

---

# Xgrid Foundation Reference Update



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.

