
NSMappingModel Class Reference

Data Management



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Contents

NSMappingModel Class Reference 5

Overview 5

Tasks 5

 Creating a Mapping 5

 Managing Entity Mappings 5

Class Methods 6

 inferredMappingModelForSourceModel:destinationModel:error: 6

 mappingModelFromBundles:forSourceModel:destinationModel: 6

Instance Methods 7

 entityMappings 7

 entityMappingsByName 7

 initWithContentsOfURL: 8

 setEntityMappings: 8

Document Revision History 11

NSMappingModel Class Reference

Inherits from	NSObject
Conforms to	NSObject (NSObject)
Framework	/System/Library/Frameworks/CoreData.framework
Availability	Available in iOS 3.0 and later.
Companion guide	Core Data Model Versioning and Data Migration Programming Guide
Declared in	NSMappingModel.h

Overview

Instances of `NSMappingModel` specify how to map from a source to a destination managed object model.

Tasks

Creating a Mapping

- + [mappingModelFromBundles:forSourceModel:destinationModel:](#) (page 6)
Returns the mapping model to translate data from the source to the destination model.
- + [inferredMappingModelForSourceModel:destinationModel:error:](#) (page 6)
Returns a newly-created mapping model to migrate data from the source to the destination model.
- [initWithContentsOfURL:](#) (page 8)
Returns a mapping model initialized from a given URL.

Managing Entity Mappings

- [entityMappings](#) (page 7)
Returns the collection of entity mappings for the receiver.
- [setEntityMappings:](#) (page 8)
Sets the collection of entity mappings for the receiver
- [entityMappingsByName](#) (page 7)
Returns a dictionary of the entity mappings for the receiver.

Class Methods

inferredMappingModelForSourceModel:destinationModel:error:

Returns a newly-created mapping model to migrate data from the source to the destination model.

```
+ (NSMappingModel *)inferredMappingModelForSourceModel:(NSManagedObjectModel *)source
  destinationModel:(NSManagedObjectModel *)destination error:(NSError **)error
```

Parameters

source

The source managed object model.

destination

The destination managed object model.

error

If a problem occurs, on return contains an `NSInferredMappingModelError` error that describes the problem.

The error's `userInfo` will contain additional details about why inferring the mapping model failed (check for the following keys: `reason`, `entity`, `property`).

Return Value

A newly-created mapping model to migrate data from the source to the destination model. If the mapping model can not be created, returns `nil`.

Discussion

A model will be created only if all changes are simple enough to be able to reasonably infer a mapping (for example, removing or renaming an attribute, adding an optional attribute or relationship, or adding renaming or deleting an entity). Element IDs are used to track renamed properties and entities.

Availability

Available in iOS 3.0 and later.

Declared In

`NSMappingModel.h`

mappingModelFromBundles:forSourceModel:destinationModel:

Returns the mapping model to translate data from the source to the destination model.

```
+ (NSMappingModel *)mappingModelFromBundles:(NSArray *)bundles
  forSourceModel:(NSManagedObjectModel *)sourceModel
  destinationModel:(NSManagedObjectModel *)destinationModel
```

Parameters

bundles

An array of bundles in which to search for mapping models.

sourceModel

The managed object model for the source store.

destinationModel

The managed object model for the destination store.

Return Value

Returns the mapping model to translate data from *sourceModel* to *destinationModel*. If a suitable mapping model cannot be found, returns `nil`.

Discussion

This method is a companion to the `mergedModelFromBundles:` and `mergedModelFromBundles:forStoreMetadata:` methods. In this case, the framework uses the version information from the models to locate the appropriate mapping model in the available bundles.

Availability

Available in iOS 3.0 and later.

See Also

- [initWithContentsOfURL:](#) (page 8)

Declared In

NSMappingModel.h

Instance Methods

entityMappings

Returns the collection of entity mappings for the receiver.

- (NSArray *)entityMappings

Return Value

The collection of entity mappings for the receiver.

Special Considerations

The order of the mappings in the array specifies the order in which they will be processed during migration.

Availability

Available in iOS 3.0 and later.

See Also

- [setEntityMappings:](#) (page 8)
- [entityMappingsByName](#) (page 7)

Declared In

NSMappingModel.h

entityMappingsByName

Returns a dictionary of the entity mappings for the receiver.

- (NSDictionary *)entityMappingsByName

Return Value

A dictionary of the entity mappings for the receiver, keyed by their respective name.

Discussion

You can use this method to quickly access to mapping by name, rather than iterating the ordered array returned by [entityMappings](#) (page 7).

Availability

Available in iOS 3.0 and later.

See Also

- [entityMappings](#) (page 7)

Declared In

NSMappingModel.h

initWithContentsOfURL:

Returns a mapping model initialized from a given URL.

```
- (id)initWithContentsOfURL:(NSURL *)url
```

Parameters

url

The location of an archived mapping model.

Return Value

A mapping model initialized from *url*.

Availability

Available in iOS 3.0 and later.

See Also

+ [mappingModelFromBundles:forSourceModel:destinationModel:](#) (page 6)

Declared In

NSMappingModel.h

setEntityMappings:

Sets the collection of entity mappings for the receiver

```
- (void)setEntityMappings:(NSArray *)mappings
```

Parameters

mappings

The collection of entity mappings for the receiver.

Special Considerations

The order of the mappings specifies the order in which they will be processed during migration.

Availability

Available in iOS 3.0 and later.

See Also

- [entityMappings](#) (page 7)

Declared In

NSMappingModel.h

Document Revision History

This table describes the changes to *NSMappingModel Class Reference*.

Date	Notes
2009-02-03	Updated for iOS 3.0.
2008-06-03	Updated for Mac OS X v10.6.
2007-05-22	New document that describes the Core Data class used to specify a mapping from one schema to another during migration.

REVISION HISTORY

Document Revision History