



Management Center

# Package Management Web Service API Guide

Version 2026.4

# Table of Contents

|                                                                 |    |
|-----------------------------------------------------------------|----|
| Disclaimer.....                                                 | 4  |
| Introduction.....                                               | 5  |
| Proxy DLL .....                                                 | 5  |
| Authorization & Security.....                                   | 5  |
| Limitations .....                                               | 5  |
| How to use the Package Management WebServices - Examples.....   | 6  |
| DataRows - Machines .....                                       | 9  |
| Machines .....                                                  | 9  |
| MachinesRow .....                                               | 9  |
| MachinePackagesRow .....                                        | 10 |
| MatchResultsRow .....                                           | 12 |
| MatchResultsRow .....                                           | 12 |
| MachineDetailsRow .....                                         | 12 |
| MachineDiagnosticsRow .....                                     | 13 |
| DataRows - Packages.....                                        | 14 |
| Packages .....                                                  | 14 |
| PackagesRow .....                                               | 14 |
| PackageVersionsRow .....                                        | 15 |
| PatchesRow .....                                                | 16 |
| CertificatesRow .....                                           | 17 |
| PrerequisitesRow .....                                          | 18 |
| PackageVersionPrerequisitesRow .....                            | 19 |
| PrerequisiteResourceRow .....                                   | 19 |
| PrerequisiteCommandRow .....                                    | 20 |
| PrerequisiteCheckRow .....                                      | 20 |
| PrerequisiteExitCodeRow .....                                   | 21 |
| DataAccessServices.PackageManagement .....                      | 22 |
| Class Documentation .....                                       | 23 |
| DataAccessServices.PackageManagement.PackageManagement_v3 ..... | 45 |
| DataAccessServices.PackageManagement.RowFixerNeeded .....       | 56 |

DataAccessServices.PackageManagement.TableCopier ..... 57

## Disclaimer

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# Introduction

This document details the web service interfaces exposed by the UWM Management Server.



## Warning

Ivanti reserves the right to modify any API classes or method signatures without warning.

Users are advised that changes to the API will occur over the span of releases and updates, and that any scripts that use these APIs should be carefully tested with new versions of UWM products before being deployed in a production environment.

Since the Management Console uses the same API to communicate with the Management Server, anything possible within the Management Console is also possible through the API.

Third party tools may access the APIs directly via the web services as described in this document.

## Authorization & Security

Only users with the authorization to connect and use the Management Server can access the web services API.

## Limitations

Some types are not described in this document, as they are based on standard data types defined in the .NET framework. Users looking for documentation on DataSet types should refer to MSDN for further details: <http://msdn.microsoft.com/en-us/library/system.data.datatable.aspx>.

## How to use the Package Management WebServices - Examples

Packages are managed using the `PackageManagementWebService` and they can be retrieved using the `GetPackages()` method. This returns a `PackageDataSet` (based on the standard .NET `DataTable` class). This in turn contains a `Packages` property which is an `IEnumerable` of type `PackageRow` (based on the standard .NET `DataRow` class). You can then further filter packages using `PackageDataSet.Packages.Select` or alternatively in PowerShell use the `Where-Object`.

```
# Management Server URL
$url = "http://localhost:7751/ManagementServer/PackageManagement"

# Create connection to the Management Server
try
{
    # Connect to Required Web Services
    $packageManagementWebService = New-WebServiceProxy -Uri $url/PackageManagement_v3.asmx -
UseDefaultCredential -ErrorAction Stop

    Write-Host "Successfully Connected to Web Service Proxy for Management Server"
}
catch
{
    Write-Host "Failed to Connect to Management Server, Exiting Script"
    Break
}

# Retrieve list of packages
$PackagesDataSet = $packageManagementWebService.GetPackages()
$Packages = $PackagesDataSet.Packages
```

Management Center packages can be created through the API using the `PackageManagementWebService`. Each package stored in the Management Server may contain multiple versions of a package. The process of uploading packages involves:

- Creating the package (if no instances of the package already exist)
- Creating a package version
- Getting a package upload key
- Finalising the package version
- Commit the package
- Unlock the package

When creating a package, a product key needs to be specified. The following products are supported:

| Name                | ProductPK                            |
|---------------------|--------------------------------------|
| Environment Manager | EA13F465-B2B6-4716-ADA4-53D7D84D042F |
| Performance Manager | 969D739C-F6BA-4F8E-A210-632FC2B97D70 |
| Application Manager | A1FD1D32-4F66-4958-9A81-9B72053661B2 |
| Management Center   | C30C105F-9961-41EA-8DD8-9DF4606E56FB |

While packages can be uploaded using the DataAccess Endpoints, it is recommended that developers use the PackageManagement Endpoint.

Note: Ensure that PackageGuid and PackageVersionGuid are replaced with the appropriate UpgradeCode and ProductCode from the specified MSI.

```
Add-Type -Path "${Env:ProgramFiles}\AppSense\Management Center\Console\PackageManager.dll"$url =
"http://localhost:7751/ManagementServer"$credentials =
[System.Net.CredentialCache]::DefaultCredentials$credential = $credentials.GetCredential($url,
"Basic")$PackagesWebService = [PackageManagement.PackageServerFactory]::GetPackageServer($url,
$credential)
```

```
# Environment Manager product$EnvironmentManagerKey = "EA13F465-B2B6-4716-ADA4-53D7D84D042F"
```

```
# Properties for newly created package$PackageGuid = "<Upgrade code from MSI Property table goes
here>"$PackagePlatform =
[PackageManagement.PackageManagementWebService_v2.PackagePlatform_v1]::PlatformIndependent
```

```
# Create package$PackagesWebService.CreatePackage($PackageGuid, "MyPackage", "MyCompany",
"msi/configuration", $PackagePlatform, $EnvironmentManagerKey)
```

```
# Create package version$PackageVersionGuid = "<Product code from MSI Property table goes
here>"$UploadDateTime = $PackagesWebService.CreatePackageVersion($PackageGuid,
$PackageVersionGuid, "MyPackageVersion", 8, 3, 0, 0, 8, 3, 0, 0, 8, 3, 0, 0, 8, 3, 0, 0,
"MyPackageDescription")
```

```
# Open file for upload$UploadFile = "C:\Configurations\EMConfiguration.msi"$UploadBytes =
[System.IO.File]::ReadAllBytes($UploadFile)
```

```
# Start package upload$UploadGuid = $PackagesWebService.BeginPackageVersionUpload($PackageGuid,
"API uploaded package", $PackageVersionGuid, $UploadBytes.Length, [ref] $UploadDateTime)
```

```
# Upload package$PackagesWebService.ContinuePackageVersionUpload($PackageVersionGuid, [ref]  
$UploadDateTime, $UploadGuid, 0, $UploadBytes)
```

```
# Finalize package version$PackagesWebService.FinalisePackageVersion($PackageVersionGuid)
```

```
# Commit package version$PackagesWebService.CommitPackageVersion($PackageVersionGuid)
```

```
# Unlock package$PackagesWebService.UnlockPackage($PackageGuid)
```

Both endpoints support block by block upload operations for large files by repeatedly calling `ContinuePackageVersionUpload`. This is recommended for large configurations.

## DataRows - Machines

### Machines

#### MachinesRow

Provides data on each machine in the Management Server. The Platform column contains either 1 for a 32-bit machine, or 2 for a 64-bit machine, or 3 for an ARM 64-bit machine. The GroupFK column is a foreign key relating to the group that the machine is a member of. This has the value of null for machines in the unassigned group.

| Column               | DataType | Description                           |
|----------------------|----------|---------------------------------------|
| MachineKey           | Guid     | Unique identifier relating to machine |
| GroupKey             | Guid     | Unique identifier relating to group   |
| GroupName            | String   | Name of group                         |
| Platform             | Int32    |                                       |
| NetBiosName          | String   | Name of net bios                      |
| DistinguishedName    | String   | Name of distinguished                 |
| OldDistinguishedName | String   | Name of old distinguished             |
| ObjectGuid           | Guid     |                                       |
| LastPollTime         | DateTime |                                       |
| LastPollStatus       | Int32    |                                       |
| LastUploadTime       | DateTime |                                       |
| LastUploadStatus     | Int32    |                                       |
| IsPendingDeletion    | Boolean  |                                       |
| AlertCount           | Int32    |                                       |
| CreationTime         | DateTime | Time created                          |
| ModifiedTime         | DateTime | Time modified                         |
| ModifiedGroupTime    | DateTime |                                       |
| DiagnosticsError     | Boolean  |                                       |
| DiagnosticsState     | Int32    |                                       |

|                     |          |  |
|---------------------|----------|--|
| DiagnosticsTime     | DateTime |  |
| Deployed            | Int32    |  |
| DeployError         | Boolean  |  |
| Offline             | Boolean  |  |
| DNS                 | String   |  |
| LastResponseSeconds | Int32    |  |

### MachinePackagesRow

The Deployment Agent (CCA) detects the installation state of all packages which have been added to the Management Center's database. This information is sent to the Management Server when the Deployment Agent (CCA) polls and is stored in the MachinePackages table. The Status column indicates the progress through the installation of the package:

- Pending Install
- Checking Prerequisites
- Downloading
- Download Failed
- Installing
- Installed
- Install Failed
- Pending Upgrade
- Upgrade Failed
- Pending Uninstall
- Uninstalling
- Uninstall Failed
- Uninstalled
- Install Prerequisite Failed
- Unmanaged

The StatusMessage column will contain an error message if the Status column is a failure.

| Column                 | DataType | Description                                                                                |
|------------------------|----------|--------------------------------------------------------------------------------------------|
| MachineKey             | Guid     | Unique identifier relating to machine.                                                     |
| PackageKey             | Guid     | Unique identifier relating to package.                                                     |
| Major                  | Int32    |                                                                                            |
| Minor                  | Int32    |                                                                                            |
| Build                  | Int32    |                                                                                            |
| Revision               | Int32    |                                                                                            |
| Name                   | String   | Name of machine package.                                                                   |
| Company                | String   |                                                                                            |
| Type                   | String   |                                                                                            |
| Platform               | Int32    |                                                                                            |
| ProductName            | String   | Name of product.                                                                           |
| CreationTime           | DateTime | Time created                                                                               |
| ModifiedTime           | DateTime | Time modified                                                                              |
| Status                 | Int32    |                                                                                            |
| StatusMessage          | String   |                                                                                            |
| ChildStatus            | Int32    |                                                                                            |
| ChildMajor             | Int32    |                                                                                            |
| ChildMinor             | Int32    |                                                                                            |
| ChildBuild             | Int32    |                                                                                            |
| ChildRevision          | Int32    |                                                                                            |
| CertificateKey         | Guid     | Unique identifier of the associated PFX package (certificate).                             |
| CertificateThumbprints | String   | Comma separated list of thumbprints for the certificates in the PFX package (certificate). |
| CertificatePasssword   | String   | Encrypted password to open the PFX package.                                                |

### MatchResultsRow

Represents a match result on the server.

| Column     | DataType | Description                          |
|------------|----------|--------------------------------------|
| GroupKey   | Guid     | Unique identifier relating to group. |
| GroupName  | String   | Name of group.                       |
| MatchName  | String   | Name of match.                       |
| Difference | Int32    |                                      |

### MatchResultsRow

Represents a match result on the server.

| Column     | DataType | Description                          |
|------------|----------|--------------------------------------|
| GroupKey   | Guid     | Unique identifier relating to group. |
| GroupName  | String   | Name of group.                       |
| MatchName  | String   | Name of match.                       |
| Difference | Int32    |                                      |

### MachineDetailsRow

Stores a collection of name \ value pairs containing the machines details such as OS, memory, CPU platform 32 or 64 bit etc.

| Column     | DataType | Description                            |
|------------|----------|----------------------------------------|
| MachineKey | Guid     | Unique identifier relating to machine. |
| Name       | String   | Name of machine detail.                |
| Value      | String   |                                        |

## MachineDiagnosticsRow

Stores the results of any diagnostic tests that have been performed on the machine.

| Column     | DataType | Description                            |
|------------|----------|----------------------------------------|
| MachineKey | Guid     | Unique identifier relating to machine. |
| ServerUrl  | String   |                                        |
| Name       | String   | Name of machine diagnostic.            |
| Error      | Boolean  |                                        |
| Message    | String   |                                        |

# DataRows - Packages

## Packages

### PackagesRow

Stores the version independent properties of a package, such as the platform and type. The platform column can be 0 for platform independent, 1 for 32-bit, 2 for 64-bit, and 3 for an ARM 64-bit machine. The type of column can be "msi/configuration" for configurations, and "msi/agent" for agents. If the package has been locked by a user, then the Locked column is set to 1 and the LockedUserName set to the name of the user who owns the lock.

| Column         | DataType | Description                                           |
|----------------|----------|-------------------------------------------------------|
| LatestName     | String   | Name of latest.                                       |
| PackageKey     | Guid     | UpgradeCode property defined in associated MSI files. |
| Company        | String   |                                                       |
| Type           | String   |                                                       |
| Platform       | Int32    |                                                       |
| ProductKey     | Guid     | Unique identifier relating to product.                |
| ProductName    | String   | Name of product.                                      |
| CreationTime   | DateTime | Time created                                          |
| ModifiedTime   | DateTime | Time modified                                         |
| OwnerSid       | String   |                                                       |
| PolicyKey      | Guid     | Unique identifier relating to policy.                 |
| Locked         | Boolean  |                                                       |
| LockedUserName | String   | Name of locked user.                                  |
| LatestMajor    | Int32    |                                                       |
| LatestMinor    | Int32    |                                                       |
| LatestBuild    | Int32    |                                                       |
| LatestRevision | Int32    |                                                       |

|                    |        |                                                              |
|--------------------|--------|--------------------------------------------------------------|
| SecurityDescriptor | String |                                                              |
| Dirty              | Byte   |                                                              |
| CertificateKey     | Guid   | Unique identifier of the associated PFX certificate package. |

### PackageVersionsRow

Stores the actual data for each version of a package. The name is stored on a per package basis to accommodate renames of configs and tags of agents (such as beta). The Major, Minor, Build and Revision fields form the unique version number for the package. The InProgress column identifies a version of a package which is currently being modified, and hence should not be deployed. The creator versions store the version number of the console which created a configuration, and the dependent minimum and maximum columns representing the minimum and maximum versions of agents that the configuration is compatible with.

| Column            | DataType | Description                                           |
|-------------------|----------|-------------------------------------------------------|
| PackageVersionKey | Guid     | ProductCode property defined in associated MSI files. |
| PackageKey        | Guid     | UpgradeCode property defined in associated MSI files. |
| Name              | String   | Name of package version.                              |
| Major             | Int32    | Major version of package.                             |
| Minor             | Int32    | Minor version of package.                             |
| Build             | Int32    | Build version of package.                             |
| Revision          | Int32    | Revision version of package.                          |
| DataLength        | Int32    | Size of package.                                      |
| CreationTime      | DateTime | Time created                                          |
| ModifiedTime      | DateTime | Time modified                                         |
| InProgress        | Boolean  |                                                       |
| UserName          | String   | Name of user.                                         |
| Description       | String   | Description of package version.                       |
| CreatorMajor      | Int32    | Major version of package creator (console).           |
| CreatorMinor      | Int32    | Minor version of package creator (console).           |

|                          |             |                                                |
|--------------------------|-------------|------------------------------------------------|
| CreatorBuild             | Int32       | Build version of package creator (console).    |
| CreatorRevision          | Int32       | Revision version of package creator (console). |
| DependentMinimumMajor    | Int32       | Major version of minimum associated agent.     |
| DependentMinimumMinor    | Int32       | Minor version of minimum associated agent.     |
| DependentMinimumBuild    | Int32       | Build version of minimum associated agent.     |
| DependentMinimumRevision | Int32       | Revision version of minimum associated agent.  |
| DependentMaximumMajor    | Int32       | Major version of maximum associated agent.     |
| DependentMaximumMinor    | Int32       | Minor version of maximum associated agent.     |
| DependentMaximumBuild    | Int32       | Build version of maximum associated agent.     |
| DependentMaximumRevision | Int32       | Revision version of maximum associated agent.  |
| PackagesRow              | PackagesRow |                                                |

## PatchesRow

Stores meta-data for a patch, including the package version that the patch applies.

| Column            | DataType | Description                                                |
|-------------------|----------|------------------------------------------------------------|
| PatchKey          | Guid     | The unique identifier of the patch.                        |
| PackageVersionKey | Guid     | The package version that this patch applies to.            |
| PatchCode         | Guid     | The Patch Code property of the Windows Installer MSP file. |
| Name              | String   | Name of the patch.                                         |
| Major             | Int32    | Major version of package once this patch is applied.       |
| Minor             | Int32    | Minor version of package once this patch is applied.       |
| Build             | Int32    | Build version of package once this patch is applied.       |

|                 |          |                                                                  |
|-----------------|----------|------------------------------------------------------------------|
| Revision        | Int32    | Revision version of package once this patch is applied.          |
| DataLength      | Int32    | Size of patch.                                                   |
| InProgress      | Boolean  | True whenever this patch is being updated.                       |
| CreationTime    | DateTime | Time created.                                                    |
| ModifiedTime    | DateTime | Time modified.                                                   |
| TargetMajor     | Int32    | The version of the patch or package that this patch applies to.  |
| TargetMinor     | Int32    | The version of the patch or package that this patch applies to.  |
| TargetBuild     | Int32    | The version of the patch or package that this patch applies to.  |
| TargetRevision  | Int32    | The version of the patch or package that this patch applies to.  |
| ValidationFlags | Int32    | The Validation Flags property of the Windows Installer MSP file. |

### CertificatesRow

Stores meta-data for a PFX certificate package, including the thumbprints of the contained certificates and the password for the package.

| Column         | DataType | Description                                                   |
|----------------|----------|---------------------------------------------------------------|
| CertificateKey | Guid     | The unique identifier of the PFX certificate package.         |
| PackageKey     | Guid     | The package key that this certificate is associated with.     |
| Name           | String   | The name of the PFX certificate file.                         |
| DataLength     | Int32    | The size of the PFX certificate file.                         |
| CreationTime   | DateTime | The date and time when the PFX certificate file was uploaded. |
| ModifiedTime   | DateTime | The date and time that the certificate row was last modified. |

|                |          |                                                                                                |
|----------------|----------|------------------------------------------------------------------------------------------------|
| InProgress     | Boolean  | Set to true when the PFX certificate file is being uploaded.                                   |
| UserName       | String   | The name of the user that uploaded the PFX certificate file.                                   |
| Description    | String   | Description of the PFX certificate file.                                                       |
| Password       | String   | The encrypted password for the PFX certificate file.                                           |
| Thumbprints    | String   | Comma separated list of thumbprints of the certificates contained in the PFX certificate file. |
| EarliestExpiry | DateTime | The date and time of the earliest expiry time of the contained certificates.                   |
| IsDeployed     | Boolean  | Set to true when the PFX certificate file is assigned to a group.                              |

### PrerequisitesRow

Represents a prerequisite on the server.

| Column           | DataType | Description                                  |
|------------------|----------|----------------------------------------------|
| PrerequisitesKey | Guid     | Unique identifier relating to prerequisites. |
| Name             | String   | Name of prerequisite.                        |
| Version          | Int32    |                                              |
| PlatformInfo     | String   |                                              |
| VersionInfo      | String   |                                              |
| ModifiedTime     | DateTime | Time modified                                |
| CreationTime     | DateTime | Time created                                 |

### PackageVersionPrerequisitesRow

Represents a package version prerequisite on the server.

| Column            | DataType         | Description                                    |
|-------------------|------------------|------------------------------------------------|
| PackageVersionKey | Guid             | Unique identifier relating to package version. |
| PrerequisitesKey  | Guid             | Unique identifier relating to prerequisites.   |
| PrerequisitesRow  | PrerequisitesRow |                                                |

### PrerequisiteResourceRow

Represents a prerequisite resource on the server.

| Column           | DataType         | Description                                 |
|------------------|------------------|---------------------------------------------|
| ResourceKey      | Guid             | Unique identifier relating to resource.     |
| PrerequisiteKey  | Guid             | Unique identifier relating to prerequisite. |
| Destination      | String           |                                             |
| DataLength       | Int32            |                                             |
| HashCode         | String           |                                             |
| Valid            | Boolean          |                                             |
| ModifiedTime     | DateTime         | Time modified                               |
| CreationTime     | DateTime         | Time created                                |
| PrerequisitesRow | PrerequisitesRow |                                             |

### PrerequisiteCommandRow

Represents a prerequisite command on the server.

| Column           | DataType         | Description                                 |
|------------------|------------------|---------------------------------------------|
| CommandKey       | Guid             | Unique identifier relating to command.      |
| PrerequisiteKey  | Guid             | Unique identifier relating to prerequisite. |
| Action           | Int32            |                                             |
| Type             | Int32            |                                             |
| Path             | String           |                                             |
| Arguments        | String           |                                             |
| DefaultResult    | Int32            |                                             |
| ModifiedTime     | DateTime         | Time modified                               |
| CreationTime     | DateTime         | Time created                                |
| PrerequisitesRow | PrerequisitesRow |                                             |

### PrerequisiteCheckRow

Represents a prerequisite check on the server.

| Column               | DataType | Description                                       |
|----------------------|----------|---------------------------------------------------|
| PrerequisiteCheckKey | Guid     | Unique identifier relating to prerequisite check. |
| PrerequisiteKey      | Guid     | Unique identifier relating to prerequisite.       |
| CheckType            | Int32    |                                                   |
| Condition            | Int32    |                                                   |
| OperatorValue        | Int32    |                                                   |
| Data                 | String   |                                                   |
| Product_ProductCode  | Guid     |                                                   |
| Product_UpgradeCode  | Guid     |                                                   |
| File_Path            | String   |                                                   |
| Registry_Root        | String   |                                                   |

|                         |                  |                                          |
|-------------------------|------------------|------------------------------------------|
| Registry_Key            | String           | Unique identifier relating to registry_. |
| Registry_Value          | String           |                                          |
| OperatingSystem_Message | String           |                                          |
| ModifiedTime            | DateTime         | Time modified                            |
| CreationTime            | DateTime         | Time created                             |
| PrerequisitesRow        | PrerequisitesRow |                                          |

### **PrerequisiteExitCodeRow**

Represents a prerequisite exit code on the server.

| <b>Column</b>          | <b>DataType</b>        | <b>Description</b>                       |
|------------------------|------------------------|------------------------------------------|
| ExitCodeKey            | Guid                   | Unique identifier relating to exit code. |
| Value                  | Int32                  |                                          |
| Result                 | String                 |                                          |
| CommandKey             | Guid                   | Unique identifier relating to command.   |
| ModifiedTime           | DateTime               | Time modified                            |
| CreationTime           | DateTime               | Time created                             |
| PrerequisiteCommandRow | PrerequisiteCommandRow |                                          |

# Namespace Documentation

## DataAccessServices.PackageManagement Namespace Reference

### Classes

- class Implementation
- class [PackageManagement\\_v1](#)
- *This class contains legacy functionality to manage packages in the Management Server (version 8.1 or less) database.*
- class [PackageManagement\\_v2](#)
- *This class contains functionality to manage packages in the Management Server (version 8.2 or greater) database.*
- class [PackageManagement\\_v3](#)
- *This class contains functionality to manage packages in the Management Server (version 8.2 or greater) database.*
- class [RowFixerNeeded](#)
- class [TableCopier](#)

# Class Documentation

## DataAccessServices.PackageManagement.PackageManagement\_v1 Class Reference

This class contains legacy functionality to manage packages in the Management Server (version 8.1 or less) database.

### Public Member Functions

- Guid [BeginPackageVersionDownload](#) (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision)  
*Begins a package download.*
- Guid [BeginPackageVersionUpload](#) (Guid packageKey, String description, Guid packageVersionKey, out DateTime modifiedTime, int dataLength)  
*Begins an upload of a package version.*
- void [CommitPackageVersion](#) (Guid packageVersionKey)  
*Once a package has been fully uploaded it must be committed, this clears the In Progress flag and allows the package to be deployed.*
- Byte [] [ContinuePackageVersionDownload](#) (Guid downloadKey, Int32 offset, Int32 length)  
*Continues a package download. The bytes of the package from 'offset' to 'offset + length' are returned.*
- void [ContinuePackageVersionUpload](#) (Guid packageVersionKey, ref DateTime modifiedTime, Guid uploadKey, Int32 offset, Byte[] data)  
*Continues an upload of a package version.*
- void [CreatePackage](#) (Guid key, String name, String company, String type, PackageManagementWebServiceCode.Schemas.PackagePlatform\_v1 platform, Guid productKey, out DateTime modifiedTime)  
*Creates a configuration package within the database.*
- void [CreatePackageVersion](#) (Guid packageKey, Guid packageVersionKey, Int32 major, Int32 minor, Int32 build, Int32 revision, Int32 creatorMajor, Int32 creatorMinor, Int32 creatorBuild, Int32 creatorRevision, Int32 dependentMinimumMajor, Int32 dependentMinimumMinor, Int32 dependentMinimumBuild, Int32 dependentMinimumRevision, Int32 dependentMaximumMajor, Int32 dependentMaximumMinor, Int32 dependentMaximumBuild, Int32 dependentMaximumRevision, string description, Boolean supportsMidSessionUpdate, out DateTime modifiedTime)  
*Creates a package version entry in the database ready to be uploaded.*
- void [DeletePackage](#) (Guid key, DateTime? modifiedTime)  
*Deletes an existing package from the database.*

- void [DeletePackageVersion](#) (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision, DateTime? modifiedTime)  
*Deletes a package version from a package.*
- void [FinalisePackageVersion](#) (Guid packageVersionKey)  
*Check that a package version has been correctly uploaded.*
- PackageManagementWebServiceCode.Schemas.MachinesDataSet\_v1 [GetMachinesWithPackage](#) (Guid packageKey)  
*Returns the machines that have a particular package installed.*
- PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v1 [GetPackageFromKey](#) (Guid key)  
*Returns an individual package within the database.*
- PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v1 [GetPackageFromKeyWithInProgress](#) (Guid key)  
*Returns a package from the database that is currently in progress.*
- PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v1 [GetPackages](#) ()  
*Returns all packages and their versions stored within the database.*
- PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v1 [GetPackagesWithInProgress](#) ()  
*Return packages that are currently in progress.*
- Int32 [GetPackageVersionLength](#) (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision)  
*Determines the length of a version of a package.*
- String [GetServerError](#) ()  
*Returns any errors associated with the server. Verifies that the connection to the database is valid and that the database schema is the correct version number.*
- void [LockPackage](#) (Guid packageKey)  
*Locks a package for editing stopping other users from making changes to the package.*
- void [UnlockPackage](#) (Guid packageKey)  
*Unlock a package to allow the package to be modified,*
- InterfaceStatus\_v1 [VerifyInterface](#) ()  
*This method returns an InterfaceStatus\_v1 if the current user can login to the current database.*
- void [WIPSaved](#) (Guid packageKey)  
*Sets the package as a Work In Progress package which is not deployable.*

---

## Detailed Description

This class contains legacy functionality to manage packages in the Management Server (version 8.1 or less) database.

---

## Member Function Documentation

### *Guid*

***DataAccessServices.PackageManagement.PackageManagement\_v1.BeginPackageVersionDownload (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision) [inline]***

Begins a package download.

Parameters:

|                   |                                       |
|-------------------|---------------------------------------|
| <i>packageKey</i> | The key which represents the package. |
| <i>major</i>      | The major version of the package.     |
| <i>minor</i>      | The minor version of the package.     |
| <i>build</i>      | The build version of the package.     |
| <i>revision</i>   | The revision version of the package.  |

Returns:

A guid which represents a download key.

### *Guid*

***DataAccessServices.PackageManagement.PackageManagement\_v1.BeginPackageVersionUpload (Guid packageKey, String description, Guid packageVersionKey, out DateTime modifiedTime, int dataLength) [inline]***

Begins an upload of a package version.

Parameters:

|                    |                                       |
|--------------------|---------------------------------------|
| <i>packageKey</i>  | The key which represents the package. |
| <i>description</i> | Description of the package.           |

|                          |                                                 |
|--------------------------|-------------------------------------------------|
| <i>packageVersionKey</i> | The key which uniquely identifies this package. |
| <i>modifiedTime</i>      | The time the package was last modified.         |
| <i>dataLength</i>        | The length of data that will be uploaded.       |

Returns:

An upload key used to add data to the upload.

***void DataAccessServices.PackageManagement.PackageManagement\_v1.CommitPackageVersion(Guid packageVersionKey) [inline]***

Once a package has been fully uploaded it must be committed, this clears the In Progress flag and allows the package to be deployed.

Parameters:

|                          |                                                             |
|--------------------------|-------------------------------------------------------------|
| <i>packageVersionKey</i> | A package key guid which should be committed to the server. |
|--------------------------|-------------------------------------------------------------|

***Byte []***

***DataAccessServices.PackageManagement.PackageManagement\_v1.ContinuePackageVersionDownload(Guid downloadKey, Int32 offset, Int32 length) [inline]***

Continues a package download. The bytes of the package from 'offset' to 'offset + length' are returned.

Parameters:

|                    |                                         |
|--------------------|-----------------------------------------|
| <i>downloadKey</i> | The key which represents the download.  |
| <i>offset</i>      | The offset of the first byte to return. |
| <i>length</i>      | The number of bytes to download.        |

Returns:

Bytes from the package.

**void**

***DataAccessServices.PackageManagement.PackageManagement\_v1.ContinuePackageVersionUpload (Guid packageVersionKey, ref DateTime modifiedTime, Guid uploadKey, Int32 offset, Byte [] data) [inline]***

Continues an upload of a package version.

Parameters:

|                          |                                                 |
|--------------------------|-------------------------------------------------|
| <i>packageVersionKey</i> | The key which uniquely identifies this package. |
| <i>modifiedTime</i>      | The time the package was last modified          |
| <i>uploadKey</i>         | The key which represents the upload.            |
| <i>offset</i>            | The offset of the bytes currently uploaded.     |
| <i>data</i>              | The data to be uploaded.                        |

***void DataAccessServices.PackageManagement.PackageManagement\_v1.CreatePackage (Guid key, String name, String company, String type, PackageManagementWebServiceCode.Schemas.PackagePlatform\_v1 platform, Guid productKey, out DateTime modifiedTime) [inline]***

Creates a configuration package within the database.

Parameters:

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| <i>key</i>          | The Guid which identifies the package.                  |
| <i>name</i>         | The display name of the package.                        |
| <i>company</i>      | The company name.                                       |
| <i>type</i>         | The type of the package, i.e., Software, Configuration. |
| <i>platform</i>     | The platform of the package.                            |
| <i>productKey</i>   | The name of the product associated with this package.   |
| <i>modifiedTime</i> | The time the package was last modified.                 |

***void DataAccessServices.PackageManagement.PackageManagement\_v1.CreatePackageVersion(Guid packageKey, Guid packageVersionKey, Int32 major, Int32 minor, Int32 build, Int32 revision, Int32 creatorMajor, Int32 creatorMinor, Int32 creatorBuild, Int32 creatorRevision, Int32 dependentMinimumMajor, Int32 dependentMinimumMinor, Int32 dependentMinimumBuild, Int32 dependentMinimumRevision, Int32 dependentMaximumMajor, Int32 dependentMaximumMinor, Int32 dependentMaximumBuild, Int32 dependentMaximumRevision, string description, Boolean supportsMidSessionUpdate, out DateTime modifiedTime)[inline]***

Creates a package version entry in the database ready to be uploaded.

Parameters:

|                                 |                                                                                                            |
|---------------------------------|------------------------------------------------------------------------------------------------------------|
| <i>packageKey</i>               | A guid of the package where the package version is to be created.                                          |
| <i>packageVersionKey</i>        | A guid for the new package version to be created.                                                          |
| <i>major</i>                    | The major version of the package.                                                                          |
| <i>minor</i>                    | The minor version of the package.                                                                          |
| <i>build</i>                    | The build version of the package.                                                                          |
| <i>revision</i>                 | The revision version of the package.                                                                       |
| <i>creatorMajor</i>             | The major version of the console that created this package version (if the package is a configuration).    |
| <i>creatorMinor</i>             | The minor version of the console that created this package version (if the package is a configuration).    |
| <i>creatorBuild</i>             | The build version of the console that created this package version (if the package is a configuration).    |
| <i>creatorRevision</i>          | The revision version of the console that created this package version (if the package is a configuration). |
| <i>dependentMinimumMajor</i>    | The major (Minimum version) of an agent that this configuration supports.                                  |
| <i>dependentMinimumMinor</i>    | The minor (Minimum version) of an agent that this configuration supports.                                  |
| <i>dependentMinimumBuild</i>    | The build (Minimum version) of an agent that this configuration supports.                                  |
| <i>dependentMinimumRevision</i> | The revision (Minimum version) of an agent that this configuration supports.                               |

|                                 |                                                                                                                   |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <i>dependentMaximumMajor</i>    | The major (Maximum version) of an agent that this configuration supports.                                         |
| <i>dependentMaximumMinor</i>    | The minor (Maximum version) of an agent that this configuration supports.                                         |
| <i>dependentMaximumBuild</i>    | The build (Maximum version) of an agent that this configuration supports.                                         |
| <i>dependentMaximumRevision</i> | The revision (Maximum version) of an agent that this configuration supports.                                      |
| <i>description</i>              | A string describing the package version.                                                                          |
| <i>supportsMidSessionUpdate</i> | A boolean which indicates if this package version supports mid-session installs (if package is agent MSI or MSP). |
| <i>modifiedTime</i>             | The time that the package version was last modified.                                                              |

***void DataAccessServices.PackageManagement.PackageManagement\_v1.DeletePackage (Guid key, DateTime? modifiedTime) [inline]***

Deletes an existing package from the database.

Parameters:

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| <i>key</i>          | The key identifying the package that should be deleted. |
| <i>modifiedTime</i> | The time the package was last modified.                 |

***void DataAccessServices.PackageManagement.PackageManagement\_v1.DeletePackageVersion (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision, DateTime? modifiedTime) [inline]***

Deletes a package version from a package.

Parameters:

|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| <i>packageKey</i> | The key which identifies the package which contains the package version. |
| <i>major</i>      | The major version number of the package to remove.                       |
| <i>minor</i>      | The minor version number of the package to remove.                       |

|                     |                                                    |
|---------------------|----------------------------------------------------|
| <i>build</i>        | The build version number of the package to remove. |
| <i>revision</i>     | The revision number of the package to remove.      |
| <i>modifiedTime</i> | The time the package was last modified.            |

***void DataAccessServices.PackageManagement.PackageManagement\_v1.FinalisePackageVersion (Guid packageVersionKey) [inline]***

Check that a package version has been correctly uploaded.

Parameters:

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| <i>packageVersion<br/>Key</i> | A guid identifying the package version to check. |
|-------------------------------|--------------------------------------------------|

***PackageManagementWebServiceCode.Schemas.MachinesDataSet\_v1  
DataAccessServices.PackageManagement.PackageManagement\_v1.GetMachinesWithPackage (Guid packageKey) [inline]***

Returns the machines that have a particular package installed.

Parameters:

|                   |                                                                                  |
|-------------------|----------------------------------------------------------------------------------|
| <i>packageKey</i> | A package key that the machines in the MachinesDataSet_v1 should have installed. |
|-------------------|----------------------------------------------------------------------------------|

Returns:

A MachinesDataSet\_v1 that identifies machines that have a particular package installed.

***PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v1  
DataAccessServices.PackageManagement.PackageManagement\_v1.GetPackageFromKey (Guid key) [inline]***

Returns an individual package within the database.

Parameters:

|            |                                                |
|------------|------------------------------------------------|
| <i>key</i> | The key that identifies the package to return. |
|------------|------------------------------------------------|

Returns:

A data set describing the package and its versions.

Requires deployment or administrative access.

***PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v1  
DataAccessServices.PackageManagement.PackageManagement\_v1.GetPackageFromKeyWithinProgress (Guid key) [inline]***

Returns a package from the database that is currently in progress.

Parameters:

|            |                                        |
|------------|----------------------------------------|
| <i>key</i> | A guid of the package to be retrieved. |
|------------|----------------------------------------|

Returns:

A PackagesDataSet\_v1 containing the in progress package.

***PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v1  
DataAccessServices.PackageManagement.PackageManagement\_v1.GetPackages () [inline]***

Returns all packages and their versions stored within the database.

Returns:

A data set consisting of all packages and versions.

Requires deployment or administrative access.

***PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v1  
DataAccessServices.PackageManagement.PackageManagement\_v1.GetPackagesWithinProgress () [inline]***

Return packages that are currently in progress.

Returns:

A PackagesDataSet\_v1 containing the in progress packages.

**Int32**

***DataAccessServices.PackageManagement.PackageManagement\_v1.GetPackageVersionLength (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision) [inline]***

Determines the length of a version of a package.

Parameters:

|                   |                                       |
|-------------------|---------------------------------------|
| <i>packageKey</i> | The key which represents the package. |
| <i>major</i>      | The major version of the package.     |
| <i>minor</i>      | The minor version of the package.     |
| <i>build</i>      | The build version of the package.     |
| <i>revision</i>   | The revision version of the package.  |

Returns:

The length of data in bytes.

***String DataAccessServices.PackageManagement.PackageManagement\_v1.GetServerError () [inline]***

Returns any errors associated with the server. Verifies that the connection to the database is valid and that the database schema is the correct version number.

Returns:

A String containing the server error.

***void DataAccessServices.PackageManagement.PackageManagement\_v1.LockPackage (Guid packageKey) [inline]***

Locks a package for editing stopping other users from making changes to the package.

Parameters:

|                   |                                                   |
|-------------------|---------------------------------------------------|
| <i>packageKey</i> | The guid package key of the package to be locked. |
|-------------------|---------------------------------------------------|

***void DataAccessServices.PackageManagement.PackageManagement\_v1.UnlockPackage (Guid packageKey) [inline]***

Unlock a package to allow the package to be modified,

Parameters:

|                   |                                                |
|-------------------|------------------------------------------------|
| <i>packageKey</i> | A guid package key of the package to unlocked. |
|-------------------|------------------------------------------------|

***InterfaceStatus\_v1***

***DataAccessServices.PackageManagement.PackageManagement\_v1.VerifyInterface () [inline]***

This method returns an InterfaceStatus\_v1 if the current user can login to the current database.

Returns:

A InterfaceStatus\_v1 enum describing the interface status.

***void DataAccessServices.PackageManagement.PackageManagement\_v1.WIPSaved (Guid packageKey) [inline]***

Sets the package as a Work In Progress package which is not deployable.

Parameters:

|                   |                                              |
|-------------------|----------------------------------------------|
| <i>packageKey</i> | A guid for the package key to be set as WIP. |
|-------------------|----------------------------------------------|

---

***The documentation for this class was generated from the following file:***

- PackageManagement\_v1.cs

## DataAccessServices.PackageManagement.PackageManagement\_v2 Class Reference

This class contains functionality to manage packages in the Management Server (version 8.2 or greater) database.

### Public Member Functions

- Guid [BeginPackageVersionDownload](#) (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision)  
*Begins a package download.*
- Guid [BeginPackageVersionUpload](#) (Guid packageKey, String description, Guid packageVersionKey, out DateTime modifiedTime, int dataLength)  
*Begins an upload of a package version.*
- void [CommitPackageVersion](#) (Guid packageVersionKey)  
*Once a package has been fully uploaded it must be committed, this clears the In Progress flag and allows the package to be deployed.*
- Byte [] [ContinuePackageVersionDownload](#) (Guid downloadKey, Int32 offset, Int32 length)  
*Continues a package download. The bytes of the package from 'offset' to 'offset + length' are returned.*
- void [ContinuePackageVersionUpload](#) (Guid packageVersionKey, ref DateTime modifiedTime, Guid uploadKey, Int32 offset, Byte[] data)  
*Continues an upload of a package version.*
- void [CreatePackage](#) (Guid key, String company, String type, PackageManagementWebServiceCode.Schemas.PackagePlatform\_v1 platform, Guid productKey, out DateTime modifiedTime)  
*Creates a configuration package within the database.*
- void [CreatePackageVersion](#) (Guid packageKey, Guid packageVersionKey, String name, Int32 major, Int32 minor, Int32 build, Int32 revision, Int32 creatorMajor, Int32 creatorMinor, Int32 creatorBuild, Int32 creatorRevision, Int32 dependentMinimumMajor, Int32 dependentMinimumMinor, Int32 dependentMinimumBuild, Int32 dependentMinimumRevision, Int32 dependentMaximumMajor, Int32 dependentMaximumMinor, Int32 dependentMaximumBuild, Int32 dependentMaximumRevision, string description, Boolean supportsMidSessionUpdate, out DateTime modifiedTime)  
*Creates a package version entry in the database ready to be uploaded.*
- void [DeletePackage](#) (Guid key, DateTime? modifiedTime)  
*Deletes an existing package from the database.*
- void [DeletePackageVersion](#) (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision, DateTime? modifiedTime)  
*Deletes a package version from a package.*
- void [FinalisePackageVersion](#) (Guid packageVersionKey)  
*Check that a package version has been correctly uploaded.*
- PackageManagementWebServiceCode.Schemas.MachinesDataSet\_v1 [GetMachinesWithPackage](#) (Guid packageKey)  
*Returns the machines that have a particular package installed.*
- PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2 [GetPackageFromKey](#) (Guid key)  
*Returns an individual package within the database.*
- PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2 [GetPackageFromKeyWithInProgress](#) (Guid key)  
*Returns a package from the database that is currently in progress.*

- PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2 [GetPackages](#) ()  
*Returns all packages and their versions stored within the database.*
- PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2 [GetPackagesWithInProgress](#) ()  
*Return packages that are currently in progress.*
- Int32 [GetPackageVersionLength](#) (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision)  
*Determines the length of a version of a package.*
- String [GetServerError](#) ()  
*Returns any errors associated with the server. Verifies that the connection to the database is valid and that the database schema is the correct version number.*
- void [LockPackage](#) (Guid packageKey)  
*Locks a package for editing stopping other users from making changes to the package.*
- void [UnlockPackage](#) (Guid packageKey)  
*Unlock a package to allow the package to be modified,*
- InterfaceStatus\_v1 [VerifyInterface](#) ()  
*This method returns an InterfaceStatus\_v1 if the current user can login to the current database.*
- void [WIPSaved](#) (Guid packageKey)  
*Sets the package as a Work In Progress package which is not deployable.*

---

## Detailed Description

This class contains functionality to manage packages in the Management Server (version 8.2 or greater) database.

---

## Member Function Documentation

### *Guid*

***DataAccessServices.PackageManagement.PackageManagement\_v2.BeginPackageVersionDownload (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision) [inline]***

Begins a package download.

Parameters:

|                   |                                       |
|-------------------|---------------------------------------|
| <i>packageKey</i> | The key which represents the package. |
| <i>major</i>      | The major version of the package.     |
| <i>minor</i>      | The minor version of the package.     |
| <i>build</i>      | The build version of the package.     |
| <i>revision</i>   | The revision version of the package.  |

Returns:

A guid which represents a download key.

**Guid**

***DataAccessServices.PackageManagement.PackageManagement\_v2.BeginPackageVersionUpload (Guid packageKey, String description, Guid packageVersionKey, out DateTime modifiedTime, int dataLength)[inline]***

Begins an upload of a package version.

Parameters:

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| <i>packageKey</i>         | The key which represents the package.           |
| <i>description</i>        | Description of the package.                     |
| <i>packageVersion Key</i> | The key which uniquely identifies this package. |
| <i>revision</i>           | The revision version of the package.            |
| <i>modifiedTime</i>       | The time the package was last modified.         |
| <i>dataLength</i>         | The length of data that will be uploaded.       |

Returns:

An upload key used to add data to the upload.

***void DataAccessServices.PackageManagement.PackageManagement\_v2.CommitPackageVersion (Guid packageVersionKey)[inline]***

Once a package has been fully uploaded it must be committed, this clears the In Progress flag and allows the package to be deployed.

Parameters:

|                           |                                                             |
|---------------------------|-------------------------------------------------------------|
| <i>packageVersion Key</i> | A package key guid which should be committed to the server. |
|---------------------------|-------------------------------------------------------------|

**Byte []**

***DataService.PackageManagement.PackageManagement\_v2.ContinuePackageVersionDownload(Guid downloadKey, Int32 offset, Int32 length)[inline]***

Continues a package download. The bytes of the package from 'offset' to 'offset + length' are returned.

Parameters:

|                    |                                         |
|--------------------|-----------------------------------------|
| <i>downloadKey</i> | The key which represents the download.  |
| <i>offset</i>      | The offset of the first byte to return. |
| <i>length</i>      | The number of bytes to download.        |

Returns:

Bytes from the package.

**void**

***DataService.PackageManagement.PackageManagement\_v2.ContinuePackageVersionUpload(Guid packageVersionKey, ref DateTime modifiedTime, Guid uploadKey, Int32 offset, Byte [] data)[inline]***

Continues an upload of a package version.

Parameters:

|                          |                                                 |
|--------------------------|-------------------------------------------------|
| <i>packageVersionKey</i> | The key which uniquely identifies this package. |
| <i>modifiedTime</i>      | The time the package was last modified.         |
| <i>uploadKey</i>         | The key which represents the upload.            |
| <i>offset</i>            | The offset of the bytes currently uploaded.     |
| <i>data</i>              | The data to be uploaded.                        |

***void DataAccessServices.PackageManagement.PackageManagement\_v2.CreatePackage (Guid key, String company, String type, PackageManagementWebServiceCode.Schemas.PackagePlatform\_v1 platform, Guid productKey, out DateTime modifiedTime) [inline]***

Creates a configuration package within the database.

Parameters:

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| <i>key</i>          | The Guid which identifies the package.                  |
| <i>company</i>      | The company name.                                       |
| <i>type</i>         | The type of the package, i.e., Software, Configuration. |
| <i>platform</i>     | The platform of the package.                            |
| <i>productKey</i>   | The name of the product associated with this package.   |
| <i>modifiedTime</i> | The time the package was last modified.                 |

***void DataAccessServices.PackageManagement.PackageManagement\_v2.CreatePackageVersion (Guid packageKey, Guid packageVersionKey, String name, Int32 major, Int32 minor, Int32 build, Int32 revision, Int32 creatorMajor, Int32 creatorMinor, Int32 creatorBuild, Int32 creatorRevision, Int32 dependentMinimumMajor, Int32 dependentMinimumMinor, Int32 dependentMinimumBuild, Int32 dependentMinimumRevision, Int32 dependentMaximumMajor, Int32 dependentMaximumMinor, Int32 dependentMaximumBuild, Int32 dependentMaximumRevision, string description, Boolean supportsMidSessionUpdate, out DateTime modifiedTime) [inline]***

Creates a package version entry in the database ready to be uploaded.

Parameters:

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| <i>packageKey</i>         | A guid of the package where the package version is to be created. |
| <i>packageVersion Key</i> | A guid for the new package version to be created.                 |
| <i>name</i>               | The name of the package.                                          |
| <i>major</i>              | The major version of the package.                                 |
| <i>minor</i>              | The minor version of the package.                                 |

|                                 |                                                                                                                   |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <i>build</i>                    | The build version of the package.                                                                                 |
| <i>revision</i>                 | The revision version of the package.                                                                              |
| <i>creatorMajor</i>             | The major version of the console that created this package version (if the package is a configuration).           |
| <i>creatorMinor</i>             | The minor version of the console that created this package version (if the package is a configuration).           |
| <i>creatorBuild</i>             | The build version of the console that created this package version (if the package is a configuration).           |
| <i>creatorRevision</i>          | The revision version of the console that created this package version (if the package is a configuration).        |
| <i>dependentMinimumMajor</i>    | The major (Minimum version) of an agent that this configuration supports.                                         |
| <i>dependentMinimumMinor</i>    | The minor (Minimum version) of an agent that this configuration supports.                                         |
| <i>dependentMinimumBuild</i>    | The build (Minimum version) of an agent that this configuration supports.                                         |
| <i>dependentMinimumRevision</i> | The revision (Minimum version) of an agent that this configuration supports.                                      |
| <i>dependentMaximumMajor</i>    | The major (Maximum version) of an agent that this configuration supports.                                         |
| <i>dependentMaximumMinor</i>    | The minor (Maximum version) of an agent that this configuration supports.                                         |
| <i>dependentMaximumBuild</i>    | The build (Maximum version) of an agent that this configuration supports.                                         |
| <i>dependentMaximumRevision</i> | The revision (Maximum version) of an agent that this configuration supports.                                      |
| <i>description</i>              | A string describing the package version.                                                                          |
| <i>supportsMidSessionUpdate</i> | A boolean which indicates if this package version supports mid-session installs (if package is agent MSI or MSP). |
| <i>modifiedTime</i>             | The time that the package version was last modified.                                                              |

***void DataAccessServices.PackageManagement.PackageManagement\_v2.DeletePackage (Guid key, DateTime? modifiedTime) [inline]***

Deletes an existing package from the database.

Parameters:

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| <i>key</i>          | The key identifying the package that should be deleted. |
| <i>modifiedTime</i> | The time the package was last modified.                 |

***void DataAccessServices.PackageManagement.PackageManagement\_v2.DeletePackageVersion (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision, DateTime? modifiedTime) [inline]***

Deletes a package version from a package.

Parameters:

|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| <i>packageKey</i>   | The key which identifies the package which contains the package version. |
| <i>major</i>        | The major version number of the package to remove.                       |
| <i>minor</i>        | The minor version number of the package to remove.                       |
| <i>build</i>        | The build version number of the package to remove.                       |
| <i>revision</i>     | The revision number of the package to remove.                            |
| <i>modifiedTime</i> | The time the package was last modified.                                  |

***void DataAccessServices.PackageManagement.PackageManagement\_v2.FinalisePackageVersion (Guid packageVersionKey) [inline]***

Check that a package version has been correctly uploaded.

Parameters:

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| <i>packageVersion Key</i> | A guid which is the package version which should be checked. |
|---------------------------|--------------------------------------------------------------|

***PackageManagementWebServiceCode.Schemas.MachinesDataSet\_v1  
DataAccessServices.PackageManagement.PackageManagement\_v2.GetMachinesWithPackage  
(Guid packageKey) [inline]***

Returns the machines that have a particular package installed.

Parameters:

|                   |                                                                                  |
|-------------------|----------------------------------------------------------------------------------|
| <i>packageKey</i> | A package key that the machines in the MachinesDataSet_v1 should have installed. |
|-------------------|----------------------------------------------------------------------------------|

Returns:

A MachinesDataSet\_v1 that identifies machines that have a particular package installed.

***PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2  
DataAccessServices.PackageManagement.PackageManagement\_v2.GetPackageFromKey (Guid  
key) [inline]***

Returns an individual package within the database.

Parameters:

|            |                                                |
|------------|------------------------------------------------|
| <i>key</i> | The key that identifies the package to return. |
|------------|------------------------------------------------|

Returns:

A data set describing the package and its versions.

Requires deployment or administrative access.

***PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2  
DataAccessServices.PackageManagement.PackageManagement\_v2.GetPackageFromKeyWithinPr  
ogress (Guid key) [inline]***

Returns a package from the database that is currently in progress.

Parameters:

|            |                                        |
|------------|----------------------------------------|
| <i>key</i> | A guid of the package to be retrieved. |
|------------|----------------------------------------|

Returns:

A PackagesDataSet\_v1 containing the in progress package.

***PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2  
DataAccessServices.PackageManagement.PackageManagement\_v2.GetPackages () [inline]***

Returns all packages and their versions stored within the database.

Returns:

A data set consisting of all packages and versions.

Requires deployment or administrative access.

***PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2  
DataAccessServices.PackageManagement.PackageManagement\_v2.GetPackagesWithInProgress  
() [inline]***

Return packages that are currently in progress.

Returns:

A PackagesDataSet\_v1 containing the in-progress packages.

***Int32  
DataAccessServices.PackageManagement.PackageManagement\_v2.GetPackageVersionLength  
(Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision) [inline]***

Determines the length of a version of a package.

Parameters:

|                   |                                       |
|-------------------|---------------------------------------|
| <i>packageKey</i> | The key which represents the package. |
| <i>major</i>      | The major version of the package.     |
| <i>minor</i>      | The minor version of the package.     |
| <i>build</i>      | The build version of the package.     |
| <i>revision</i>   | The revision version of the package.  |

Returns:

The length of data in bytes.

***String DataAccessServices.PackageManagement.PackageManagement\_v2.GetServerError()  
[inline]***

Returns any errors associated with the server. Verifies that the connection to the database is valid and that the database schema is the correct version number.

***void DataAccessServices.PackageManagement.PackageManagement\_v2.LockPackage (Guid packageKey) [inline]***

Locks a package for editing stopping other users from making changes to the package.

Parameters:

|                   |                                                   |
|-------------------|---------------------------------------------------|
| <i>packageKey</i> | The guid package key of the package to be locked. |
|-------------------|---------------------------------------------------|

***void DataAccessServices.PackageManagement.PackageManagement\_v2.UnlockPackage (Guid packageKey) [inline]***

Unlock a package to allow the package to be modified.

Parameters:

|                   |                                                |
|-------------------|------------------------------------------------|
| <i>packageKey</i> | A guid package key of the package to unlocked. |
|-------------------|------------------------------------------------|

***InterfaceStatus\_v1***

***DataAccessServices.PackageManagement.PackageManagement\_v2.VerifyInterface () [inline]***

This method returns an InterfaceStatus\_v1 if the current user can login to the current database.

Returns:

A InterfaceStatus\_v1 enum describing the interface status.

***void DataAccessServices.PackageManagement.PackageManagement\_v2.WIPSaved (Guid packageKey) [inline]***

Sets the package as a Work In Progress package which is not deployable.

Parameters:

|                   |                                              |
|-------------------|----------------------------------------------|
| <i>packageKey</i> | A guid for the package key to be set as WIP. |
|-------------------|----------------------------------------------|

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***The documentation for this class was generated from the following file:***

- PackageManagement\_v2.cs

## DataAccessServices.PackageManagement.PackageManagement\_v3 Class Reference

This class contains functionality to manage packages in the Management Server (version 8.2 or greater) database.

### Public Member Functions

- Guid [BeginPackageVersionDownload](#) (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision)  
*Begins a package download.*
- Guid [BeginPackageVersionUpload](#) (Guid packageKey, String description, Guid packageVersionKey, out DateTime modifiedTime, int dataLength)  
*Begins an upload of a package version.*
- void [CommitPackageVersion](#) (Guid packageVersionKey)  
*Once a package has been fully uploaded it must be committed, this clears the In Progress flag and allows the package to be deployed.*
- Byte [] [ContinuePackageVersionDownload](#) (Guid downloadKey, Int32 offset, Int32 length)  
*Continues a package download. The bytes of the package from 'offset' to 'offset + length' are returned.*
- void [ContinuePackageVersionUpload](#) (Guid packageVersionKey, ref DateTime modifiedTime, Guid uploadKey, Int32 offset, Byte[] data)  
*Continues an upload of a package version.*
- void [CreatePackage](#) (Guid key, String company, String type, PackageManagementWebServiceCode.Schemas.PackagePlatform\_v1 platform, Guid productKey, out DateTime modifiedTime)  
*Creates a configuration package within the database.*
- void [CreatePackageVersion](#) (Guid packageKey, Guid packageVersionKey, String name, Int32 major, Int32 minor, Int32 build, Int32 revision, string marketingVersion, Int32 creatorMajor, Int32 creatorMinor, Int32 creatorBuild, Int32 creatorRevision, Int32 dependentMinimumMajor, Int32 dependentMinimumMinor, Int32 dependentMinimumBuild, Int32 dependentMinimumRevision, Int32 dependentMaximumMajor, Int32 dependentMaximumMinor, Int32 dependentMaximumBuild, Int32 dependentMaximumRevision, string description, Boolean supportsMidSessionUpdate, out DateTime modifiedTime)  
*Creates a package version entry in the database ready to be uploaded.*
- void [DeletePackage](#) (Guid key, DateTime? modifiedTime)  
*Deletes an existing package from the database.*
- void [DeletePackageVersion](#) (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision, DateTime? modifiedTime)  
*Deletes a package version from a package.*
- void [FinalisePackageVersion](#) (Guid packageVersionKey)  
*Check that a package version has been correctly uploaded.*
- PackageManagementWebServiceCode.Schemas.MachinesDataSet\_v1 [GetMachinesWithPackage](#) (Guid packageKey)  
*Returns the machines that have a particular package installed.*
- PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2 [GetPackageFromKey](#) (Guid key)  
*Returns an individual package within the database.*
- PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2 [GetPackageFromKeyWithInProgress](#) (Guid key)  
*Returns a package from the database that is currently in progress.*

- `PackageManagementWebServiceCode.Schemas.PackagesDataSet_v2` [GetPackages](#) ()  
*Returns all packages and their versions stored within the database.*
- `PackageManagementWebServiceCode.Schemas.PackagesDataSet_v2` [GetPackagesWithInProgress](#) ()  
*Return packages that are currently in progress.*
- `Int32` [GetPackageVersionLength](#) (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision)  
*Determines the length of a version of a package.*
- `String` [GetServerError](#) ()  
*Returns any errors associated with the server. Verifies that the connection to the database is valid and that the database schema is the correct version number.*
- `void` [LockPackage](#) (Guid packageKey)  
*Locks a package for editing stopping other users from making changes to the package.*
- `void` [UnlockPackage](#) (Guid packageKey)  
*Unlock a package to allow the package to be modified,*
- `InterfaceStatus_v1` [VerifyInterface](#) ()  
*This method returns an InterfaceStatus\_v1 if the current user can login to the current database.*
- `void` [WIPSaved](#) (Guid packageKey)  
*Sets the package as a Work In Progress package which is not deployable.*

---

## Detailed Description

This class contains functionality to manage packages in the Management Server (version 8.2 or greater) database.

---

## Member Function Documentation

### **Guid**

***DataAccessServices.PackageManagement.PackageManagement\_v3.BeginPackageVersionDownload (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision) [inline]***

Begins a package download.

Parameters:

|                   |                                       |
|-------------------|---------------------------------------|
| <i>packageKey</i> | The key which represents the package. |
| <i>major</i>      | The major version of the package.     |
| <i>minor</i>      | The minor version of the package.     |
| <i>build</i>      | The build version of the package.     |
| <i>revision</i>   | The revision version of the package.  |

Returns:

A guid which represents a download key.

**Guid**

***DataAccessServices.PackageManagement.PackageManagement\_v3.BeginPackageVersionUpload (Guid packageKey, String description, Guid packageVersionKey, out DateTime modifiedTime, int dataLength)[inline]***

Begins an upload of a package version.

Parameters:

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| <i>packageKey</i>         | The key which represents the package.           |
| <i>description</i>        | Description of the package.                     |
| <i>packageVersion Key</i> | The key which uniquely identifies this package. |
| <i>revision</i>           | The revision version of the package.            |
| <i>modifiedTime</i>       | The time the package was last modified.         |
| <i>dataLength</i>         | The length of data that will be uploaded.       |

Returns:

An upload key used to add data to the upload.

***void DataAccessServices.PackageManagement.PackageManagement\_v3.CommitPackageVersion (Guid packageVersionKey)[inline]***

Once a package has been fully uploaded it must be committed, this clears the In Progress flag and allows the package to be deployed.

Parameters:

|                           |                                                             |
|---------------------------|-------------------------------------------------------------|
| <i>packageVersion Key</i> | A package key guid which should be committed to the server. |
|---------------------------|-------------------------------------------------------------|

**Byte []**

***DataService.PackageManagement.PackageManagement\_v3.ContinuePackageVersionDownload (Guid downloadKey, Int32 offset, Int32 length) [inline]***

Continues a package download. The bytes of the package from 'offset' to 'offset + length' are returned.

Parameters:

|                    |                                         |
|--------------------|-----------------------------------------|
| <i>downloadKey</i> | The key which represents the download.  |
| <i>offset</i>      | The offset of the first byte to return. |
| <i>length</i>      | The number of bytes to download.        |

Returns:

Bytes from the package.

**void**

***DataService.PackageManagement.PackageManagement\_v3.ContinuePackageVersionUpload (Guid packageVersionKey, ref DateTime modifiedTime, Guid uploadKey, Int32 offset, Byte [] data) [inline]***

Continues an upload of a package version.

Parameters:

|                          |                                                 |
|--------------------------|-------------------------------------------------|
| <i>packageVersionKey</i> | The key which uniquely identifies this package. |
| <i>modifiedTime</i>      | The time the package was last modified.         |
| <i>uploadKey</i>         | The key which represents the upload.            |
| <i>offset</i>            | The offset of the bytes currently uploaded.     |
| <i>data</i>              | The data to be uploaded.                        |

***void DataAccessServices.PackageManagement.PackageManagement\_v3.CreatePackage (Guid key, String company, String type, PackageManagementWebServiceCode.Schemas.PackagePlatform\_v1 platform, Guid productKey, out DateTime modifiedTime) [inline]***

Creates a configuration package within the database.

Parameters:

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| <i>key</i>          | The Guid which identifies the package.                 |
| <i>company</i>      | The company name.                                      |
| <i>type</i>         | The type of the package, i.e. Software, Configuration. |
| <i>platform</i>     | The platform of the package.                           |
| <i>productKey</i>   | The name of the product associated with this package.  |
| <i>modifiedTime</i> | The time the package was last modified.                |

***void DataAccessServices.PackageManagement.PackageManagement\_v3.CreatePackageVersion (Guid packageKey, Guid packageVersionKey, String name, Int32 major, Int32 minor, Int32 build, Int32 revision, string marketingVersion, Int32 creatorMajor, Int32 creatorMinor, Int32 creatorBuild, Int32 creatorRevision, Int32 dependentMinimumMajor, Int32 dependentMinimumMinor, Int32 dependentMinimumBuild, Int32 dependentMinimumRevision, Int32 dependentMaximumMajor, Int32 dependentMaximumMinor, Int32 dependentMaximumBuild, Int32 dependentMaximumRevision, string description, Boolean supportsMidSessionUpdate, out DateTime modifiedTime) [inline]***

Creates a package version entry in the database ready to be uploaded.

Parameters:

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| <i>packageKey</i>         | A guid of the package where the package version is to be created. |
| <i>packageVersion Key</i> | A guid for the new package version to be created.                 |
| <i>name</i>               | The name of the package.                                          |
| <i>major</i>              | The major version of the package.                                 |
| <i>minor</i>              | The minor version of the package.                                 |

|                                 |                                                                                                                   |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <i>build</i>                    | The build version of the package.                                                                                 |
| <i>revision</i>                 | The revision version of the package.                                                                              |
| <i>creatorMajor</i>             | The major version of the console that created this package version (if the package is a configuration).           |
| <i>creatorMinor</i>             | The minor version of the console that created this package version (if the package is a configuration).           |
| <i>creatorBuild</i>             | The build version of the console that created this package version (if the package is a configuration).           |
| <i>creatorRevision</i>          | The revision version of the console that created this package version (if the package is a configuration).        |
| <i>dependentMinimumMajor</i>    | The major (Minimum version) of an agent that this configuration supports.                                         |
| <i>dependentMinimumMinor</i>    | The minor (Minimum version) of an agent that this configuration supports.                                         |
| <i>dependentMinimumBuild</i>    | The build (Minimum version) of an agent that this configuration supports.                                         |
| <i>dependentMinimumRevision</i> | The revision (Minimum version) of an agent that this configuration supports.                                      |
| <i>dependentMaximumMajor</i>    | The major (Maximum version) of an agent that this configuration supports.                                         |
| <i>dependentMaximumMinor</i>    | The minor (Maximum version) of an agent that this configuration supports.                                         |
| <i>dependentMaximumBuild</i>    | The build (Maximum version) of an agent that this configuration supports.                                         |
| <i>dependentMaximumRevision</i> | The revision (Maximum version) of an agent that this configuration supports.                                      |
| <i>description</i>              | A string describing the package version.                                                                          |
| <i>supportsMidSessionUpdate</i> | A boolean which indicates if this package version supports mid-session installs (if package is agent MSI or MSP). |
| <i>modifiedTime</i>             | The time that the package version was last modified.                                                              |

***void DataAccessServices.PackageManagement.PackageManagement\_v3.DeletePackage (Guid key, DateTime? modifiedTime) [inline]***

Deletes an existing package from the database.

Parameters:

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| <i>key</i>          | The key identifying the package that should be deleted. |
| <i>modifiedTime</i> | The time the package was last modified.                 |

***void DataAccessServices.PackageManagement.PackageManagement\_v3.DeletePackageVersion (Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision, DateTime? modifiedTime) [inline]***

Deletes a package version from a package.

Parameters:

|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| <i>packageKey</i>   | The key which identifies the package which contains the package version. |
| <i>major</i>        | The major version number of the package to remove.                       |
| <i>minor</i>        | The minor version number of the package to remove.                       |
| <i>build</i>        | The build version number of the package to remove.                       |
| <i>revision</i>     | The revision number of the package to remove.                            |
| <i>modifiedTime</i> | The time the package was last modified.                                  |

***void DataAccessServices.PackageManagement.PackageManagement\_v3.FinalisePackageVersion (Guid packageVersionKey) [inline]***

Check that a package version has been correctly uploaded.

Parameters:

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| <i>packageVersion Key</i> | A guid which is the package version which should be checked. |
|---------------------------|--------------------------------------------------------------|

***PackageManagementWebServiceCode.Schemas.MachinesDataSet\_v1  
DataAccessServices.PackageManagement.PackageManagement\_v3.GetMachinesWithPackage  
(Guid packageKey) [inline]***

Returns the machines that have a particular package installed.

Parameters:

|                   |                                                                                  |
|-------------------|----------------------------------------------------------------------------------|
| <i>packageKey</i> | A package key that the machines in the MachinesDataSet_v1 should have installed. |
|-------------------|----------------------------------------------------------------------------------|

Returns:

A MachinesDataSet\_v1 that identifies machines that have a particular package installed.

***PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2  
DataAccessServices.PackageManagement.PackageManagement\_v3.GetPackageFromKey (Guid  
key) [inline]***

Returns an individual package within the database.

Parameters:

|            |                                                |
|------------|------------------------------------------------|
| <i>key</i> | The key that identifies the package to return. |
|------------|------------------------------------------------|

Returns:

A data set describing the package and its versions.

Requires deployment or administrative access.

***PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2  
DataAccessServices.PackageManagement.PackageManagement\_v3.GetPackageFromKeyWithinPr  
ogress (Guid key) [inline]***

Returns a package from the database that is currently in progress.

Parameters:

|            |                                        |
|------------|----------------------------------------|
| <i>key</i> | A guid of the package to be retrieved. |
|------------|----------------------------------------|

Returns:

A PackagesDataSet\_v1 containing the in progress package.

***PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2  
DataAccessServices.PackageManagement.PackageManagement\_v3.GetPackages () [inline]***

Returns all packages and their versions stored within the database.

Returns:

A data set consisting of all packages and versions.

Requires deployment or administrative access.

***PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2  
DataAccessServices.PackageManagement.PackageManagement\_v3.GetPackagesWithInProgress  
() [inline]***

Return packages that are currently in progress.

Returns:

A PackagesDataSet\_v1 containing the in progress packages.

***Int32  
DataAccessServices.PackageManagement.PackageManagement\_v3.GetPackageVersionLength  
(Guid packageKey, Int32 major, Int32 minor, Int32 build, Int32 revision) [inline]***

Determines the length of a version of a package.

Parameters:

|                   |                                       |
|-------------------|---------------------------------------|
| <i>packageKey</i> | The key which represents the package. |
| <i>major</i>      | The major version of the package.     |
| <i>minor</i>      | The minor version of the package.     |
| <i>build</i>      | The build version of the package.     |
| <i>revision</i>   | The revision version of the package.  |

Returns:

The length of data in bytes.

***String DataAccessServices.PackageManagement.PackageManagement\_v3.GetServerError()  
[inline]***

Returns any errors associated with the server. Verifies that the connection to the database is valid and that the database schema is the correct version number.

***void DataAccessServices.PackageManagement.PackageManagement\_v3.LockPackage (Guid packageKey) [inline]***

Locks a package for editing stopping other users from making changes to the package.

Parameters:

|                   |                                                   |
|-------------------|---------------------------------------------------|
| <i>packageKey</i> | The guid package key of the package to be locked. |
|-------------------|---------------------------------------------------|

***void DataAccessServices.PackageManagement.PackageManagement\_v3.UnlockPackage (Guid packageKey) [inline]***

Unlock a package to allow the package to be modified.

Parameters:

|                   |                                                |
|-------------------|------------------------------------------------|
| <i>packageKey</i> | A guid package key of the package to unlocked. |
|-------------------|------------------------------------------------|

***InterfaceStatus\_v1***

***DataAccessServices.PackageManagement.PackageManagement\_v3.VerifyInterface () [inline]***

This method returns an InterfaceStatus\_v1 if the current user can login to the current database.

Returns:

A InterfaceStatus\_v1 enum describing the interface status.

***void DataAccessServices.PackageManagement.PackageManagement\_v3.WIPSaved (Guid packageKey) [inline]***

Sets the package as a Work In Progress package which is not deployable.

Parameters:

|                   |                                              |
|-------------------|----------------------------------------------|
| <i>packageKey</i> | A guid for the package key to be set as WIP. |
|-------------------|----------------------------------------------|

---

***The documentation for this class was generated from the following file:***

- PackageManagement\_v3.cs

## DataAccessServices.PackageManagement.RowFixerNeeded Class Reference

### Public Member Functions

- **RowFixerNeeded** (DataTable targetTable, DataColumn targetColumn, DataTable sourceTable, DataColumn sourceColumn)

---

The documentation for this class was generated from the following file:

- TableCopier.cs

## DataAccessServices.PackageManagement.TableCopier Class Reference

### Public Member Functions

- delegate void **FixUpRow** (System.Data.DataRow targetRow, System.Data.DataRow sourceRow)

### Static Public Member Functions

- static bool **CanCopy** (DataColumn targetColumn, DataColumn sourceColumn)
- static void **CopyTable** (System.Data.DataTable sourceTable, System.Data.DataTable targetTable, FixUpRow rowFixer)
- static bool **HasMaxLength** (System.Data.DataColumn col)

---

The documentation for this class was generated from the following file:

- TableCopier.cs