
Xgrid Foundation Reference Update

[Performance](#) > [Multiprocessing](#)



2007-07-18



Apple Inc.
© 2007 Apple Inc.
All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, mechanical, electronic, photocopying, recording, or otherwise, without prior written permission of Apple Inc., with the following exceptions: Any person is hereby authorized to store documentation on a single computer for personal use only and to print copies of documentation for personal use provided that the documentation contains Apple's copyright notice.

The Apple logo is a trademark of Apple Inc.

Use of the "keyboard" Apple logo (Option-Shift-K) for commercial purposes without the prior written consent of Apple may constitute trademark infringement and unfair competition in violation of federal and state laws.

No licenses, express or implied, are granted with respect to any of the technology described in this document. Apple retains all intellectual property rights associated with the technology described in this document. This document is intended to assist application developers to develop applications only for Apple-labeled computers.

Every effort has been made to ensure that the information in this document is accurate. Apple is not responsible for typographical errors.

Apple Inc.
1 Infinite Loop
Cupertino, CA 95014
408-996-1010

Apple, the Apple logo, Mac, Mac OS, Objective-C, and Xgrid are trademarks of Apple Inc., registered in the United States and other countries.

Simultaneously published in the United States and Canada.

Even though Apple has reviewed this document, APPLE MAKES NO WARRANTY OR REPRESENTATION, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS DOCUMENT, ITS QUALITY, ACCURACY, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. AS A RESULT, THIS DOCUMENT IS PROVIDED "AS IS," AND YOU, THE READER, ARE ASSUMING THE ENTIRE RISK AS TO ITS QUALITY AND ACCURACY.

IN NO EVENT WILL APPLE BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY

DEFECT OR INACCURACY IN THIS DOCUMENT, even if advised of the possibility of such damages.

THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS, ORAL OR WRITTEN, EXPRESS OR IMPLIED. No Apple dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

Some states do not allow the exclusion or limitation of implied warranties or liability for incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Contents

Introduction to Xgrid Foundation Reference Update 5

Organization of This Document 5

See Also 5

10.5 Symbol Changes 7

Classes 7

XGController 7

XGGrid 7

XGJob 7

C Symbols 8

XGJob.h 8

10.4 Symbol Changes 9

Classes 9

NSObject 9

XGActionMonitor (New) 9

XGAuthenticator (New) 10

XGConnection (New) 11

XGController (New) 12

XGFile (New) 12

XGFileDownload (New) 13

XGGrid (New) 13

XGGSSAuthenticator (New) 14

XGJob (New) 14

XGResource (New) 15

XGTwoWayRandomAuthenticator (New) 15

C Symbols 15

XGActionMonitor.h 16

XGAuthenticator.h 16

XGConnection.h 17

XGController.h 17

XGFile.h 18

XGJob.h 18

XGResource.h 19

Document Revision History 21

Introduction to Xgrid Foundation Reference Update

This document summarizes the symbols that have been added to the Xgrid Foundation framework. The full reference documentation notes in what version a symbol was introduced, but sometimes it's useful to see only the new symbols for a given release.

If you are not familiar with this framework you should refer to the complete framework reference documentation.

Organization of This Document

Symbols are grouped by class or protocol for Objective-C and by header file for C. For each symbol there is a link to complete documentation, if available, and a brief description, if available.

See Also

For reference documentation on this framework, see *Xgrid Foundation Reference*.

10.5 Symbol Changes

This article lists the symbols added to `XgridFoundation.framework` in Mac OS X v10.5.

Classes

All of the classes with new symbols are listed alphabetically, with their new class, instance, and delegate methods described.

XGController

Complete reference information is available in the [XGController reference](#).

Class Methods

| | |
|--------------------------------|--|
| <code>defaultController</code> | |
| <code>privateController</code> | |

XGGrid

Complete reference information is available in the [XGGrid reference](#).

Instance Methods

| | |
|-------------------|--|
| <code>name</code> | |
|-------------------|--|

XGJob

Complete reference information is available in the [XGJob reference](#).

Instance Methods

| | |
|-------------------|--|
| <code>name</code> | |
|-------------------|--|

C Symbols

All of the header files with new symbols are listed alphabetically, with their new symbols described.

XGJob.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

| | |
|--|--|
| XGJobSpecificationARTConditionsKey | |
| XGJobSpecificationARTDataKey | |
| XGJobSpecificationARTEqualKey | |
| XGJobSpecificationARTMaximumKey | |
| XGJobSpecificationARTMinimumKey | |
| XGJobSpecificationARTSpecificationsKey | |
| XGJobSpecificationSchedulerHintsKey | |

10.4 Symbol Changes

This article lists the symbols added to `XgridFoundation.framework` in Mac OS X v10.4.

Classes

All of the classes with new symbols are listed alphabetically, with their new class, instance, and delegate methods described.

NSObject

Complete reference information is available in the [NSObject reference](#).

Instance Methods

| | |
|---|--|
| <code>authenticatorDidAuthenticate:</code> | |
| <code>authenticatorDidNotAuthenticate:</code> | |
| <code>connectionDidClose:</code> | |
| <code>connectionDidNotOpen:withError:</code> | |
| <code>connectionDidOpen:</code> | |
| <code>fileDownload:decideDestinationWithSuggestedPath:</code> | |
| <code>fileDownload:didCreateDestination:</code> | |
| <code>fileDownload:didFailWithError:</code> | |
| <code>fileDownload:didReceiveAttributes:</code> | |
| <code>fileDownload:didReceiveData:</code> | |
| <code>fileDownloadDidBegin:</code> | |
| <code>fileDownloadDidFinish:</code> | |

XGActionMonitor (New)

Complete reference information is available in the [XGActionMonitor reference](#).

Class Methods

| | |
|---|--|
| <code>actionMonitorWithResource:action:</code> | |
| <code>actionMonitorWithResource:action:parameters:</code> | |

Instance Methods

| | |
|--|--|
| <code>action</code> | |
| <code>actionDidFail</code> | |
| <code>actionDidSucceed</code> | |
| <code>error</code> | |
| <code>initWithResource:action:parameters:</code> | |
| <code>outcome</code> | |
| <code>parameters</code> | |
| <code>performAction</code> | |
| <code>resource</code> | |
| <code>results</code> | |

XGAuthenticator (New)

Complete reference information is available in the [XGAuthenticator reference](#).

Class Methods

| | |
|-------------------------|--|
| <code>profileURI</code> | |
|-------------------------|--|

Instance Methods

| | |
|-----------------------------------|--|
| <code>beginAuthentication:</code> | |
| <code>delegate</code> | |
| <code>error</code> | |
| <code>failWithError:</code> | |
| <code>finishAuthentication</code> | |

| | |
|--------------|--|
| piggyback | |
| receiveData: | |
| sendData: | |
| setDelegate: | |
| state | |

Delegate Methods

| | |
|----------------------------------|--|
| authenticatorDidAuthenticate: | |
| authenticatorDidNotAuthenticate: | |

XGConnection (New)

Complete reference information is available in the [XGConnection reference](#).

Instance Methods

| | |
|------------------------------|--|
| authenticator | |
| close | |
| delegate | |
| error | |
| hostname | |
| initWithHostname:portnumber: | |
| initWithNetService: | |
| isClosed | |
| isOpen | |
| name | |
| netService | |
| open | |
| portnumber | |
| servicePrincipal | |
| setAuthenticator: | |

| | |
|--------------|--|
| setDelegate: | |
| state | |

Delegate Methods

| | |
|---------------------------------|--|
| connectionDidClose: | |
| connectionDidNotOpen:withError: | |
| connectionDidOpen: | |

XGController (New)

Complete reference information is available in the [XGController reference](#).

Class Methods

| | |
|------------------------------------|--|
| controllerWithHostname:portnumber: | |
| controllerWithNetService: | |

Instance Methods

| | |
|---|--|
| defaultGrid | |
| gridForIdentifier: | |
| grids | |
| initWithConnection: | |
| jobsPredicateString | |
| performSubmitJobActionWithJobSpecification: gridIdentifier: | |
| setJobsPredicateString: | |

XGFile (New)

Complete reference information is available in the [XGFile reference](#).

Instance Methods

| | |
|-----|--|
| job | |
|-----|--|

| | |
|----------------|--|
| path | |
| taskIdentifier | |
| type | |

XGFileDownload (New)

Complete reference information is available in the [XGFileDownload reference](#).

Instance Methods

| | |
|--------------------------------|--|
| cancel | |
| delegate | |
| destination | |
| file | |
| initWithFile:delegate: | |
| setDestination:allowOverwrite: | |

Delegate Methods

| | |
|--|--|
| fileDownload:decideDestinationWithSuggestedPath: | |
| fileDownload:didCreateDestination: | |
| fileDownload:didFailWithError: | |
| fileDownload:didReceiveAttributes: | |
| fileDownload:didReceiveData: | |
| fileDownloadDidBegin: | |
| fileDownloadDidFinish: | |

XGGrid (New)

Complete reference information is available in the [XGGrid reference](#).

Instance Methods

| | |
|-----------|--|
| isDefault | |
|-----------|--|

| | |
|-------------------|--|
| jobForIdentifier: | |
| jobs | |

XGGSSAuthenticator (New)

Complete reference information is available in the [XGGSSAuthenticator](#) reference.

Instance Methods

| | |
|----------------------|--|
| servicePrincipal | |
| setServicePrincipal: | |

XGJob (New)

Complete reference information is available in the [XGJob](#) reference.

Instance Methods

| | |
|-------------------------------|--|
| activeCPUPower | |
| applicationIdentifier | |
| applicationInfo | |
| completedTaskCount | |
| dateStarted | |
| dateStopped | |
| dateSubmitted | |
| percentDone | |
| performDeleteAction | |
| performGetOutputFilesAction | |
| performGetOutputStreamsAction | |
| performGetSpecificationAction | |
| performRestartAction | |
| performResumeAction | |

| | |
|----------------------|--|
| performStopAction | |
| performSuspendAction | |
| taskCount | |

XGResource (New)

Complete reference information is available in the [XGResource reference](#).

Instance Methods

| | |
|-------------------------------|--|
| actionMonitors | |
| connection | |
| controller | |
| identifier | |
| isUpdated | |
| isUpdating | |
| performAction:withParameters: | |
| state | |

XGTwoWayRandomAuthenticator (New)

Complete reference information is available in the [XGTwoWayRandomAuthenticator reference](#).

Instance Methods

| | |
|--------------|--|
| setPassword: | |
| setUsername: | |
| username | |

C Symbols

All of the header files with new symbols are listed alphabetically, with their new symbols described.

XGActionMonitor.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

| | |
|--|--|
| XGActionMonitorOutcome | |
| XGActionMonitorOutcomeFailure | |
| XGActionMonitorOutcomeNone | |
| XGActionMonitorOutcomeSuccess | |
| XGActionMonitorResultsOutputFilesKey | |
| XGActionMonitorResultsOutputStreamsKey | |
| XGResourceAction | |
| XGResourceActionDelete | |
| XGResourceActionGetOutputFiles | |
| XGResourceActionGetOutputStreams | |
| XGResourceActionGetSpecification | |
| XGResourceActionMakeDefault | |
| XGResourceActionNone | |
| XGResourceActionRename | |
| XGResourceActionRestart | |
| XGResourceActionResume | |
| XGResourceActionStop | |
| XGResourceActionSubmitJob | |
| XGResourceActionSuspend | |

XGAuthenticator.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

| | |
|-------------------------------------|--|
| XGAuthenticatorState | |
| XGAuthenticatorStateAuthenticated | |
| XGAuthenticatorStateAuthenticating | |
| XGAuthenticatorStateFailed | |
| XGAuthenticatorStateUnauthenticated | |

XGConnection.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

| | |
|--------------------------|--|
| XGConnectionKeyIsClosed | |
| XGConnectionKeyIsOpened | |
| XGConnectionKeyState | |
| XGConnectionState | |
| XGConnectionStateClosed | |
| XGConnectionStateClosing | |
| XGConnectionStateOpen | |
| XGConnectionStateOpening | |

XGController.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

| | |
|-------------------------------------|--|
| XGControllerWillDeallocNotification | |
|-------------------------------------|--|

XGFile.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

| | |
|--------------------------|--|
| XGFileStandardErrorPath | |
| XGFileStandardOutputPath | |
| XGFileType | |
| XGFileTypeNone | |
| XGFileTypeRegular | |
| XGFileTypeStream | |

XGJob.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

| | |
|--|--|
| XGJobSpecificationApplicationIdentifierKey | |
| XGJobSpecificationArgumentsKey | |
| XGJobSpecificationArgumentTypeKey | |
| XGJobSpecificationCommandKey | |
| XGJobSpecificationDependsOnJobsKey | |
| XGJobSpecificationDependsOnTasksKey | |
| XGJobSpecificationEnvironmentKey | |
| XGJobSpecificationFileDataKey | |
| XGJobSpecificationGridIdentifierKey | |
| XGJobSpecificationInputFileMapKey | |
| XGJobSpecificationInputFilesKey | |
| XGJobSpecificationInputStreamKey | |

| | |
|--|--|
| XGJobSpecificationIsExecutableKey | |
| XGJobSpecificationNameKey | |
| XGJobSpecificationNotificationEmailKey | |
| XGJobSpecificationPathIdentifierKey | |
| XGJobSpecificationSchedulerParametersKey | |
| XGJobSpecificationSubmissionIdentifierKey | |
| XGJobSpecificationTaskPrototypeIdentifierKey | |
| XGJobSpecificationTaskPrototypesKey | |
| XGJobSpecificationTaskSpecificationsKey | |
| XGJobSpecificationTypeKey | |
| XGJobSpecificationTypeTaskListValue | |

XGResource.h

Data Types & Constants

All of the new data types and constants in this header file are listed alphabetically, with links to documentation and abstracts, if available.

| | |
|---------------------------|--|
| XGResourceState | |
| XGResourceStateAvailable | |
| XGResourceStateCanceled | |
| XGResourceStateConnecting | |
| XGResourceStateFailed | |
| XGResourceStateFinished | |
| XGResourceStateOffline | |
| XGResourceStatePending | |
| XGResourceStateRunning | |
| XGResourceStateStagingIn | |
| XGResourceStateStagingOut | |
| XGResourceStateStarting | |

10.4 Symbol Changes

| | |
|------------------------------|--|
| XGResourceStateSuspended | |
| XGResourceStateUnavailable | |
| XGResourceStateUninitialized | |
| XGResourceStateWorking | |

Document Revision History

This table describes the changes to *Xgrid Foundation Reference Update*.

| Date | Notes |
|------------|---|
| 2007-07-18 | Updated with the symbols added to the Xgrid Foundation framework in Mac OS X v10.5. |

