| FileReferenceList | browse | 8 | | No | | |
| FileReferenceList | fileList | 8 | | No | | |
| FileReferenceList | onCancel | 8 | | No | | |
| FileReferenceList | onSelect | 8 | | No | | |
| FileReferenceList | removeListener | 8 | | No | | |
| | | | | | | |
| **Function** | | **6** | | **Yes** | | **GFx 1.1** |
| Function | apply | 6 | | Yes | | 1.1.27 |
| Function | call | 6 | | Yes | | 1.1.27 |
| Function | prototype | 6 | | Yes | | 1.0 |
| | | | | | | |
| **GlowFilter** | | **8** | | **Yes** | **For shapes and text fields only** | **GFx 3.0** |
| GlowFilter | alpha | 8 | | Yes | | 3.0.58 |
| GlowFilter | blurX | 8 | | Yes | | 3.0.58 |
| GlowFilter | blurY | 8 | | Yes | | 3.0.58 |
| GlowFilter | clone | 8 | | Yes | | 3.0.58 |
| GlowFilter | color | 8 | | Yes | | 3.0.58 |
| GlowFilter | inner | 8 | | Yes | | |
| GlowFilter | knockout | 8 | | Yes | | 3.0.58 |
| GlowFilter | quality | 8 | | Yes | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| GlowFilter | strength | 8 | | Yes | | 3.0.58 |
| | | | | | | |
| **GradientBevelFilter** | | **8** | | **No** | | |
| GradientBevelFilter | alphas | 8 | | No | | |
| GradientBevelFilter | angle | 8 | | No | | |
| GradientBevelFilter | blurX | 8 | | No | | |
| GradientBevelFilter | blurY | 8 | | No | | |
| GradientBevelFilter | clone | 8 | | No | | |
| GradientBevelFilter | colors | 8 | | No | | |
| GradientBevelFilter | distance | 8 | | No | | |
| GradientBevelFilter | knockout | 8 | | No | | |
| GradientBevelFilter | quality | 8 | | No | | |
| GradientBevelFilter | ratios | 8 | | No | | |
| GradientBevelFilter | strength | 8 | | No | | |
| GradientBevelFilter | type | 8 | | No | | |
| | | | | | | |
| **GradientGlowFilter** | | **8** | | **No** | | |
| GradientGlowFilter | alphas | 8 | | No | | |
| GradientGlowFilter | angle | 8 | | No | | |
| GradientGlowFilter | blurX | 8 | | No | | |
| GradientGlowFilter | blurY | 8 | | No | | |
| GradientGlowFilter | clone | 8 | | No | | |
| GradientGlowFilter | colors | 8 | | No | | |
| GradientGlowFilter | distance | 8 | | No | | |
| GradientGlowFilter | knockout | 8 | | No | | |
| GradientGlowFilter | quality | 8 | | No | | |
| GradientGlowFilter | ratios | 8 | | No | | |
| GradientGlowFilter | strength | 8 | | No | | |
| GradientGlowFilter | type | 8 | | No | | |
| | | | | | | |
| **IME** | | **8** | | **Partial** | | **GFx 2.2** |
| IME | addListener | 8 | | Yes | | 2.2.55 |
| IME | ALPHANUMERIC_FULL | 8 | | Yes | | 2.2.55 |
| IME | ALPHANUMERIC_HALF | 8 | | Yes | | 2.2.55 |
| IME | CHINESE | 8 | | Yes | | 2.2.55 |
| IME | doConversion | 8 | | No | | |
| IME | getConversionMode | 8 | | Yes | | 2.2.55 |
| IME | getEnabled | 8 | | Yes | | 2.2.55 |
| IME | JAPANESE_HIRAGANA | 8 | | Yes | | 2.2.55 |
| IME | JAPANESE_KATAKANA_FULL | 8 | | Yes | | 2.2.55 |
| IME | JAPANESE_KATAKANA_HALF | 8 | | Yes | | 2.2.55 |
| IME | KOREAN | 8 | | Yes | | 2.2.55 |

| | | | | | | |
|---|---|---|---|---|---|---|
| IME | onIMEComposition | 8 | | Yes | | 2.2.55 |
| IME | removeListener | 8 | | Yes | | 2.2.55 |
| IME | setCompositionString | 8 | | Yes | | 2.2.55 |
| IME | setConversionMode | 8 | | Yes | | 2.2.55 |
| IME | setEnabled | 8 | | Yes | | 2.2.55 |
| IME | UNKNOWN | 8 | | Yes | | 2.2.55 |
| | | | | | | |
| **Key** | | 6 | | Partial | | **GFx 1.0** |
| Key | addListener | 5 | | Yes | | 1.0 |
| Kry | BACKSPACE | 5 | | Yes | | 1.0 |
| Key | CAPSLOCK | 5 | | Yes | | 1.0 |
| Key | CONTROL | 5 | | Yes | | 1.0 |
| Key | DELETEKEY | 5 | | Yes | | 1.0 |
| Key | DOWN | 5 | | Yes | | 1.0 |
| Key | END | 5 | | Yes | | 1.0 |
| Key | ENTER | 5 | | Yes | | 1.0 |
| Key | ESCAPE | 5 | | Yes | | 1.0 |
| Key | getAscii | 5 | | Yes | | 1.0.21 |
| Key | getCode | 5 | | Yes | | 1.0 |
| Key | HOME | 5 | | Yes | | 1.0 |
| Key | isAccessible | 8 | | No | | |
| Key | isDown | 5 | | Yes | | 1.0 |
| Key | isToggled | 5 | | Yes | | 1.0.21 |
| Key | LEFT | 5 | | Yes | | 1.0 |
| Key | _listeners | 6 | | Yes | | 1.1.26 |
| Key | onKeyDown | 6 | | Yes | listener's method | 1.0 |
| Key | onKeyUp | 6 | | Yes | listener's method | 1.0 |
| Key | PGDN | 5 | | Yes | | 1.0 |
| Key | PGUP | 5 | | Yes | | 1.0 |
| Key | removeListener | 6 | | Yes | | 1.0 |
| Key | RIGHT | 5 | | Yes | | 1.0 |
| Key | SHIFT | 5 | | Yes | | 1.0 |
| Key | SPACE | 5 | | Yes | | 1.0 |
| Key | TAB | 5 | | Yes | | 1.0 |
| Key | UP | 5 | | Yes | | 1.0 |
| | | | | | | |
| **LoadVars** | | 6 | | **Partial** | | |
| LoadVars | addRequestHeader | 6 | | No | | |
| LoadVars | contentType | 6 | | Partial | always returns "application/x-www-form-urlencoded" | 1.2.36 |
| LoadVars | decode | 7 | | No | | |
| LoadVars | getBytesLoaded | 6 | | Yes | | 2.1.49 |
| LoadVars | getBytesTotal | 6 | | Yes | | 1.2.36 |

| LoadVars | load | 6 | | Yes | HTTP is not supported | 1.2.36 |
|---|---|---|---|---|---|---|
| LoadVars | loaded | 6 | | No | | 3.2 |
| LoadVars | onData | 6 | | Yes | | 2.1.49 |
| LoadVars | onHTTPStatus | 6 | | No | | |
| LoadVars | onLoad | 6 | | Yes | | 2.1.49 |
| LoadVars | send | 6 | | No | | |
| LoadVars | sendAndLoad | 6 | | No | | |
| LoadVars | toString | 6 | | Yes | | 1.2.36 |
| | | | | | | |
| **LocalConnection** | | **6** | | **No** | | |
| LocalConnection | allowDomain | 7 | | No | | |
| LocalConnection | allowInsecureDomain | 7 | | No | | |
| LocalConnection | close | 6 | | No | | |
| LocalConnection | connect | 6 | | No | | |
| LocalConnection | domain | 6 | | No | | |
| LocalConnection | onStatus | 6 | | No | | |
| LocalConnection | send | 6 | | No | | |
| | | | | | | |
| **Math** | | **5** | | **Yes** | | **GFx 1.0** |
| Math | abs | 5 | | Yes | | 1.0 |
| Math | acos | 5 | | Yes | | 1.0 |
| Math | asin | 5 | | Yes | | 1.0 |
| Math | atan | 5 | | Yes | | 1.0 |
| Math | atan2 | 5 | | Yes | | 1.0 |
| Math | ceil | 5 | | Yes | | 1.0 |
| Math | cos | 5 | | Yes | | 1.0 |
| Math | E | 5 | | Yes | | 1.0 |
| Math | exp | 5 | | Yes | | 1.0 |
| Math | floor | 5 | | Yes | | 1.0 |
| Math | LN10 | 5 | | Yes | | 1.0 |
| Math | LN2 | 5 | | Yes | | 1.0 |
| Math | log | 5 | | Yes | | 1.0 |
| Math | LOG10E | 5 | | Yes | | 1.0 |
| Math | LOG2E | 5 | | Yes | | 1.0 |
| Math | max | 5 | | Yes | | 1.0 |
| Math | min | 5 | | Yes | | 1.0 |
| Math | PI | 5 | | Yes | | 1.0 |
| Math | pow | 5 | | Yes | | 1.0 |
| Math | random | 5 | | Yes | | 1.0 |
| Math | round | 5 | | Yes | | 1.0 |
| Math | sin | 5 | | Yes | | 1.0 |
| Math | sqrt | 5 | | Yes | | 1.0 |

| | | | | | |
|---|---|---|---|---|---|
| Math | SQRT1_2 | 5 | | Yes | 1.0 |
| Math | SQRT2 | 5 | | Yes | 1.0 |
| Math | tan | 5 | | Yes | 1.0 |
| | | | | | |
| **Matrix** | | **8** | | **Yes** | **GFx 1.2** |
| Matrix | a | 8 | | Yes | 1.1.25 |
| Matrix | b | 8 | | Yes | 1.1.25 |
| Matrix | c | 8 | | Yes | 1.1.25 |
| Matrix | clone | 8 | | Yes | 1.2.35 |
| Matrix | concat | 8 | | Yes | 1.2.35 |
| Matrix | createBox | 8 | | Yes | 1.2.35 |
| Matrix | createGradientBox | 8 | | Yes | 1.2.35 |
| Matrix | d | 8 | | Yes | 1.1.25 |
| Matrix | deltaTransformPoint | 8 | | Yes | 1.2.35 |
| Matrix | identity | 8 | | Yes | 1.2.35 |
| Matrix | invert | 8 | | Yes | 1.2.35 |
| Matrix | rotate | 8 | | Yes | 1.2.35 |
| Matrix | scale | 8 | | Yes | 1.2.35 |
| Matrix | toString | 8 | | Yes | 1.2.35 |
| Matrix | transformPoint | 8 | | Yes | 1.2.35 |
| Matrix | translate | 8 | | Yes | 1.2.35 |
| Matrix | tx | 8 | | Yes | 1.1.25 |
| Matrix | ty | 8 | | Yes | 1.1.25 |
| | | | | | |
| **Microphone** | | **6** | | **No** | |
| Microphone | activityLevel | 6 | | No | |
| Microphone | gain | 6 | | No | |
| Microphone | get | 6 | | No | |
| Microphone | index | 6 | | No | |
| Microphone | muted | 6 | | No | |
| Microphone | name | 6 | | No | |
| Microphone | names | 6 | | No | |
| Microphone | onActivity | 6 | | No | |
| Microphone | onStatus | 6 | | No | |
| Microphone | rate | 6 | | No | |
| Microphone | setGain | 6 | | No | |
| Microphone | setRate | 6 | | No | |
| Microphone | setSilenceLevel | 6 | | No | |
| Microphone | setUseEchoSuppression | 6 | | No | |
| Microphone | silenceLevel | 6 | | No | |
| Microphone | silenceTimeOut | 6 | | No | |
| Microphone | useEchoSuppression | 6 | | No | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **Mouse** | | **5** | | **Yes** | | **GFx 1.2** |
| Mouse | addListener | 6 | | Yes | | 1.2.32 |
| Mouse | hide | 5 | | Yes | | 1.2.32 |
| Mouse | onMouseDown | 6 | | Yes | EXT arguments: (button_index, target_path) | 1.2.32 |
| Mouse | onMouseMove | 6 | | Yes | | 1.2.32 |
| Mouse | onMouseUp | 6 | | Yes | EXT arguments: (button_index, target_path) | 1.2.32 |
| Mouse | onMouseWheel | 6 | | Yes | | 1.2.32 |
| Mouse | removeListener | 6 | | Yes | | 1.2.32 |
| Mouse | show | 5 | | Yes | | 1.2.32 |
| Mouse | setCursorType | EXT | | Yes | Called with (cursor_type) when cursor needs change. | 1.2.32 |
| Mouse | LEFT | EXT | | Yes | Constant: LEFT mouse button_index. | 1.2.32 |
| Mouse | RIGHT | EXT | | Yes | Constant: RIGHT mouse button_index. | 1.2.32 |
| Mouse | MIDDLE | EXT | | Yes | Constant: MIDDLE mouse button_index. | 1.2.32 |
| Mouse | ARROW | EXT | | Yes | Constant: ARROW cursor_type. | 1.2.32 |
| Mouse | HAND | EXT | | Yes | Constant: HAND cursor_type. | 1.2.32 |
| Mouse | IBEAM | EXT | | Yes | Constant: IBEAM cursor_type (indicates text input). | 1.2.32 |
| Mouse | getTopMostEntity | EXT | | Yes | Returns a character under the mouse or at the coords | 1.2.34 |
| | | | | | | |
| **MovieClip** | | **3** | | **Partial** | | **GFx 1.0** |
| MovieClip | _alpha | 4 | | Yes | | 1.0 |
| MovieClip | attachAudio | 6 | | Yes | | 3.0.63 |
| MovieClip | attachBitmap | 8 | | Yes | pixelSnapping param is ignored | 1.2.35 |
| MovieClip | attachMovie | 5 | | Yes | | 1.0 |
| MovieClip | beginBitmapFill | 8 | | Yes | | 1.2.35 |
| MovieClip | beginFill | 6 | | Yes | | 1.2.34 |
| MovieClip | beginGradientFill | 6 | | Yes | | 1.2.35 |
| MovieClip | blendMode | 8 | | Partial | Limited combines, no layer bitmaps | 1.0 |
| MovieClip | cacheAsBitmap | 8 | | No | | |
| MovieClip | clear | 6 | | Yes | | 1.2.34 |
| MovieClip | createEmptyMovieClip | 6 | | Yes | | 1.0.23 |
| MovieClip | createTextField | 6 | | Yes | | 2.0.37 |
| MovieClip | _currentframe | 4 | | Yes | Read-only | 1.0 |
| MovieClip | curveTo | 6 | | Yes | | 1.2.34 |
| MovieClip | _droptarget | 4 | | Yes | Read-only | 2.1.51 |
| MovieClip | duplicateMovieClip | 5 | | Yes | | 1.0 |
| MovieClip | enabled | 6 | | Partial | Disables input, need to verify implementation | 1.0.24 |
| MovieClip | endFill | 6 | | Yes | | 1.2.34 |
| MovieClip | filters | 8 | | No | | |
| MovieClip | focusEnabled | 6 | | Yes | | 1.1.26 |
| MovieClip | _focusrect | 6 | | Yes | | 1.1.26 |
| MovieClip | _framesloaded | 4 | | Yes | | 1.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| MovieClip | getBounds | 5 | | Yes | | 1.0 |
| MovieClip | getBytesLoaded | 5 | | Yes | | 1.0 |
| MovieClip | getBytesTotal | 5 | | Yes | | 1.0 |
| MovieClip | getDepth | 6 | | Yes | | 1.0 |
| MovieClip | getInstanceAtDepth | 7 | | Yes | | 1.0 |
| MovieClip | getNextHighestDepth | 7 | | Yes | | 1.0 |
| MovieClip | getRect | 8 | | Yes | | 3.0.58 |
| MovieClip | getSWFVersion | 7 | | Yes | | 1.0 |
| MovieClip | getTextSnapshot | 7 | | No | | |
| MovieClip | getURL | 5 | | No | | |
| MovieClip | globalToLocal | 5 | | Yes | | 1.0 |
| MovieClip | gotoAndPlay | 5 | | Yes | | 1.0 |
| MovieClip | gotoAndStop | 5 | | Yes | | 1.0 |
| MovieClip | _height | 4 | | Yes | Assignment does not match Flash for rotations | 1.0 |
| MovieClip | _highquality | 6 | 7 | Partial | Always returns true; no set | 1.0 |
| MovieClip | hitArea | 6 | | Yes | | 2.2.55 |
| MovieClip | hitTest | 5 | | Yes | Shape flag supported correctly since 1.0.22 | 1.0.20 |
| MovieClip | lineGradientStyle | 8 | | Yes | | 1.2.35 |
| MovieClip | lineStyle | 6 | | Yes | | 1.2.34 |
| MovieClip | lineTo | 6 | | Yes | | 1.2.34 |
| MovieClip | loadMovie | 5 | | Yes | | 1.0.23 |
| MovieClip | loadVariables | 5 | | Yes | | 1.2.36 |
| MovieClip | localToGlobal | 5 | | Yes | | 1.0 |
| MovieClip | _lockroot | 7 | | Yes | | 1.0.23 |
| MovieClip | menu | 7 | | No | | |
| MovieClip | moveTo | 6 | | Yes | | 1.2.34 |
| MovieClip | _name | 4 | | Yes | | 1.0 |
| MovieClip | nextFrame | 5 | | Yes | | 1.0 |
| MovieClip | onData | 6 | | No | | |
| MovieClip | onDragOut | 6 | | Yes | | 1.0 |
| MovieClip | onDragOver | 6 | | Yes | | 1.0 |
| MovieClip | onEnterFrame | 6 | | Yes | | 1.0 |
| MovieClip | onKeyDown | 6 | | Yes | | 1.1.26 |
| MovieClip | onKeyUp | 6 | | Yes | | 1.1.26 |
| MovieClip | onKillFocus | 6 | | Yes | | 1.1.26 |
| MovieClip | onLoad | 6 | | Yes | | 1.0 |
| MovieClip | onMouseDown | 6 | | Yes | | 1.0 |
| MovieClip | onMouseMove | 6 | | Yes | | 1.0 |
| MovieClip | onMouseUp | 6 | | Yes | | 1.0 |
| MovieClip | onPress | 6 | | Yes | | 1.0 |
| MovieClip | onRelease | 6 | | Yes | | 1.0 |
| MovieClip | onReleaseOutside | 6 | | Yes | | 1.0 |

| MovieClip | onRollOut | 6 | | Yes | | 1.0 |
|---|---|---|---|---|---|---|
| MovieClip | onRollOver | 6 | | Yes | | 1.0 |
| MovieClip | onSetFocus | 6 | | Yes | | 1.1.26 |
| MovieClip | onUnload | 6 | | Yes | | 1.0 |
| MovieClip | opaqueBackground | 8 | | No | | |
| MovieClip | _parent | 5 | | Yes | | 1.0 |
| MovieClip | play | 5 | | Yes | | 1.0 |
| MovieClip | prevFrame | 5 | | Yes | | 1.0 |
| MovieClip | _quality | 6 | | No | | |
| MovieClip | removeMovieClip | 5 | | Yes | | 1.0 |
| MovieClip | _rotation | 4 | | Yes | | 1.0 |
| MovieClip | scale9Grid | 8 | | Yes | | 2.1.49 |
| MovieClip | scrollRect | 8 | | Yes | | 4.0.13 |
| MovieClip | setMask | 6 | | Yes | | 1.2.36 |
| MovieClip | _soundbuftime | 6 | | No | Always return 0 | |
| MovieClip | startDrag | 5 | | Yes | | 1.0.23 |
| MovieClip | stop | 5 | | Yes | | 1.0 |
| MovieClip | stopDrag | 5 | | Yes | | 1.0.23 |
| MovieClip | swapDepths | 5 | | Yes | | 1.0 |
| MovieClip | tabChildren | 6 | | Yes | | 1.1.26 |
| MovieClip | tabEnabled | 6 | | Yes | | 1.1.26 |
| MovieClip | tabIndex | 6 | | Yes | | 1.1.26 |
| MovieClip | _target | 4 | | Yes | | 1.0.22 |
| MovieClip | _totalframes | 4 | | Yes | | 1.0 |
| MovieClip | trackAsMenu | 6 | | Yes | | 1.1 |
| MovieClip | transform | 8 | | Yes | | 1.2.35 |
| MovieClip | unloadMovie | 5 | | Yes | | 1.0.23 |
| MovieClip | _url | 4 | | Yes | Does not automatically include protocol | 1.0.23 |
| MovieClip | useHandCursor | 6 | | Yes | EXT: Changes are tracked by Mouse.setCursorType. | 1.2.32 |
| MovieClip | _visible | 4 | | Yes | | 1.0 |
| MovieClip | _width | 4 | | Yes | Assignment does not match Flash for rotations | 1.0 |
| MovieClip | _x | 3 | | Yes | | 1.0 |
| MovieClip | _xmouse | 5 | | Yes | | 1.0 |
| MovieClip | _xscale | 4 | | Yes | | 1.0 |
| MovieClip | _y | 3 | | Yes | | 1.0 |
| MovieClip | _ymouse | 5 | | Yes | | 1.0 |
| MovieClip | _yscale | 4 | | Yes | | 1.0 |
| MovieClip | hitTestDisable | EXT | | Yes | Prevents clip from being used for hit-testing | 1.2.32 |
| MovieClip | noAdvance | EXT | | Yes | Boolean, turns off advancing | 2.1.52 |
| MovieClip | topmostLevel | EXT | | Yes | Boolean, makes object topmost on the stage | 2.1.50 |
| MovieClip | rendererString | EXT | | Yes | Passes data to renderer from ActionScript | 2.2.55 |
| MovieClip | rendererFloat | EXT | | Yes | Passes data to renderer from ActionScript | 2.2.55 |

| MovieClip | _z | EXT | | Yes | Sets the Z coordinate (depth) of the object. | 3.2.82 |
|---|---|---|---|---|---|---|
| MovieClip | _zscale | EXT | | Yes | Sets the scale of the object in the Z direction as a percentage | 3.2.82 |
| MovieClip | _xrotation | EXT | | Yes | Sets the rotation of the object around the X (horizontal) axis | 3.2.82 |
| MovieClip | _yrotation | EXT | | Yes | Sets the rotation of the object around the Y (vertical) axis | 3.2.82 |
| MovieClip | _matrix3d | EXT | | Yes | Sets the complete 3D transform of the object using an array of 16 floats (4 * 4 matrix) | 3.2.82 |
| MovieClip | _perspfov | EXT | | Yes | Allows the perspective field of view angle (in degrees) to be set on a movie clip. | 3.2.84 |
| | | | | | | |
| **MovieClipLoader** | | **7** | | **Yes** | | **GFx 2.0** |
| MovieClipLoader | addListener | 7 | | Yes | | 1.2.35 |
| MovieClipLoader | getProgress | 7 | | Yes | | 2.1.49 |
| MovieClipLoader | loadClip | 7 | | Yes | | 1.2.35 |
| MovieClipLoader | onLoadComplete | 7 | | Yes | | 1.2.35 |
| MovieClipLoader | onLoadError | 7 | | Yes | | 1.2.35 |
| MovieClipLoader | onLoadInit | 7 | | Yes | | 2.1.49 |
| MovieClipLoader | onLoadProgress | 7 | | Yes | | 2.1.49 |
| MovieClipLoader | onLoadStart | 7 | | Yes | | 2.1.49 |
| MovieClipLoader | removeListener | 7 | | Yes | | 1.2.35 |
| MovieClipLoader | unloadClip | 7 | | Yes | | 1.2.35 |
| | | | | | | |
| **NetConnection** | | **7** | | **Partial** | **Used only for custom video from the local file system** | **GFx 3.0** |
| NetConnection | connect | | | Yes | | 3.0.63 |
| | | | | | | |
| **NetStream** | | **7** | | **Partial** | **Limited game-custom video support provided in 3.0** | |
| NetStream | bufferLength | 7 | | No | | |
| NetStream | bufferTime | 7 | | No | | |
| NetStream | bytesLoaded | 7 | | No | | |
| NetStream | bytesTotal | 7 | | No | | |
| NetStream | close | 7 | | Yes | | 3.0.63 |
| NetStream | currentFps | 7 | | Yes | | 3.0.70 |
| NetStream | onCuePoint | 8 | | Yes | | 3.0.63 |
| NetStream | onMetaData | 7 | | Yes | EXT returns subtitleTracksNumber and audioTracks information | 3.0.63 |
| NetStream | onStatus | 6 | | Yes | | 3.0.63 |
| NetStream | pause | 7 | | Yes | | 3.0.63 |
| NetStream | play | 7 | | Yes | | 3.0.63 |
| NetStream | seek | 7 | | Yes | | 3.0.63 |
| NetStream | setBufferTime | 7 | | Yes | | 3.0.68 |

| | | | | | | |
|---|---|---|---|---|---|---|
| NetStream | time | 7 | | Yes | | 3.0.63 |
| NetStream | onSubtitle | EXT | | Yes | called when a subtitle string is read to be shown | 3.0.63 |
| NetStream | subtitleTrack | EXT | | Yes | set/get current subtitles track number. 0 - turn off subtitles | 3.0.63 |
| NetStream | audioTrack | EXT | | Yes | set main audio track | 3.0.63 |
| NetStream | subAudioTrack | EXT | | Yes | set secondary, or SubAudio, audio track | 3.2.86 |
| NetStream | voiceTrack | EXT | | Yes | replaces center track of 5.1ch audio | 3.1.76 |
| NetStream | setReloadThresholdTime | EXT | | Yes | set reload timing | 3.1.76 |
| NetStream | setNumberOfFramePools | EXT | | Yes | set number of internal video buffers | 3.1.76 |
| NetStream | setOpenTimeout | EXT | | Yes | sets an open URL timeout (default 5) in seconds | 3.1.82 |
| NetStream | currentFrame | EXT | | Yes | returns current playback position (in frames) | 3.1.76 |
| NetStream | loop | EXT | | Yes | sets a looping flag | 3.1.76 |
| | | | | | | |
| **Number** | | **5** | | **Yes** | | **GFx 1.0** |
| Number | MAX_VALUE | 5 | | Yes | | 1.0.20 |
| Number | MIN_VALUE | 5 | | Yes | | 1.0.20 |
| Number | NaN | 5 | | Yes | | 1.0.20 |
| Number | NEGATIVE_INFINITY | 5 | | Yes | | 1.0.20 |
| Number | POSITIVE_INFINITY | 5 | | Yes | | 1.0.20 |
| Number | toString | 5 | | Yes | | 1.0.20 |
| Number | valueOf | 5 | | Yes | | 1.0.20 |
| | | | | | | |
| **Object** | | **5** | | **Yes** | | **GFx 1.0** |
| Object | addProperty | 6 | | Yes | | 1.1.25 |
| Object | constructor | 5 | | Yes | | 1.0.20 |
| Object | __constructor__ | 5 | | Yes | | 1.1.25 |
| Object | hasOwnProperty | 6 | | Yes | | 1.1.25 |
| Object | isPropertyEnumerable | 6 | | Yes | | 1.1.25 |
| Object | isPrototypeOf | 6 | | Yes | | 1.1.25 |
| Object | __proto__ | 5 | | Yes | | 1.0 |
| Object | prototype | 6 | | Yes | | 1.0 |
| Object | registerClass | 6 | | Yes | | 1.0.23 |
| Object | __resolve | 6 | | Yes | | 1.1.28 |
| Object | toString | 5 | | Yes | | 1.1.25 |
| Object | unwatch | 6 | | Yes | | 1.1.25 |
| Object | valueOf | 5 | | Yes | | 1.1.25 |
| Object | watch | 6 | | Yes | | 1.1.25 |
| | | | | | | |
| **Point** | | **8** | | **Yes** | | **GFx 1.2** |
| Point | add | 8 | | Yes | | 1.2.35 |
| Point | clone | 8 | | Yes | | 1.2.35 |
| Point | distance | 8 | | Yes | | 1.2.35 |

| | | | | | |
|---|---|---|---|---|---|
| Point | equals | 8 | | Yes | 1.2.35 |
| Point | interpolate | 8 | | Yes | 1.2.35 |
| Point | length | 8 | | Yes | 1.2.35 |
| Point | normalize | 8 | | Yes | 1.2.35 |
| Point | offset | 8 | | Yes | 1.2.35 |
| Point | polar | 8 | | Yes | 1.2.35 |
| Point | subtract | 8 | | Yes | 1.2.35 |
| Point | toString | 8 | | Yes | 1.2.35 |
| Point | x | 8 | | Yes | 1.2.35 |
| Point | y | 8 | | Yes | 1.2.35 |
| | | | | | |
| **PrintJob** | | **7** | | **No** | |
| PrintJob | addPage | 7 | | No | |
| PrintJob | orientation | 7 | | No | |
| PrintJob | pageHeight | 7 | | No | |
| PrintJob | pageWidth | 7 | | No | |
| PrintJob | paperHeight | 7 | | No | |
| PrintJob | paperWidth | 7 | | No | |
| PrintJob | send | 7 | | No | |
| PrintJob | start | 7 | | No | |
| | | | | | |
| **Rectangle** | | **8** | | **Yes** | **GFx 1.2** |
| Rectangle | bottom | 8 | | Yes | 1.2.35 |
| Rectangle | bottomRight | 8 | | Yes | 1.2.35 |
| Rectangle | clone | 8 | | Yes | 1.2.35 |
| Rectangle | contains | 8 | | Yes | 1.2.35 |
| Rectangle | containsPoint | 8 | | Yes | 1.2.35 |
| Rectangle | containsRectangle | 8 | | Yes | 1.2.35 |
| Rectangle | equals | 8 | | Yes | 1.2.35 |
| Rectangle | height | 8 | | Yes | 1.2.35 |
| Rectangle | inflate | 8 | | Yes | 1.2.35 |
| Rectangle | inflatePoint | 8 | | Yes | 1.2.35 |
| Rectangle | intersection | 8 | | Yes | 1.2.35 |
| Rectangle | intersects | 8 | | Yes | 1.2.35 |
| Rectangle | isEmpty | 8 | | Yes | 1.2.35 |
| Rectangle | left | 8 | | Yes | 1.2.35 |
| Rectangle | offset | 8 | | Yes | 1.2.35 |
| Rectangle | offsetPoint | 8 | | Yes | 1.2.35 |
| Rectangle | right | 8 | | Yes | 1.2.35 |
| Rectangle | setEmpty | 8 | | Yes | 1.2.35 |
| Rectangle | size | 8 | | Yes | 1.2.35 |
| Rectangle | top | 8 | | Yes | 1.2.35 |

| | | | | | |
|---|---|---|---|---|---|
| Rectangle | topLeft | 8 | | Yes | 1.2.35 |
| Rectangle | toString | 8 | | Yes | 1.2.35 |
| Rectangle | union | 8 | | Yes | 1.2.35 |
| Rectangle | width | 8 | | Yes | 1.2.35 |
| Rectangle | x | 8 | | Yes | 1.2.35 |
| Rectangle | y | 8 | | Yes | 1.2.35 |
| | | | | | |
| **Security** | | **6** | | **No** | |
| Security | allowDomain | 6 | | No | |
| Security | allowInsecureDomain | 7 | | No | |
| Security | loadPolicyFile | 7 | | No | |
| Security | sandboxType | 8 | | No | |
| | | | | | |
| **Selection** | | **5** | | **Yes** | **GFx 2.0** |
| Selection | addListener | 6 | | Yes | 1.2.34 |
| Selection | getBeginIndex | 5 | | Yes | 2.1.49 |
| Selection | getCaretIndex | 5 | | Yes | 1.2.32 |
| Selection | getEndIndex | 5 | | Yes | 2.1.49 |
| Selection | getFocus | 5 | | Yes | 1.1.26 |
| Selection | onSetFocus | 6 | | Yes | 1.2.34 |
| Selection | removeListener | 6 | | Yes | 1.2.34 |
| Selection | setFocus | 5 | | Yes | 1.1.26 |
| Selection | setSelection | 5 | | Yes | setSelection only adjusts a cursor position | 2.1.49 |
| Selection | captureFocus | EXT | | Yes | captures/releases keyboard focus | 1.2.34 |
| Selection | alwaysEnableArrowKeys | EXT | | Yes | enable arrow keys even if the focusRect == false | 1.2.34 |
| Selection | alwaysEnableKeyboardPress | EXT | | Yes | enable pressing buttons by keys even if the focusRect == false | 3.0.63 |
| Selection | disableFocusAutoRelease | EXT | | Yes | whether mouse move releases focus or not | 1.2.34 |
| Selection | disableFocusKeys | EXT | | Yes | disables handing of standard keyboard focus keys | 2.2.58 |
| Selection | disableFocusRolloverEvent | EXT | | Yes | disable rollover/out event firing if focus is changed by keys | 2.0.37 |
| Selection | modalClip | EXT | | Yes | sets clip as "modal" for focus keys handling | 2.2.58 |
| Selection | moveFocus | EXT | | Yes | Simmulates std focus keys pressing to impl. custom focus handling | 2.2.58 |
| | | | | | |
| **SharedObject** | | **6** | | **Yes** | **GFx 3.0** |
| SharedObject | clear | 7 | | Yes | Explicit flush/clear is required to save a shared object. Does not automatically store when the .swf file is closed. | 3.0.58 |
| SharedObject | data | 6 | | Yes | | 3.0.58 |
| SharedObject | flush | 6 | | Yes | Minimum disk space parameter is ignored | 3.0.58 |
| SharedObject | getLocal | 6 | | Yes | | 3.0.58 |
| SharedObject | getSize | 6 | | Yes | Size estimate is different in GFx | 3.0.58 |

| | | | | | | |
|---|---|---|---|---|---|---|
| SharedObject | onStatus | 6 | | Yes | Not supported because minimum disk space parameter for flush is ignored | 3.0.58 |
| | | | | | | |
| **Sound** | | **5** | | **Partial** | | **GFx 3.0** |
| Sound | attachSound | 5 | | Yes | | 3.0.63 |
| Sound | duration | 6 | | Yes | | 3.1.76 |
| Sound | getBytesLoaded | 6 | | Yes | | 3.1.76 |
| Sound | getBytesTotal | 6 | | Yes | | 3.1.76 |
| Sound | getPan | 5 | | Yes | | 3.1.76 |
| Sound | getTransform | 5 | | No | | |
| Sound | getVolume | 5 | | Yes | | 3.0.63 |
| Sound | id3 | 6 | | No | | |
| Sound | loadSound | 6 | | Yes | | 3.0.71 |
| Sound | onID3 | 7 | | No | | |
| Sound | onLoad | 6 | | Yes | | 3.1.76 |
| Sound | onSoundComplete | 6 | | Yes | | 3.0.71 |
| Sound | position | 6 | | Yes | | 3.1.76 |
| Sound | setPan | 5 | | Yes | | 3.1.76 |
| Sound | setTransform | 5 | | No | | |
| Sound | setVolume | 5 | | Yes | | 3.0.63 |
| Sound | start | 5 | | Yes | | 3.0.63 |
| Sound | stop | 5 | | Yes | | 3.0.63 |
| | | | | | | |
| **Stage** | | **5** | | **Partial** | | **GFx 1.2** |
| Stage | addListener | 6 | | Yes | | 1.2.33 |
| Stage | align | 6 | | Yes | Alignment occurs within the specified viewport | 1.2.33 |
| Stage | height | 6 | | Yes | | 1.1.25 |
| Stage | onResize | 6 | | Yes | | 1.2.33 |
| Stage | removeListener | 6 | | Yes | | 1.2.33 |
| Stage | scaleMode | 6 | | Yes | | 1.2.23 |
| Stage | showMenu | 6 | | No | | |
| Stage | width | 6 | | Yes | | 1.1.25 |
| Stage | visibleRect | EXT | | Yes | R/O, currently visible rectangle | 2.2.56 |
| Stage | safeRect | EXT | | Yes | R/O, currently set safe rectangle | 2.2.56 |
| Stage | originalRect | EXT | | Yes | R/O, rectangle containing original SWF's dimensions | 2.2.56 |
| Stage | onResize w/parameter | EXT | | Yes | visibleRect is the parameter | 2.2.56 |
| | | | | | | |
| **String** | | **5** | | **Yes** | | **GFx 1.0** |
| String | charAt | 5 | | Yes | | 1.0 |
| String | charCodeAt | 5 | | Yes | | 1.0 |
| String | concat | 5 | | Yes | | 1.0 |
| String | fromCharCode | 5 | | Yes | | 1.0 |

| | | | | | |
|---|---|---|---|---|---|
| String | indexOf | 5 | | Yes | 1.0 |
| String | lastIndexOf | 5 | | Yes | 1.0 |
| String | length | 5 | | Yes | 1.0 |
| String | slice | 5 | | Yes | 1.0 |
| String | split | 5 | | Yes | 1.0 |
| String | substr | 5 | | Yes | 1.0 |
| String | substring | 5 | | Yes | 1.0 |
| String | toLowerCase | 5 | | Yes | 1.0 |
| String | toString | 5 | | Yes | 1.0 |
| String | toUpperCase | 5 | | Yes | 1.0 |
| String | valueOf | 5 | | Yes | 1.0 |
| | | | | | |
| **StyleSheet** | | **7** | | **Yes** | **GFx 2.2** |
| StyleSheet | clear | 7 | | Yes | 2.2.56 |
| StyleSheet | getStyle | 7 | | Yes | 2.2.56 |
| StyleSheet | getStyleNames | 7 | | Yes | 2.2.56 |
| StyleSheet | load | 7 | | Yes | 2.2.56 |
| StyleSheet | onLoad | 7 | | Yes | 2.2.56 |
| StyleSheet | parseCSS | 7 | | Yes | 2.2.56 |
| StyleSheet | setStyle | 7 | | Yes | 2.2.56 |
| StyleSheet | transform | 7 | | Yes | 2.2.56 |
| | | | | | |
| **System** | | **6** | | **No** | |
| System | exactSettings | 7 | | No | |
| System | onStatus | 6 | | No | |
| System | setClipboard | 7 | | No | |
| System | showSettings | 6 | | No | |
| System | useCodepage | 6 | | No | |
| | | | | | |
| **TextField** | | **6** | | **Partial** | **GFx 1.0** |
| TextField | addListener | 6 | | Yes | 2.0.37 |
| TextField | _alpha | 6 | | Yes | 1.0 |
| TextField | antiAliasType | 6 | | Yes | 2.0.39 |
| TextField | autoSize | 6 | | Yes | 1.1.25 |
| TextField | background | 6 | | Yes | 2.0.37 |
| TextField | backgroundColor | 6 | | Yes | 2.0.37 |
| TextField | border | 6 | | Yes | 1.1.25 |
| TextField | borderColor | 6 | | Yes | 2.0.37 |
| TextField | bottomScroll | 6 | | Yes | 2.0.37 |
| TextField | condenseWhite | 6 | | Yes | 2.0.37 |
| TextField | embedFonts | 6 | | Yes | 2.0.38 |

| TextField | filters | 8 | | Partial | Can set property, but cannot retrieve, since filter type information is lost during set. | 3.0.58 |
|---|---|---|---|---|---|---|
| TextField | getDepth | 6 | | Yes | | 1.0.23 |
| TextField | getFontList | 6 | | Yes | Also exposes fontlib and fontresource, in addition to fontprovider aggregations. | 3.0.58 |
| TextField | getNewTextFormat | 6 | | Yes | | 2.0.37 |
| TextField | getTextFormat | 6 | | Yes | | 2.0.37 |
| TextField | gridFitType | 8 | | No | | |
| TextField | _height | 6 | | Yes | Assignment does not match Flash for rotations | 1.0 |
| TextField | _highquality | 6 | 7 | No | | |
| TextField | hscroll | 6 | | Yes | | 2.0.37 |
| TextField | html | 6 | | Yes | | 2.0.37 |
| TextField | htmlText | 6 | | Yes | | 2.0.37 |
| TextField | length | 6 | | Yes | | 1.0 |
| TextField | maxChars | 6 | | Yes | | 2.0.37 |
| TextField | maxhscroll | 6 | | Yes | | 2.0.37 |
| TextField | maxscroll | 6 | | Yes | | 2.0.37 |
| TextField | menu | 7 | | No | | |
| TextField | mouseWheelEnabled | 7 | | Yes | | 2.0.41 |
| TextField | multiline | 6 | | Yes | | 1.1.25 |
| TextField | _name | 6 | | Yes | | 1.0.22 |
| TextField | onChanged | 6 | | Yes | | 1.1.25 |
| TextField | onKillFocus | 6 | | Yes | | 1.1.26 |
| TextField | onScroller | 6 | | Yes | | 2.0.37 |
| TextField | onSetFocus | 6 | | Yes | | 1.1.26 |
| TextField | _parent | 6 | | Yes | | 1.0.22 |
| TextField | password | 6 | | Yes | | 1.1.31 |
| TextField | _quality | 6 | | No | | |
| TextField | removeListener | 6 | | Yes | | 2.0.37 |
| TextField | removeTextField | 6 | | Yes | | 2.0.37 |
| TextField | replaceSel | 6 | | Yes | | 2.1.45 |
| TextField | replaceText | 7 | | Yes | | 2.0.37 |
| TextField | restrict | 6 | | Yes | | 3.2.82 |
| TextField | _rotation | 6 | | Yes | | 1.0.22 |
| TextField | scroll | 6 | | Yes | | 2.0.37 |
| TextField | selectable | 6 | | Yes | | 1.1.26 |
| TextField | setNewTextFormat | 6 | | Yes | | 2.0.37 |
| TextField | setTextFormat | 6 | | Yes | | 2.0.37 |
| TextField | sharpness | 8 | | No | | |
| TextField | _soundbuftime | 6 | | No | | |
| TextField | styleSheet | 7 | | Yes | | 2.2.56 |
| TextField | tabEnabled | | | Yes | | 1.1.26 |

| TextField | tabIndex | | | Yes | | 1.1.26 |
|-----------|----------|---|---|-----|---|--------|
| TextField | _target | | | Yes | | 1.0.22 |
| TextField | text | | | Yes | | 1.0 |
| TextField | textColor | | | Yes | | 1.0 |
| TextField | textHeight | | | Yes | | 1.0.22 |
| TextField | textWidth | | | Yes | | 1.0.22 |
| TextField | thickness | 8 | | No | | |
| TextField | type | | | Yes | | 2.0.37 |
| TextField | _url | | | Yes | | 1.0.23 |
| TextField | variable | | | Yes | | 1.1.25 |
| TextField | _visible | | | Yes | | 1.0 |
| TextField | _width | | | Yes | Assignment does not match Flash for rotations | 1.0 |
| TextField | wordWrap | | | Yes | | 1.1.25 |
| TextField | _x | | | Yes | | 1.0 |
| TextField | _xmouse | | | Yes | | 1.0.22 |
| TextField | _xscale | | | Yes | | 1.0.22 |
| TextField | _y | | | Yes | | 1.0 |
| TextField | _ymouse | | | Yes | | 1.0.22 |
| TextField | _yscale | | | Yes | | 1.0.22 |
| TextField | appendText | EXT | | Yes | See Flash 9 Documentation for details | 2.0.37 |
| TextField | appendHtml | EXT | | Yes | Appends HTML (incremental HTML parsing) | 2.0.37 |
| TextField | alwaysShowSelection | EXT | | Yes | See Flash 9 Documentation for details | 2.1.45 |
| TextField | autoFit | EXT | | Yes | Boolean, turns on/off auto-hinting | 2.0.39 |
| TextField | blurX, blurY | EXT | | Yes | R/W the blur radii of the text. 0 .. 15.9 (floating point). | 2.0.41 |
| TextField | blurStrength | EXT | | Yes | R/W the blur strength of the text. 0 .. 15.9 (floating point). | 2.0.41 |
| TextField | caretIndex | EXT | | Yes | R/O property. See Flash 9 Documentation for details | 2.0.37 |
| TextField | copyToClipboard | EXT | | Yes | ([richClipboard:Boolean], [startIndex:Number], [endIndex:Number]) | 2.1.45 |
| TextField | cutToClipboard | EXT | | Yes | ([richClipboard:Boolean], [startIndex:Number], [endIndex:Number]) | 2.1.45 |
| TextField | disableIME | EXT | | Yes | disables IME for particular text field | 2.1.50 |
| TextField | fontScaleFactor | EXT | | Yes | Scale multiplier for all fonts across the textfield | 2.0.43 |
| TextField | getCharBoundaries | EXT | | Yes | See Flash 9 Documentation for details | 2.0.37 |
| TextField | getExactCharBoundaries | EXT | | Yes | Returns more exact chars boundaries | 2.0.37 |
| TextField | getCharIndexAtPoint | EXT | | Yes | See Flash 9 Documentation for details | 2.0.37 |
| TextField | getFirstCharInParagraph | EXT | | Yes | See Flash 9 Documentation for details | 2.0.37 |
| TextField | getIMECompositionStringStyle | EXT | | Yes | Returns styles for IME composition string | 2.1.50 |
| TextField | getLineIndexAtPoint | EXT | | Yes | See Flash 9 Documentation for details | 2.0.37 |
| TextField | getLineIndexOfChar | EXT | | Yes | See Flash 9 Documentation for details | 2.0.37 |
| TextField | getLineOffset | EXT | | Yes | See Flash 9 Documentation for details | 2.0.37 |
| TextField | getLineLength | EXT | | Yes | See Flash 9 Documentation for details | 2.0.37 |
| TextField | getLineMetrics | EXT | | Yes | See Flash 9 Documentation for details | 2.0.43 |

| TextField | getLineText | EXT | | Yes | See Flash 9 Documentation for details | 2.0.43 |
|-----------|-------------|-----|--|-----|----------------------------------------|--------|
| TextField | hitTestDisable | EXT | | Yes | Prevents TextField from being used for hit-testing | 1.2.32 |
| TextField | inactiveSelectionBkgColor | EXT | | Yes | Bkg color of unfocused sel txt. Alpha is most signf oct | 2.1.45 |
| TextField | inactiveSelectionTextColor | EXT | | Yes | Color of unfocused sel text. Alpha is most signif oct | 2.1.45 |
| TextField | noAutoSelection | EXT | | Yes | Prevents auto selection when focus is transferred to a text field | 2.1.45 |
| TextField | noTranslate | EXT | | Yes | Prevents Translate from being called for the field | 1.2.34 |
| TextField | numLines | EXT | | Yes | R/O property. See Flash 9 Documentation for details | 2.0.43 |
| TextField | pasteFromClipboard | EXT | | Yes | ([richClipboard:Boolean], [startIndex:Number], [endIndex:Number]) | 2.1.45 |
| TextField | selectionBeginIndex | EXT | | Yes | See Flash 9 Documentation for details | 2.1.45 |
| TextField | selectionEndIndex | EXT | | Yes | See Flash 9 Documentation for details | 2.1.45 |
| TextField | selectionBkgColor | EXT | | Yes | Bkg color of sel text. Alpha is the most significant oct | 2.1.45 |
| TextField | selectionTextColor | EXT | | Yes | Color of selected text. Alpha is the most significant oct | 2.1.45 |
| TextField | setCompositionStringStyle | EXT | | Yes | Sets style of composition string | 2.1.45 |
| TextField | setClauseStyle | EXT | | Yes | Sets style of composition string's clause | 2.1.45 |
| TextField | setImageSubstitutions | EXT | | Yes | Sets image substitutions for substrings | 2.0.38 |
| TextField | setIMECompositionStringStyle | EXT | | Yes | Sets styles for IME composition string | 2.1.50 |
| TextField | shadowStyle | EXT | | Yes | Text shadow format string "s{1,1}t{0,0}" | 1.1.31 |
| TextField | shadowColor | EXT | | Yes | Color of text shadow; same format as textColor | 1.1.31 |
| TextField | shadowBlurX, shadowBlurY | EXT | | Yes | R/W the blur radii of the shadow. 0 .. 15.9 (floating point). | 2.0.41 |
| TextField | shadowAlpha | EXT | | Yes | R/W shadow alpha. 0.00 .. 1.00 (floating point). | 2.0.41 |
| TextField | shadowAngle | EXT | | Yes | R/W shadow angle. 0..360 (floating point). Default is 45 | 2.0.41 |
| TextField | shadowDistance | EXT | | Yes | R/W shadow distance, in pixels. | 2.0.41 |
| TextField | shadowHideObject | EXT | | Yes | Boolean, indicates whether or not the text is hidden. | 2.0.41 |
| TextField | shadowKnockOut | EXT | | Yes | Boolean, turns on/off a knockout effect | 2.0.41 |
| TextField | shadowQuality | EXT | | Yes | R/W quality of shadow or glow. 1 (low) or 2+ (high) | 2.0.41 |
| TextField | shadowStrength | EXT | | Yes | R/W shadow strength of the text. 0 .. 15.9 (floating point). | 2.0.41 |
| TextField | textAutoSize | EXT | | Yes | Text auto size mode: "shrink", "fit", "none" | 2.0.43 |
| TextField | topmostLevel | EXT | | Yes | Boolean, makes object topmost on the stage | 2.1.50 |
| TextField | updateImageSubstitution | EXT | | Yes | Updates image substitutions for a substring | 2.0.38 |
| TextField | useRichTextClipboard | EXT | | Yes | Turns on/off rich text clipboard. See Flash 9 docs. | 2.1.45 |
| TextField | verticalAlign | EXT | | Yes | Vertical alignment, "top", "bottom", "center", "none" | 2.1.51 |
| TextField | verticalAutoSize | EXT | | Yes | Vertical autosize, "top", "bottom", "center", "none" | 2.0.43 |
| TextField | <FONT ALPHA="#AA"> | EXT | | Yes | HTML extension to specify alpha [00..FF] | 2.0.37 |
| TextField | _z | EXT | | Yes | Sets the Z coordinate (depth) of the object. | 3.2.82 |
| TextField | _zscale | EXT | | Yes | Sets the scale of the object in the Z direction as a percentage | 3.2.82 |
| TextField | _xrotation | EXT | | Yes | Sets the rotation of the object around the X (horizontal) axis | 3.2.82 |
| TextField | _yrotation | EXT | | Yes | Sets the rotation of the object around the Y (vertical) axis | 3.2.82 |

| | | | | | | |
|---|---|---|---|---|---|---|
| TextField | _matrix3d | EXT | | Yes | Sets the complete 3D transform of the object using an array of 16 floats (4 * 4 matrix) | 3.2.82 |
| TextField | _perspfov | EXT | | Yes | Allows the perspective field of view angle (in degrees) to be set on a movie clip. | 3.2.84 |
| TextField | outline | EXT | | Yes | Sets the outline width of fonts | 3.3.85 |
| | | | | | | |
| **TextFormat** | | **6** | | **Partial** | | **GFx 2.0** |
| TextFormat | align | 6 | | Yes | | 2.0.41 |
| TextFormat | blockIndent | 6 | | Yes | | 2.0.43 |
| TextFormat | bold | 6 | | Yes | | 2.0.37 |
| TextFormat | bullet | 6 | | Yes | | 2.0.37 |
| TextFormat | color | 6 | | Yes | | 2.0.37 |
| TextFormat | font | 6 | | Yes | | 2.0.37 |
| TextFormat | getTextExtent | 6 | 8 | Yes | | 2.0.43 |
| TextFormat | indent | 6 | | Yes | | 2.0.37 |
| TextFormat | italic | 6 | | Yes | | 2.0.37 |
| TextFormat | kerning | 8 | | Yes | | 2.0.37 |
| TextFormat | leading | 6 | | Yes | | 2.0.37 |
| TextFormat | leftMargin | 6 | | Yes | | 2.0.37 |
| TextFormat | letterSpacing | 8 | | Yes | | 2.0.37 |
| TextFormat | rightMargin | 6 | | Yes | | 2.0.37 |
| TextFormat | size | 6 | | Yes | | 2.0.37 |
| TextFormat | tabStops | 6 | | Yes | | 2.0.42 |
| TextFormat | target | 6 | | Partial | can set/get, but it has no effect | 4.0+ |
| TextFormat | underline | 6 | | Yes | | 2.0.39 |
| TextFormat | url | 6 | | Yes | asfunction protocol only is supported | 2.0.37 |
| TextFormat | alpha | EXT | | Yes | alpha, in percents [0..100] | 2.0.37 |
| | | | | | | |
| **TextRenderer** | | **8** | | **No** | | |
| TextRenderer | maxLevel | 8 | | No | | |
| TextRenderer | setAdvancedAntialiasingTable | 8 | | No | | |
| | | | | | | |
| **TextSnapshot** | | **7** | | **Yes** | | **GFx 3.0** |
| TextSnapshot | findText | 7 | | Yes | | 3.0.58 |
| TextSnapshot | getCount | 7 | | Yes | | 3.0.58 |
| TextSnapshot | getSelected | 7 | | Yes | | 3.0.58 |
| TextSnapshot | getSelectedText | 7 | | Yes | | 3.0.58 |
| TextSnapshot | getText | 7 | | Yes | | 3.0.58 |
| TextSnapshot | getTextRunInfo | 7 | | Yes | | 3.0.58 |
| TextSnapshot | hitTestTextNearPos | 7 | | Partial | Range hittesting only partially implemented | 3.0.58 |
| TextSnapshot | setSelectColor | 7 | | Yes | | 3.0.58 |
| TextSnapshot | setSelected | 7 | | Yes | | 3.0.58 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **Transform** | | **8** | | **Yes** | | **GFx 1.2** |
| Transform | colorTransform | 8 | | Yes | | 1.2.35 |
| Transform | concatenatedColorTransform | 8 | | Yes | | 1.2.35 |
| Transform | concatenatedMatrix | 8 | | Yes | | 1.2.35 |
| Transform | matrix | 8 | | Yes | | 1.2.35 |
| Transform | pixelBounds | 8 | | Yes | | 1.2.35 |
| | | | | | | |
| **Video** | | **6** | | **Yes** | | **GFx 3.0** |
| Video | _alpha | 8 | | Yes | | 3.0.63 |
| Video | attachVideo | 6 | | Yes | | 3.0.63 |
| Video | clear | 6 | | Yes | | 3.0.63 |
| Video | deblocking | 6 | | Yes | | 3.1.76 |
| Video | _height | 8 | | Yes | | 3.0.63 |
| Video | height | 6 | | Yes | | 3.0.63 |
| Video | _name | 8 | | Yes | | 3.0.63 |
| Video | _parent | 8 | | Yes | | 3.0.63 |
| Video | _rotation | 8 | | Yes | | 3.0.63 |
| Video | smoothing | 6 | | Yes | | 3.1.76 |
| Video | _visible | 8 | | Yes | | 3.0.63 |
| Video | _width | 8 | | Yes | | 3.0.63 |
| Video | width | 6 | | Yes | | 3.0.63 |
| Video | _x | 8 | | Yes | | 3.0.63 |
| Video | _xmouse | 8 | | Yes | | 3.0.63 |
| Video | _xscale | 8 | | Yes | | 3.0.63 |
| Video | _y | 8 | | Yes | | 3.0.63 |
| Video | _ymouse | 8 | | Yes | | 3.0.63 |
| Video | _yscale | 8 | | Yes | | 3.0.63 |
| Video | clipRect | EXT | | Yes | used to display only a given rectangular region of the video | 3.1.76 |
| | | | | | | |
| **XML** | | **5** | | **Yes** | | **GFx 2.2** |
| XML | addRequestHeader | 6 | | Yes | | 2.2.55 |
| XML | contentType | 6 | | Yes | | 2.2.55 |
| XML | createElement | 5 | | Yes | | 2.2.55 |
| XML | createTextNode | 5 | | Yes | | 2.2.55 |
| XML | docTypeDecl | 5 | | No | Inconsistency with XML parser caused this property to be omitted. It has no functional use as DTD validation is not performed. | |
| XML | getBytesLoaded | 6 | | Yes | | 2.2.55 |
| XML | getBytesTotal | 6 | | Yes | | 2.2.55 |
| XML | idMap | 8 | | Yes | | 2.2.55 |
| XML | ignoreWhite | 5 | | Yes | | 2.2.55 |

| | | | | | | |
|---|---|---|---|---|---|---|
| XML | load | 5 | | Yes | | 2.2.55 |
| XML | loaded | 5 | | Yes | | 2.2.55 |
| XML | onData | 5 | | Yes | | 2.2.55 |
| XML | onHTTPStatus | 8 | | Yes | | 2.2.55 |
| XML | onLoad | 5 | | Yes | | 2.2.55 |
| XML | parseXML | 5 | | Yes | | 2.2.55 |
| XML | send | 5 | | Yes | | 2.2.55 |
| XML | sendAndLoad | 5 | | Yes | | 2.2.55 |
| XML | status | 5 | | No | Inconsistencies between XML parser error codes and the AS 2.0 error codes caused this property to be omitted. It is impossible to create a unique mapping between most third party parsers and AS 2.0 XML. | |
| XML | xmlDecl | 5 | | Yes | | 2.2.55 |
| | | | | | | |
| **XMLNode** | | **5** | | **Yes** | | **GFx 2.2** |
| XMLNode | appendChild | 5 | | Yes | | 2.2.55 |
| XMLNode | attributes | 5 | | Yes | | 2.2.55 |
| XMLNode | childNodes | 5 | | Yes | | 2.2.55 |
| XMLNode | cloneNode | 5 | | Yes | | 2.2.55 |
| XMLNode | firstChild | 5 | | Yes | | 2.2.55 |
| XMLNode | getNamespaceForPrefix | 8 | | Yes | | 2.2.55 |
| XMLNode | getPrefixForNamespace | 8 | | Yes | | 2.2.55 |
| XMLNode | hasChildNodes | 5 | | Yes | | 2.2.55 |
| XMLNode | insertBefore | 5 | | Yes | | 2.2.55 |
| XMLNode | lastChild | 5 | | Yes | | 2.2.55 |
| XMLNode | localName | 8 | | Yes | | 2.2.55 |
| XMLNode | namespaceURI | 8 | | Yes | | 2.2.55 |
| XMLNode | nextSibling | 5 | | Yes | | 2.2.55 |
| XMLNode | nodeName | 5 | | Yes | | 2.2.55 |
| XMLNode | nodeType | 5 | | Yes | | 2.2.55 |
| XMLNode | nodeValue | 5 | | Yes | | 2.2.55 |
| XMLNode | parentNode | 5 | | Yes | | 2.2.55 |
| XMLNode | prefix | 8 | | Yes | | 2.2.55 |
| XMLNode | previousSibling | 5 | | Yes | | 2.2.55 |
| XMLNode | removeNode | 5 | | Yes | | 2.2.55 |
| XMLNode | toString | 5 | | Yes | | 2.2.55 |
| | | | | | | |
| **XMLSocket** | | **5** | | **No** | | |
| XMLSocket | close | 5 | | No | | |
| XMLSocket | connect | 5 | | No | | |
| XMLSocket | onClose | 5 | | No | | |
| XMLSocket | onConnect | 5 | | No | | |
| XMLSocket | onData | 5 | | No | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| XMLSocket | onXML | 5 | | No | | |
| XMLSocket | send | 5 | | No | | |
| | | | | | | |
| **XMLUI** | | **7** | | **No** | | |
| XMLUI | accept | 7 | | No | | |
| XMLUI | cancel | 7 | | No | | |
| XMLUI | get | 7 | | No | | |
| XMLUI | set | 7 | | No | | |

# AS3 Class Functions

Flash AS3 Class functions used in GFx.

**Global Functions**

| Package | Function | | SWF Version | Deprecated | Supported | Comment | GFx |
|---------|----------|--|-------------|------------|-----------|---------|-----|
| **Top Level** | | | **9** | | **Partial** | | **GFx 4.0** |
| | Array | | 9 | | Yes | | 4.0 |
| | Boolean | | 9 | | Yes | | 4.0 |
| | decodeURI | | 9 | | Yes | | 4.0 |
| | decodeURIComponent | | 9 | | Yes | | 4.0 |
| | encodeURI | | 9 | | Yes | | 4.0 |
| | encodeURIComponent | | 9 | | Yes | | 4.0 |
| | escape | | 9 | | Yes | | 4.0 |
| | int | | 9 | | Yes | | 4.0 |
| | isFinite | | 9 | | Yes | | 4.0 |
| | isNaN | | 9 | | Yes | | 4.0 |
| | isXMLName | | 9 | | Yes | | 4.1 |
| | Number | | 9 | | Yes | | 4.0 |
| | Object | | 9 | | Yes | | 4.0 |
| | parseFloat | | 9 | | Yes | | 4.0 |
| | parseInt | | 9 | | Yes | | 4.0 |
| | String | | 9 | | Yes | | 4.0 |
| | trace | | 9 | | Yes | | 4.0 |
| | uint | | 9 | | Yes | | 4.0 |
| | unescape | | 9 | | Partial | Requires UTF-16 internal string presentation | 4.0 |
| | Vector | | 10 | | Yes | | 4.0 |
| | XML | | 9 | | Yes | | 4.1 |
| | XMLList | | 9 | | Yes | | 4.1 |
| **flash.utils** | | | **9** | | **Partial** | | **GFx 4.0** |
| | clearInterval | | 9 | | Yes | | 4.0 |
| | clearTimeout | | 9 | | Yes | | 4.0 |
| | describeType | | 9 | | Partial | Classes implemented in C++ do not have all necessary information. | 4.1 |
| | escapeMultiByte | | 9 | | Yes | | 4.0 |
| | getDefinitionByName | | 9 | | Yes | | 4.0 |
| | getQualifiedClassName | | 9 | | Yes | | 4.0 |
| | getQualifiedSuperclassName | | 9 | | Yes | | 4.0 |
| | getTimer | | 9 | | Yes | | 4.0 |

| | setInterval | | 9 | | Yes | | 4.0 |
|---|---|---|---|---|---|---|---|
| | setTimeout | | 9 | | Yes | | 4.0 |
| | unescapeMultiByte | | 9 | | Yes | | 4.0 |
| **flash.system** | | | **9** | | **Yes** | | **4.0** |
| | fscommand | | 9 | | Yes | | 4.0 |

**Global Constants**

| | Constants | | SWF Version | Deprecated | Supported | Comment | GFx |
|---|---|---|---|---|---|---|---|
| | Infinity | | 9 | | Yes | | 4.0 |
| | -Infinity | | 9 | | Yes | | 4.0 |
| | NaN | | 9 | | Yes | | 4.0 |
| | undefined | | 9 | | Yes | | 4.0 |

**Classes**

| Package | Class | Name | SWF Version | Deprecated | Supported | Comment | GFx |
|---|---|---|---|---|---|---|---|
| **Top Level** | **ArgumentError** | | **9** | | **Yes** | | **GFx 4.0** |
| | ArgumentError | ArgumentError | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **arguments** | | **8** | | **Yes** | | **GFx 4.0** |
| | arguments | callee | 8 | | Yes | | 4.0 |
| | arguments | length | 8 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **Array** | | **9** | | **Yes** | **Methods are not generic yet** | **GFx 4.0** |
| | Array | length | 9 | | Yes | | 4.0 |
| | Array | Array | 9 | | Yes | | 4.0 |
| | Array | concat | 9 | | Yes | | 4.0 |
| | Array | every | 9 | | Yes | | 4.0 |
| | Array | filter | 9 | | Yes | | 4.0 |
| | Array | forEach | 9 | | Yes | | 4.0 |
| | Array | indexOf | 9 | | Yes | | 4.0 |
| | Array | join | 9 | | Yes | | 4.0 |
| | Array | lastIndexOf | 9 | | Yes | | 4.0 |
| | Array | map | 9 | | Yes | | 4.0 |
| | Array | pop | 9 | | Yes | | 4.0 |
| | Array | push | 9 | | Yes | | 4.0 |
| | Array | reverse | 9 | | Yes | | 4.0 |
| | Array | shift | 9 | | Yes | | 4.0 |
| | Array | slice | 9 | | Yes | | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Array | some | 9 | | Yes | | 4.0 |
| | Array | sort | 9 | | Yes | | 4.0 |
| | Array | sortOn | 9 | | Yes | | 4.0 |
| | Array | splice | 9 | | Yes | | 4.0 |
| | Array | toLocaleString | 9 | | Yes | | 4.0 |
| | Array | toString | 9 | | Yes | | 4.0 |
| | Array | unshift | 9 | | Yes | | 4.0 |
| | Array | CASEINSENSITIVE | 9 | | Yes | | 4.0 |
| | Array | DESCENDING | 9 | | Yes | | 4.0 |
| | Array | NUMERIC | 9 | | Yes | | 4.0 |
| | Array | RETURNINDEXEDARRAY | 9 | | Yes | | 4.0 |
| | Array | UNIQUESORT | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **Boolean** | | **9** | | **Yes** | | **GFx 4.0** |
| | Boolean | Boolean | 9 | | Yes | | 4.0 |
| | Boolean | toString | 9 | | Yes | | 4.0 |
| | Boolean | valueOf | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **Class** | | **9** | | **Yes** | | **GFx 4.0** |
| | | | | | | | |
| **Top Level** | **Date** | | **9** | | **Yes** | | **GFx 4.0** |
| | Date | date | 9 | | Yes | | 4.0 |
| | Date | dateUTC | 9 | | Yes | | 4.0 |
| | Date | day | 9 | | Yes | | 4.0 |
| | Date | dayUTC | 9 | | Yes | | 4.0 |
| | Date | fullYear | 9 | | Yes | | 4.0 |
| | Date | fullYearUTC | 9 | | Yes | | 4.0 |
| | Date | hours | 9 | | Yes | | 4.0 |
| | Date | hoursUTC | 9 | | Yes | | 4.0 |
| | Date | milliseconds | 9 | | Yes | | 4.0 |
| | Date | millisecondsUTC | 9 | | Yes | | 4.0 |
| | Date | minutes | 9 | | Yes | | 4.0 |
| | Date | minutesUTC | 9 | | Yes | | 4.0 |
| | Date | month | 9 | | Yes | | 4.0 |
| | Date | monthUTC | 9 | | Yes | | 4.0 |
| | Date | seconds | 9 | | Yes | | 4.0 |
| | Date | secondsUTC | 9 | | Yes | | 4.0 |
| | Date | time | 9 | | Yes | | 4.0 |
| | Date | timezoneOffset | 9 | | Yes | | 4.0 |
| | Date | Date | 9 | | Yes | | 4.0 |
| | Date | getDate | 9 | | Yes | | 4.0 |
| | Date | getDay | 9 | | Yes | | 4.0 |

| | Date | getMinutes | 9 | | Yes | | 4.0 |
|---|---|---|---|---|---|---|---|
| | Date | getMinutes | 9 | | Yes | | 4.0 |
| | Date | getFullYear | 9 | | Yes | | 4.0 |
| | Date | getHours | 9 | | Yes | | 4.0 |
| | Date | getMilliseconds | 9 | | Yes | | 4.0 |
| | Date | getMinutes | 9 | | Yes | | 4.0 |
| | Date | getMonth | 9 | | Yes | | 4.0 |
| | Date | getSeconds | 9 | | Yes | | 4.0 |
| | Date | getTime | 9 | | Yes | | 4.0 |
| | Date | getTimezoneOffset | 9 | | Yes | | 4.0 |
| | Date | getUTCDate | 9 | | Yes | | 4.0 |
| | Date | getUTCDay | 9 | | Yes | | 4.0 |
| | Date | getUTCFullYear | 9 | | Yes | | 4.0 |
| | Date | getUTCHours | 9 | | Yes | | 4.0 |
| | Date | getUTCMilliseconds | 9 | | Yes | | 4.0 |
| | Date | getUTCMinutes | 9 | | Yes | | 4.0 |
| | Date | getUTCMonth | 9 | | Yes | | 4.0 |
| | Date | getUTCSeconds | 9 | | Yes | | 4.0 |
| | Date | parse | 9 | | Yes | | 4.0 |
| | Date | setDate | 9 | | Yes | | 4.0 |
| | Date | setFullYear | 9 | | Yes | | 4.0 |
| | Date | setHours | 9 | | Yes | | 4.0 |
| | Date | setMilliseconds | 9 | | Yes | | 4.0 |
| | Date | setMinutes | 9 | | Yes | | 4.0 |
| | Date | setMonth | 9 | | Yes | | 4.0 |
| | Date | setSeconds | 9 | | Yes | | 4.0 |
| | Date | setTime | 9 | | Yes | | 4.0 |
| | Date | setUTCDate | 9 | | Yes | | 4.0 |
| | Date | setUTCFullYear | 9 | | Yes | | 4.0 |
| | Date | setUTCHours | 9 | | Yes | | 4.0 |
| | Date | setUTCMilliseconds | 9 | | Yes | | 4.0 |
| | Date | setUTCMinutes | 9 | | Yes | | 4.0 |
| | Date | setUTCMonth | 9 | | Yes | | 4.0 |
| | Date | setUTCSeconds | 9 | | Yes | | 4.0 |
| | Date | toDateString | 9 | | Yes | | 4.0 |
| | Date | toLocaleDateString | 9 | | Yes | | 4.0 |
| | Date | toLocaleString | 9 | | Yes | Does't generate AM/PM | 4.0 |
| | Date | toLocaleTimeString | 9 | | Yes | Does't generate AM/PM | 4.0 |
| | Date | toString | 9 | | Yes | | 4.0 |
| | Date | toTimeString | 9 | | Yes | | 4.0 |
| | Date | toUTCString | 9 | | Yes | | 4.0 |
| | Date | UTC | 9 | | Yes | | 4.0 |
| | Date | valueOf | 9 | | Yes | | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Top Level** | **DefinitionError** | | | **9** | | **Yes** | | **GFx 4.0** |
| | DefinitionError | DefinitionError | | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **Error** | | | **9** | | **Yes** | | **GFx 4.0** |
| | Error | errorID | | 9 | | Yes | | 4.0 |
| | Error | message | | 9 | | Yes | | 4.0 |
| | Error | name | | 9 | | Yes | | 4.0 |
| | Error | Error | | 9 | | Yes | | 4.0 |
| | Error | getStackTrace | | 9 | | Yes | | 4.0 |
| | Error | toString | | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **EvalError** | | | **9** | | **Yes** | | **GFx 4.0** |
| | EvalError | EvalError | | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **Function** | | | **9** | | **Yes** | | **GFx 4.0** |
| | Function | apply | | 9 | | Yes | | 4.0 |
| | Function | call | | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **int** | | | **9** | | Yes | | **GFx 4.0** |
| | int | int | | 9 | | Yes | | 4.0 |
| | int | toExponential | | 9 | | Yes | | 4.0 |
| | int | toFixed | | 9 | | Yes | | 4.0 |
| | int | toPrecision | | 9 | | Yes | | 4.0 |
| | int | toString | | 9 | | Yes | | 4.0 |
| | int | valueOf | | 9 | | Yes | | 4.0 |
| | int | MAX_VALUE | | 9 | | Yes | | 4.0 |
| | int | MIN_VALUE | | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **Math** | | | **9** | | **Yes** | | **GFx 4.0** |
| | Math | abs | | 9 | | Yes | | 4.0 |
| | Math | acos | | 9 | | Yes | | 4.0 |
| | Math | asin | | 9 | | Yes | | 4.0 |
| | Math | atan | | 9 | | Yes | | 4.0 |
| | Math | atan2 | | 9 | | Yes | | 4.0 |
| | Math | ceil | | 9 | | Yes | | 4.0 |
| | Math | cos | | 9 | | Yes | | 4.0 |
| | Math | exp | | 9 | | Yes | | 4.0 |
| | Math | floor | | 9 | | Yes | | 4.0 |
| | Math | log | | 9 | | Yes | | 4.0 |
| | Math | max | | 9 | | Yes | | 4.0 |
| | Math | min | | 9 | | Yes | | 4.0 |

| | Math | pow | 9 | | Yes | | 4.0 |
|---|---|---|---|---|---|---|---|
| | Math | random | 9 | | Yes | | 4.0 |
| | Math | round | 9 | | Yes | | 4.0 |
| | Math | sin | 9 | | Yes | | 4.0 |
| | Math | sqrt | 9 | | Yes | | 4.0 |
| | Math | tan | 9 | | Yes | | 4.0 |
| | Math | E | 9 | | Yes | | 4.0 |
| | Math | LN10 | 9 | | Yes | | 4.0 |
| | Math | LN2 | 9 | | Yes | | 4.0 |
| | Math | LOG10E | 9 | | Yes | | 4.0 |
| | Math | LOG2E | 9 | | Yes | | 4.0 |
| | Math | PI | 9 | | Yes | | 4.0 |
| | Math | SQRT1_2 | 9 | | Yes | | 4.0 |
| | Math | SQRT2 | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **Namespace** | | **9** | | **Yes** | | **GFx 4.0** |
| | Namespace | prefix | 9 | | Yes | | 4.0 |
| | Namespace | uri | 9 | | Yes | | 4.0 |
| | Namespace | Namespace | 9 | | Yes | | 4.0 |
| | Namespace | toString | 9 | | Yes | | 4.0 |
| | Namespace | valueOf | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **Number** | | **9** | | **Yes** | | **GFx 4.0** |
| | Number | Number | 9 | | Yes | | 4.0 |
| | Number | toExponential | 9 | | Yes | | 4.0 |
| | Number | toFixed | 9 | | Yes | | 4.0 |
| | Number | toPrecision | 9 | | Yes | | 4.0 |
| | Number | toString | 9 | | Yes | | 4.0 |
| | Number | valueOf | 9 | | Yes | | 4.0 |
| | Number | MAX_VALUE | 9 | | Yes | | 4.0 |
| | Number | MIN_VALUE | 9 | | Yes | | 4.0 |
| | Number | NaN | 9 | | Yes | | 4.0 |
| | Number | NEGATIVE_INFINITY | 9 | | Yes | | 4.0 |
| | Number | POSITIVE_INFINITY | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **Object** | | **9** | | **Yes** | | **GFx 4.0** |
| | Object | constructor | 9 | | Yes | | 4.0 |
| | Object | prototype | 9 | | Yes | | 4.0 |
| | Object | Object | 9 | | Yes | | 4.0 |
| | Object | hasOwnProperty | 9 | | Yes | | 4.0 |
| | Object | isPrototypeOf | 9 | | Yes | | 4.0 |
| | Object | propertyIsEnumerable | 9 | | Yes | | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Object | setPropertyIsEnumerable | 9 | | Yes | | 4.0 |
| | Object | toString | 9 | | Yes | | 4.0 |
| | Object | valueOf | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **QName** | | **9** | | **Yes** | | **GFx 4.0** |
| | QName | localName | 9 | | Yes | | 4.0 |
| | QName | uri | 9 | | Yes | | 4.0 |
| | QName | QName | 9 | | Yes | | 4.0 |
| | QName | toString | 9 | | Yes | | 4.0 |
| | QName | valueOf | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **RangeError** | | **9** | | **Yes** | | **GFx 4.0** |
| | RangeError | RangeError | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **ReferenceError** | | **9** | | **Yes** | | **GFx 4.0** |
| | ReferenceError | ReferenceError | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **RegExp** | | **9** | | **Yes** | | **GFx 4.1** |
| | RegExp | dotall | 9 | | Yes | | 4.1 |
| | RegExp | extended | 9 | | Yes | | 4.1 |
| | RegExp | global | 9 | | Yes | | 4.1 |
| | RegExp | ignoreCase | 9 | | Yes | | 4.1 |
| | RegExp | lastIndex | 9 | | Yes | | 4.1 |
| | RegExp | multiline | 9 | | Yes | | 4.1 |
| | RegExp | source | 9 | | Yes | | 4.1 |
| | RegExp | RegExp | 9 | | Yes | | 4.1 |
| | RegExp | exec | 9 | | Yes | | 4.1 |
| | RegExp | test | 9 | | Yes | | 4.1 |
| | | | | | | | |
| **Top Level** | **SecurityError** | | **9** | | **Yes** | | **GFx 4.0** |
| | SecurityError | SecurityError | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **String** | | **9** | | **Yes** | | **GFx 4.0** |
| | String | length | 9 | | Yes | | 4.0 |
| | String | String | 9 | | Yes | | 4.0 |
| | String | charAt | 9 | | Yes | | 4.0 |
| | String | charCodeAt | 9 | | Yes | | 4.0 |
| | String | concat | 9 | | Yes | | 4.0 |
| | String | fromCharCode | 9 | | Yes | | 4.0 |
| | String | indexOf | 9 | | Yes | | 4.0 |
| | String | lastIndexOf | 9 | | Yes | | 4.0 |
| | String | localeCompare | 9 | | Yes | | 4.0 |

| | String | match | 9 | | Yes | | 4.1 |
|---|---|---|---|---|---|---|---|
| | String | replace | 9 | | Partial | Special replacement codes not supported | 4.1 |
| | String | search | 9 | | Yes | | 4.1 |
| | String | slice | 9 | | Yes | | 4.0 |
| | String | split | 9 | | Yes | | 4.1 |
| | String | substr | 9 | | Yes | | 4.0 |
| | String | substring | 9 | | Yes | | 4.0 |
| | String | toLocaleLowerCase | 9 | | Yes | Locale-insensitive | 4.0 |
| | String | toLocaleUpperCase | 9 | | Yes | | 4.0 |
| | String | toLowerCase | 9 | | Yes | | 4.0 |
| | String | toUpperCase | 9 | | Yes | | 4.0 |
| | String | valueOf | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **SyntaxError** | | **9** | | **Yes** | | **GFx 4.0** |
| | SyntaxError | SyntaxError | 9 | | Yes | | 4.0 |
| | | | | | | | 4.0 |
| **Top Level** | **TypeError** | | **9** | | **Yes** | | 4.0 |
| | TypeError | TypeError | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **uint** | | **9** | | **Yes** | | **GFx 4.0** |
| | uint | uint | 9 | | Yes | | 4.0 |
| | uint | toExponential | 9 | | Yes | | 4.0 |
| | uint | toFixed | 9 | | Yes | | 4.0 |
| | uint | toPrecision | 9 | | Yes | | 4.0 |
| | uint | toString | 9 | | Yes | | 4.0 |
| | uint | valueOf | 9 | | Yes | | 4.0 |
| | uint | MAX_VALUE | 9 | | Yes | | 4.0 |
| | uint | MIN_VALUE | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **URIError** | | **9** | | **Yes** | | **GFx 4.0** |
| | URIError | URIError | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **Vector** | | **10** | | **Yes** | | **GFx 4.0** |
| | Vector | fixed | 10 | | Yes | | 4.0 |
| | Vector | length | 10 | | Yes | | 4.0 |
| | Vector | Vector | 10 | | Yes | | 4.0 |
| | Vector | concat | 10 | | Yes | | 4.0 |
| | Vector | every | 10 | | Yes | | 4.0 |
| | Vector | filter | 10 | | Yes | | 4.0 |
| | Vector | forEach | 10 | | Yes | | 4.0 |
| | Vector | indexOf | 10 | | Yes | | 4.0 |
| | Vector | join | 10 | | Yes | | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Vector | lastIndexOf | 10 | | Yes | | 4.0 |
| | Vector | map | 10 | | Yes | | 4.0 |
| | Vector | pop | 10 | | Yes | | 4.0 |
| | Vector | push | 10 | | Yes | | 4.0 |
| | Vector | reverse | 10 | | Yes | | 4.0 |
| | Vector | shift | 10 | | Yes | | 4.0 |
| | Vector | slice | 10 | | Yes | | 4.0 |
| | Vector | some | 10 | | Yes | | 4.0 |
| | Vector | sort | 10 | | Yes | | 4.0 |
| | Vector | splice | 10 | | Yes | | 4.0 |
| | Vector | toLocaleString | 10 | | Yes | | 4.0 |
| | Vector | toString | 10 | | Yes | | 4.0 |
| | Vector | unshift | 10 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **VerifyError** | | **9** | | **Yes** | | **GFx 4.0** |
| | VerifyError | VerifyError | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **Top Level** | **XML** | | **9** | | **Yes** | | **GFx 4.1** |
| | XML | ignoreComments | 9 | | Yes | | 4.1 |
| | XML | ignoreProcessingInstructions | 9 | | Yes | | 4.1 |
| | XML | ignoreWhitespace | 9 | | Yes | | 4.1 |
| | XML | prettyIndent | 9 | | Yes | | 4.1 |
| | XML | prettyPrinting | 9 | | Yes | | 4.1 |
| | XML | XML | 9 | | Yes | | 4.1 |
| | XML | addNamespace | 9 | | Yes | | 4.1 |
| | XML | appendChild | 9 | | Yes | | 4.1 |
| | XML | attribute | 9 | | Yes | | 4.1 |
| | XML | attributes | 9 | | Yes | | 4.1 |
| | XML | child | 9 | | Yes | | 4.1 |
| | XML | childIndex | 9 | | Yes | | 4.1 |
| | XML | children | 9 | | Yes | | 4.1 |
| | XML | comments | 9 | | Yes | | 4.1 |
| | XML | contains | 9 | | Yes | | 4.1 |
| | XML | copy | 9 | | Yes | | 4.1 |
| | XML | defaultSettings | 9 | | Yes | | 4.1 |
| | XML | descendants | 9 | | Yes | | 4.1 |
| | XML | elements | 9 | | Yes | | 4.1 |
| | XML | hasComplexContent | 9 | | Yes | | 4.1 |
| | XML | hasOwnProperty | 9 | | Yes | | 4.1 |
| | XML | hasSimpleContent | 9 | | Yes | | 4.1 |
| | XML | inScopeNamespaces | 9 | | Yes | | 4.1 |
| | XML | insertChildAfter | 9 | | Yes | | 4.1 |

| | XML | insertChildBefore | 9 | | Yes | | 4.1 |
|---|---|---|---|---|---|---|---|
| | XML | length | 9 | | Yes | | 4.1 |
| | XML | localName | 9 | | Yes | | 4.1 |
| | XML | name | 9 | | Yes | | 4.1 |
| | XML | namespace | 9 | | Yes | | 4.1 |
| | XML | namespaceDeclarations | 9 | | Yes | | 4.1 |
| | XML | nodeKind | 9 | | Yes | | 4.1 |
| | XML | normalize | 9 | | Yes | | 4.1 |
| | XML | parent | 9 | | Yes | | 4.1 |
| | XML | prependChild | 9 | | Yes | | 4.1 |
| | XML | processingInstructions | 9 | | Yes | | 4.1 |
| | XML | propertyIsEnumerable | 9 | | Yes | | 4.1 |
| | XML | removeNamespace | 9 | | Yes | | 4.1 |
| | XML | replace | 9 | | Yes | | 4.1 |
| | XML | setChildren | 9 | | Yes | | 4.1 |
| | XML | setLocalName | 9 | | Yes | | 4.1 |
| | XML | setName | 9 | | Yes | | 4.1 |
| | XML | setNamespace | 9 | | Yes | | 4.1 |
| | XML | setSettings | 9 | | Yes | | 4.1 |
| | XML | settings | 9 | | Yes | | 4.1 |
| | XML | text | 9 | | Yes | | 4.1 |
| | XML | toString | 9 | | Yes | | 4.1 |
| | XML | toXMLString | 9 | | Yes | | 4.1 |
| | XML | valueOf | 9 | | Yes | | 4.1 |
| | | | | | | | |
| **Top Level** | **XMLList** | | **9** | | Yes | | **GFx 4.1** |
| | XMLList | XMLList | 9 | | Yes | | 4.1 |
| | XMLList | attribute | 9 | | Yes | | 4.1 |
| | XMLList | attributes | 9 | | Yes | | 4.1 |
| | XMLList | child | 9 | | Yes | | 4.1 |
| | XMLList | children | 9 | | Yes | | 4.1 |
| | XMLList | comments | 9 | | Yes | | 4.1 |
| | XMLList | contains | 9 | | Yes | | 4.1 |
| | XMLList | copy | 9 | | Yes | | 4.1 |
| | XMLList | descendants | 9 | | Yes | | 4.1 |
| | XMLList | elements | 9 | | Yes | | 4.1 |
| | XMLList | hasComplexContent | 9 | | Yes | | 4.1 |
| | XMLList | hasOwnProperty | 9 | | Yes | | 4.1 |
| | XMLList | hasSimpleContent | 9 | | Yes | | 4.1 |
| | XMLList | length | 9 | | Yes | | 4.1 |
| | XMLList | normalize | 9 | | Yes | | 4.1 |
| | XMLList | parent | 9 | | Yes | | 4.0 |

| Package | Class | Name | SWF Version | Deprecated | Supported | Comment | GFx |
|---------|-------|------|-------------|------------|-----------|---------|-----|
| | XMLList | processingInstructions | 9 | | Yes | | 4.1 |
| | XMLList | propertyIsEnumerable | 9 | | Yes | | 4.1 |
| | XMLList | text | 9 | | Yes | | 4.1 |
| | XMLList | toString | 9 | | Yes | | 4.1 |
| | XMLList | toXMLString | 9 | | Yes | | 4.1 |
| | XMLList | valueOf | 9 | | Yes | | 4.1 |

**Library Classes**

| Package | Class | Name | SWF Version | Deprecated | Supported | Comment | GFx |
|---------|-------|------|-------------|------------|-----------|---------|-----|
| **flash.accessibility** | **Accessibility** | | **9** | | **No** | | **TBD** |
| | Accessibility | active | 9 | | No | | TBD |
| | Accessibility | updateProperties | 9 | | No | | TBD |
| | | | | | | | |
| **flash.accessibility** | **AccessibilityImplementation** | | **-** | | **No** | | **TBD** |
| | AccessibilityImplementation | stub | | | No | | TBD |
| | AccessibilityImplementation | accSelect | | | No | | TBD |
| | AccessibilityImplementation | accSelect | | | No | | TBD |
| | AccessibilityImplementation | accSelect | | | No | | TBD |
| | AccessibilityImplementation | get_accName | | | No | | TBD |
| | AccessibilityImplementation | get_accState | | | No | | TBD |
| | | | | | | | |
| **flash.accessibility** | **AccessibilityProperties** | | **9** | | **No** | | **GFx 4.3** |
| | AccessibilityProperties | description | 9 | | No | | 4.3 |
| | AccessibilityProperties | forceSimple | 9 | | No | | 4.3 |
| | AccessibilityProperties | name | 9 | | No | | 4.3 |
| | AccessibilityProperties | noAutoLabeling | 9 | | No | | 4.3 |
| | AccessibilityProperties | shortcut | 9 | | No | | 4.3 |
| | AccessibilityProperties | silent | 9 | | No | | 4.3 |
| | AccessibilityProperties | AccessibilityProperties | 9 | | No | | 4.3 |
| | | | | | | | |
| **flash.desktop** | **Clipboard** | | **10** | | **No** | | **GFx 4.3** |
| | Clipboard | formats | 10 | | No | | 4.3 |
| | Clipboard | generalClipboard | 10 | | No | | 4.3 |
| | Clipboard | Clipboard | 10 | | No | | 4.3 |
| | Clipboard | clear | 10 | | No | | 4.3 |
| | Clipboard | clearData | 10 | | No | | 4.3 |
| | Clipboard | getData | 10 | | No | | 4.3 |
| | Clipboard | hasFormat | 10 | | No | | 4.3 |
| | Clipboard | setData | 10 | | No | | 4.3 |
| | Clipboard | setDataHandler | 10 | | No | | 4.3 |

| flash.desktop | ClipboardFormats | | | **10** | | **No** | | **GFx 4.3** |
|---|---|---|---|---|---|---|---|---|
| | ClipboardFormats | HTML_FORMAT | | 10 | | No | | 4.3 |
| | ClipboardFormats | RICH_TEXT_FORMAT | | 10 | | No | | 4.3 |
| | ClipboardFormats | TEXT_FORMAT | | 10 | | No | | 4.3 |
| | | | | | | | | |
| **flash.desktop** | **ClipboardTransferMode** | | | **10** | | **No** | | **GFx 4.3** |
| | ClipboardTransferMode | CLONE_ONLY | | 10 | | No | | 4.3 |
| | ClipboardTransferMode | CLONE_PREFERRED | | 10 | | No | | 4.3 |
| | ClipboardTransferMode | ORIGINAL_ONLY | | 10 | | No | | 4.3 |
| | ClipboardTransferMode | ORIGINAL_PREFERRED | | 10 | | No | | 4.3 |
| | | | | | | | | |
| **flash.desktop** | **InvokeEventReason** | | | **9** | | **No** | | **TBD** |
| | InvokeEventReason | | | 9 | | No | | TBD |
| | | | | | | | | |
| **flash.display** | **ActionScriptVersion** | | | **9** | | **Yes** | | **GFx 4.0** |
| | ActionScriptVersion | ACTIONSCRIPT2 | | 9 | | Yes | | 4.0 |
| | ActionScriptVersion | ACTIONSCRIPT3 | | 9 | | Yes | | 4.0 |
| | | | | | | | | |
| **flash.display** | **AVM1Movie** | | | **9** | | **No** | | **TBD** |
| | | | | | | | | |
| **flash.display** | **Bitmap** | | | **9** | | Yes | | **GFx 4.0** |
| | Bitmap | bitmapData | | 9 | | Yes | | 4.0 |
| | Bitmap | pixelSnapping | | 9 | | Yes | | 4.0 |
| | Bitmap | smoothing | | 9 | | Yes | | 4.0 |
| | Bitmap | Bitmap | | 9 | | Yes | | 4.0 |
| | | | | | | | | |
| **flash.display** | **BitmapData** | | | **9** | | **Yes** | | **GFx 4.1** |
| | BitmapData | height | | 9 | | Yes | | 4.0 |
| | BitmapData | rect | | 9 | | Yes | | 4.1 |
| | BitmapData | transparent | | 9 | | Yes | | 4.1 |
| | BitmapData | width | | 9 | | Yes | | 4.1 |
| | BitmapData | BitmapData | | 9 | | Yes | | 4.1 |
| | BitmapData | applyFilter | | 9 | | Yes | | 4.1 |
| | BitmapData | clone | | 9 | | Yes | | 4.1 |
| | BitmapData | colorTransform | | 9 | | Yes | | 4.1 |
| | BitmapData | compare | | 9 | | Yes | | 4.1 |
| | BitmapData | copyChannel | | 9 | | Yes | | 4.1 |
| | BitmapData | copyPixels | | 9 | | Yes | | 4.1 |
| | BitmapData | dispose | | 9 | | Yes | | 4.1 |
| | BitmapData | draw | | 9 | | Yes | | 4.1 |
| | BitmapData | fillRect | | 9 | | Yes | | 4.1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | BitmapData | floodFill | 9 | | Yes | 4.1 |
| | BitmapData | generateFilterRect | 9 | | Yes | 4.1 |
| | BitmapData | getColorBoundsRect | 9 | | Yes | 4.1 |
| | BitmapData | getPixel | 9 | | Yes | 4.1 |
| | BitmapData | getPixel32 | 9 | | Yes | 4.1 |
| | BitmapData | getPixels | 9 | | Yes | 4.1 |
| | BitmapData | getVector | 10 | | Yes | 4.1 |
| | BitmapData | histogram | 10 | | Yes | 4.1 |
| | BitmapData | hitTest | 9 | | Yes | 4.1 |
| | BitmapData | lock | 9 | | Yes | 4.1 |
| | BitmapData | merge | 9 | | Yes | 4.1 |
| | BitmapData | noise | 9 | | Yes | 4.1 |
| | BitmapData | paletteMap | 9 | | Yes | 4.1 |
| | BitmapData | perlinNoise | 9 | | Yes | 4.1 |
| | BitmapData | pixelDissolve | 9 | | Yes | 4.1 |
| | BitmapData | scroll | 9 | | Yes | 4.1 |
| | BitmapData | setPixel | 9 | | Yes | 4.1 |
| | BitmapData | setPixel32 | 9 | | Yes | 4.1 |
| | BitmapData | setPixels | 9 | | Yes | 4.1 |
| | BitmapData | setVector | 10 | | Yes | 4.1 |
| | BitmapData | threshold | 9 | | Yes | 4.1 |
| | BitmapData | unlock | 9 | | No | TBD |
| | | | | | | |
| **flash.display** | **BitmapDataChannel** | | **9** | | Yes | **GFx 4.1** |
| | BitmapDataChannel | ALPHA | 9 | | Yes | 4.1 |
| | BitmapDataChannel | BLUE | 9 | | Yes | 4.1 |
| | BitmapDataChannel | GREEN | 9 | | Yes | 4.1 |
| | BitmapDataChannel | RED | 9 | | Yes | 4.1 |
| | | | | | | |
| **flash.display** | **BlendMode** | | **9** | | **Partial** | **GFx 4.0** |
| | BlendMode | ADD | 9 | | Yes | 4.0 |
| | BlendMode | ALPHA | 9 | | Partial | Unsupported by Renderer | 4.0 |
| | BlendMode | DARKEN | 9 | | Partial | Unsupported by Renderer | 4.0 |
| | BlendMode | DIFFERENCE | 9 | | Partial | Unsupported by Renderer | 4.0 |
| | BlendMode | ERASE | 9 | | Partial | Unsupported by Renderer | 4.0 |
| | BlendMode | HARDLIGHT | 9 | | Partial | Unsupported by Renderer | 4.0 |
| | BlendMode | INVERT | 9 | | Yes | 4.3 |
| | BlendMode | LAYER | 9 | | Partial | Unsupported by Renderer | 4.0 |
| | BlendMode | LIGHTEN | 9 | | Partial | Unsupported by Renderer | 4.0 |
| | BlendMode | MULTIPLY | 9 | | Yes | 4.0 |
| | BlendMode | NORMAL | 9 | | Yes | 4.0 |
| | BlendMode | OVERLAY | 9 | | Partial | Unsupported by Renderer | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BlendMode | SCREEN | 9 | | Yes | | 4.3 |
| | BlendMode | SHADER | 10 | | Partial | Unsupported by Renderer | 4.0 |
| | BlendMode | SUBTRACT | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **CapsStyle** | | **9** | | **Yes** | | **GFx 4.0** |
| | CapsStyle | NONE | 9 | | Yes | | 4.0 |
| | CapsStyle | ROUND | 9 | | Yes | | 4.0 |
| | CapsStyle | SQUARE | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **ColorCorrection** | | **10** | | **No** | | **TBD** |
| | ColorCorrection | DEFAULT | 10 | | No | | TBD |
| | ColorCorrection | OFF | 10 | | No | | TBD |
| | ColorCorrection | ON | 10 | | No | | TBD |
| | | | | | | | |
| **flash.display** | **ColorCorrectionSupport** | | **10** | | **No** | | **TBD** |
| | ColorCorrectionSupport | DEFAULT_OFF | 10 | | No | | TBD |
| | ColorCorrectionSupport | DEFAULT_ON | 10 | | No | | TBD |
| | ColorCorrectionSupport | UNSUPPORTED | 10 | | No | | TBD |
| | | | | | | | |
| **flash.display** | **DisplayObject** | | **9** | | **Partial** | | **GFx 4.0** |
| | DisplayObject | accessibilityProperties | 9 | | No | | TBD |
| | DisplayObject | alpha | 9 | | Yes | | 4.0 |
| | DisplayObject | blendMode | 9 | | Partial | Only subset of ops supported | 4.0 |
| | DisplayObject | blendShader | 10 | | No | | TBD |
| | DisplayObject | cacheAsBitmap | 9 | | Yes | | 4.2.21 |
| | DisplayObject | height | 9 | | Yes | | 4.0 |
| | DisplayObject | loaderInfo | 9 | | Partial | | 4.0 |
| | DisplayObject | mask | 9 | | Yes | | 4.0 |
| | DisplayObject | mouseX | 9 | | Yes | | 4.0 |
| | DisplayObject | mouseY | 9 | | Yes | | 4.0 |
| | DisplayObject | name | 9 | | Yes | | 4.0 |
| | DisplayObject | opaqueBackground | 9 | | No | | 4.3 |
| | DisplayObject | parent | 9 | | Yes | | 4.0 |
| | DisplayObject | root | 9 | | Yes | | 4.0 |
| | DisplayObject | rotation | 9 | | Yes | | 4.0 |
| | DisplayObject | rotationX | 10 | | Yes | | 4.0 |
| | DisplayObject | rotationY | 10 | | Yes | | 4.0 |
| | DisplayObject | rotationZ | 10 | | Yes | | 4.0 |
| | DisplayObject | scale9Grid | 9 | | Yes | | 4.0 |
| | DisplayObject | scaleX | 9 | | Yes | | 4.0 |
| | DisplayObject | scaleY | 9 | | Yes | | 4.0 |
| | DisplayObject | scaleZ | 10 | | Yes | | 4.0 |

| | DisplayObject | scrollRect | 9 | | Yes | | 4.0 |
|---|---|---|---|---|---|---|---|
| | DisplayObject | stage | 9 | | Yes | | 4.0 |
| | DisplayObject | transform | 9 | | Yes | | 4.0 |
| | DisplayObject | visible | 9 | | Yes | | 4.0 |
| | DisplayObject | width | 9 | | Yes | | 4.0 |
| | DisplayObject | x | 9 | | Yes | | 4.0 |
| | DisplayObject | y | 9 | | Yes | | 4.0 |
| | DisplayObject | z | 10 | | Yes | | 4.0 |
| | DisplayObject | getBounds | 9 | | Yes | | 4.0 |
| | DisplayObject | getRect | 9 | | Yes | | 4.0 |
| | DisplayObject | globalToLocal | 9 | | Yes | | 4.0 |
| | DisplayObject | globalToLocal3D | 10 | | Yes | | 4.0 |
| | DisplayObject | hitTestObject | 9 | | Yes | | 4.0 |
| | DisplayObject | hitTestPoint | 9 | | Yes | | 4.0 |
| | DisplayObject | local3DToGlobal | 10 | | Yes | | 4.0 |
| | DisplayObject | localToGlobal | 9 | | Yes | | 4.0 |
| | DisplayObject | added | 9 | Event | Yes | | 4.0 |
| | DisplayObject | addedToStage | 9 | Event | Yes | | 4.0 |
| | DisplayObject | enterFrame | 9 | Event | Yes | | 4.0 |
| | DisplayObject | exitFrame | 10 | Event | Yes | | 4.0 |
| | DisplayObject | frameConstructed | 10 | Event | Yes | | 4.0 |
| | DisplayObject | removed | 9 | Event | Yes | | 4.0 |
| | DisplayObject | removedFromStage | 9 | Event | Yes | | 4.0 |
| | DisplayObject | render | 9 | Event | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **DisplayObjectContainer** | | **9** | | **Partial** | | **GFx 4.0** |
| | DisplayObjectContainer | mouseChildren | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | numChildren | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | tabChildren | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | textSnapshot | 9 | | Yes | | 4.1 |
| | DisplayObjectContainer | DisplayObjectContainer | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | addChild | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | addChildAt | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | areInaccessibleObjectsUnderPoint | 9 | | No | | TBD |
| | DisplayObjectContainer | contains | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | getChildAt | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | getChildByName | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | getChildIndex | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | getObjectsUnderPoint | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | removeChild | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | removeChildAt | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | removeChildren | 11 | | Yes | | 4.1.19 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | DisplayObjectContainer | setChildIndex | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | swapChildren | 9 | | Yes | | 4.0 |
| | DisplayObjectContainer | swapChildrenAt | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **FrameLabel** | | **9** | | **Yes** | | **GFx 4.0** |
| | FrameLabel | frame | 9 | | Yes | | 4.0 |
| | FrameLabel | name | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **GradientType** | | **9** | | **Yes** | | **GFx 4.0** |
| | GradientType | LINEAR | 9 | | Yes | | 4.0 |
| | GradientType | RADIAL | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **Graphics** | | **9** | | **Partial** | | **GFx 4.0** |
| | Graphics | beginBitmapFill | 9 | | Yes | | 4.0 |
| | Graphics | beginFill | 9 | | Yes | | 4.0 |
| | Graphics | beginGradientFill | 9 | | Yes | | 4.0 |
| | Graphics | beginShaderFill | 10 | | No | | TBD |
| | Graphics | clear | 9 | | Yes | | 4.0 |
| | Graphics | copyFrom | 10 | | No | | 4.0 |
| | Graphics | curveTo | 9 | | Yes | | 4.0 |
| | Graphics | drawCircle | 9 | | Yes | | 4.0 |
| | Graphics | drawEllipse | 9 | | Yes | | 4.0 |
| | Graphics | drawGraphicsData | 10 | | No | | TBD |
| | Graphics | drawPath | 10 | | No | | 4.3 |
| | Graphics | drawRect | 9 | | Yes | | 4.0 |
| | Graphics | drawRoundRect | 9 | | Yes | | 4.0 |
| | Graphics | drawRoundRectComplex | 9 | | Yes | | 4.0.12 |
| | Graphics | drawTriangles | 10 | | No | | TBD |
| | Graphics | endFill | 9 | | Yes | | 4.0 |
| | Graphics | lineBitmapStyle | 10 | | No | | TBD |
| | Graphics | lineGradientStyle | 9 | | Yes | | 4.0 |
| | Graphics | lineShaderStyle | 10 | | No | | TBD |
| | Graphics | lineStyle | 9 | | Yes | | 4.0 |
| | Graphics | lineTo | 9 | | Yes | | 4.0 |
| | Graphics | moveTo | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **GraphicsBitmapFill** | | **9** | | **Partial** | | **TBD** |
| | GraphicsBitmapFill | bitmapData | 10 | | No | | TBD |
| | GraphicsBitmapFill | matrix | 10 | | No | | TBD |
| | GraphicsBitmapFill | repeat | 10 | | No | | TBD |
| | GraphicsBitmapFill | smooth | 10 | | No | | TBD |
| | GraphicsBitmapFill | GraphicsBitmapFill | 10 | | No | | TBD |

| flash.display | GraphicsEndFill | | 10 | | No | | TBD |
|---|---|---|---|---|---|---|---|
| | GraphicsEndFill | GraphicsEndFill | 10 | | No | | TBD |
| | | | | | | | |
| flash.display | GraphicsGradientFill | | 10 | | Partial | | TBD |
| | GraphicsGradientFill | alphas | 10 | | No | | TBD |
| | GraphicsGradientFill | colors | 10 | | No | | TBD |
| | GraphicsGradientFill | focalPointRatio | 10 | | No | | TBD |
| | GraphicsGradientFill | interpolationMethod | 10 | | No | | TBD |
| | GraphicsGradientFill | matrix | 10 | | No | | TBD |
| | GraphicsGradientFill | ratios | 10 | | No | | TBD |
| | GraphicsGradientFill | spreadMethod | 10 | | No | | TBD |
| | GraphicsGradientFill | type | 10 | | No | | TBD |
| | GraphicsGradientFill | GraphicsGradientFill | 10 | | No | | TBD |
| | | | | | | | |
| flash.display | GraphicsPath | | 10 | | No | | GFx 4.3 |
| | GraphicsPath | commands | 10 | | No | | 4.3 |
| | GraphicsPath | data | 10 | | No | | 4.3 |
| | GraphicsPath | winding | 10 | | No | | 4.3 |
| | GraphicsPath | GraphicsPath | 10 | | No | | 4.3 |
| | GraphicsPath | curveTo | 10 | | No | | 4.3 |
| | GraphicsPath | lineTo | 10 | | No | | 4.3 |
| | GraphicsPath | moveTo | 10 | | No | | 4.3 |
| | GraphicsPath | wideLineTo | 10 | | No | | 4.3 |
| | GraphicsPath | wideMoveTo | 10 | | No | | 4.3 |
| | | | | | | | |
| flash.display | GraphicsPathCommand | | 10 | | No | | GFx 4.3 |
| | GraphicsPathCommand | CURVE_TO | 10 | | No | | 4.3 |
| | GraphicsPathCommand | LINE_TO | 10 | | No | | 4.3 |
| | GraphicsPathCommand | MOVE_TO | 10 | | No | | 4.3 |
| | GraphicsPathCommand | NO_OP | 10 | | No | | 4.3 |
| | GraphicsPathCommand | WIDE_LINE_TO | 10 | | No | | 4.3 |
| | GraphicsPathCommand | WIDE_MOVE_TO | 10 | | No | | 4.3 |
| | | | | | | | |
| flash.display | GraphicsPathWinding | | 10 | | No | | GFx 4.3 |
| | GraphicsPathWinding | EVEN_ODD | 10 | | No | | 4.3 |
| | GraphicsPathWinding | NON_ZERO | 10 | | No | | 4.3 |
| | | | | | | | |
| flash.display | GraphicsShaderFill | | 10 | | No | | TBD |
| | GraphicsShaderFill | matrix | 10 | | No | | TBD |
| | GraphicsShaderFill | shader | 10 | | No | | TBD |
| | GraphicsShaderFill | GraphicsShaderFill | 10 | | No | | TBD |

| flash.display | GraphicsSolidFill | | 10 | | No | | TBD |
|---|---|---|---|---|---|---|---|
| | GraphicsSolidFill | matrix | 10 | | No | | TBD |
| | GraphicsSolidFill | shader | 10 | | No | | TBD |
| | GraphicsSolidFill | GraphicsSolidFill | 10 | | No | | TBD |
| | | | | | | | |
| flash.display | GraphicsStroke | | 10 | | No | | TBD |
| | GraphicsStroke | caps | 10 | | No | | TBD |
| | GraphicsStroke | fill | 10 | | No | | TBD |
| | GraphicsStroke | joints | 10 | | No | | TBD |
| | GraphicsStroke | miterLimit | 10 | | No | | TBD |
| | GraphicsStroke | pixelHinting | 10 | | No | | TBD |
| | GraphicsStroke | scaleMode | 10 | | No | | TBD |
| | GraphicsStroke | thickness | 10 | | No | | TBD |
| | GraphicsStroke | GraphicsStroke | 10 | | No | | TBD |
| | | | | | | | |
| flash.display | GraphicsTrianglePath | | 10 | | No | | TBD |
| | GraphicsTrianglePath | culling | 10 | | No | | TBD |
| | GraphicsTrianglePath | indices | 10 | | No | | TBD |
| | GraphicsTrianglePath | uvtData | 10 | | No | | TBD |
| | GraphicsTrianglePath | vertices | 10 | | No | | TBD |
| | GraphicsTrianglePath | GraphicsTrianglePath | 10 | | No | | TBD |
| | | | | | | | |
| flash.display | IBitmapDrawable | | 9 | | Yes | Interface methods have empty bodies | GFx 4.0 |
| | | | | | | | |
| flash.display | IGraphicsData | | 10 | | Yes | Interface methods have empty bodies | GFx 4.0 |
| | | | | | | | |
| flash.display | IGraphicsFill | | 10 | | Yes | Interface methods have empty bodies | GFx 4.0 |
| | | | | | | | |
| flash.display | IGraphicsPath | | 10 | | Yes | Interface methods have empty bodies | GFx 4.0 |
| | | | | | | | |
| flash.display | IGraphicsStroke | | 10 | | Yes | Interface methods have empty bodies | GFx 4.0 |
| | | | | | | | |
| flash.display | InteractiveObject | | 9 | | Partial | | GFx 4.0 |
| | InteractiveObject | contextMenu | 9 | | Partial | | 4.0 |
| | InteractiveObject | doubleClickEnabled | 9 | | Yes | | 4.0 |
| | InteractiveObject | focusRect | 9 | | Yes | | 4.0 |
| | InteractiveObject | mouseEnabled | 9 | | Yes | | 4.0 |

| | InteractiveObject | tabEnabled | 9 | | Yes | | 4.0 |
|---|---|---|---|---|---|---|---|
| | InteractiveObject | tabIndex | 9 | | Yes | | 4.0 |
| | InteractiveObject | InteractiveObject | 9 | | Yes | | 4.0 |
| | InteractiveObject | clear | 10 | Event | No | | TBD |
| | InteractiveObject | click | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | copy | 10 | Event | No | | TBD |
| | InteractiveObject | cut | 10 | Event | No | | TBD |
| | InteractiveObject | doubleClick | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | focusIn | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | focusOut | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | keyDown | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | keyFocusChange | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | keyUp | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | mouseDown | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | mouseFocusChange | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | mouseMove | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | mouseOut | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | mouseOver | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | mouseUp | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | mouseWheel | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | paste | 10 | Event | No | | TBD |
| | InteractiveObject | rollOut | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | rollOver | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | selectAll | 10 | Event | No | | TBD |
| | InteractiveObject | tabChildrenChange | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | tabEnabledChange | 9 | Event | Yes | | 4.0 |
| | InteractiveObject | tabIndexChange | 9 | Event | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **InterpolationMethod** | | **9** | | **Yes** | | **GFx 4.0** |
| | InterpolationMethod | LINEAR_RGB | 9 | | Yes | | 4.0 |
| | InterpolationMethod | RGB | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **JointStyle** | | **9** | | **Yes** | | **GFx 4.0** |
| | JointStyle | BEVEL | 9 | | Yes | | 4.0 |
| | JointStyle | MITER | 9 | | Yes | | 4.0 |
| | JointStyle | ROUND | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **LineScaleMode** | | **9** | | **Yes** | | **GFx 4.0** |
| | LineScaleMode | HORIZONTAL | 9 | | Yes | | 4.0 |
| | LineScaleMode | NONE | 9 | | Yes | | 4.0 |
| | LineScaleMode | NORMAL | 9 | | Yes | | 4.0 |
| | LineScaleMode | VERTICAL | 9 | | Yes | | 4.0 |

| flash.display | **Loader** | | **9** | | **Yes** | | **GFx 4.0** |
|---|---|---|---|---|---|---|---|
| | Loader | content | 9 | | Yes | | 4.0 |
| | Loader | contentLoaderInfo | 9 | | Yes | | 4.0 |
| | Loader | close | 9 | | Yes | | 4.0 |
| | Loader | load | 9 | | Yes | | 4.0 |
| | Loader | loadBytes | 9 | | Yes | | 4.0 |
| | Loader | unload | 9 | | Yes | | 4.0 |
| | Loader | unloadAndStop | 10 | | Yes | | 4.0 |
| | | | | | | | |
| flash.display | **LoaderInfo** | | **9** | | **Partial** | | **GFx 4.0** |
| | LoaderInfo | actionScriptVersion | 9 | | Yes | | 4.0 |
| | LoaderInfo | applicationDomain | 9 | | Yes | | 4.2 |
| | LoaderInfo | bytes | 9 | | Yes | | 4.0 |
| | LoaderInfo | bytesLoaded | 9 | | Yes | | 4.0 |
| | LoaderInfo | bytesTotal | 9 | | Yes | | 4.0 |
| | LoaderInfo | childAllowsParent | 9 | | No | | TBD |
| | LoaderInfo | content | 9 | | Yes | | 4.0 |
| | LoaderInfo | contentType | 9 | | Yes | | 4.0 |
| | LoaderInfo | frameRate | 9 | | Yes | | 4.0 |
| | LoaderInfo | height | 9 | | Yes | | 4.0 |
| | LoaderInfo | loader | 9 | | Yes | | 4.0 |
| | LoaderInfo | loaderURL | 9 | | Yes | | 4.0 |
| | LoaderInfo | parameters | 9 | | No | | TBD |
| | LoaderInfo | parentAllowsChild | 9 | | No | | TBD |
| | LoaderInfo | sameDomain | 9 | | No | | TBD |
| | LoaderInfo | sharedEvents | 9 | | No | | TBD |
| | LoaderInfo | swfVersion | 9 | | Yes | | 4.0 |
| | LoaderInfo | url | 9 | | Yes | | 4.0 |
| | LoaderInfo | width | 9 | | Yes | | 4.0 |
| | LoaderInfo | getLoaderInfoByDefinition | 9 | | No | | TBD |
| | LoaderInfo | complete | 9 | Event | Yes | | 4.0 |
| | LoaderInfo | httpStatus | 9 | Event | No | | TBD |
| | LoaderInfo | init | 9 | Event | Yes | | 4.0 |
| | LoaderInfo | ioError | 9 | Event | Yes | | 4.0 |
| | LoaderInfo | open | 9 | Event | Yes | | 4.0 |
| | LoaderInfo | progress | 9 | Event | Yes | | 4.0 |
| | LoaderInfo | unload | 9 | Event | Yes | | 4.0 |
| | | | | | | | |
| flash.display | **MorphShape** | | **9** | | **Yes** | | **GFx 4.0** |
| | | | | | | | |
| flash.display | **MovieClip** | | **9** | | **Yes** | | **GFx 4.0** |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | MovieClip | addFrameScript | 9 | Hidden | Yes | | 4.0 |
| | | currentFrame | 9 | | Yes | | 4.0 |
| | MovieClip | currentFrameLabel | 10 | | Yes | | 4.0 |
| | MovieClip | currentLabel | 9 | | Yes | | 4.0 |
| | MovieClip | currentLabels | 9 | | Yes | | 4.0 |
| | MovieClip | currentScene | 9 | | Yes | | 4.0 |
| | MovieClip | enabled | 9 | | Yes | | 4.0 |
| | MovieClip | framesLoaded | 9 | | Yes | | 4.0 |
| | MovieClip | scenes | 9 | | Yes | | 4.0 |
| | MovieClip | totalFrames | 9 | | Yes | | 4.0 |
| | MovieClip | trackAsMenu | 9 | | Yes | | 4.0 |
| | MovieClip | MovieClip | 9 | | Yes | | 4.0 |
| | MovieClip | gotoAndPlay | 9 | | Yes | | 4.0 |
| | MovieClip | gotoAndStop | 9 | | Yes | | 4.0 |
| | MovieClip | nextFrame | 9 | | Yes | | 4.0 |
| | MovieClip | nextScene | 9 | | Yes | | 4.0 |
| | MovieClip | play | 9 | | Yes | | 4.0 |
| | MovieClip | prevFrame | 9 | | Yes | | 4.0 |
| | MovieClip | prevScene | 9 | | Yes | | 4.0 |
| | MovieClip | stop | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **PixelSnapping** | | **9** | | **Yes** | | **GFx 4.0** |
| | PixelSnapping | ALWAYS | 9 | | Yes | | 4.0 |
| | PixelSnapping | AUTO | 9 | | Yes | | 4.0 |
| | PixelSnapping | NEVER | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **Scene** | | **9** | | **Yes** | | **GFx 4.1** |
| | Scene | labels | 9 | | Yes | | 4.1 |
| | Scene | name | 9 | | Yes | | 4.1 |
| | Scene | numFrames | 9 | | Yes | | 4.1 |
| | | | | | | | |
| **flash.display** | **Shader** | | **10** | | **No** | | **TBD** |
| | Shader | byteCode | 10 | | No | | TBD |
| | Shader | data | 10 | | No | | TBD |
| | Shader | precisionHint | 10 | | No | | TBD |
| | Shader | Shader | 10 | | No | | TBD |
| | | | | | | | |
| **flash.display** | **ShaderData** | | **10** | | **No** | | **TBD** |
| | ShaderData | ShaderData | 10 | | No | | TBD |
| | | | | | | | |
| **flash.display** | **ShaderInput** | | **10** | | **No** | | **TBD** |
| | ShaderInput | channels | 10 | | No | | TBD |

| | ShaderInput | height | 10 | | No | | TBD |
|---|---|---|---|---|---|---|---|
| | ShaderInput | index | 10 | | No | | TBD |
| | ShaderInput | input | 10 | | No | | TBD |
| | ShaderInput | width | 10 | | No | | TBD |
| | ShaderInput | ShaderInput | 10 | | No | | TBD |
| | | | | | | | |
| **flash.display** | **ShaderJob** | | **10** | | **No** | | **TBD** |
| | ShaderJob | height | 10 | | No | | TBD |
| | ShaderJob | progress | 10 | | No | | TBD |
| | ShaderJob | shader | 10 | | No | | TBD |
| | ShaderJob | target | 10 | | No | | TBD |
| | ShaderJob | width | 10 | | No | | TBD |
| | ShaderJob | ShaderJob | 10 | | No | | TBD |
| | ShaderJob | cancel | 10 | | No | | TBD |
| | ShaderJob | start | 10 | | No | | TBD |
| | ShaderJob | complete | 10 | | No | | TBD |
| | | | | | | | |
| **flash.display** | **ShaderParameter** | | **10** | | **No** | | **TBD** |
| | ShaderParameter | index | 10 | | No | | TBD |
| | ShaderParameter | type | 10 | | No | | TBD |
| | ShaderParameter | value | 10 | | No | | TBD |
| | ShaderParameter | ShaderParameter | 10 | | No | | TBD |
| | | | | | | | |
| **flash.display** | **ShaderParameterType** | | **10** | | **No** | | **TBD** |
| | ShaderParameterType | BOOL | 10 | | No | | TBD |
| | ShaderParameterType | BOOL2 | 10 | | No | | TBD |
| | ShaderParameterType | BOOL3 | 10 | | No | | TBD |
| | ShaderParameterType | BOOL4 | 10 | | No | | TBD |
| | ShaderParameterType | FLOAT | 10 | | No | | TBD |
| | ShaderParameterType | FLOAT2 | 10 | | No | | TBD |
| | ShaderParameterType | FLOAT3 | 10 | | No | | TBD |
| | ShaderParameterType | FLOAT4 | 10 | | No | | TBD |
| | ShaderParameterType | INT | 10 | | No | | TBD |
| | ShaderParameterType | INT2 | 10 | | No | | TBD |
| | ShaderParameterType | INT3 | 10 | | No | | TBD |
| | ShaderParameterType | INT4 | 10 | | No | | TBD |
| | ShaderParameterType | MATRIX2X2 | 10 | | No | | TBD |
| | ShaderParameterType | MATRIX3X3 | 10 | | No | | TBD |
| | ShaderParameterType | MATRIX4X4 | 10 | | No | | TBD |
| | | | | | | | |
| **flash.display** | **ShaderPrecision** | | **10** | | **No** | | **TBD** |
| | ShaderPrecision | FAST | 10 | | No | | TBD |

| | ShaderPrecision | FULL | 10 | | No | | TBD |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| **flash.display** | **Shape** | | **9** | | **Yes** | | **GFx 4.0** |
| | Shape | graphics | 9 | | Yes | | 4.0 |
| | Shape | Shape | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **SimpleButton** | | **9** | | **Partial** | | **GFx 4.0** |
| | SimpleButton | downState | 9 | | Yes | | 4.0 |
| | SimpleButton | enabled | 9 | | Yes | | 4.0 |
| | SimpleButton | hitTestState | 9 | | Yes | | 4.0 |
| | SimpleButton | overState | 9 | | Yes | | 4.0 |
| | SimpleButton | soundTransform | 9 | | No | | TBD |
| | SimpleButton | trackAsMenu | 9 | | Yes | | 4.0 |
| | SimpleButton | upState | 9 | | Yes | | 4.0 |
| | SimpleButton | useHandCursor | 9 | | Yes | | 4.0 |
| | SimpleButton | SimpleButton | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **SpreadMethod** | | **9** | | **Yes** | | **GFx 4.1** |
| | SpreadMethod | PAD | 9 | | Yes | | 4.1 |
| | SpreadMethod | REFLECT | 9 | | Yes | | 4.1 |
| | SpreadMethod | REPEAT | 9 | | Yes | | 4.1 |
| | | | | | | | |
| **flash.display** | **Sprite** | | **9** | | **Partial** | | **GFx 4.0** |
| | Sprite | buttonMode | 9 | | Yes | | 4.0 |
| | Sprite | dropTarget | 9 | | Yes | | 4.0 |
| | Sprite | graphics | 9 | | Yes | | 4.0 |
| | Sprite | hitArea | 9 | | Yes | | 4.0 |
| | Sprite | soundTransform | 9 | | No | | TBD |
| | Sprite | useHandCursor | 9 | | Yes | | 4.0 |
| | Sprite | Sprite | 9 | | Yes | | 4.0 |
| | Sprite | startDrag | 9 | | Yes | | 4.0 |
| | Sprite | stopDrag | 9 | | Yes | | 4.0 |
| | Sprite | startTouchDrag | 10 | | Yes | | 4.1.19 |
| | Sprite | stopTouchDrag | 10 | | Yes | | 4.1.19 |
| | | | | | | | |
| **flash.display** | **Stage** | | **9** | | **Partial** | | **GFx 4.0** |
| | Stage | align | 9 | | Yes | | 4.0 |
| | Stage | autoOrients | | | Yes | | 4.0 |
| | Stage | colorCorrection | 10 | | No | | TBD |
| | Stage | colorCorrectionSupport | 10 | | No | | TBD |
| | Stage | deviceOrientation | | | Yes | | 4.0 |
| | Stage | displayState | 9 | | No | | TBD |

| | Stage | focus | 9 | | Yes | | 4.0 |
|---|---|---|---|---|---|---|---|
| | Stage | frameRate | 9 | | **Partial** | Read Only | 4.0 |
| | Stage | fullScreenHeight | 9 | | No | | TBD |
| | Stage | fullScreenSourceRect | 9 | | No | | TBD |
| | Stage | height | 9 | | Yes | | 4.0 |
| | Stage | mouseChildren | 9 | | Yes | | 4.0 |
| | Stage | nativeWindow | 9 | | No | | TBD |
| | Stage | numChildren | 9 | | Yes | | 4.0 |
| | Stage | orientation | | | Yes | | 4.0 |
| | Stage | quality | 9 | | No | | TBD |
| | Stage | scaleMode | 9 | | Yes | | 4.0 |
| | Stage | showDefaultContextMenu | 9 | | No | | TBD |
| | Stage | stageFocusRect | 9 | | Yes | | 4.0 |
| | Stage | stageHeight | 9 | | Partial | Read Only | 4.0 |
| | Stage | stageWidth | 9 | | Partial | Read Only | 4.0 |
| | Stage | tabChildren | 9 | | No | | TBD |
| | Stage | textSnapshot | 9 | | No | | TBD |
| | Stage | width | 9 | | Yes | | 4.0 |
| | Stage | wmodeGPU | 10 | | No | | TBD |
| | Stage | addChild | 9 | | Yes | | 4.0 |
| | Stage | addChildAt | 9 | | Yes | | 4.0 |
| | Stage | addEventListener | 9 | | Yes | | 4.0 |
| | Stage | dispatchEvent | 9 | | Yes | | 4.0 |
| | Stage | hasEventListener | 9 | | Yes | | 4.0 |
| | Stage | invalidate | 9 | | Yes | | 4.0 |
| | Stage | isFocusInaccessible | 9 | | No | | TBD |
| | Stage | removeChildAt | 9 | | Yes | | 4.0 |
| | Stage | setChildIndex | 9 | | No | | TBD |
| | Stage | swapChildrenAt | 9 | | Yes | | 4.0 |
| | Stage | willTrigger | 9 | | Yes | | 4.0 |
| | Stage | fullScreen | 9 | Event | No | | TBD |
| | Stage | mouseLeave | 9 | Event | No | | TBD |
| | Stage | resize | 9 | Event | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **StageAlign** | | **9** | | **Yes** | | **GFx 4.0** |
| | StageAlign | BOTTOM | 9 | | Yes | | 4.0 |
| | StageAlign | BOTTOM_LEFT | 9 | | Yes | | 4.0 |
| | StageAlign | BOTTOM_RIGHT | 9 | | Yes | | 4.0 |
| | StageAlign | LEFT | 9 | | Yes | | 4.0 |
| | StageAlign | RIGHT | 9 | | Yes | | 4.0 |
| | StageAlign | TOP | 9 | | Yes | | 4.0 |
| | StageAlign | TOP_LEFT | 9 | | Yes | | 4.0 |

| | StageAlign | TOP_RIGHT | 9 | | Yes | | 4.0 |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| **flash.display** | **StageDisplayState** | | **9** | | **Partial** | | **GFx 4.0** |
| | StageDisplayState | FULL_SCREEN | 9 | | No | | TBD |
| | StageDisplayState | NORMAL | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **StageQuality** | | **9** | | **No** | | **GFx 4.0** |
| | StageQuality | BEST | 9 | | No | | TBD |
| | StageQuality | HIGH | 9 | | No | | TBD |
| | StageQuality | LOW | 9 | | No | | TBD |
| | StageQuality | MEDIUM | 9 | | No | | TBD |
| | | | | | | | |
| **flash.display** | **StageScaleMode** | | **9** | | **Yes** | | **GFx 4.0** |
| | StageScaleMode | EXACT_FIT | 9 | | Yes | | 4.0 |
| | StageScaleMode | NO_BORDER | 9 | | Yes | | 4.0 |
| | StageScaleMode | NO_SCALE | 9 | | Yes | | 4.0 |
| | StageScaleMode | SHOW_ALL | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **SWFVersion** | | **9** | | **Yes** | | **GFx 4.0** |
| | SWFVersion | FLASH1 | 9 | | Yes | | 4.0 |
| | SWFVersion | FLASH10 | 10 | | Yes | | 4.0 |
| | SWFVersion | FLASH2 | 9 | | Yes | | 4.0 |
| | SWFVersion | FLASH3 | 9 | | Yes | | 4.0 |
| | SWFVersion | FLASH4 | 9 | | Yes | | 4.0 |
| | SWFVersion | FLASH5 | 9 | | Yes | | 4.0 |
| | SWFVersion | FLASH6 | 9 | | Yes | | 4.0 |
| | SWFVersion | FLASH7 | 9 | | Yes | | 4.0 |
| | SWFVersion | FLASH8 | 9 | | Yes | | 4.0 |
| | SWFVersion | FLASH9 | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.display** | **TriangleCulling** | | **10** | | **No** | | **TBD** |
| | | | | | | | |
| **flash.errors** | **DRMManagerError** | | **-** | | **No** | | **TBD** |
| | | | | | | | |
| **flash.errors** | **EOFError** | | **9** | | **Yes** | | **GFx 4.0** |
| | EOFError | EOFError | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.errors** | **IllegalOperationError** | | **9** | | **Yes** | | **GFx 4.0** |
| | IllegalOperationError | IllegalOperationError | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.errors** | **InvalidSWFError** | | **9** | | **Yes** | | **GFx 4.0** |
| | InvalidSWFError | InvalidSWFError | 9 | | Yes | | 4.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **flash.errors** | **IOError** | | **9** | | **Yes** | **GFx 4.0** |
| | IOError | IOError | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.errors** | **MemoryError** | | **9** | | **Yes** | **GFx 4.0** |
| | MemoryError | MemoryError | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.errors** | **ScriptTimeoutError** | | **9** | | **Yes** | **GFx 4.0** |
| | ScriptTimeoutError | ScriptTimeoutError | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.errors** | **StackOverflowError** | | **9** | | **Yes** | **GFx 4.0** |
| | StackOverflowError | StackOverflowError | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.events** | **ActivityEvent** | | **9** | | **No** | **TBD** |
| | ActivityEvent | activating | 9 | | No | TBD |
| | ActivityEvent | ActivityEvent | 9 | | No | TBD |
| | ActivityEvent | clone | 9 | | No | TBD |
| | ActivityEvent | toString | 9 | | No | TBD |
| | ActivityEvent | ACTIVITY | 9 | | No | TBD |
| | | | | | | |
| **flash.events** | **AsyncErrorEvent** | | **9** | | **No** | **TBD** |
| | AsyncErrorEvent | error | 9 | | No | TBD |
| | AsyncErrorEvent | AsyncErrorEvent | 9 | | No | TBD |
| | AsyncErrorEvent | clone | 9 | | No | TBD |
| | AsyncErrorEvent | toString | 9 | | No | TBD |
| | AsyncErrorEvent | ASYNC_ERROR | 9 | | No | TBD |
| | | | | | | |
| **flash.events** | **ContextMenuEvent** | | **9** | | **No** | **TBD** |
| | ContextMenuEvent | contextMenuOwner | 9 | | No | TBD |
| | ContextMenuEvent | isMouseTargetInaccessible | 10 | | No | TBD |
| | ContextMenuEvent | mouseTarget | 9 | | No | TBD |
| | ContextMenuEvent | ContextMenuEvent | 9 | | No | TBD |
| | ContextMenuEvent | clone | 9 | | No | TBD |
| | ContextMenuEvent | toString | 9 | | No | TBD |
| | ContextMenuEvent | MENU_ITEM_SELECT | 9 | | No | TBD |
| | ContextMenuEvent | MENU_SELECT | 9 | | No | TBD |
| | | | | | | |
| **flash.events** | **DataEvent** | | **9** | | **No** | **TBD** |
| | DataEvent | data | 9 | | No | TBD |
| | DataEvent | DataEvent | 9 | | No | TBD |
| | DataEvent | clone | 9 | | No | TBD |
| | DataEvent | toString | 9 | | No | TBD |

| | | | | | | |
|---|---|---|---|---|---|---|
| | DataEvent | DATA | 9 | | No | TBD |
| | DataEvent | UPLOAD_COMPLETE_DATA | 9 | | No | TBD |
| | | | | | | |
| **flash.events** | **DRMAuthenticationCompleteEvent** | | - | | **No** | **TBD** |
| | | | | | | |
| **flash.events** | **DRMAuthenticationErrorEvent** | | - | | **No** | **TBD** |
| | | | | | | |
| **flash.events** | **ErrorEvent** | | **9** | | **No** | **GFx 4.3** |
| | ErrorEvent | ErrorEvent | 9 | | No | 4.3 |
| | ErrorEvent | clone | 9 | | No | 4.3 |
| | ErrorEvent | toString | 9 | | No | 4.3 |
| | ErrorEvent | ERROR | 9 | | No | 4.3 |
| | | | | | | |
| **flash.events** | **Event** | | **9** | | **Partial** | **GFx 4.0** |
| | Event | bubbles | 9 | | Yes | 4.0 |
| | Event | cancelable | 9 | | Yes | 4.0 |
| | Event | currentTarget | 9 | | Yes | 4.0 |
| | Event | eventPhase | 9 | | Yes | 4.0 |
| | Event | target | 9 | | Yes | 4.0 |
| | Event | type | 9 | | Yes | 4.0 |
| | Event | Event | 9 | | Yes | 4.0 |
| | Event | clone | 9 | | Yes | 4.0 |
| | Event | formatToString | 9 | | Yes | 4.0 |
| | Event | isDefaultPrevented | 9 | | Yes | 4.0 |
| | Event | preventDefault | 9 | | Yes | 4.0 |
| | Event | stopImmediatePropagation | 9 | | Yes | 4.0 |
| | Event | stopPropagation | 9 | | Yes | 4.0 |
| | Event | toString | 9 | | Yes | 4.0 |
| | Event | ACTIVATE | 9 | | Yes | 4.0 |
| | Event | ADDED | 9 | | Yes | 4.0 |
| | Event | ADDED_TO_STAGE | 9 | | Yes | 4.0 |
| | Event | CANCEL | 9 | | No | TBD |
| | Event | CHANGE | 9 | | Yes | 4.0 |
| | Event | CLEAR | 10 | | No | TBD |
| | Event | CLOSE | 9 | | Yes | 4.2 |
| | Event | COMPLETE | 9 | | Yes | 4.0 |
| | Event | CONNECT | 9 | | Yes | 4.2 |
| | Event | COPY | 10 | | No | TBD |
| | Event | CUT | 10 | | No | TBD |
| | Event | DEACTIVATE | 9 | | Yes | 4.0 |
| | Event | DISPLAYING | 9 | | No | TBD |
| | Event | ENTER_FRAME | 9 | | Yes | 4.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Event | EXIT_FRAME | 10 | | Yes | 4.0 |
| | Event | FRAME_CONSTRUCTED | 9 | | Yes | 4.0 |
| | Event | FULLSCREEN | 9 | | No | TBD |
| | Event | ID3 | 9 | | No | TBD |
| | Event | INIT | 9 | | Yes | 4.0 |
| | Event | MOUSE_LEAVE | 9 | | No | TBD |
| | Event | OPEN | 9 | | Yes | 4.0 |
| | Event | PASTE | 10 | | No | TBD |
| | Event | REMOVED | 9 | | Yes | 4.0 |
| | Event | REMOVED_FROM_STAGE | 9 | | Yes | 4.0 |
| | Event | RENDER | 9 | | Yes | 4.0 |
| | Event | RESIZE | 9 | | Yes | 4.0 |
| | Event | SCROLL | 9 | | No | TBD |
| | Event | SELECT | 9 | | No | TBD |
| | Event | SELECT_ALL | 10 | | No | TBD |
| | Event | SOUND_COMPLETE | 9 | | No | TBD |
| | Event | TAB_CHILDREN_CHANGE | 9 | | Yes | 4.0 |
| | Event | TAB_ENABLED_CHANGE | 9 | | Yes | 4.0 |
| | Event | TAB_INDEX_CHANGE | 9 | | Yes | 4.0 |
| | Event | UNLOAD | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.events** | **EventDispatcher** | | **9** | | **Yes** | **GFx 4.0** |
| | EventDispatcher | EventDispatcher | 9 | | Yes | 4.0 |
| | EventDispatcher | addEventListener | 9 | | Yes | 4.0 |
| | EventDispatcher | dispatchEvent | 9 | | Yes | 4.0 |
| | EventDispatcher | hasEventListener | 9 | | Yes | 4.0 |
| | EventDispatcher | removeEventListener | 9 | | Yes | 4.0 |
| | EventDispatcher | willTrigger | 9 | | Yes | 4.0 |
| | EventDispatcher | activate | 9 | Event | Yes | 4.0 |
| | EventDispatcher | deactivate | 9 | Event | Yes | 4.0 |
| | | | | | | |
| **flash.events** | **EventPhase** | | **9** | | **Yes** | **GFx 4.0** |
| | EventPhase | AT_TARGET | 9 | | Yes | 4.0 |
| | EventPhase | BUBBLING_PHASE | 9 | | Yes | 4.0 |
| | EventPhase | CAPTURING_PHASE | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.events** | **FocusEvent** | | **9** | | **Partial** | **GFx 4.0** |
| | FocusEvent | isRelatedObjectInaccessible | 10 | | No | TBD |
| | FocusEvent | keyCode | 9 | | Yes | 4.0 |
| | FocusEvent | relatedObject | 9 | | Yes | 4.0 |
| | FocusEvent | shiftKey | 9 | | Yes | 4.0 |
| | FocusEvent | FocusEvent | 9 | | Yes | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | FocusEvent | clone | 9 | | Yes | | 4.0 |
| | FocusEvent | toString | 9 | | Yes | | 4.0 |
| | FocusEvent | FOCUS_IN | 9 | | Yes | | 4.0 |
| | FocusEvent | FOCUS_OUT | 9 | | Yes | | 4.0 |
| | FocusEvent | KEY_FOCUS_CHANGE | 9 | | Yes | | 4.0 |
| | FocusEvent | MOUSE_FOCUS_CHANGE | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.events** | **FullScreenEvent** | | **9** | | **No** | | **TBD** |
| | FullScreenEvent | fullScreen | 9 | | No | | TBD |
| | FullScreenEvent | FullScreenEvent | 9 | | No | | TBD |
| | FullScreenEvent | clone | 9 | | No | | TBD |
| | FullScreenEvent | toString | 9 | | No | | TBD |
| | FullScreenEvent | FULL_SCREEN | 9 | | No | | TBD |
| | | | | | | | |
| **flash.events** | GestureEvent | | **10.1** | | **Partial** | | **GFx 4.0** |
| | GestureEvent | altKey | 10.1 | | Yes | | 4.0 |
| | GestureEvent | commandKey | 10.1 | | Yes | | 4.0 |
| | GestureEvent | controlKey | 10.1 | | Yes | | 4.0 |
| | GestureEvent | ctrlKey | 10.1 | | Yes | | 4.0 |
| | GestureEvent | localX | 10.1 | | Yes | | 4.0 |
| | GestureEvent | localY | 10.1 | | Yes | | 4.0 |
| | GestureEvent | phase | 10.1 | | Yes | | 4.0 |
| | GestureEvent | shiftKey | 10.1 | | Yes | | 4.0 |
| | GestureEvent | stageX | 10.1 | | Yes | | 4.0 |
| | GestureEvent | stageY | 10.1 | | Yes | | 4.0 |
| | GestureEvent | GestureEvent | 10.1 | | Yes | | 4.0 |
| | GestureEvent | clone | 10.1 | | Yes | | 4.0 |
| | GestureEvent | toString | 10.1 | | Yes | | 4.0 |
| | GestureEvent | updateAfterEvent | 10.1 | | No | | TBD |
| | GestureEvent | GESTURE_TWO_FINGER_TAP | 10.1 | Event | Yes | | 4.0 |
| | | | | | | | |
| **flash.events** | **HTTPStatusEvent** | | **9** | | **No** | | **TBD** |
| | HTTPStatusEvent | status | 9 | | No | | TBD |
| | HTTPStatusEvent | HTTPStatusEvent | 9 | | No | | TBD |
| | HTTPStatusEvent | clone | 9 | | No | | TBD |
| | HTTPStatusEvent | toString | 9 | | No | | TBD |
| | HTTPStatusEvent | HTTP_STATUS | 9 | | No | | TBD |
| | | | | | | | |
| **flash.events** | **IEventDispatcher** | | **9** | | **Yes** | **Interface methods have empty bodies** | **GFx 4.0** |
| | IEventDispatcher | addEventListener | 9 | | Yes | | 4.0 |
| | IEventDispatcher | dispatchEvent | 9 | | Yes | | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | IEventDispatcher | hasEventListener | 9 | | Yes | | 4.0 |
| | IEventDispatcher | removeEventListener | 9 | | Yes | | 4.0 |
| | IEventDispatcher | willTrigger | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.events** | **IMEEvent** | | **9** | | **No** | | **TBD** |
| | IMEEvent | IMEEvent | 9 | | No | | TBD |
| | IMEEvent | clone | 9 | | No | | TBD |
| | IMEEvent | toString | 9 | | No | | TBD |
| | IMEEvent | IME_COMPOSITION | 9 | | No | | TBD |
| | | | | | | | |
| **flash.events** | **IOErrorEvent** | | **9** | | **Partial** | | **GFx 4.2** |
| | IOErrorEvent | IOErrorEvent | 9 | | Partial | | 4.2 |
| | IOErrorEvent | clone | 9 | | Partial | | 4.2 |
| | IOErrorEvent | toString | 9 | | Partial | | 4.2 |
| | IOErrorEvent | IO_ERROR | 9 | | Partial | | 4.2 |
| | | | | | | | |
| **flash.events** | **KeyboardEvent** | | **9** | | **Partial** | | **GFx 4.0** |
| | KeyboardEvent | altKey | 9 | | Yes | | 4.0 |
| | KeyboardEvent | charCode | 9 | | Yes | | 4.0 |
| | KeyboardEvent | ctrlKey | 9 | | Yes | | 4.0 |
| | KeyboardEvent | keyCode | 9 | | Yes | | 4.0 |
| | KeyboardEvent | keyLocation | 9 | | Yes | | 4.0 |
| | KeyboardEvent | shiftKey | 9 | | Yes | | 4.0 |
| | KeyboardEvent | KeyboardEvent | 9 | | Yes | | 4.0 |
| | KeyboardEvent | clone | 9 | | Yes | | 4.0 |
| | KeyboardEvent | toString | 9 | | Yes | | 4.0 |
| | KeyboardEvent | updateAfterEvent | 9 | | No | | TBD |
| | KeyboardEvent | KEY_DOWN | 9 | | Yes | | 4.0 |
| | KeyboardEvent | KEY_UP | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.events** | **MouseEvent** | | **9** | | **Partial** | | **GFx 4.0** |
| | MouseEvent | altKey | 9 | | Yes | | 4.0 |
| | MouseEvent | buttonDown | 9 | | Yes | | 4.0 |
| | MouseEvent | ctrlKey | 9 | | Yes | | 4.0 |
| | MouseEvent | delta | 9 | | Yes | | 4.0 |
| | MouseEvent | isRelatedObjectInaccessible | 10 | | No | | TBD |
| | MouseEvent | localX | 9 | | Yes | | 4.0 |
| | MouseEvent | localY | 9 | | Yes | | 4.0 |
| | MouseEvent | relatedObject | 9 | | Yes | | 4.0 |
| | MouseEvent | shiftKey | 9 | | Yes | | 4.0 |
| | MouseEvent | stageX | 9 | | Yes | | 4.0 |
| | MouseEvent | stageY | 9 | | Yes | | 4.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | MouseEvent | MouseEvent | 9 | | Yes | 4.0 |
| | MouseEvent | clone | 9 | | Yes | 4.0 |
| | MouseEvent | toString | 9 | | Yes | 4.0 |
| | MouseEvent | updateAfterEvent | 9 | | No | TBD |
| | MouseEvent | CLICK | 9 | | Yes | 4.0 |
| | MouseEvent | DOUBLE_CLICK | 9 | | Yes | 4.0 |
| | MouseEvent | MOUSE_DOWN | 9 | | Yes | 4.0 |
| | MouseEvent | MOUSE_MOVE | 9 | | Yes | 4.0 |
| | MouseEvent | MOUSE_OUT | 9 | | Yes | 4.0 |
| | MouseEvent | MOUSE_OVER | 9 | | Yes | 4.0 |
| | MouseEvent | MOUSE_UP | 9 | | Yes | 4.0 |
| | MouseEvent | MOUSE_WHEEL | 9 | | Yes | 4.0 |
| | MouseEvent | ROLL_OUT | 9 | | Yes | 4.0 |
| | MouseEvent | ROLL_OVER | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.events** | **NetStatusEvent** | | **9** | | **Yes** | **GFx 4.0** |
| | NetStatusEvent | info | 9 | | Yes | 4.0 |
| | NetStatusEvent | NetStatusEvent | 9 | | Yes | 4.0 |
| | NetStatusEvent | clone | 9 | | Yes | 4.0 |
| | NetStatusEvent | toString | 9 | | Yes | 4.0 |
| | NetStatusEvent | NET_STATUS | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.events** | **PressAndTapGestureEvent** | | **10.1** | | **Partial** | **depends on platform** | **GFx 4.0** |
| | PressAndTapGestureEvent | tapLocalX | 10.1 | | Yes | 4.0 |
| | PressAndTapGestureEvent | tapLocalY | 10.1 | | Yes | 4.0 |
| | PressAndTapGestureEvent | tapStageX | 10.1 | | Yes | 4.0 |
| | PressAndTapGestureEvent | tapStageY | 10.1 | | Yes | 4.0 |
| | PressAndTapGestureEvent | PressAndTapGestureEvent | 10.1 | | Yes | 4.0 |
| | PressAndTapGestureEvent | clone | 10.1 | | Yes | 4.0 |
| | PressAndTapGestureEvent | toString | 10.1 | | Yes | 4.0 |
| | PressAndTapGestureEvent | GESTURE_PRESS_TAP | 10.1 | | Yes | 4.0 |
| | | | | | | |
| **flash.events** | **ProgressEvent** | | **10** | | **Yes** | **GFx 4.0** |
| | ProgressEvent | bytesLoaded | 10 | | Yes | 4.0 |
| | ProgressEvent | bytesTotal | 10 | | Yes | 4.0 |
| | ProgressEvent | ProgressEvent | 10 | | Yes | 4.0 |
| | ProgressEvent | clone | 10 | | Yes | 4.0 |
| | ProgressEvent | toString | 10 | | Yes | 4.0 |
| | ProgressEvent | PROGRESS | 10 | | Yes | 4.0 |
| | ProgressEvent | SOCKET_DATA | 10 | | Yes | 4.2 |
| | | | | | | |
| **flash.events** | **SampleDataEvent** | | **10** | | **No** | **TBD** |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | SampleDataEvent | data | 10 | | No | | TBD |
| | SampleDataEvent | position | 10 | | No | | TBD |
| | SampleDataEvent | SampleDataEvent | 10 | | No | | TBD |
| | SampleDataEvent | clone | 10 | | No | | TBD |
| | SampleDataEvent | toString | 10 | | No | | TBD |
| | SampleDataEvent | SAMPLE_DATA | 10 | | No | | TBD |
| | | | | | | | |
| **flash.events** | **SecurityErrorEvent** | | **9** | | **No** | | **TBD** |
| | SecurityErrorEvent | SecurityErrorEvent | 9 | | No | | TBD |
| | SecurityErrorEvent | clone | 9 | | No | | TBD |
| | SecurityErrorEvent | toString | 9 | | No | | TBD |
| | SecurityErrorEvent | SECURITY_ERROR | 9 | | No | | TBD |
| | | | | | | | |
| **flash.events** | **ShaderEvent** | | **10** | | **No** | | **TBD** |
| | ShaderEvent | bitmapData | 10 | | No | | TBD |
| | ShaderEvent | byteArray | 10 | | No | | TBD |
| | ShaderEvent | vector | 10 | | No | | TBD |
| | ShaderEvent | ShaderEvent | 10 | | No | | TBD |
| | ShaderEvent | clone | 10 | | No | | TBD |
| | ShaderEvent | toString | 10 | | No | | TBD |
| | ShaderEvent | COMPLETE | 10 | | No | | TBD |
| | | | | | | | |
| **flash.events** | **StageOrientationEvent** | | **10** | | **Yes** | | **GFx 4.0** |
| | StageOrientationEvent | afterOrientation | 10 | | Yes | | 4.0 |
| | StageOrientationEvent | beforeOrientation | 10 | | Yes | | 4.0 |
| | StageOrientationEvent | StageOrientationEvent | 10 | | Yes | | 4.0 |
| | StageOrientationEvent | clone | 10 | | Yes | | 4.0 |
| | StageOrientationEvent | toString | 10 | | Yes | | 4.0 |
| | StageOrientationEvent | ORIENTATION_CHANGE | 10 | | Yes | | 4.0 |
| | StageOrientationEvent | ORIENTATION_CHANGING | 10 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.events** | **StatusEvent** | | **9** | | **No** | | **TBD** |
| | StatusEvent | code | 9 | | No | | TBD |
| | StatusEvent | level | 9 | | No | | TBD |
| | StatusEvent | StatusEvent | 9 | | No | | TBD |
| | StatusEvent | clone | 9 | | No | | TBD |
| | StatusEvent | toString | 9 | | No | | TBD |
| | StatusEvent | STATUS | 9 | | No | | TBD |
| | | | | | | | |
| **flash.events** | **SyncEvent** | | **9** | | **No** | | **TBD** |
| | SyncEvent | changeList | 9 | | No | | TBD |
| | SyncEvent | SyncEvent | 9 | | No | | TBD |

| | | | | | | |
|---|---|---|---|---|---|---|
| | SyncEvent | clone | 9 | | No | TBD |
| | SyncEvent | toString | 9 | | No | TBD |
| | SyncEvent | SYNC | 9 | | No | TBD |
| | | | | | | |
| **flash.events** | **TextEvent** | | **9** | | **Yes** | **GFx 4.0** |
| | TextEvent | text | 9 | | Yes | 4.0 |
| | TextEvent | TextEvent | 9 | | Yes | 4.0 |
| | TextEvent | clone | 9 | | Yes | 4.0 |
| | TextEvent | toString | 9 | | Yes | 4.0 |
| | TextEvent | LINK | 9 | | Yes | 4.0 |
| | TextEvent | TEXT_INPUT | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.events** | **TimerEvent** | | **9** | | **Partial** | **GFx 4.0** |
| | TimerEvent | TimerEvent | 9 | | Yes | 4.0 |
| | TimerEvent | clone | 9 | | Yes | 4.0 |
| | TimerEvent | toString | 9 | | Yes | 4.0 |
| | TimerEvent | updateAfterEvent | 9 | | No | TBD |
| | TimerEvent | TIMER | 9 | | Yes | 4.0 |
| | TimerEvent | TIMER_COMPLETE | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.events** | **TouchEvent** | | **10.1** | | **Partial** | **Depends on platform** | **GFx 4.0** |
| | TouchEvent | altKey | 10.1 | | Yes | 4.0 |
| | TouchEvent | commandKey | 10.1 | | Yes | 4.0 |
| | TouchEvent | controlKey | 10.1 | | Yes | 4.0 |
| | TouchEvent | ctrlKey | 10.1 | | Yes | 4.0 |
| | TouchEvent | isPrimaryTocuhPoint | 10.1 | | Yes | 4.0 |
| | TouchEvent | isRelatedObjectInaccessible | 10.1 | | No | TBD |
| | TouchEvent | localX | 10.1 | | Yes | 4.0 |
| | TouchEvent | localY | 10.1 | | Yes | 4.0 |
| | TouchEvent | pressure | 10.1 | | Yes | 4.0 |
| | TouchEvent | relatedObject | 10.1 | | Yes | 4.0 |
| | TouchEvent | shiftKey | 10.1 | | Yes | 4.0 |
| | TouchEvent | sizeX | 10.1 | | Yes | 4.0 |
| | TouchEvent | sizeY | 10.1 | | Yes | 4.0 |
| | TouchEvent | stageX | 10.1 | | Yes | 4.0 |
| | TouchEvent | stageY | 10.1 | | Yes | 4.0 |
| | TouchEvent | touchPointID | 10.1 | | Yes | 4.0 |
| | TouchEvent | TouchEvent | 10.1 | | Yes | 4.0 |
| | TouchEvent | clone | 10.1 | | Yes | 4.0 |
| | TouchEvent | toString() | 10.1 | | Yes | 4.0 |
| | TouchEvent | updateAfterEvent | 10.1 | | No | TBD |
| | TouchEvent | TOUCH_BEGIN | 10.1 | Event | Yes | 4.0 |

| | TouchEvent | TOUCH_END | 10.1 | Event | Yes | | 4.0 |
|---|---|---|---|---|---|---|---|
| | TouchEvent | TOUCH_MOVE | 10.1 | Event | Yes | | 4.0 |
| | TouchEvent | TOUCH_OUT | 10.1 | Event | Yes | | 4.0 |
| | TouchEvent | TOUCH_OVER | 10.1 | Event | Yes | | 4.0 |
| | TouchEvent | TOUCH_ROLL_OUT | 10.1 | Event | Yes | | 4.0 |
| | TouchEvent | TOUCH_ROLL_OVER | 10.1 | Event | Yes | | 4.0 |
| | TouchEvent | TOUCH_TAP | 10.1 | Event | Yes | | 4.0 |
| | | | | | | | |
| **flash.events** | **TransformGestureEvent** | | **10.1** | | **Yes** | **depends on platform** | **GFx 4.0** |
| | TransformGestureEvent | offsetX | 10.1 | | Yes | | 4.0 |
| | TransformGestureEvent | offsetY | 10.1 | | Yes | | 4.0 |
| | TransformGestureEvent | rotation | 10.1 | | Yes | | 4.0 |
| | TransformGestureEvent | scaleX | 10.1 | | Yes | | 4.0 |
| | TransformGestureEvent | scaleY | 10.1 | | Yes | | 4.0 |
| | TransformGestureEvent | TransformGestureEvent | 10.1 | | Yes | | 4.0 |
| | TransformGestureEvent | clone | 10.1 | | Yes | | 4.0 |
| | TransformGestureEvent | toString | 10.1 | | Yes | | 4.0 |
| | TransformGestureEvent | GESTURE_PAN | 10.1 | Event | Yes | depends on platform | 4.0 |
| | TransformGestureEvent | GESTURE_ROTATE | 10.1 | Event | Yes | depends on platform | 4.0 |
| | TransformGestureEvent | GESTURE_ZOOM | 10.1 | Event | Yes | depends on platform | 4.0 |
| | TransformGestureEvent | GESTURE_SWIPE | 10.1 | Event | Yes | depends on platform | 4.0 |
| | | | | | | | |
| **flash.external** | **ExternalInterface** | | **9** | | **Yes** | | **GFx 4.0** |
| | ExternalInterface | available | 9 | | Yes | | 4.0 |
| | ExternalInterface | marshallExceptions | 9 | | Yes | | 4.0 |
| | ExternalInterface | objectID | 9 | | Yes | | 4.0 |
| | ExternalInterface | addCallback | 9 | | Yes | | 4.0 |
| | ExternalInterface | call | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.filters** | **BevelFilter** | | **9** | | **Yes** | **For shapes only** | **GFx 4.0** |
| | BevelFilter | angle | 9 | | Yes | | 4.0 |
| | BevelFilter | blurX | 9 | | Yes | | 4.0 |
| | BevelFilter | blurY | 9 | | Yes | | 4.0 |
| | BevelFilter | distance | 9 | | Yes | | 4.0 |
| | BevelFilter | highlightAlpha | 9 | | Yes | | 4.0 |
| | BevelFilter | highlightColor | 9 | | Yes | | 4.0 |
| | BevelFilter | knockout | 9 | | Yes | | 4.0 |
| | BevelFilter | quality | 9 | | Yes | | 4.0 |
| | BevelFilter | shadowAlpha | 9 | | Yes | | 4.0 |
| | BevelFilter | shadowColor | 9 | | Yes | | 4.0 |
| | BevelFilter | strength | 9 | | Yes | | 4.0 |
| | BevelFilter | type | 9 | | Yes | | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BevelFilter | BevelFilter | 9 | | Yes | | 4.0 |
| | BevelFilter | clone | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.filters** | **BitmapFilter** | | **9** | | **No** | | **TBD** |
| | BitmapFilter | clone | 9 | | No | | TBD |
| | | | | | | | |
| **flash.filters** | **BitmapFilterQuality** | | **9** | | Yes | | **GFx 4.0** |
| | BitmapFilterQuality | HIGH | 9 | | Yes | | 4.0 |
| | BitmapFilterQuality | LOW | 9 | | Yes | | 4.0 |
| | BitmapFilterQuality | MEDIUM | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.filters** | **BitmapFilterType** | | **9** | | Yes | | **GFx 4.0** |
| | BitmapFilterType | FULL | 9 | | Yes | | 4.0 |
| | BitmapFilterType | INNER | 9 | | Yes | | 4.0 |
| | BitmapFilterType | OUTER | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.filters** | **BlurFilter** | | **9** | | **Yes** | **For shapes and text fields only** | **GFx 4.0** |
| | BlurFilter | blurX | 9 | | Yes | | 4.0 |
| | BlurFilter | blurY | 9 | | Yes | | 4.0 |
| | BlurFilter | quality | 9 | | Yes | | 4.0 |
| | BlurFilter | BlurFilter | 9 | | Yes | | 4.0 |
| | BlurFilter | clone | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.filters** | **ColorMatrixFilter** | | **9** | | **Yes** | **For shapes only** | **GFx 4.0** |
| | ColorMatrixFilter | matrix | 9 | | Yes | | 4.0 |
| | ColorMatrixFilter | ColorMatrixFilter | 9 | | Yes | | 4.0 |
| | ColorMatrixFilter | clone | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.filters** | **ConvolutionFilter** | | **9** | | **No** | | **TBD** |
| | ConvolutionFilter | alpha | 9 | | No | | TBD |
| | ConvolutionFilter | bias | 9 | | No | | TBD |
| | ConvolutionFilter | clamp | 9 | | No | | TBD |
| | ConvolutionFilter | color | 9 | | No | | TBD |
| | ConvolutionFilter | divisor | 9 | | No | | TBD |
| | ConvolutionFilter | matrix | 9 | | No | | TBD |
| | ConvolutionFilter | matrixX | 9 | | No | | TBD |
| | ConvolutionFilter | matrixY | 9 | | No | | TBD |
| | ConvolutionFilter | preserveAlpha | 9 | | No | | TBD |
| | ConvolutionFilter | ConvolutionFilter | 9 | | No | | TBD |
| | ConvolutionFilter | clone | 9 | | No | | TBD |
| | | | | | | | |
| **flash.filters** | **DisplacementMapFilter** | | **9** | | **No** | | **TBD** |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | DisplacementMapFilter | alpha | 9 | | No | | TBD |
| | DisplacementMapFilter | color | 9 | | No | | TBD |
| | DisplacementMapFilter | componentX | 9 | | No | | TBD |
| | DisplacementMapFilter | componentY | 9 | | No | | TBD |
| | DisplacementMapFilter | mapBitmap | 9 | | No | | TBD |
| | DisplacementMapFilter | mapPoint | 9 | | No | | TBD |
| | DisplacementMapFilter | mode | 9 | | No | | TBD |
| | DisplacementMapFilter | scaleX | 9 | | No | | TBD |
| | DisplacementMapFilter | scaleY | 9 | | No | | TBD |
| | DisplacementMapFilter | DisplacementMapFilter | 9 | | No | | TBD |
| | DisplacementMapFilter | clone | 9 | | No | | TBD |
| | | | | | | | |
| **flash.filters** | **DisplacementMapFilterMode** | | **9** | | **No** | | **TBD** |
| | DisplacementMapFilterMode | CLAMP | 9 | | No | | TBD |
| | DisplacementMapFilterMode | COLOR | 9 | | No | | TBD |
| | DisplacementMapFilterMode | IGNORE | 9 | | No | | TBD |
| | DisplacementMapFilterMode | WRAP | 9 | | No | | TBD |
| | | | | | | | |
| **flash.filters** | **DropShadowFilter** | | **9** | | **Yes** | **For shapes and text fields only** | **GFx 4.0** |
| | DropShadowFilter | alpha | 9 | | Yes | | 4.0 |
| | DropShadowFilter | angle | 9 | | Yes | | 4.0 |
| | DropShadowFilter | blurX | 9 | | Yes | | 4.0 |
| | DropShadowFilter | blurY | 9 | | Yes | | 4.0 |
| | DropShadowFilter | color | 9 | | Yes | | 4.0 |
| | DropShadowFilter | distance | 9 | | Yes | | 4.0 |
| | DropShadowFilter | hideObject | 9 | | Yes | | 4.0 |
| | DropShadowFilter | inner | 9 | | Yes | | 4.0 |
| | DropShadowFilter | knockout | 9 | | Yes | | 4.0 |
| | DropShadowFilter | quality | 9 | | Yes | | 4.0 |
| | DropShadowFilter | strength | 9 | | Yes | | 4.0 |
| | DropShadowFilter | DropShadowFilter | 9 | | Yes | | 4.0 |
| | DropShadowFilter | clone | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.filters** | **GlowFilter** | | **9** | | **Yes** | **For shapes and text fields only** | **GFx 4.0** |
| | GlowFilter | alpha | 9 | | Yes | | 4.0 |
| | GlowFilter | blurX | 9 | | Yes | | 4.0 |
| | GlowFilter | blurY | 9 | | Yes | | 4.0 |
| | GlowFilter | color | 9 | | Yes | | 4.0 |
| | GlowFilter | inner | 9 | | Yes | | 4.0 |
| | GlowFilter | knockout | 9 | | Yes | | 4.0 |
| | GlowFilter | quality | 9 | | Yes | | 4.0 |
| | GlowFilter | strength | 9 | | Yes | | 4.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | GlowFilter | GlowFilter | 9 | | Yes | 4.0 |
| | GlowFilter | clone | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.filters** | **GradientBevelFilter** | | **9** | | **No** | **TBD** |
| | GradientBevelFilter | alphas | 9 | | No | TBD |
| | GradientBevelFilter | angle | 9 | | No | TBD |
| | GradientBevelFilter | blurX | 9 | | No | TBD |
| | GradientBevelFilter | blurY | 9 | | No | TBD |
| | GradientBevelFilter | colors | 9 | | No | TBD |
| | GradientBevelFilter | distance | 9 | | No | TBD |
| | GradientBevelFilter | knockout | 9 | | No | TBD |
| | GradientBevelFilter | quality | 9 | | No | TBD |
| | GradientBevelFilter | ratios | 9 | | No | TBD |
| | GradientBevelFilter | strength | 9 | | No | TBD |
| | GradientBevelFilter | type | 9 | | No | TBD |
| | GradientBevelFilter | GradientBevelFilter | 9 | | No | TBD |
| | GradientBevelFilter | clone | 9 | | No | TBD |
| | | | | | | |
| **flash.filters** | **GradientGlowFilter** | | **10** | | **No** | **TBD** |
| | GradientGlowFilter | alphas | 10 | | No | TBD |
| | GradientGlowFilter | angle | 10 | | No | TBD |
| | GradientGlowFilter | blurX | 10 | | No | TBD |
| | GradientGlowFilter | blurY | 10 | | No | TBD |
| | GradientGlowFilter | colors | 10 | | No | TBD |
| | GradientGlowFilter | distance | 10 | | No | TBD |
| | GradientGlowFilter | knockout | 10 | | No | TBD |
| | GradientGlowFilter | quality | 10 | | No | TBD |
| | GradientGlowFilter | ratios | 10 | | No | TBD |
| | GradientGlowFilter | strength | 10 | | No | TBD |
| | GradientGlowFilter | type | 10 | | No | TBD |
| | GradientGlowFilter | GradientGlowFilter | 10 | | No | TBD |
| | GradientGlowFilter | clone | 10 | | No | TBD |
| | | | | | | |
| **flash.filters** | **ShaderFilter** | | **10** | | **No** | **TBD** |
| | ShaderFilter | bottomExtension | 10 | | No | TBD |
| | ShaderFilter | leftExtension | 10 | | No | TBD |
| | ShaderFilter | rightExtension | 10 | | No | TBD |
| | ShaderFilter | shader | 10 | | No | TBD |
| | ShaderFilter | topExtension | 10 | | No | TBD |
| | ShaderFilter | ShaderFilter | 10 | | No | TBD |
| | | | | | | |
| **flash.geom** | **ColorTransform** | | **9** | | **Yes** | **GFx 4.0** |

| | ColorTransform | alphaMultiplier | 9 | | Yes | | 4.0 |
|---|---|---|---|---|---|---|---|
| | ColorTransform | alphaOffset | 9 | | Yes | | 4.0 |
| | ColorTransform | blueMultiplier | 9 | | Yes | | 4.0 |
| | ColorTransform | blueOffset<br>color | 9 | | Yes | | 4.0 |
| | ColorTransform | greenMultiplier | 9 | | Yes | | 4.0 |
| | ColorTransform | greenOffset | 9 | | Yes | | 4.0 |
| | ColorTransform | redMultiplier | 9 | | Yes | | 4.0 |
| | ColorTransform | redOffset | 9 | | Yes | | 4.0 |
| | ColorTransform | ColorTransform | 9 | | Yes | | 4.0 |
| | ColorTransform | concat | 9 | | Yes | | 4.0 |
| | ColorTransform | toString | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.geom** | **Matrix** | | **9** | | **Yes** | | **GFx 4.0** |
| | Matrix | a | 9 | | Yes | | 4.0 |
| | Matrix | b | 9 | | Yes | | 4.0 |
| | Matrix | c | 9 | | Yes | | 4.0 |
| | Matrix | d | 9 | | Yes | | 4.0 |
| | Matrix | tx | 9 | | Yes | | 4.0 |
| | Matrix | ty | 9 | | Yes | | 4.0 |
| | Matrix | Matrix | 9 | | Yes | | 4.0 |
| | Matrix | clone | 9 | | Yes | | 4.0 |
| | Matrix | concat | 9 | | Yes | | 4.0 |
| | Matrix | createBox | 9 | | Yes | | 4.0 |
| | Matrix | createGradientBox | 9 | | Yes | | 4.0 |
| | Matrix | deltaTransformPoint | 9 | | Yes | | 4.0 |
| | Matrix | identity | 9 | | Yes | | 4.0 |
| | Matrix | invert | 9 | | Yes | | 4.0 |
| | Matrix | rotate | 9 | | Yes | | 4.0 |
| | Matrix | scale | 9 | | Yes | | 4.0 |
| | Matrix | toString | 9 | | Yes | | 4.0 |
| | Matrix | transformPoint | 9 | | Yes | | 4.0 |
| | Matrix | translate | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.geom** | **Matrix3D** | | **10** | | **Partial** | | **GFx 4.0** |
| | Matrix3D | determinant | 10 | | Yes | | 4.0 |
| | Matrix3D | position | 10 | | Yes | | 4.0 |
| | Matrix3D | rawData | 10 | | Yes | | 4.0 |
| | Matrix3D | Matrix3D | 10 | | Yes | | 4.0 |
| | Matrix3D | append | 10 | | Yes | | 4.0 |
| | Matrix3D | appendRotation | 10 | | Yes | | 4.0 |
| | Matrix3D | appendScale | 10 | | Yes | | 4.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Matrix3D | appendTranslation | 10 | | Yes | 4.0 |
| | Matrix3D | clone | 10 | | Yes | 4.0 |
| | Matrix3D | decompose | 10 | | No | TBD |
| | Matrix3D | deltaTransformVector | 10 | | Yes | 4.0 |
| | Matrix3D | identity | 10 | | Yes | 4.0 |
| | Matrix3D | interpolate | 10 | | No | TBD |
| | Matrix3D | interpolateTo | 10 | | No | TBD |
| | Matrix3D | invert | 10 | | Yes | 4.0 |
| | Matrix3D | pointAt | 10 | | Yes | 4.0 |
| | Matrix3D | prepend | 10 | | Yes | 4.0 |
| | Matrix3D | prependRotation | 10 | | Yes | 4.0 |
| | Matrix3D | prependScale | 10 | | Yes | 4.0 |
| | Matrix3D | prependTranslation | 10 | | Yes | 4.0 |
| | Matrix3D | recompose | 10 | | No | TBD |
| | Matrix3D | transformVector | 10 | | Yes | 4.0 |
| | Matrix3D | transformVectors | 10 | | Yes | 4.0 |
| | Matrix3D | transpose | 10 | | Yes | 4.0 |
| | | | | | | |
| **flash.geom** | **Orientation3D** | | **10** | | **No** | **TBD** |
| | Orientation3D | AXIS_ANGLE | 10 | | No | TBD |
| | Orientation3D | EULER_ANGLES | 10 | | No | TBD |
| | Orientation3D | QUATERNION | 10 | | No | TBD |
| | | | | | | |
| **flash.geom** | **PerspectiveProjection** | | **10** | | **Yes** | **GFx 4.0** |
| | PerspectiveProjection | fieldOfView | 10 | | Yes | 4.0 |
| | PerspectiveProjection | focalLength | 10 | | Yes | 4.0 |
| | PerspectiveProjection | projectionCenter | 10 | | Yes | 4.0 |
| | PerspectiveProjection | PerspectiveProjection | 10 | | Yes | 4.0 |
| | PerspectiveProjection | toMatrix3D | 10 | | Yes | 4.0 |
| | | | | | | |
| **flash.geom** | **Point** | | **9** | | **Yes** | **GFx 4.0** |
| | Point | length | 9 | | Yes | 4.0 |
| | Point | x | 9 | | Yes | 4.0 |
| | Point | y | 9 | | Yes | 4.0 |
| | Point | Point | 9 | | Yes | 4.0 |
| | Point | add | 9 | | Yes | 4.0 |
| | Point | clone | 9 | | Yes | 4.0 |
| | Point | distance | 9 | | Yes | 4.0 |
| | Point | equals | 9 | | Yes | 4.0 |
| | Point | interpolate | 9 | | Yes | 4.0 |
| | Point | normalize | 9 | | Yes | 4.0 |
| | Point | offset | 9 | | Yes | 4.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Point | polar | 9 | | Yes | 4.0 |
| | Point | subtract | 9 | | Yes | 4.0 |
| | Point | toString | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.geom** | **Rectangle** | | **9** | | **Yes** | **GFx 4.0** |
| | Rectangle | bottom | 9 | | Yes | 4.0 |
| | Rectangle | bottomRight | 9 | | Yes | 4.0 |
| | Rectangle | height | 9 | | Yes | 4.0 |
| | Rectangle | left | 9 | | Yes | 4.0 |
| | Rectangle | right | 9 | | Yes | 4.0 |
| | Rectangle | size | 9 | | Yes | 4.0 |
| | Rectangle | top | 9 | | Yes | 4.0 |
| | Rectangle | topLeft | 9 | | Yes | 4.0 |
| | Rectangle | width | 9 | | Yes | 4.0 |
| | Rectangle | x | 9 | | Yes | 4.0 |
| | Rectangle | y | 9 | | Yes | 4.0 |
| | Rectangle | Rectangle | 9 | | Yes | 4.0 |
| | Rectangle | clone | 9 | | Yes | 4.0 |
| | Rectangle | contains | 9 | | Yes | 4.0 |
| | Rectangle | containsPoint | 9 | | Yes | 4.0 |
| | Rectangle | containsRect | 9 | | Yes | 4.0 |
| | Rectangle | equals | 9 | | Yes | 4.0 |
| | Rectangle | inflate | 9 | | Yes | 4.0 |
| | Rectangle | inflatePoint | 9 | | Yes | 4.0 |
| | Rectangle | intersection | 9 | | Yes | 4.0 |
| | Rectangle | intersects | 9 | | Yes | 4.0 |
| | Rectangle | isEmpty | 9 | | Yes | 4.0 |
| | Rectangle | offset | 9 | | Yes | 4.0 |
| | Rectangle | offsetPoint | 9 | | Yes | 4.0 |
| | Rectangle | setEmpty | 9 | | Yes | 4.0 |
| | Rectangle | toString | 9 | | Yes | 4.0 |
| | Rectangle | union | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.geom** | **Transform** | | **9** | | **Yes** | **GFx 4.0** |
| | Transform | colorTransform | 9 | | Yes | 4.0 |
| | Transform | concatenatedColorTransform | 9 | | Yes | 4.0 |
| | Transform | concatenatedMatrix | 9 | | Yes | 4.0 |
| | Transform | matrix | 9 | | Yes | 4.0 |
| | Transform | matrix3D | 10 | | Yes | 4.0 |
| | Transform | perspectiveProjection | 10 | | Yes | 4.0 |
| | Transform | pixelBounds | 9 | | Yes | 4.0 |
| | Transform | getRelativeMatrix3D | 9 | | Yes | 4.0 |

| flash.geom | Utils3D | | 10 | | No | | TBD |
|---|---|---|---|---|---|---|---|
| | Utils3D | pointTowards | 10 | | No | | TBD |
| | Utils3D | projectVector | 10 | | No | | TBD |
| | Utils3D | projectVectors | 10 | | No | | TBD |
| | | | | | | | |
| flash.geom | Vector3D | | 10 | | Yes | | GFx 4.0 |
| | Vector3D | length | 10 | | Yes | | 4.0 |
| | Vector3D | lengthSquared | 10 | | Yes | | 4.0 |
| | Vector3D | w | 10 | | Yes | | 4.0 |
| | Vector3D | x | 10 | | Yes | | 4.0 |
| | Vector3D | y | 10 | | Yes | | 4.0 |
| | Vector3D | z | 10 | | Yes | | 4.0 |
| | Vector3D | Vector3D | 10 | | Yes | | 4.0 |
| | Vector3D | add | 10 | | Yes | | 4.0 |
| | Vector3D | angleBetween | 10 | | Yes | | 4.0 |
| | Vector3D | clone | 10 | | Yes | | 4.0 |
| | Vector3D | crossProduct | 10 | | Yes | | 4.0 |
| | Vector3D | decrementBy | 10 | | Yes | | 4.0 |
| | Vector3D | distance | 10 | | Yes | | 4.0 |
| | Vector3D | dotProduct | 10 | | Yes | | 4.0 |
| | Vector3D | equals | 10 | | Yes | | 4.0 |
| | Vector3D | incrementBy | 10 | | Yes | | 4.0 |
| | Vector3D | nearEquals | 10 | | Yes | | 4.0 |
| | Vector3D | negate | 10 | | Yes | | 4.0 |
| | Vector3D | normalize | 10 | | Yes | | 4.0 |
| | Vector3D | project | 10 | | Yes | | 4.0 |
| | Vector3D | scaleBy | 10 | | Yes | | 4.0 |
| | Vector3D | subtract | 10 | | Yes | | 4.0 |
| | Vector3D | toString | 10 | | Yes | | 4.0 |
| | Vector3D | X_AXIS | 10 | | Yes | | 4.0 |
| | Vector3D | Y_AXIS | 10 | | Yes | | 4.0 |
| | Vector3D | Z_AXIS | 10 | | Yes | | 4.0 |
| | | | | | | | |
| flash.media | Camera | | 9 | | No | | TBD |
| | Camera | activityLevel | 9 | | No | | TBD |
| | Camera | bandwidth | 9 | | No | | TBD |
| | Camera | currentFPS | 9 | | No | | TBD |
| | Camera | fps | 9 | | No | | TBD |
| | Camera | height | 9 | | No | | TBD |
| | Camera | index | 9 | | No | | TBD |
| | Camera | keyFrameInterval | 9 | | No | | TBD |

| | Camera | loopback | 9 | | No | | TBD |
|---|---|---|---|---|---|---|---|
| | Camera | motionLevel | 9 | | No | | TBD |
| | Camera | motionTimeout | 9 | | No | | TBD |
| | Camera | muted | 9 | | No | | TBD |
| | Camera | name | 9 | | No | | TBD |
| | Camera | names | 9 | | No | | TBD |
| | Camera | quality | 9 | | No | | TBD |
| | Camera | width | 9 | | No | | TBD |
| | Camera | getCamera | 9 | | No | | TBD |
| | Camera | setKeyFrameInterval | 9 | | No | | TBD |
| | Camera | setLoopback | 9 | | No | | TBD |
| | Camera | setMode | 9 | | No | | TBD |
| | Camera | setMotionLevel | 9 | | No | | TBD |
| | Camera | setQuality | 9 | | No | | TBD |
| | Camera | activity | 9 | | No | | TBD |
| | Camera | status | 9 | | No | | TBD |
| | | | | | | | |
| **flash.media** | **ID3Info** | | **9** | | **No** | | **TBD** |
| | ID3Info | album | 9 | | No | | TBD |
| | ID3Info | artist | 9 | | No | | TBD |
| | ID3Info | comment | 9 | | No | | TBD |
| | ID3Info | genre | 9 | | No | | TBD |
| | ID3Info | songName | 9 | | No | | TBD |
| | ID3Info | track | 9 | | No | | TBD |
| | ID3Info | year | 9 | | No | | TBD |
| | | | | | | | |
| **flash.media** | **Microphone** | | **9** | | **No** | | **TBD** |
| | Microphone | activityLevel | 9 | | No | | TBD |
| | Microphone | codec | 10 | | No | | TBD |
| | Microphone | encodeQuality | 10 | | No | | TBD |
| | Microphone | framesPerPacket | 10 | | No | | TBD |
| | Microphone | gain | 9 | | No | | TBD |
| | Microphone | index | 9 | | No | | TBD |
| | Microphone | muted | 9 | | No | | TBD |
| | Microphone | name | 9 | | No | | TBD |
| | Microphone | names | 9 | | No | | TBD |
| | Microphone | rate | 9 | | No | | TBD |
| | Microphone | silenceTimeout | 9 | | No | | TBD |
| | Microphone | soundTransform | 9 | | No | | TBD |
| | Microphone | useEchoSuppression | 9 | | No | | TBD |
| | Microphone | getMicrophone | 9 | | No | | TBD |
| | Microphone | setLoopBack | 9 | | No | | TBD |

| | Microphone | setSilenceLevel | 9 | | No | | TBD |
|---|---|---|---|---|---|---|---|
| | Microphone | setUseEchoSuppression | 9 | | No | | TBD |
| | Microphone | activity | 9 | | No | | TBD |
| | Microphone | status | 9 | | No | | TBD |
| | | | | | | | |
| **flash.media** | **package** | | **9** | | **No** | | **TBD** |
| | package | scanHardware | 9 | | No | | TBD |
| | | | | | | | |
| **flash.media** | **Sound** | | **9** | | **Partial** | | **GFx 4.0** |
| | Sound | bytesLoaded | 9 | | Yes | | 4.0 |
| | Sound | bytesTotal | 9 | | Yes | | 4.0 |
| | Sound | id3 | 9 | | No | | TBD |
| | Sound | length | 9 | | Yes | | 4.0 |
| | Sound | url | 9 | | Yes | | 4.0 |
| | Sound | Sound | 9 | | Yes | | 4.0 |
| | Sound | close | 9 | | Yes | | 4.0 |
| | Sound | extract | 10 | | No | | TBD |
| | Sound | load | 9 | | Yes | | 4.0 |
| | Sound | play | 9 | | Yes | | 4.0 |
| | Sound | complete | 9 | | Yes | | 4.0 |
| | Sound | id3 | 9 | | No | | TBD |
| | Sound | ioError | 9 | | Yes | | 4.0 |
| | Sound | open | 9 | | Yes | | 4.0 |
| | Sound | progress | 9 | | No | | TBD |
| | Sound | sampleData | 10 | | No | | TBD |
| | | | | | | | |
| **flash.media** | **SoundChannel** | | **9** | | **Partial** | | **GFx 4.0** |
| | SoundChannel | leftPeak | 9 | | No | | TBD |
| | SoundChannel | position | 9 | | Yes | | 4.0 |
| | SoundChannel | rightPeak | 9 | | No | | TBD |
| | SoundChannel | soundTransform | 9 | | Yes | | 4.0 |
| | SoundChannel | stop | 9 | | Yes | | 4.0 |
| | SoundChannel | soundComplete | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.media** | **SoundCodec** | | **10** | | **No** | | **TBD** |
| | SoundCodec | NELLYMOSER | 10 | | No | | TBD |
| | SoundCodec | SPEEX | 10 | | No | | TBD |
| | | | | | | | |
| **flash.media** | **SoundLoaderContext** | | **9** | | **No** | | **TBD** |
| | SoundLoaderContext | bufferTime | 9 | | No | | TBD |
| | SoundLoaderContext | checkPolicyFile | 9 | | No | | TBD |
| | SoundLoaderContext | SoundLoaderContext | 9 | | No | | TBD |

| | | | | | |
|---|---|---|---|---|---|
| **flash.media** | **SoundMixer** | | **9** | **No** | **TBD** |
| | SoundMixer | bufferTime | 9 | No | TBD |
| | SoundMixer | soundTransform | 9 | No | TBD |
| | SoundMixer | areSoundsInaccessible | 9 | No | TBD |
| | SoundMixer | computeSpectrum | 9 | No | TBD |
| | SoundMixer | stopAll | 9 | No | TBD |
| | | | | | |
| **flash.media** | **SoundTransform** | | **9** | **Partial** | **GFx 4.0** |
| | SoundTransform | leftToLeft | 9 | No | TBD |
| | SoundTransform | leftToRight | 9 | No | TBD |
| | SoundTransform | pan | 9 | Yes | 4.0 |
| | SoundTransform | rightToLeft | 9 | No | TBD |
| | SoundTransform | rightToRight | 9 | No | TBD |
| | SoundTransform | volume | 9 | Yes | 4.0 |
| | SoundTransform | SoundTransform | 9 | Yes | 4.0 |
| | | | | | |
| **flash.media** | **Video** | | **9** | **Partial** | **GFx 4.0** |
| | Video | deblocking | 9 | Yes | 4.0 |
| | Video | smoothing | 9 | Yes | 4.0 |
| | Video | videoWidth | 9 | Yes | 4.0 |
| | Video | Video | 9 | Yes | 4.0 |
| | Video | attachCamera | 9 | No | TBD |
| | Video | attachNetStream | 9 | Yes | 4.0 |
| | Video | clear | 9 | Yes | 4.0 |
| | | | | | |
| **flash.net** | **FileFilter** | | **9** | **No** | **TBD** |
| | FileFilter | description | 9 | No | TBD |
| | FileFilter | extension | 9 | No | TBD |
| | FileFilter | macType | 9 | No | TBD |
| | FileFilter | FileFilter | 9 | No | TBD |
| | | | | | |
| **flash.net** | **FileReference** | | **9** | **No** | **TBD** |
| | FileReference | creationDate | 9 | No | TBD |
| | FileReference | creator | 9 | No | TBD |
| | FileReference | data | 10 | No | TBD |
| | FileReference | modificationDate | 9 | No | TBD |
| | FileReference | name | 9 | No | TBD |
| | FileReference | size | 9 | No | TBD |
| | FileReference | type | 9 | No | TBD |
| | FileReference | FileReference | 9 | No | TBD |
| | FileReference | browse | 9 | No | TBD |

| | Class | Method | Ver | | Supported | Notes | Status |
|---|---|---|---|---|---|---|---|
| | FileReference | cancel | 9 | | No | | TBD |
| | FileReference | download | 9 | | No | | TBD |
| | FileReference | load | 10 | | No | | TBD |
| | FileReference | save | 10 | | No | | TBD |
| | FileReference | upload | 9 | | No | | TBD |
| | FileReference | cancel | 9 | | No | | TBD |
| | FileReference | complete | 9 | | No | | TBD |
| | FileReference | httpStatus | 9 | | No | | TBD |
| | FileReference | ioError | 9 | | No | | TBD |
| | FileReference | open | 9 | | No | | TBD |
| | FileReference | progress | 9 | | No | | TBD |
| | FileReference | securityError | 9 | | No | | TBD |
| | FileReference | select | 9 | | No | | TBD |
| | FileReference | uploadCompleteData | 9 | | No | | TBD |
| | | | | | | | |
| **flash.net** | **FileReferenceList** | | **9** | | **No** | | **TBD** |
| | FileReferenceList | fileList | 9 | | No | | TBD |
| | FileReferenceList | FileReferenceList | 9 | | No | | TBD |
| | FileReferenceList | browse | 9 | | No | | TBD |
| | FileReferenceList | cancel | 9 | | No | | TBD |
| | FileReferenceList | select | 9 | | No | | TBD |
| | | | | | | | |
| **flash.net** | **IDynamicPropertyOutput** | | **9** | | **Yes** | **Interface methods have empty bodies** | **GFx 4.0** |
| | IDynamicPropertyOutput | writeDynamicProperty | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.net** | **IDynamicPropertyWriter** | | **9** | | **Yes** | | **GFx 4.0** |
| | IDynamicPropertyWriter | writeDynamicProperties | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.net** | **LocalConnection** | | **9** | | **No** | | **TBD** |
| | LocalConnection | client | 9 | | No | | TBD |
| | LocalConnection | domain | 9 | | No | | TBD |
| | LocalConnection | allowDomain | 9 | | No | | TBD |
| | LocalConnection | allowInsecureDomain | 9 | | No | | TBD |
| | LocalConnection | close | 9 | | No | | TBD |
| | LocalConnection | connect | 9 | | No | | TBD |
| | LocalConnection | send | 9 | | No | | TBD |
| | LocalConnection | asyncError | 9 | | No | | TBD |
| | LocalConnection | securityError | 9 | | No | | TBD |
| | LocalConnection | status | 9 | | No | | TBD |
| | | | | | | | |
| **flash.net** | **NetConnection** | | **9** | | **Partial** | | **GFx 4.0** |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | NetConnection | client | 9 | | No | | TBD |
| | NetConnection | connected | 9 | | No | | TBD |
| | NetConnection | connectedProxyType | 9 | | No | | TBD |
| | NetConnection | defaultObjectEncoding | 9 | | No | | TBD |
| | NetConnection | farID | 10 | | No | | TBD |
| | NetConnection | farNonce | 10 | | No | | TBD |
| | NetConnection | maxPeerConnections | 10 | | No | | TBD |
| | NetConnection | nearID | 10 | | No | | TBD |
| | NetConnection | nearNonce | 10 | | No | | TBD |
| | NetConnection | objectEncoding | 9 | | No | | TBD |
| | NetConnection | protocol | 10 | | No | | TBD |
| | NetConnection | proxyType | 9 | | No | | TBD |
| | NetConnection | unconnectedPeerStreams | 10 | | No | | TBD |
| | NetConnection | uri | 9 | | No | | TBD |
| | NetConnection | usingTLS | 9 | | No | | TBD |
| | NetConnection | NetConnection | 9 | | No | | TBD |
| | NetConnection | call | 9 | | No | | TBD |
| | NetConnection | close | 9 | | No | | TBD |
| | NetConnection | connect | 9 | | Yes | Used only for custom video from the local file system. | 4.0 |
| | NetConnection | asyncError | 9 | | No | | TBD |
| | NetConnection | ioError | 9 | | No | | TBD |
| | NetConnection | netStatus | 9 | | No | | TBD |
| | NetConnection | securityError | 9 | | No | | TBD |
| | | | | | | | |
| **flash.net** | **NetStream** | | **9** | | **Partial** | | **GFx 4.0** |
| | NetStream | bufferLength | 9 | | No | | TBD |
| | NetStream | bufferTime | 9 | | Yes | | 4.0 |
| | NetStream | bytesTotal | 9 | | No | | TBD |
| | NetStream | checkPolicyFile | 9 | | No | | TBD |
| | NetStream | client | 9 | | Yes | | 4.0 |
| | NetStream | currentFPS | 9 | | Yes | | 4.0 |
| | NetStream | farID | 10 | | No | | TBD |
| | NetStream | farNonce | 10 | | No | | TBD |
| | NetStream | info | 10 | | No | | TBD |
| | NetStream | liveDelay | 9 | | No | | TBD |
| | NetStream | nearNonce | 10 | | No | | TBD |
| | NetStream | objectEncoding | 9 | | No | | TBD |
| | NetStream | soundTransform | 9 | | Yes | | 4.0 |
| | NetStream | time | 9 | | Yes | | 4.0 |
| | NetStream | NetStream | 9 | | Yes | | 4.0 |
| | NetStream | attachAudio | 9 | | No | | TBD |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | NetStream | attachCamera | 9 | | No | | TBD |
| | NetStream | close | 9 | | Yes | | 4.0 |
| | NetStream | onPeerConnect | 10 | | No | | TBD |
| | NetStream | pause | 9 | | Yes | | 4.0 |
| | NetStream | play2 | 10 | | No | | TBD |
| | NetStream | publish | 9 | | No | | TBD |
| | NetStream | receiveAudio | 9 | | No | | TBD |
| | NetStream | receiveVideo | 9 | | No | | TBD |
| | NetStream | receiveVideoFPS | 9 | | No | | TBD |
| | NetStream | resume | 9 | | Yes | | 4.0 |
| | NetStream | seek | 9 | | Yes | | 4.0 |
| | NetStream | send | 9 | | No | | TBD |
| | NetStream | togglePause | 9 | | Yes | | 4.0 |
| | NetStream | asyncError | 9 | | No | | TBD |
| | NetStream | ioError | 9 | | No | | TBD |
| | NetStream | netStatus | 9 | | Yes | | 4.0 |
| | NetStream | onCuePoint | 9 | | Yes | | 4.0 |
| | NetStream | onImageData | 9 | | No | | TBD |
| | NetStream | onMetaData | 9 | | Yes | | 4.0 |
| | NetStream | onPlayStatus | 9 | | No | | TBD |
| | NetStream | onTextData | 9 | | No | | TBD |
| | NetStream | onXMPData | 10 | | No | | TBD |
| | NetStream | CONNECT_TO_FMS | 10 | | No | | TBD |
| | NetStream | DIRECT_CONNECTIONS | 10 | | No | | TBD |
| | NetStream | loop | EXT | | Yes | set/get a looping flag | 4.0 |
| | NetStream | currentFrame | EXT | | Yes | returns current playback position (in frames) | 4.0 |
| | NetStream | audioTrack | EXT | | Yes | set/get current audio track | 4.0 |
| | NetStream | subAudioTrack | EXT | | Yes | set/get secondary, or SubAudio, audio track | 4.0 |
| | NetStream | voiceTrack | EXT | | Yes | replaces center voice track of 5.1ch radio | 4.0 |
| | NetStream | subtitleTrack | EXT | | Yes | set/get current subtitles track number; 0 - turn off subtitles | 4.0 |
| | NetStream | reloadThresholdTime | EXT | | Yes | set reload timing | 4.0 |
| | NetStream | numberOfFramePools | EXT | | Yes | set number of internal video buffers | 4.0 |
| | NetStream | openTimeout | EXT | | Yes | set an open URL timeout (default 5) in seconds | 4.0 |
| | NetStream | onSubTitle | EXT | | Yes | called when a subtitle string is ready to be shown. | 4.0 |
| | | | | | | | |
| **flash.net** | **NetStreamInfo** | | **10** | | **No** | | TBD |
| | NetStreamInfo | audioBufferByteLength | 10 | | No | | TBD |
| | NetStreamInfo | audioBufferLength | 10 | | No | | TBD |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | NetStreamInfo | audioByteCount | 10 | | No | | TBD |
| | NetStreamInfo | audioBytesPerSecond | 10 | | No | | TBD |
| | NetStreamInfo | audioLossRate | 10 | | No | | TBD |
| | NetStreamInfo | byteCount | 10 | | No | | TBD |
| | NetStreamInfo | currentBytesPerSecond | 10 | | No | | TBD |
| | NetStreamInfo | dataBufferByteLength | 10 | | No | | TBD |
| | NetStreamInfo | dataBufferLength | 10 | | No | | TBD |
| | NetStreamInfo | dataByteCount | 10 | | No | | TBD |
| | NetStreamInfo | dataBytesPerSecond | 10 | | No | | TBD |
| | NetStreamInfo | droppedFrames | 10 | | No | | TBD |
| | NetStreamInfo | maxBytesPerSecond | 10 | | No | | TBD |
| | NetStreamInfo | playbackBytesPerSecond | 10 | | No | | TBD |
| | NetStreamInfo | SRTT | 10 | | No | | TBD |
| | NetStreamInfo | videoBufferByteLength | 10 | | No | | TBD |
| | NetStreamInfo | videoBufferLength | 10 | | No | | TBD |
| | NetStreamInfo | videoByteCount | 10 | | No | | TBD |
| | NetStreamInfo | videoBytesPerSecond | 10 | | No | | TBD |
| | NetStreamInfo | toString | 10 | | No | | TBD |
| | | | | | | | |
| **flash.net** | **NetStreamPlayOptions** | | **10** | | **No** | | **TBD** |
| | NetStreamPlayOptions | len | 10 | | No | | TBD |
| | NetStreamPlayOptions | oldStreamName | 10 | | No | | TBD |
| | NetStreamPlayOptions | start | 10 | | No | | TBD |
| | NetStreamPlayOptions | streamName | 10 | | No | | TBD |
| | NetStreamPlayOptions | transition | 10 | | No | | TBD |
| | NetStreamPlayOptions | NetStreamPlayOptions | 10 | | No | | TBD |
| | | | | | | | |
| **flash.net** | **NetStreamPlayTransitions** | | **10** | | **No** | | **TBD** |
| | NetStreamPlayTransitions | APPEND | 10 | | No | | TBD |
| | NetStreamPlayTransitions | RESET | 10 | | No | | TBD |
| | NetStreamPlayTransitions | STOP | 10 | | No | | TBD |
| | NetStreamPlayTransitions | SWAP | 10 | | No | | TBD |
| | NetStreamPlayTransitions | SWITCH | 10 | | No | | TBD |
| | | | | | | | |
| **flash.net** | **ObjectEncoding** | | **9** | | **No** | | **TBD** |
| | ObjectEncoding | dynamicPropertyWriter | 9 | | No | | TBD |
| | ObjectEncoding | AMF0 | 9 | | No | | TBD |
| | ObjectEncoding | AMF3 | 9 | | No | | TBD |
| | ObjectEncoding | DEFAULT | 9 | | No | | TBD |
| | ObjectEncoding | getClassByAlias | 9 | | No | | TBD |
| | ObjectEncoding | navigateToURL | 9 | | No | | TBD |
| | ObjectEncoding | registerClassAlias | 9 | | No | | TBD |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | ObjectEncoding | sendToURL | 9 | | No | | TBD |
| | | | | | | | |
| **flash.net** | **Responder** | | **9** | | **No** | | **TBD** |
| | Responder | Responder | 9 | | No | | TBD |
| | | | | | | | |
| **flash.net** | **SharedObject** | | **9** | | **Partial** | Only simple types and Object + Array dynamic properties are written out. If type != {Object, Array} and contains dynamic properties, then they will be loaded into an Object instance. | **GFx 4.1** |
| | SharedObject | client | 9 | | No | | TBD |
| | SharedObject | data | 9 | | Partial | Only getter | 4.1 |
| | SharedObject | defaultObjectEncoding | 9 | | No | | TBD |
| | SharedObject | fps | 9 | | No | | TBD |
| | SharedObject | objectEncoding | 9 | | No | | TBD |
| | SharedObject | size | 9 | | No | | TBD |
| | SharedObject | clear | 9 | | No | | TBD |
| | SharedObject | close | 9 | | No | | TBD |
| | SharedObject | connect | 9 | | No | | TBD |
| | SharedObject | flush | 9 | | Yes | | 4.1 |
| | SharedObject | getLocal | 9 | | Yes | | 4.1 |
| | SharedObject | getRemote | 9 | | No | | TBD |
| | SharedObject | send | 9 | | No | | TBD |
| | SharedObject | setDirty | 9 | | No | | TBD |
| | SharedObject | setProperty | 9 | | No | | TBD |
| | SharedObject | asyncError | 9 | | No | | TBD |
| | SharedObject | netStatus | 9 | | No | | TBD |
| | SharedObject | sync | 9 | | No | | TBD |
| | | | | | | | |
| **flash.net** | **SharedObjectFlushStatus** | | **9** | | **No** | | **TBD** |
| | SharedObjectFlushStatus | FLUSHED | 9 | | No | | TBD |
| | SharedObjectFlushStatus | PENDING | 9 | | No | | TBD |
| | | | | | | | |
| **flash.net** | **Socket** | | **9** | | **Yes** | | **GFx 4.2** |
| | Socket | bytesAvailable | 9 | | Yes | | 4.2 |
| | Socket | connected | 9 | | No | | TBD |
| | Socket | endian | 9 | | Yes | | 4.2 |
| | Socket | objectEncoding | 9 | | Yes | | 4.2 |
| | Socket | timeout | 9 | | Yes | | 4.2 |
| | Socket | Socket | 9 | | Yes | | 5.0 |
| | Socket | close | 9 | | Yes | | 5.0 |
| | Socket | connect | 9 | | Yes | | 5.0 |

| | Socket | flush | 9 | | Yes | 5.0 |
|---|---|---|---|---|---|---|
| | Socket | readBoolean | 9 | | Yes | 5.0 |
| | Socket | readByte | 9 | | Yes | 5.0 |
| | Socket | readBytes | 9 | | Yes | 5.0 |
| | Socket | readDouble | 9 | | Yes | 5.0 |
| | Socket | readFloat | 9 | | Yes | 5.0 |
| | Socket | readInt | 9 | | Yes | 5.0 |
| | Socket | readMultiByte | 9 | | Yes | 5.0 |
| | Socket | readObject | 9 | | No | TBD |
| | Socket | readShort | 9 | | Yes | 5.0 |
| | Socket | readUnsignedByte | 9 | | Yes | 5.0 |
| | Socket | readUnsignedInt | 9 | | Yes | 5.0 |
| | Socket | readUnsignedShort | 9 | | Yes | 5.0 |
| | Socket | readUTF | 9 | | Yes | 5.0 |
| | Socket | readUTFBytes | 9 | | Yes | 4.2 |
| | Socket | writeBoolean | 9 | | Yes | 4.2 |
| | Socket | writeByte | 9 | | Yes | 4.2 |
| | Socket | writeBytes | 9 | | Yes | 4.2 |
| | Socket | writeDouble | 9 | | Yes | 4.2 |
| | Socket | writeFloat | 9 | | Yes | 4.2 |
| | Socket | writeInt | 9 | | Yes | 4.2 |
| | Socket | writeMultiByte | 9 | | Yes | 4.2 |
| | Socket | writeObject | 9 | | No | TBD |
| | Socket | writeShort | 9 | | Yes | 4.2 |
| | Socket | writeUnsignedInt | 9 | | Yes | 4.2 |
| | Socket | writeUTF | 9 | | Yes | 4.2 |
| | Socket | writeUTFBytes | 9 | | Yes | 4.2 |
| | Socket | close | 9 | Event | Yes | 4.2 |
| | Socket | connect | 9 | Event | Yes | 4.2 |
| | Socket | ioError | 9 | Event | Yes | 4.2 |
| | Socket | securityError | 9 | Event | No | TBD |
| | Socket | socketData | 9 | Event | Yes | 4.2 |
| | | | | | | |
| **flash.net** | **URLLoader** | | **9** | | **Partial** | **GFx 4.0** |
| | URLLoader | bytesLoaded | 9 | | Yes | 4.0 |
| | URLLoader | bytesTotal | 9 | | Yes | 4.0 |
| | URLLoader | data | 9 | | Yes | 4.0 |
| | URLLoader | dataFormat | 9 | | Yes | 4.0 |
| | URLLoader | URLLoader | 9 | | Yes | 4.0 |
| | URLLoader | addEventListener | 9 | | Yes | 4.0 |
| | URLLoader | close | 9 | | No | TBD |
| | URLLoader | load | 9 | | Yes | 4.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | URLLoader | complete | 9 | event | Yes | 4.0 |
| | URLLoader | httpStatus | 9 | event | No | TBD |
| | URLLoader | ioError | 9 | event | Yes | 4.0 |
| | URLLoader | open | 9 | event | Yes | 4.0 |
| | URLLoader | progress | 9 | event | Yes | 4.0 |
| | URLLoader | securityError | 9 | event | No | TBD |
| | | | | | | |
| **flash.net** | **URLLoaderDataFormat** | | **9** | | **Yes** | **GFx 4.0** |
| | URLLoaderDataFormat | BINARY | 9 | | Yes | 4.0 |
| | URLLoaderDataFormat | TEXT | 9 | | Yes | 4.0 |
| | URLLoaderDataFormat | VARIABLES | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.net** | **URLRequest** | | **9** | | **Partial** | **GFx 4.0** |
| | URLRequest | contentType | 9 | | No | TBD |
| | URLRequest | data | 9 | | Yes | 4.0 |
| | URLRequest | digest | 9 | | No | TBD |
| | URLRequest | method | 9 | | No | TBD |
| | URLRequest | requestHeaders | 9 | | No | TBD |
| | URLRequest | url | 9 | | Yes | 4.0 |
| | URLRequest | userAgent | - | | No | 4.0 |
| | URLRequest | URLRequest | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.net** | **URLRequestHeader** | | **9** | | **No** | **TBD** |
| | URLRequestHeader | name | 9 | | No | TBD |
| | URLRequestHeader | value | 9 | | No | TBD |
| | URLRequestHeader | URLRequestHeader | 9 | | No | TBD |
| | | | | | | |
| **flash.net** | **URLRequestMethod** | | **9** | | **No** | **TBD** |
| | URLRequestMethod | GET | 9 | | No | TBD |
| | URLRequestMethod | POST | 9 | | No | TBD |
| | | | | | | |
| **flash.net** | **URLStream** | | **9** | | **No** | **TBD** |
| | URLStream | bytesAvailable | 9 | | No | TBD |
| | URLStream | connected | 9 | | No | TBD |
| | URLStream | endian | 9 | | No | TBD |
| | URLStream | objectEncoding | 9 | | No | TBD |
| | URLStream | close | 9 | | No | TBD |
| | URLStream | load | 9 | | No | TBD |
| | URLStream | readBoolean | 9 | | No | TBD |
| | URLStream | readByte | 9 | | No | TBD |
| | URLStream | readBytes | 9 | | No | TBD |
| | URLStream | readDouble | 9 | | No | TBD |

| | URLStream | readFloat | 9 | | No | | TBD |
|---|---|---|---|---|---|---|---|
| | URLStream | readInt | 9 | | No | | TBD |
| | URLStream | readMultiByte | 9 | | No | | TBD |
| | URLStream | readObject | 9 | | No | | TBD |
| | URLStream | readShort | 9 | | No | | TBD |
| | URLStream | readUnsignedByte | 9 | | No | | TBD |
| | URLStream | readUnsignedInt | 9 | | No | | TBD |
| | URLStream | readUnsignedShort | 9 | | No | | TBD |
| | URLStream | readUTF | 9 | | No | | TBD |
| | URLStream | readUTFBytes | 9 | | No | | TBD |
| | URLStream | complete | 9 | | No | | TBD |
| | URLStream | httpStatus | 9 | | No | | TBD |
| | URLStream | ioError | 9 | | No | | TBD |
| | URLStream | open | 9 | | No | | TBD |
| | URLStream | progress | 9 | | No | | TBD |
| | URLStream | securityError | 9 | | No | | TBD |
| | | | | | | | |
| **flash.net** | **URLVariables** | | **9** | | **Yes** | | **GFx 4.0** |
| | URLVariables | URLVariables | 9 | | Yes | | 4.0 |
| | URLVariables | decode | 9 | | Yes | | 4.0 |
| | URLVariables | toString | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.net** | **XMLSocket** | | **9** | | **No** | | **TBD** |
| | XMLSocket | connected | 9 | | No | | TBD |
| | XMLSocket | timeout | 10 | | No | | TBD |
| | XMLSocket | XMLSocket | 9 | | No | | TBD |
| | XMLSocket | close | 9 | | No | | TBD |
| | XMLSocket | connect | 9 | | No | | TBd |
| | XMLSocket | send | 9 | | No | | TBD |
| | XMLSocket | close | 9 | | No | | TBD |
| | XMLSocket | connect | 9 | | No | | TBD |
| | XMLSocket | data | 9 | | No | | TBD |
| | XMLSocket | ioError | 9 | | No | | TBD |
| | XMLSocket | securityError | 9 | | No | | TBD |
| | | | | | | | |
| **flash.printing** | **PrintJob** | | **9** | | **No** | | **TBD** |
| | PrintJob | orientation | 9 | | No | | TBD |
| | PrintJob | pageHeight | 9 | | No | | TBD |
| | PrintJob | pageWidth | 9 | | No | | TBD |
| | PrintJob | paperHeight | 9 | | No | | TBD |
| | PrintJob | paperWidth | 9 | | No | | TBD |
| | PrintJob | PrintJob | 9 | | No | | TBD |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | PrintJob | addPage | 9 | | No | | TBD |
| | PrintJob | send | 9 | | No | | TBD |
| | PrintJob | start | 9 | | No | | TBD |
| | | | | | | | |
| **flash.printing** | **PrintJobOptions** | | **9** | | **No** | | **TBD** |
| | PrintJobOptions | printAsBitmap | 9 | | No | | TBD |
| | PrintJobOptions | PrintJobOptions | 9 | | No | | TBD |
| | | | | | | | |
| **flash.printing** | **PrintJobOrientation** | | **9** | | **No** | | **TBD** |
| | PrintJobOrientation | LANDSCAPE | 9 | | No | | TBD |
| | PrintJobOrientation | PORTRAIT | 9 | | No | | TBD |
| | | | | | | | |
| **flash.profiler** | **package** | | **9** | | **No** | | **TBD** |
| | package | showRedrawRegions | 9 | | No | | TBD |
| | | | | | | | |
| **flash.sampler** | **DeleteObjectSample** | | **9** | | **No** | | **TBD** |
| | DeleteObjectSample | id | 9 | | No | | TBD |
| | DeleteObjectSample | size | 9 | | No | | TBD |
| | | | | | | | |
| **flash.sampler** | **NewObjectSample** | | **9** | | **No** | | **TBD** |
| | NewObjectSample | object | 9 | | No | | TBD |
| | NewObjectSample | type | 9 | | No | | TBD |
| | | | | | | | |
| **flash.sampler** | **package** | | **9** | | **No** | | **TBD** |
| | package | clearSamples | 9 | | No | | TBD |
| | package | getGetterInvocationCount | 9 | | No | | TBD |
| | package | getInvocationCount | 9 | | No | | TBD |
| | package | getMemberNames | 9 | | No | | TBD |
| | package | getSampleCount | 9 | | No | | TBD |
| | package | getSamples | 9 | | No | | TBD |
| | package | getSetterInvocationCount | 9 | | No | | TBD |
| | package | getSize | 9 | | No | | TBD |
| | package | isGetterSetter | 9 | | No | | TBD |
| | package | pauseSampling | 9 | | No | | TBD |
| | package | startSampling | 9 | | No | | TBD |
| | package | stopSampling | 9 | | No | | TBD |
| | | | | | | | |
| **flash.sampler** | **Sample** | | **9** | | **No** | | **TBD** |
| | Sample | stack | 9 | | No | | TBD |
| | Sample | time | 9 | | No | | TBd |
| | | | | | | | |
| **flash.sampler** | **StackFrame** | | **9** | | **No** | | **TBD** |

| | | | | | | |
|---|---|---|---|---|---|---|
| | StackFrame | toString | 9 | | No | TBD |
| | StackFrame | file | 9 | | No | TBD |
| | StackFrame | line | 9 | | No | TBD |
| | StackFrame | name | 9 | | No | TBD |
| | | | | | | |
| **flash.system** | **ApplicationDomain** | | **9** | | **Yes** | **GFx 4.2** |
| | ApplicationDomain | currentDomain | 9 | | Yes | 4.2 |
| | ApplicationDomain | domainMemory | 10 | | No | TBD |
| | ApplicationDomain | MIN_DOMAIN_MEMORY_LENGTH | 10 | | No | TBD |
| | ApplicationDomain | parentDomain | 9 | | Yes | 4.2 |
| | ApplicationDomain | ApplicationDomain | 9 | | Yes | 4.2 |
| | ApplicationDomain | getDefinition | 9 | | Yes | 4.2 |
| | ApplicationDomain | hasDefinition | 9 | | Yes | 4.2 |
| | | | | | | |
| **flash.system** | **Capabilities** | | **9** | | **Partial** | **GFx 4.0** |
| | Capabilities | avHardwareDisable | 9 | | No | TBD |
| | Capabilities | hasAccessibility | 9 | | No | TBD |
| | Capabilities | hasAudio | 9 | | No | TBD |
| | Capabilities | hasAudioEncoder | 9 | | No | TBD |
| | Capabilities | hasEmbeddedVideo | 9 | | No | TBD |
| | Capabilities | hasIME | 9 | | No | TBD |
| | Capabilities | hasMP3 | 9 | | No | TBD |
| | Capabilities | hasPrinting | 9 | | No | TBD |
| | Capabilities | hasScreenBroadcast | 9 | | No | TBD |
| | Capabilities | hasScreenPlayback | 9 | | No | TBD |
| | Capabilities | hasStreamingAudio | 9 | | No | TBD |
| | Capabilities | hasStreamingVideo | 9 | | No | TBD |
| | Capabilities | hasTLS | 9 | | No | TBD |
| | Capabilities | hasVideoEncoder | 9 | | No | TBD |
| | Capabilities | isDebugger | 9 | | Yes | 4.0 |
| | Capabilities | isEmbeddedInAcrobat | 9 | | No | TBD |
| | Capabilities | language | 9 | | No | TBD |
| | Capabilities | localFileReadDisable | 9 | | No | TBD |
| | Capabilities | manufacturer | 9 | | No | TBD |
| | Capabilities | maxLevelIDC | 10 | | No | TBD |
| | Capabilities | os | 9 | | Yes | 4.0 |
| | Capabilities | pixelAspectRatio | 9 | | No | TBD |
| | Capabilities | playerType | 9 | | No | TBD |
| | Capabilities | screenColor | 9 | | No | TBD |
| | Capabilities | screenDPI | 9 | | No | TBD |
| | Capabilities | screenResolutionX | 9 | | No | TBD |
| | Capabilities | screenResolutionY | 9 | | No | TBD |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Capabilities | serverString | 9 | | No | | TBD |
| | Capabilities | supports32BitProcesses | 10 | | No | | TBD |
| | Capabilities | supports64BitProcesses | 10 | | No | | TBD |
| | Capabilities | version | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.system** | **IME** | | **9** | | **No** | | **TBD** |
| | IME | conversionMode | 9 | | No | | TBD |
| | IME | enabled | 9 | | No | | TBD |
| | IME | doConversion | 9 | | No | | TBD |
| | IME | setCompositionString | 9 | | No | | TBD |
| | IME | imeComposition | 9 | | No | | TBD |
| | | | | | | | |
| **flash.system** | **IMEConversionMode** | | **9** | | **No** | | **TBD** |
| | IMEConversionMode | ALPHANUMERIC_FULL | 9 | | No | | TBD |
| | IMEConversionMode | ALPHANUMERIC_HALF | 9 | | No | | TBD |
| | IMEConversionMode | CHINESE | 9 | | No | | TBD |
| | IMEConversionMode | JAPANESE_HIRAGANA | 9 | | No | | TBD |
| | IMEConversionMode | JAPANESE_KATAKANA_FULL | 9 | | No | | TBD |
| | IMEConversionMode | JAPANESE_KATAKANA_HALF | 9 | | No | | TBD |
| | IMEConversionMode | KOREAN | 9 | | No | | TBD |
| | IMEConversionMode | UNKNOWN | 9 | | No | | TBD |
| | | | | | | | |
| **flash.system** | **JPEGLoaderContext** | | **10** | | **No** | | **TBD** |
| | JPEGLoaderContext | deblockingFilter | 10 | | No | | TBD |
| | JPEGLoaderContext | JPEGLoaderContext | 10 | | No | | TBD |
| | | | | | | | |
| **flash.system** | **LoaderContext** | | **9** | | **Partial** | | **GFx 4.0** |
| | LoaderContext | applicationDomain | 9 | | Yes | | 4.2 |
| | LoaderContext | checkPolicyFile | 9 | | No | | 4.0 |
| | LoaderContext | LoaderContext | 9 | | Yes | | 4.2 |
| | LoaderContext | package | 10 | | No | | TBD |
| | LoaderContext | fscommand | 9 | | No | | TBD |
| | | | | | | | |
| **flash.system** | **Security** | | **9** | | **No** | | **TBD** |
| | Security | exactSettings | 9 | | No | | TBD |
| | Security | sandboxType | 9 | | No | | TBD |
| | Security | allowDomain | 9 | | No | | TBD |
| | Security | allowInsecureDomain | 9 | | No | | TBD |
| | Security | loadPolicyFile | 9 | | No | | TBD |
| | Security | showSettings | 9 | | No | | TBD |
| | Security | LOCAL_TRUSTED | 9 | | No | | TBD |
| | Security | LOCAL_WITH_FILE | 9 | | No | | TBD |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Security | LOCAL_WITH_NETWORK | 9 | | No | TBD |
| | Security | REMOTE | 9 | | No | TBD |
| | | | | | | |
| **flash.system** | **SecurityDomain** | | **9** | | **No** | **TBD** |
| | SecurityDomain | currentDomain | 9 | | No | TBD |
| | | | | | | |
| **flash.system** | **SecurityPanel** | | **9** | | **No** | **TBD** |
| | SecurityPanel | CAMERA | 9 | | No | TBD |
| | SecurityPanel | DEFAULT | 9 | | No | TBD |
| | SecurityPanel | DISPLAY | 9 | | No | TBD |
| | SecurityPanel | LOCAL_STORAGE | 9 | | No | TBD |
| | SecurityPanel | MICROPHONE | 9 | | No | TBD |
| | SecurityPanel | PRIVACY | 9 | | No | TBD |
| | SecurityPanel | SETTINGS_MANAGER | 9 | | No | TBD |
| | | | | | | |
| **flash.system** | **System** | | **9** | | **Partial** | **GFx 4.0** |
| | System | ime | 9 | | No | TBD |
| | System | totalMemory | 9 | | Yes | 4.0 |
| | System | useCodePage | 9 | | Yes | 4.0 |
| | System | exit | 9 | | Yes | 4.0 |
| | System | gc | 9 | | Yes | 4.0 |
| | System | pause | 9 | | No | TBD |
| | System | resume | 9 | | No | TBD |
| | System | setClipboard | 9 | | No | TBD |
| | | | | | | |
| **flash.text** | **AntiAliasType** | | **9** | | **No** | **TBD** |
| | AntiAliasType | ADVANCED | 9 | | No | TBD |
| | AntiAliasType | NORMAL | 9 | | No | TBD |
| | | | | | | |
| **flash.text** | **CSMSettings** | | **9** | | **No** | **TBD** |
| | CSMSettings | fontSize | 9 | | No | TBD |
| | CSMSettings | insideCutoff | 9 | | No | TBD |
| | CSMSettings | outsideCutoff | 9 | | No | TBD |
| | CSMSettings | CSMSettings | 9 | | No | TBD |
| | | | | | | |
| **flash.text** | **Font** | | **9** | | **Yes** | **GFx 4.0** |
| | Font | fontName | 9 | | Yes | 4.0 |
| | Font | fontStyle | 9 | | Yes | 4.0 |
| | Font | fontType | 9 | | Yes | 4.0 |
| | Font | enumerateFonts | 9 | | Yes | 4.0.13 |
| | Font | hasGlyphs | 9 | | Yes | 4.0 |
| | Font | registerFont | 9 | | Yes | 4.0.13 |

| flash.text | FontStyle | | **9** | | **Yes** | | **GFx 4.0** |
|---|---|---|---|---|---|---|---|
| | FontStyle | BOLD | 9 | | Yes | | 4.0 |
| | FontStyle | BOLD_ITALIC | 9 | | Yes | | 4.0 |
| | FontStyle | ITALIC | 9 | | Yes | | 4.0 |
| | FontStyle | REGULAR | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.text** | **FontType** | | **9** | | **Partial** | | **GFx 4.0** |
| | FontType | DEVICE | 9 | | Yes | | 4.0 |
| | FontType | EMBEDDED | 9 | | Yes | | 4.0 |
| | FontType | EMBEDDED_CFF | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text** | **GridFitType** | | **9** | | **No** | | **TBD** |
| | GridFitType | NONE | 9 | | No | | TBD |
| | GridFitType | PIXEL | 9 | | No | | TBD |
| | GridFitType | SUBPIXEL | 9 | | No | | TBD |
| | | | | | | | |
| **flash.text** | **StaticText** | | **9** | | **Yes** | | **GFx 4.0** |
| | StaticText | text | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.text** | **StyleSheet** | | **9** | | **Yes** | | **GFx 4.0** |
| | StyleSheet | styleNames | 9 | | Yes | | 4.0 |
| | StyleSheet | StyleSheet | 9 | | Yes | | 4.0 |
| | StyleSheet | clear | 9 | | Yes | | 4.0 |
| | StyleSheet | getStyle | 9 | | Yes | | 4.0 |
| | StyleSheet | parseCSS | 9 | | Yes | | 4.0 |
| | StyleSheet | setStyle | 9 | | Yes | | 4.0 |
| | StyleSheet | transform | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.text** | **TextColorType** | | **9** | | **No** | | **TBD** |
| | TextColorType | DARK_COLOR | 9 | | No | | TBD |
| | TextColorType | LIGHT_COLOR | 9 | | No | | TBD |
| | | | | | | | |
| **flash.text** | **TextDisplayMode** | | **9** | | **No** | | **TBD** |
| | TextDisplayMode | CRT | 9 | | No | | TBD |
| | TextDisplayMode | DEFAULT | 9 | | No | | TBD |
| | TextDisplayMode | LCD | 9 | | No | | TBD |
| | | | | | | | |
| **flash.text** | TextExtent | | **9** | | **No** | | **TBD** |
| | | | | | | | |
| **flash.text** | **TextField** | alwaysShowSelection | **9** | | **Partial** | | **GFx 4.0** |
| | TextField | antiAliasType | 9 | | Yes | | 4.0 |

| | TextField | autoSize | 9 | | Yes | | 4.0 |
|---|---|---|---|---|---|---|---|
| | TextField | background | 9 | | Yes | | 4.0 |
| | TextField | backgroundColor | 9 | | Yes | | 4.0 |
| | TextField | border | 9 | | Yes | | 4.0 |
| | TextField | borderColor | 9 | | Yes | | 4.0 |
| | TextField | bottomScrollV | 9 | | Yes | | 4.0 |
| | TextField | caretIndex | 9 | | Yes | | 4.0 |
| | TextField | condenseWhite | 9 | | Yes | | 4.0 |
| | TextField | defaultTextFormat | 9 | | Yes | | 4.0 |
| | TextField | displayAsPassword | 9 | | Yes | | 4.0 |
| | TextField | embedFonts | 9 | | Yes | | 4.0 |
| | TextField | gridFitType | 9 | | No | | TBD |
| | TextField | htmlText | 9 | | Yes | | 4.0 |
| | TextField | length | 9 | | Yes | | 4.0 |
| | TextField | maxChars | 9 | | Yes | | 4.0 |
| | TextField | maxScrollH | 9 | | Yes | | 4.0 |
| | TextField | maxScrollV | 9 | | Yes | | 4.0 |
| | TextField | mouseWheelEnabled | 9 | | Yes | | 4.0 |
| | TextField | multiline | 9 | | Yes | | 4.0 |
| | TextField | numLines | 9 | | Yes | | 4.0 |
| | TextField | restrict | 9 | | Yes | | 4.0 |
| | TextField | scrollH | 9 | | Yes | | 4.0 |
| | TextField | scrollV | 9 | | Yes | | 4.0 |
| | TextField | selectable | 9 | | Yes | | 4.0 |
| | TextField | selectionBeginIndex | 9 | | Yes | | 4.0 |
| | TextField | selectionEndIndex | 9 | | Yes | | 4.0 |
| | TextField | sharpness | 9 | | No | | TBD |
| | TextField | styleSheet | 9 | | No | | TBD |
| | TextField | text | 9 | | Yes | | 4.0 |
| | TextField | textColor | 9 | | Yes | | 4.0 |
| | TextField | textHeight | 9 | | Yes | | 4.0 |
| | TextField | textWidth | 9 | | Yes | | 4.0 |
| | TextField | thickness | 9 | | No | | TBD |
| | TextField | type | 9 | | Yes | | 4.0 |
| | TextField | useRichTextClipboard | 9 | | Yes | | 4.0 |
| | TextField | wordWrap | 9 | | Yes | | 4.0 |
| | TextField | TextField | 9 | | Yes | | 4.0 |
| | TextField | appendText | 9 | | Yes | | 4.0 |
| | TextField | getCharBoundaries | 9 | | Yes | | 4.0 |
| | TextField | getCharIndexAtPoint | 9 | | Yes | | 4.0 |
| | TextField | getFirstCharInParagraph | 9 | | Yes | | 4.0 |
| | TextField | getImageReference | 9 | | No | | TBD |

| | | | | | | |
|---|---|---|---|---|---|---|
| | TextField | getLineIndexAtPoint | 9 | | Yes | 4.0 |
| | TextField | getLineIndexOfChar | 9 | | Yes | 4.0 |
| | TextField | getLineLength | 9 | | Yes | 4.0 |
| | TextField | getLineMetrics | 9 | | Yes | 4.0 |
| | TextField | getLineOffset | 9 | | Yes | 4.0 |
| | TextField | getLineText | 9 | | Yes | 4.0 |
| | TextField | getParagraphLength | 9 | | Yes | 4.0 |
| | TextField | getTextFormat | 9 | | Yes | 4.0 |
| | TextField | isFontCompatible | 10 | | No | TBD |
| | TextField | replaceSelectedText | 9 | | Yes | 4.0 |
| | TextField | replaceText | 9 | | Yes | 4.0 |
| | TextField | setSelection | 9 | | Yes | 4.0 |
| | TextField | setTextFormat | 9 | | Yes | 4.0 |
| | TextField | change | 9 | Event | Yes | 4.0 |
| | TextField | link | 9 | Event | Yes | 4.0 |
| | TextField | scroll | 9 | Event | Yes | 4.0 |
| | TextField | textInput | 9 | Event | Yes | 4.0 |
| | | | | | | |
| **flash.text** | **TextFieldAutoSize** | | **9** | | **Yes** | **GFx 4.0** |
| | TextFieldAutoSize | CENTER | 9 | | Yes | 4.0 |
| | TextFieldAutoSize | LEFT | 9 | | Yes | 4.0 |
| | TextFieldAutoSize | NONE | 9 | | Yes | 4.0 |
| | TextFieldAutoSize | RIGHT | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.text** | **TextFieldType** | | **9** | | **Yes** | **GFx 4.0** |
| | TextFieldType | DYNAMIC | 9 | | Yes | 4.0 |
| | TextFieldType | INPUT | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.text** | **TextFormat** | | **9** | | **Yes** | **GFx 4.0** |
| | TextFormat | align | 9 | | Yes | 4.0 |
| | TextFormat | blockIndent | 9 | | Yes | 4.0 |
| | TextFormat | bold | 9 | | Yes | 4.0 |
| | TextFormat | bullet | 9 | | Yes | 4.0 |
| | TextFormat | color | 9 | | Yes | 4.0 |
| | TextFormat | font | 9 | | Yes | 4.0 |
| | TextFormat | indent | 9 | | Yes | 4.0 |
| | TextFormat | italic | 9 | | Yes | 4.0 |
| | TextFormat | kerning | 9 | | Yes | 4.0 |
| | TextFormat | leading | 9 | | Yes | 4.0 |
| | TextFormat | leftMargin | 9 | | Yes | 4.0 |
| | TextFormat | letterSpacing | 9 | | Yes | 4.0 |
| | TextFormat | rightMargin | 9 | | Yes | 4.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | TextFormat | size | 9 | | Yes | 4.0 |
| | TextFormat | tabStops | 9 | | Yes | 4.0 |
| | TextFormat | target | 9 | | Yes | 4.0 |
| | TextFormat | underline | 9 | | Yes | 4.0 |
| | TextFormat | url | 9 | | Yes | 4.0 |
| | TextFormat | TextFormat | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.text** | **TextFormatAlign** | | **9** | | **Yes** | **GFx 4.0** |
| | TextFormatAlign | CENTER | 9 | | Yes | 4.0 |
| | TextFormatAlign | JUSTIFY | 9 | | Yes | 4.0 |
| | TextFormatAlign | LEFT | 9 | | Yes | 4.0 |
| | TextFormatAlign | RIGHT | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.text** | **TextLineMetrics** | | | | **Yes** | **GFx 4.0** |
| | TextLineMetrics | ascent | 9 | | Yes | 4.0 |
| | TextLineMetrics | descent | 9 | | Yes | 4.0 |
| | TextLineMetrics | height | 9 | | Yes | 4.0 |
| | TextLineMetrics | leading | 9 | | Yes | 4.0 |
| | TextLineMetrics | width | 9 | | Yes | 4.0 |
| | TextLineMetrics | x | 9 | | Yes | 4.0 |
| | TextLineMetrics | TextLineMetrics | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.text** | **TextRenderer** | | **9** | | **No** | **GFx 4.0** |
| | TextRenderer | displayMode | 9 | | No | 4.0 |
| | TextRenderer | maxLevel | 9 | | No | 4.0 |
| | TextRenderer | setAdvancedAntiAliasingTable | 9 | | No | 4.0 |
| | | | | | | |
| **flash.text** | **TextSnapshot** | | **9** | | **Yes** | **GFx 4.0** |
| | TextSnapshot | charCount | 9 | | Yes | 4.0 |
| | TextSnapshot | findText | 9 | | Yes | 4.0 |
| | TextSnapshot | getSelected | 9 | | Yes | 4.0 |
| | TextSnapshot | getSelectedText | 9 | | Yes | 4.0 |
| | TextSnapshot | getText | 9 | | Yes | 4.0 |
| | TextSnapshot | getTextRunInfo | 9 | | Yes | 4.0 |
| | TextSnapshot | hitTestTextNearPos | 9 | | Yes | 4.0 |
| | TextSnapshot | setSelectColor | 9 | | Yes | 4.0 |
| | TextSnapshot | setSelected | 9 | | Yes | 4.0 |
| | | | | | | |
| **flash.text.engine** | **BreakOpportunity** | | **10** | | **No** | **TBD** |
| | BreakOpportunity | ALL | 10 | | No | TBD |
| | BreakOpportunity | ANY | 10 | | No | TBD |
| | BreakOpportunity | AUTO | 10 | | No | TBD |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | BreakOpportunity | NONE | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text.engine** | **CFFHinting** | | **10** | | **No** | | **TBD** |
| | CFFHinting | HORIZONTAL_STEM | 10 | | No | | TBD |
| | CFFHinting | NONE | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text.engine** | **ContentElement** | | **10** | | **No** | | **TBD** |
| | ContentElement | elementFormat | 10 | | No | | TBD |
| | ContentElement | eventMirror | 10 | | No | | TBD |
| | ContentElement | groupElement | 10 | | No | | TBD |
| | ContentElement | rawText | 10 | | No | | TBD |
| | ContentElement | text | 10 | | No | | TBD |
| | ContentElement | textBlock | 10 | | No | | TBD |
| | ContentElement | textBlockBeginIndex | 10 | | No | | TBD |
| | ContentElement | textRotation | 10 | | No | | TBD |
| | ContentElement | userData | 10 | | No | | TBD |
| | ContentElement | ContentElement | 10 | | No | | TBD |
| | ContentElement | GRAPHIC_ELEMENT | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text.engine** | **DigitCase** | | **10** | | **No** | | **TBD** |
| | DigitCase | DEFAULT | 10 | | No | | TBD |
| | DigitCase | LINING | 10 | | No | | TBD |
| | DigitCase | OLD_STYLE | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text.engine** | **DigitWidth** | | **10** | | **No** | | **TBD** |
| | DigitWidth | DEFAULT | 10 | | No | | TBD |
| | DigitWidth | PROPORTIONAL | 10 | | No | | TBD |
| | DigitWidth | TABULAR | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text.engine** | **EastAsianJustifier** | | **10** | | **No** | | **TBD** |
| | EastAsianJustifier | justificationStyle | 10 | | No | | TBD |
| | EastAsianJustifier | EastAsianJustifier | 10 | | No | | TBD |
| | EastAsianJustifier | clone | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text.engine** | **ElementFormat** | | **10** | | **No** | | **TBD** |
| | ElementFormat | alignmentBaseline | 10 | | No | | TBD |
| | ElementFormat | alpha | 10 | | No | | TBD |
| | ElementFormat | baselineShift | 10 | | No | | TBD |
| | ElementFormat | breakOpportunity | 10 | | No | | TBD |
| | ElementFormat | color | 10 | | No | | TBD |
| | ElementFormat | digitCase | 10 | | No | | TBD |
| | ElementFormat | digitWidth | 10 | | No | | TBD |

| | ElementFormat | dominantBaseline | 10 | | No | | TBD |
|---|---|---|---|---|---|---|---|
| | ElementFormat | fontDescription | 10 | | No | | TBD |
| | ElementFormat | fontSize | 10 | | No | | TBD |
| | ElementFormat | kerning | 10 | | No | | TBD |
| | ElementFormat | ligatureLevel | 10 | | No | | TBD |
| | ElementFormat | locale | 10 | | No | | TBD |
| | ElementFormat | locked | 10 | | No | | TBD |
| | ElementFormat | textRotation | 10 | | No | | TBD |
| | ElementFormat | trackingLeft | 10 | | No | | TBD |
| | ElementFormat | trackingRight | 10 | | No | | TBD |
| | ElementFormat | typographicCase | 10 | | No | | TBD |
| | ElementFormat | ElementFormat | 10 | | No | | TBD |
| | ElementFormat | clone | 10 | | No | | TBD |
| | ElementFormat | getFontMetrics | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text.engine** | **FontDescription** | | **10** | | **No** | | **TBD** |
| | FontDescription | cffHinting | 10 | | No | | TBD |
| | FontDescription | fontLookup | 10 | | No | | TBD |
| | FontDescription | fontName | 10 | | No | | TBD |
| | FontDescription | fontPosture | 10 | | No | | TBD |
| | FontDescription | fontWeight | 10 | | No | | TBD |
| | FontDescription | locked | 10 | | No | | TBD |
| | FontDescription | renderingMode | 10 | | No | | TBD |
| | FontDescription | FontDescription | 10 | | No | | TBD |
| | FontDescription | clone | 10 | | No | | TBD |
| | FontDescription | isFontCompatible | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text.engine** | **FontLookup** | | **10** | | **No** | | **TBD** |
| | FontLookup | DEVICE | 10 | | No | | TBD |
| | FontLookup | EMBEDDED_CFF | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text.engine** | **FontMetrics** | | **10** | | **No** | | **TBD** |
| | FontMetrics | emBox | 10 | | No | | TBD |
| | FontMetrics | strikethroughOffset | 10 | | No | | TBD |
| | FontMetrics | strikethroughThickness | 10 | | No | | TBD |
| | FontMetrics | subscriptOffset | 10 | | No | | TBD |
| | FontMetrics | subscriptScale | 10 | | No | | TBD |
| | FontMetrics | superscriptOffset | 10 | | No | | TBD |
| | FontMetrics | superscriptScale | 10 | | No | | TBD |
| | FontMetrics | underlineOffset | 10 | | No | | TBD |
| | FontMetrics | underlineThickness | 10 | | No | | TBD |
| | FontMetrics | FontMetrics | 10 | | No | | TBD |

| flash.text.engine | FontPosture | | 10 | | No | | TBD |
|---|---|---|---|---|---|---|---|
| | FontPosture | ITALIC | 10 | | No | | TBD |
| | FontPosture | NORMAL | 10 | | No | | TBD |
| | | | | | | | |
| flash.text.engine | FontWeight | | 10 | | No | | TBD |
| | FontWeight | BOLD | 10 | | No | | TBD |
| | FontWeight | NORMAL | 10 | | No | | TBD |
| | | | | | | | |
| flash.text.engine | GraphicElement | | 10 | | No | | TBD |
| | GraphicElement | elementHeight | 10 | | No | | TBD |
| | GraphicElement | elementWidth | 10 | | No | | TBD |
| | GraphicElement | graphic | 10 | | No | | TBD |
| | GraphicElement | GraphicElement | 10 | | No | | TBD |
| | | | | | | | |
| flash.text.engine | GroupElement | | 10 | | No | | TBD |
| | GroupElement | elementCount | 10 | | No | | TBD |
| | GroupElement | GroupElement | 10 | | No | | TBD |
| | GroupElement | getElementAt | 10 | | No | | TBD |
| | GroupElement | getElementAtCharIndex | 10 | | No | | TBD |
| | GroupElement | getElementIndex | 10 | | No | | TBD |
| | GroupElement | groupElements | 10 | | No | | TBD |
| | GroupElement | mergeTextElements | 10 | | No | | TBD |
| | GroupElement | replaceElements | 10 | | No | | TBD |
| | GroupElement | setElements | 10 | | No | | TBD |
| | GroupElement | splitTextElement | 10 | | No | | TBD |
| | GroupElement | ungroupElements | 10 | | No | | TBD |
| | | | | | | | |
| flash.text.engine | JustificationStyle | | 10 | | No | | TBD |
| | JustificationStyle | PRIORITIZE_LEAST_ADJUSTMENT | 10 | | No | | TBD |
| | JustificationStyle | PUSH_IN_KINSOKU | 10 | | No | | TBD |
| | JustificationStyle | PUSH_OUT_ONLY | 10 | | No | | TBD |
| | | | | | | | |
| flash.text.engine | Kerning | | 10 | | No | | TBD |
| | Kerning | AUTO | 10 | | No | | TBD |
| | Kerning | OFF | 10 | | No | | TBD |
| | Kerning | ON | 10 | | No | | TBD |
| | | | | | | | |
| flash.text.engine | LigatureLevel | | 10 | | No | | TBD |
| | LigatureLevel | COMMON | 10 | | No | | TBD |
| | LigatureLevel | EXOTIC | 10 | | No | | TBD |
| | LigatureLevel | MINIMUM | 10 | | No | | TBD |

| | | | | | | |
|---|---|---|---|---|---|---|
| | LigatureLevel | NONE | 10 | | No | TBD |
| | LigatureLevel | UNCOMMON | 10 | | No | TBD |
| | | | | | | |
| **flash.text.engine** | **LineJustification** | | **10** | | **No** | **TBD** |
| | LineJustification | ALL_BUT_LAST | 10 | | No | TBD |
| | LineJustification | ALL_INCLUDING_LAST | 10 | | No | TBD |
| | LineJustification | UNJUSTIFIED | 10 | | No | TBD |
| | | | | | | |
| **flash.text.engine** | **RenderingMode** | | **10** | | **No** | **TBD** |
| | RenderingMode | CFF | 10 | | No | TBD |
| | RenderingMode | NORMAL | 10 | | No | TBD |
| | | | | | | |
| **flash.text.engine** | **SpaceJustifier** | | **10** | | **No** | **TBD** |
| | SpaceJustifier | letterSpacing | 10 | | No | TBD |
| | SpaceJustifier | SpaceJustifier | 10 | | No | TBD |
| | SpaceJustifier | clone | 10 | | No | TBD |
| | | | | | | |
| **flash.text.engine** | **TabAlignment** | | **10** | | **No** | **TBD** |
| | TabAlignment | CENTER | 10 | | No | TBD |
| | TabAlignment | DECIMAL | 10 | | No | TBD |
| | TabAlignment | END | 10 | | No | TBD |
| | TabAlignment | START | 10 | | No | TBD |
| | | | | | | |
| **flash.text.engine** | **TabStop** | | **10** | | **No** | **TBD** |
| | TabStop | alignment | 10 | | No | TBD |
| | TabStop | decimalAlignmentToken | 10 | | No | TBD |
| | TabStop | position | 10 | | No | TBD |
| | TabStop | TabStop | 10 | | No | TBD |
| | | | | | | |
| **flash.text.engine** | **TextBaseline** | | **10** | | **No** | **TBD** |
| | TextBaseline | ASCENT | 10 | | No | TBD |
| | TextBaseline | DESCENT | 10 | | No | TBD |
| | TextBaseline | IDEOGRAPHIC_BOTTOM | 10 | | No | TBD |
| | TextBaseline | IDEOGRAPHIC_CENTER | 10 | | No | TBD |
| | TextBaseline | IDEOGRAPHIC_TOP | 10 | | No | TBD |
| | TextBaseline | ROMAN | 10 | | No | TBD |
| | TextBaseline | USE_DOMINANT_BASELINE | 10 | | No | TBD |
| | | | | | | |
| **flash.text.engine** | **TextBlock** | | **10** | | **No** | **TBD** |
| | TextBlock | applyNonLinearFontScaling | 10 | | No | TBD |
| | TextBlock | baselineFontDescription | 10 | | No | TBD |
| | TextBlock | baselineFontSize | 10 | | No | TBD |

| | TextBlock | baselineZero | 10 | | No | | TBD |
|---|---|---|---|---|---|---|---|
| | TextBlock | bidiLevel | 10 | | No | | TBD |
| | TextBlock | content | 10 | | No | | TBD |
| | TextBlock | firstInvalidLine | 10 | | No | | TBD |
| | TextBlock | firstLine | 10 | | No | | TBD |
| | TextBlock | lastLine | 10 | | No | | TBD |
| | TextBlock | lineRotation | 10 | | No | | TBD |
| | TextBlock | tabStops | 10 | | No | | TBD |
| | TextBlock | textJustifier | 10 | | No | | TBD |
| | TextBlock | textLineCreationResult | 10 | | No | | TBD |
| | TextBlock | userData | 10 | | No | | TBD |
| | TextBlock | TextBlock | 10 | | No | | TBD |
| | TextBlock | createTextLine | 10 | | No | | TBD |
| | TextBlock | dump | 10 | | No | | TBD |
| | TextBlock | findNextAtomBoundary | 10 | | No | | TBD |
| | TextBlock | findNextWordBoundary | 10 | | No | | TBD |
| | TextBlock | findPreviousAtomBoundary | 10 | | No | | TBD |
| | TextBlock | findPreviousWordBoundary | 10 | | No | | TBD |
| | TextBlock | getTextLineAtCharIndex | 10 | | No | | TBD |
| | TextBlock | releaseLines | 10 | | No | | TBd |
| | | | | | | | |
| **flash.text.engine** | **TextElement** | | **10** | | **No** | | **TBD** |
| | TextElement | text | 10 | | No | | TBD |
| | TextElement | TextElement | 10 | | No | | TBD |
| | TextElement | replaceText | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text.engine** | **TextJustifier** | | **10** | | **No** | | **TBD** |
| | TextJustifier | lineJustification | 10 | | No | | TBD |
| | TextJustifier | locale | 10 | | No | | TBD |
| | TextJustifier | TextJustifier | 10 | | No | | TBD |
| | TextJustifier | clone | 10 | | No | | TBD |
| | TextJustifier | getJustifierForLocale | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text.engine** | **TextLine** | | **10** | | **No** | | **TBD** |
| | TextLine | ascent | 10 | | No | | TBD |
| | TextLine | atomCount | 10 | | No | | TBD |
| | TextLine | descent | 10 | | No | | TBD |
| | TextLine | hasGraphicElement | 10 | | No | | TBD |
| | TextLine | mirrorRegions | 10 | | No | | TBD |
| | TextLine | nextLine | 10 | | No | | TBD |
| | TextLine | previousLine | 10 | | No | | TBD |
| | TextLine | rawTextLength | 10 | | No | | TBD |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | TextLine | specifiedWidth | 10 | | No | | TBD |
| | TextLine | textBlock | 10 | | No | | TBD |
| | TextLine | textBlockBeginIndex | 10 | | No | | TBD |
| | TextLine | textHeight | 10 | | No | | TBD |
| | TextLine | textWidth | 10 | | No | | TBD |
| | TextLine | unjustifiedTextWidth | 10 | | No | | TBD |
| | TextLine | userData | 10 | | No | | TBD |
| | TextLine | validity | 10 | | No | | TBD |
| | TextLine | dump | 10 | | No | | TBD |
| | TextLine | flushAtomData | 10 | | No | | TBD |
| | TextLine | getAtomBidiLevel | 10 | | No | | TBD |
| | TextLine | getAtomBounds | 10 | | No | | TBD |
| | TextLine | getAtomCenter | 10 | | No | | TBD |
| | TextLine | getAtomGraphic | 10 | | No | | TBD |
| | TextLine | getAtomIndexAtCharIndex | 10 | | No | | TBD |
| | TextLine | getAtomIndexAtPoint | 10 | | No | | TBD |
| | TextLine | getAtomTextBlockBeginIndex | 10 | | No | | TBD |
| | TextLine | getAtomTextBlockEndIndex | 10 | | No | | TBD |
| | TextLine | getAtomTextRotation | 10 | | No | | TBD |
| | TextLine | getAtomWordBoundaryOnLeft | 10 | | No | | TBD |
| | TextLine | getBaselinePosition | 10 | | No | | TBD |
| | TextLine | getMirrorRegion | 10 | | No | | TBD |
| | TextLine | MAX_LINE_WIDTH | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text.engine** | **TextLineCreationResult** | | **10** | | **No** | | **TBD** |
| | TextLineCreationResult | COMPLETE | 10 | | No | | TBD |
| | TextLineCreationResult | EMERGENCY | 10 | | No | | TBD |
| | TextLineCreationResult | INSUFFICIENT_WIDTH | 10 | | No | | TBD |
| | TextLineCreationResult | SUCCESS | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text.engine** | **TextLineMirrorRegion** | | **10** | | **No** | | **TBD** |
| | TextLineMirrorRegion | bounds | 10 | | No | | TBD |
| | TextLineMirrorRegion | element | 10 | | No | | TBD |
| | TextLineMirrorRegion | mirror | 10 | | No | | TBD |
| | TextLineMirrorRegion | nextRegion | 10 | | No | | TBD |
| | TextLineMirrorRegion | previousRegion | 10 | | No | | TBD |
| | TextLineMirrorRegion | textLine | 10 | | No | | TBD |
| | | | | | | | |
| **flash.text.engine** | **TextLineValidity** | | **10** | | **No** | | **TBD** |
| | TextLineValidity | INVALID | 10 | | No | | TBD |
| | TextLineValidity | POSSIBLY_INVALID | 10 | | No | | TBD |
| | TextLineValidity | STATIC | 10 | | No | | TBD |

| | | | | | | |
|---|---|---|---|---|---|---|
| | TextLineValidity | VALID | 10 | | No | TBD |
| | | | | | | |
| **flash.text.engine** | **TextRotation** | | **10** | | **No** | **TBD** |
| | TextRotation | AUTO | 10 | | No | TBD |
| | TextRotation | ROTATE_0 | 10 | | No | TBD |
| | TextRotation | ROTATE_180 | 10 | | No | TBD |
| | TextRotation | ROTATE_270 | 10 | | No | TBD |
| | TextRotation | ROTATE_90 | 10 | | No | TBD |
| | | | | | | |
| **flash.text.engine** | **TypographicCase** | | 10 | | No | **TBD** |
| | TypographicCase | CAPS | 10 | | No | TBD |
| | TypographicCase | CAPS_AND_SMALL_CAPS | 10 | | No | TBD |
| | TypographicCase | DEFAULT | 10 | | No | TBD |
| | TypographicCase | LOWERCASE | 10 | | No | TBD |
| | TypographicCase | SMALL_CAPS | 10 | | No | TBD |
| | TypographicCase | TITLE | 10 | | No | TBD |
| | TypographicCase | UPPERCASE | 10 | | No | TBD |
| | | | | | | |
| **flash.ui** | **ContextMenu** | | **9** | | **Partial** | **TBD** |
| | ContextMenu | builtInItems | 9 | | No | TBD |
| | ContextMenu | clipboardItems | 10 | | No | TBD |
| | ContextMenu | clipboardMenu | 10 | | No | TBD |
| | ContextMenu | customItems | 9 | | No | TBD |
| | ContextMenu | link | 10 | | No | TBD |
| | ContextMenu | ContextMenu | 9 | | No | TBD |
| | ContextMenu | display | 9 | | No | TBD |
| | ContextMenu | hideBuiltInItems | 9 | | No | TBD |
| | ContextMenu | menuSelect | 9 | | No | TBD |
| | | | | | | |
| **flash.ui** | **ContextMenuBuiltInItems** | | **9** | | **Partial** | **TBD** |
| | ContextMenuBuiltInItems | forwardAndBack | 9 | | No | TBD |
| | ContextMenuBuiltInItems | loop | 9 | | No | TBD |
| | ContextMenuBuiltInItems | play | 9 | | No | TBD |
| | ContextMenuBuiltInItems | print | 9 | | No | TBD |
| | ContextMenuBuiltInItems | quality | 9 | | No | TBD |
| | ContextMenuBuiltInItems | rewind | 9 | | No | TBD |
| | ContextMenuBuiltInItems | save | 9 | | No | TBD |
| | ContextMenuBuiltInItems | zoom | 9 | | No | TBD |
| | ContextMenuBuiltInItems | ContextMenuBuiltInItems | 9 | | No | TBD |
| | | | | | | |
| **flash.ui** | **ContextMenuClipboardItems** | | **10** | | **No** | **TBD** |
| | ContextMenuClipboardItems | clear | 10 | | No | TBD |

| | | | | | | |
|---|---|---|---|---|---|---|
| | ContextMenuClipboardItems | copy | 10 | | No | TBD |
| | ContextMenuClipboardItems | cut | 10 | | No | TBD |
| | ContextMenuClipboardItems | paste | 10 | | No | TBD |
| | ContextMenuClipboardItems | selectAll | 10 | | No | TBD |
| | ContextMenuClipboardItems | ContextMenuClipboardItems | 10 | | No | TBD |
| | | | | | | |
| **flash.ui** | **ContextMenuItem** | | **9** | | **No** | **TBD** |
| | ContextMenuItem | caption | 9 | | No | TBD |
| | ContextMenuItem | separatorBefore | 9 | | No | TBD |
| | ContextMenuItem | visible | 9 | | No | TBD |
| | ContextMenuItem | ContextMenuItem | 9 | | No | TBD |
| | ContextMenuItem | menuItemSelect | 9 | | No | TBD |
| | | | | | | |
| **flash.ui** | **Keyboard** | | **9** | | **Partial** | **GFx 4.0** |
| | Keyboard | capsLock | 9 | | Yes | 4.0 |
| | Keyboard | numLock | 9 | | Yes | 4.0 |
| | Keyboard | isAccessible | 9 | | Partial | 4.0 |
| | Keyboard | BACKSPACE | 9 | | Yes | 4.0 |
| | Keyboard | CAPS_LOCK | 9 | | Yes | 4.0 |
| | Keyboard | CharCodeStrings | AIR | | Partial | 4.0 |
| | Keyboard | CONTROL | 9 | | Yes | 4.0 |
| | Keyboard | DELETE | 9 | | Yes | 4.0 |
| | Keyboard | DOWN | 9 | | Yes | 4.0 |
| | Keyboard | END | 9 | | Yes | 4.0 |
| | Keyboard | ENTER | 9 | | Yes | 4.0 |
| | Keyboard | ESCAPE | 9 | | Yes | 4.0 |
| | Keyboard | F1 | 9 | | Yes | 4.0 |
| | Keyboard | F10 | 9 | | Yes | 4.0 |
| | Keyboard | F11 | 9 | | Yes | 4.0 |
| | Keyboard | F12 | 9 | | Yes | 4.0 |
| | Keyboard | F13 | 9 | | Yes | 4.0 |
| | Keyboard | F14 | 9 | | Yes | 4.0 |
| | Keyboard | F15 | 9 | | Yes | 4.0 |
| | Keyboard | F2 | 9 | | Yes | 4.0 |
| | Keyboard | F3 | 9 | | Yes | 4.0 |
| | Keyboard | F4 | 9 | | Yes | 4.0 |
| | Keyboard | F5 | 9 | | Yes | 4.0 |
| | Keyboard | F6 | 9 | | Yes | 4.0 |
| | Keyboard | F7 | 9 | | Yes | 4.0 |
| | Keyboard | F8 | 9 | | Yes | 4.0 |
| | Keyboard | F9 | 9 | | Yes | 4.0 |
| | Keyboard | G | 9 | | Yes | 4.0 |

| | Keyboard | HOME | 9 | | Yes | | 4.0 |
|---|---|---|---|---|---|---|---|
| | Keyboard | INSERT | 9 | | Yes | | 4.0 |
| | Keyboard | LEFT | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_0 | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_1 | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_2 | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_3 | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_4 | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_5 | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_6 | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_7 | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_8 | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_9 | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_ADD | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_DECIMAL | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_DIVIDE | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_ENTER | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_MULTIPLY | 9 | | Yes | | 4.0 |
| | Keyboard | NUMPAD_SUBTRACT | 9 | | Yes | | 4.0 |
| | Keyboard | PAGE_DOWN | 9 | | Yes | | 4.0 |
| | Keyboard | PAGE_UP | 9 | | Yes | | 4.0 |
| | Keyboard | RIGHT | 9 | | Yes | | 4.0 |
| | Keyboard | SHIFT | 9 | | Yes | | 4.0 |
| | Keyboard | SPACE | 9 | | Yes | | 4.0 |
| | Keyboard | TAB | 9 | | Yes | | 4.0 |
| | Keyboard | UP | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.ui** | **KeyLocation** | | **9** | | **Yes** | | **GFx 4.0** |
| | KeyLocation | LEFT | 9 | | Yes | | 4.0 |
| | KeyLocation | NUM_PAD | 9 | | Yes | | 4.0 |
| | KeyLocation | RIGHT | 9 | | Yes | | 4.0 |
| | KeyLocation | STANDARD | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.ui** | **Mouse** | | 9 | | **Yes** | | **GFx 4.0** |
| | Mouse | cursor | 10 | | Yes | | 4.0 |
| | Mouse | hide | 9 | | Yes | | 4.0 |
| | Mouse | show | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.ui** | **MouseCursor** | | **10** | | **Yes** | | **GFx 4.0** |
| | MouseCursor | ARROW | 10 | | Yes | | 4.0 |
| | MouseCursor | AUTO | 10 | | Yes | | 4.0 |
| | MouseCursor | BUTTON | 10 | | Yes | | 4.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | MouseCursor | HAND | 10 | | Yes | 4.0 |
| | MouseCursor | IBEAM | 10 | | Yes | 4.0 |
| | | | | | | |
| **flash.ui** | **Multitouch** | | **10.1** | | **Yes** | **GFx 4.0** |
| | Multitouch | inputMode | 10.1 | | Yes | 4.0 |
| | Multitouch | maxTouchPoints | 10.1 | | Yes | 4.0 |
| | Multitouch | supportedGestures | 10.1 | | Yes | 4.0 |
| | Multitouch | supportsGestureEvents | 10.1 | | Yes | 4.0 |
| | Multitouch | suppirtsTocuhEvents | 10.1 | | Yes | 4.0 |
| | | | | | | |
| **flash.ui** | **MultitouchInputMode** | | **10.1** | | **Yes** | **GFx 4.0** |
| | MultitouchInputMode | GESTURE | 10.1 | | Yes | 4.0 |
| | MultitouchInputMode | NONE | 10.1 | | Yes | 4.0 |
| | MultitouchInputMode | TOUCH_POINT | 10.1 | | Yes | 4.0 |
| | | | | | | |
| **flash.utils** | **ByteArray** | | **9** | | **Partial** | **GFx 4.0** |
| | ByteArray | bytesAvailable | 9 | | Yes | 4.0 |
| | ByteArray | defaultObjectEncoding | 9 | | Yes | 4.0 |
| | ByteArray | endian | 9 | | Yes | 4.0 |
| | ByteArray | length | 9 | | Yes | 4.0 |
| | ByteArray | objectEncoding | 9 | | Yes | 4.0 |
| | ByteArray | position | 9 | | Yes | 4.0 |
| | ByteArray | ByteArray | 9 | | Yes | 4.0 |
| | ByteArray | clear | 10 | | Yes | 4.0 |
| | ByteArray | compress | 9 | | Partial | Only zlib is supported | 4.0 |
| | ByteArray | deflate | 10 | | No | | TBD |
| | ByteArray | inflate | 10 | | No | | TBD |
| | ByteArray | readBoolean | 9 | | Yes | 4.0 |
| | ByteArray | readByte | 9 | | Yes | 4.0 |
| | ByteArray | readBytes | 9 | | Yes | 4.0 |
| | ByteArray | readDouble | 9 | | Yes | 4.0 |
| | ByteArray | readFloat | 9 | | Yes | 4.0 |
| | ByteArray | readInt | 9 | | Yes | 4.0 |
| | ByteArray | readMultiByte | 9 | | Partial | It supports ascii, utf-8, and utf-16 sets plus aliases | 4.0 |
| | ByteArray | readObject | 9 | | No | | TBD |
| | ByteArray | readShort | 9 | | Yes | 4.0 |
| | ByteArray | readUnsignedByte | 9 | | Yes | 4.0 |
| | ByteArray | readUnsignedInt | 9 | | Yes | 4.0 |
| | ByteArray | readUnsignedShort | 9 | | Yes | 4.0 |
| | ByteArray | readUTF | 9 | | Yes | 4.0 |
| | ByteArray | readUTFBytes | 9 | | Yes | 4.0 |

| | ByteArray | toString | 9 | | Yes | | 4.0 |
|---|---|---|---|---|---|---|---|
| | ByteArray | uncompress | 9 | | Yes | | 4.0 |
| | ByteArray | writeBoolean | 9 | | Yes | | 4.0 |
| | ByteArray | writeByte | 9 | | Yes | | 4.0 |
| | ByteArray | writeBytes | 9 | | Yes | | 4.0 |
| | ByteArray | writeDouble | 9 | | Yes | | 4.0 |
| | ByteArray | writeFloat | 9 | | Yes | | 4.0 |
| | ByteArray | writeInt | 9 | | Yes | | 4.0 |
| | ByteArray | writeMultiByte | 9 | | Partial | It supports ascii, utf-8, and utf-16 sets plus aliases | 4.0 |
| | ByteArray | writeObject | 9 | | No | | TBD |
| | ByteArray | writeShort | 9 | | Yes | | 4.0 |
| | ByteArray | writeUnsignedInt | 9 | | Yes | | 4.0 |
| | ByteArray | writeUTF | 9 | | Yes | | 4.0 |
| | ByteArray | writeUTFBytes | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.utils** | **Dictionary** | | **9** | | **Yes** | | **GFx 4.0** |
| | Dictionary | Dictionary | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.utils** | **Endian** | | **9** | | **Yes** | | **GFx 4.0** |
| | Endian | BIG_ENDIAN | 9 | | Yes | | 4.0 |
| | Endian | LITTLE_ENDIAN | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.utils** | **IDataInput** | | **9** | | **Yes** | **Interface methods have empty bodies** | **GFx 4.0** |
| | IDataInput | bytesAvailable | 9 | | Yes | | 4.0 |
| | IDataInput | endian | 9 | | Yes | | 4.0 |
| | IDataInput | objectEncoding | 9 | | Yes | | 4.0 |
| | IDataInput | readBoolean | 9 | | Yes | | 4.0 |
| | IDataInput | readByte | 9 | | Yes | | 4.0 |
| | IDataInput | readBytes | 9 | | Yes | | 4.0 |
| | IDataInput | readDouble | 9 | | Yes | | 4.0 |
| | IDataInput | readFloat | 9 | | Yes | | 4.0 |
| | IDataInput | readInt | 9 | | Yes | | 4.0 |
| | IDataInput | readMultiByte | 9 | | Yes | | 4.0 |
| | IDataInput | readObject | 9 | | Yes | | 4.0 |
| | IDataInput | readShort | 9 | | Yes | | 4.0 |
| | IDataInput | readUnsignedByte | 9 | | Yes | | 4.0 |
| | IDataInput | readUnsignedInt | 9 | | Yes | | 4.0 |
| | IDataInput | readUnsignedShort | 9 | | Yes | | 4.0 |
| | IDataInput | readUTF | 9 | | Yes | | 4.0 |
| | IDataInput | readUTFBytes | 9 | | Yes | | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **flash.utils** | **IDataOutput** | | **9** | | **Yes** | Interface methods have empty bodies | **GFx 4.0** |
| | IDataOutput | endian | 9 | | Yes | | 4.0 |
| | IDataOutput | objectEncoding | 9 | | Yes | | 4.0 |
| | IDataOutput | writeBoolean | 9 | | Yes | | 4.0 |
| | IDataOutput | writeByte | 9 | | Yes | | 4.0 |
| | IDataOutput | writeBytes | 9 | | Yes | | 4.0 |
| | IDataOutput | writeDouble | 9 | | Yes | | 4.0 |
| | IDataOutput | writeFloat | 9 | | Yes | | 4.0 |
| | IDataOutput | writeInt | 9 | | Yes | | 4.0 |
| | IDataOutput | writeMultiByte | 9 | | Yes | | 4.0 |
| | IDataOutput | writeObject | 9 | | Yes | | 4.0 |
| | IDataOutput | writeShort | 9 | | Yes | | 4.0 |
| | IDataOutput | writeUnsignedInt | 9 | | Yes | | 4.0 |
| | IDataOutput | writeUTF | 9 | | Yes | | 4.0 |
| | IDataOutput | writeUTFBytes | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.utils** | **IExternalizable** | | **9** | | **Yes** | Interface methods have empty bodies | **GFx 4.0** |
| | IExternalizable | readExternal | 9 | | Yes | | 4.0 |
| | IExternalizable | writeExternal | 9 | | Yes | | 4.0 |
| | IExternalizable | clearInterval | 9 | | Yes | | 4.0 |
| | IExternalizable | clearTimeout | 9 | | Yes | | 4.0 |
| | IExternalizable | describeType | 9 | | Partial | Classes implemented in C++ do not have all necessary information. | 4.0 |
| | IExternalizable | escapeMultiByte | 9 | | Yes | | 4.0 |
| | IExternalizable | getDefinitionByName | 9 | | Yes | | 4.0 |
| | IExternalizable | getQualifiedClassName | 9 | | Yes | | 4.0 |
| | IExternalizable | getQualifiedSuperclassName | 9 | | Yes | | 4.0 |
| | IExternalizable | getTimer | 9 | | Yes | | 4.0 |
| | IExternalizable | setInterval | 9 | | Yes | | 4.0 |
| | IExternalizable | setTimeout | 9 | | Yes | | 4.0 |
| | IExternalizable | unescapeMultiByte | 9 | | Yes | | 4.0 |
| | | | | | | | |
| **flash.utils** | **Proxy** | | **9** | | **No** | | **TBD** |
| | Proxy | callProperty | 9 | | No | | TBD |
| | Proxy | deleteProperty | 9 | | No | | TBD |
| | Proxy | getDescendants | 9 | | No | | TBD |
| | Proxy | getProperty | 9 | | No | | TBD |
| | Proxy | hasProperty | 9 | | No | | TBD |
| | Proxy | isAttribute | 9 | | No | | TBD |
| | Proxy | nextName | 9 | | No | | TBD |

| | Proxy | nextNameIndex | 9 | | No | | TBD |
|---|---|---|---|---|---|---|---|
| | Proxy | nextValue | 9 | | No | | TBD |
| | Proxy | setProperty | 9 | | No | | TBD |
| | | | | | | | |
| **flash.utils** | **Timer** | | **9** | | Yes | | **GFx 4.0** |
| | Timer | currentCount | 9 | | Yes | | 4.0 |
| | Timer | delay | 9 | | Yes | | 4.0 |
| | Timer | repeatCount | 9 | | Yes | | 4.0 |
| | Timer | running | 9 | | Yes | | 4.0 |
| | Timer | Timer | 9 | | Yes | | 4.0 |
| | Timer | reset | 9 | | Yes | | 4.0 |
| | Timer | start | 9 | | Yes | | 4.0 |
| | Timer | stop | 9 | | Yes | | 4.0 |
| | Timer | timer | 9 | event | Yes | | 4.0 |
| | Timer | timerComplete | 9 | event | Yes | | 4.0 |
| | | | | | | | |
| **flash.xml** | **XMLDocument** | | **9** | | **No** | **Use E4X instead** | **Never** |
| | XMLDocument | docTypeDecl | 9 | | No | | Never |
| | XMLDocument | idMap | 9 | | No | | Never |
| | XMLDocument | ignoreWhite | 9 | | No | | Never |
| | XMLDocument | xmlDecl | 9 | | No | | Never |
| | XMLDocument | XMLDocument | 9 | | No | | Never |
| | XMLDocument | createElement | 9 | | No | | Never |
| | XMLDocument | createTextNode | 9 | | No | | Never |
| | XMLDocument | parseXML | 9 | | No | | Never |
| | XMLDocument | toString | 9 | | No | | Never |
| | | | | | | | |
| **flash.xml** | **XMLNode** | | **9** | | **No** | **Use E4X instead** | **Never** |
| | XMLNode | attributes | 9 | | No | | Never |
| | XMLNode | childNodes | 9 | | No | | Never |
| | XMLNode | firstChild | 9 | | No | | Never |
| | XMLNode | lastChild | 9 | | No | | Never |
| | XMLNode | localName | 9 | | No | | Never |
| | XMLNode | namespaceURI | 9 | | No | | Never |
| | XMLNode | nextSibling | 9 | | No | | Never |
| | XMLNode | nodeName | 9 | | No | | Never |
| | XMLNode | nodeType | 9 | | No | | Never |
| | XMLNode | nodeValue | 9 | | No | | Never |
| | XMLNode | parentNode | 9 | | No | | Never |
| | XMLNode | prefix | 9 | | No | | Never |
| | XMLNode | previousSibling | 9 | | No | | Never |
| | XMLNode | XMLNode | 9 | | No | | Never |

| | XMLNode | appendChild | 9 | | No | | Never |
|---|---|---|---|---|---|---|---|
| | XMLNode | cloneNode | 9 | | No | | Never |
| | XMLNode | getPrefixForNamespace | 9 | | No | | Never |
| | XMLNode | getPrefixForNamespace | 9 | | No | | Never |
| | XMLNode | hasChildNodes | 9 | | No | | Never |
| | XMLNode | insertBefore | 9 | | No | | Never |
| | XMLNode | removeNode | 9 | | No | | Never |
| | XMLNode | toString | 9 | | No | | Never |
| | | | | | | | |
| **flash.xml** | **XMLNodeType** | | **9** | | **No** | **Use E4X instead** | **Never** |
| | XMLNodeType | ELEMENT_NODE | 9 | | No | | Never |
| | XMLNodeType | TEXT_NODE | 9 | | No | | Never |

# Deprecated Functions

SWF Deprecated Classes, Functions and Properties.

## Deprecated Classes

| Number | Name | Since | Deprecated | Supported | Comment |
|---|---|---|---|---|---|
| Class | Color | 5 | 8 | Yes | Deprecated since Flash Player 8. The Color class has been deprecated in favor of the flash.geom.ColorTransform class. |

## Deprecated Functions

| Number | Name | Since | Deprecated | Supported | Comment |
|---|---|---|---|---|---|
| | call | | 5 | | Deprecated since Flash Player 5. This action was deprecated in favor of the function statement. |
| | chr | | 5 | Yes | Deprecated since Flash Player 5. This function was deprecated in favor of String.fromCharCode(). |
| | TextFormat.getTextExtent | | 8 | | Deprecated since Flash Player 8. There is no replacement. |
| | ifFrameLoaded | | 5 | Yes | Deprecated since Flash Player 5. This function has been deprecated. Macromedia recommends that you use the MovieClip._framesloaded property. |
| | int | | 5 | | Deprecated since Flash Player 5. This function was deprecated in favor of Math.round(). |
| | length | | 5 | Yes | Deprecated since Flash Player 5. This function, along with all the string functions, has been deprecated. Macromedia recommends that you use the methods of the String class and the String.length property to perform the same operations. |
| | mbchr | | 5 | Yes | Deprecated since Flash Player 5. This function was deprecated in favor of the String.fromCharCode() method. |
| | mblength | | 5 | Yes | Deprecated since Flash Player 5. This function was deprecated in favor of the methods and properties of the String class. |
| | mbord | | 5 | Yes | Deprecated since Flash Player 5. This function was deprecated in favor of String.charCodeAt(). |
| | mbsubstring | | 5 | Yes | Deprecated since Flash Player 5. This function was deprecated in favor of String.substr(). |
| | ord | | 5 | Yes | Deprecated since Flash Player 5. This function was deprecated in favor of the methods and properties of the String class. |
| | random | | 5 | | Deprecated since Flash Player 5. This function was deprecated in favor of Math.random(). |
| | substring | | 5 | Yes | Deprecated since Flash Player 5. This function was deprecated in favor of String.substr(). |
| | tellTarget | | 5 | Yes | Deprecated since Flash Player 5. Macromedia recommends that you use dot (.) notation and the with statement. |
| | toggleHighQuality | | 5 | | Deprecated since Flash Player 5. This function was deprecated in favor of _quality. |

**Deprecated Properties**

| Number | Name | Since | Deprecated | Supported | Comment |
|---|---|---|---|---|---|
| | Button._highquality | | 7 | | Deprecated since Flash Player 7. This property was deprecated in favor of Button._quality. |
| | MovieClip._highquality | | 7 | | Deprecated since Flash Player 7. This property was deprecated in favor of MovieClip._quality. |
| | TextField._highquality | | 7 | | Deprecated since Flash Player 7. This property was deprecated in favor of TextField._quality. |
| | _highquality | | 5 | | Deprecated since Flash Player 5. This property was deprecated in favor of _quality. |
| | maxscroll | | 5 | | Deprecated since Flash Player 5. This property was deprecated in favor of TextField.maxscroll. |
| | scroll | | 5 | | Deprecated since Flash Player 5. This property was deprecated in favor of TextField.scroll. |