



Management Center

# Package Management Web Service API Guide

Version 2020.2



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# Disclaimer

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# Introduction

This document details the web services interface exposed by the AppSense Management Server. While primarily used by the AppSense Management Console this interface is available for others to use.

## Caution

AppSense 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 AppSense 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.

## Management Console

### Proxy DLL

The Management Console product ships with a web services proxy DLL used by the console for communication with the server. Third party tools may use this interface for convenience, or may access the APIs directly via the web services described in this document. The following DLLs are provided:

- Data Access Endpoints: [InstallDir]\Management Center\Console\ManagementConsole.WebServices.dll
- Package Management Endpoint: [InstallDir]\Management Center\Console\PackageManager.dll (this also requires CommonDialogs.dll)

### Caution

The AppSense Management Console must be installed before using the Proxy DLLs directly to ensure that any dependant DLLs are also available. This step is not required if the APIs are accessed directly via the web services

### Authorization & Security

A full set of credentials should be specified when using the Proxy DLL by passing an instance of NetworkCredential. An example of this can be found under “Connecting to the Package Management Endpoint”

### Limitations

Some types defined in the proxy DLL 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

## Package Management Endpoint Tasks

### Connecting to the PackageManagement Endpoint

Firstly, ensure that the latest version of the Management Console is installed. Before using the API a connection to the Management Server must be established. This involves:

- Loading the proxy DLL
- Instantiating a NetworkCredential instance
- Call the GetPackageServer method of PackageManagement.PackageServerFactory

To logon as the current user:

```
# Load proxy DLLAdd-Type -Path "${Env:ProgramFiles}\AppSense\Management  
Center\Console\PackageManager.dll"
```

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

```
# Get NetworkCredential instance$credentials =  
[System.Net.CredentialCache]::DefaultCredentials$credential = $credentials.GetCredential($url,  
"Basic")
```

```
# Create connection to the Management  
Server[PackageManagement.PackageServerFactory]::GetPackageServer($url, $credential)
```

To specify a user to logon as:

```
# Load proxy DLLAdd-Type -Path "${Env:ProgramFiles}\AppSense\Management  
Center\Console\PackageManager.dll"
```

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

```
# Get NetworkCredential instance$credential = New-Object System.Net.NetworkCredential -Property  
Username = "MyUsername"; Password = "MyPassword"; Domain = "MyDomain";}
```

```
# Create connection to the Management  
Server[PackageManagement.PackageServerFactory]::GetPackageServer($url, $credential)
```



## Retrieving Package Details

Packages are managed using the PackagesWebService. For convenience when using the Proxy DLL a reference to this web service is available from ManagementConsole.WebServices.Packages once a connection is established. Packages can be retrieved using the PackagesService.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.

```
# Get Packages Web Service reference$PackagesWebService =  
[PackageManagement.PackageServerFactory]::GetPackageServer($url, $credential)
```

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

## Uploading/Downloading Packages

Management Center packages can be created through the API using the PackagesWebService. Each package stored in the Management Center 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

Alerts

AlertsRow

# DataRows - Machines

## Machines

### MachinesRow

Provides data on each machine in the Management Center. The Platform column contains either 1 for a 32-bit machine, or 2 for a 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	Data Type	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 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 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	Data Type	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	

### MatchResultsRow

Represents a match result on the server

Column	Data Type	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 and 2 for 64-bit. The type 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	Data Type	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	

### 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	Data Type	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	Data Type	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

### 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

Column	DataType	Description
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	

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## Namespace List

Here is a list of all documented namespaces with brief descriptions:

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# Hierarchical Index

## Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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# Class Index

## Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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<a href="#"><u>DataAccessServices.PackageManagement.PackageManagement_v2</u></a> (This class contains functionality to manage packages in the Management Server (version 8.2 or greater) database. ) .....	31
<a href="#"><u>DataAccessServices.PackageManagement.PackageManagement_v3</u></a> (This class contains functionality to manage packages in the Management Server (version 8.2 or greater) database. ) .....	39
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# Namespace Documentation

## DataAccessServices Namespace Reference

### Namespaces

- namespace [PackageManagement](#)

## 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](#)

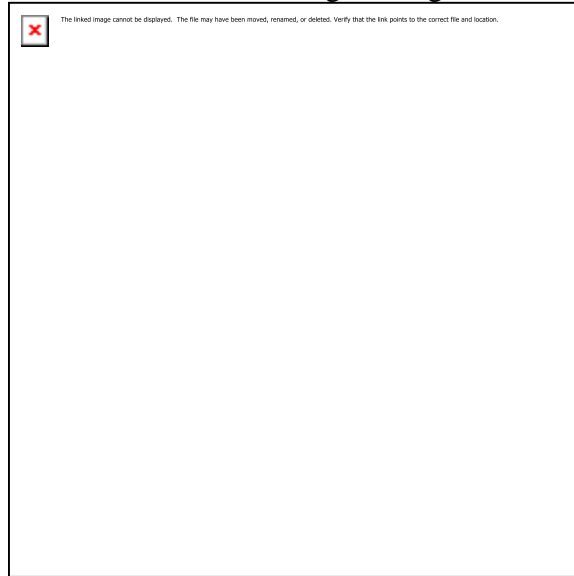


# Class Documentation

## DataAccessServices.PackageManagement.PackageManagement\_v1 Class Reference

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

Inheritance diagram for DataAccessServices.PackageManagement.PackageManagement\_v1:



### 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>packageVersionKey</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.
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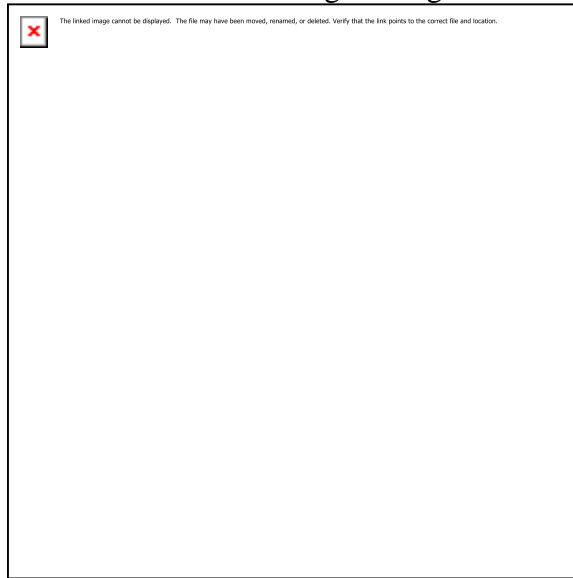
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**The documentation for this class was generated from the following file:**

- 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.  
Inheritance diagram for DataAccessServices.PackageManagement.PackageManagement\_v2:



### 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.

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

**Byte []**

**DataAccessServices.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**

**DataAccessServices.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>packageVersionKey</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>packageVersionKey</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.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\_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.
-------------------	--

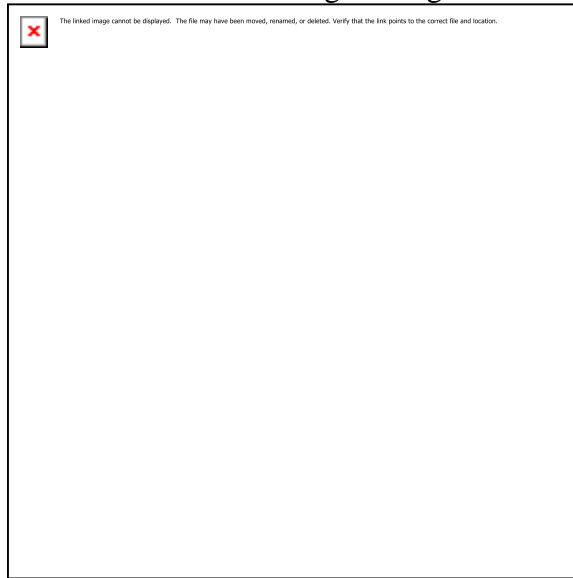
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**The documentation for this class was generated from the following file:**

- 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.  
Inheritance diagram for DataAccessServices.PackageManagement.PackageManagement\_v3:



### 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>packageVersionKey</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>packageVersionKey</i>	A package key guid which should be committed to the server.
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**Byte []**

**DataAccessServices.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**

**DataAccessServices.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>packageVersionKey</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>packageVersionKey</i>	A guid which is the package version which should be checked.
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**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.
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**Returns:**

A data set describing the package and its versions.

Requires deployment or administrative access.

**PackageManagementWebServiceCode.Schemas.PackagesDataSet\_v2  
DataAccessServices.PackageManagement.PackageManagement\_v3.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.
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**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.
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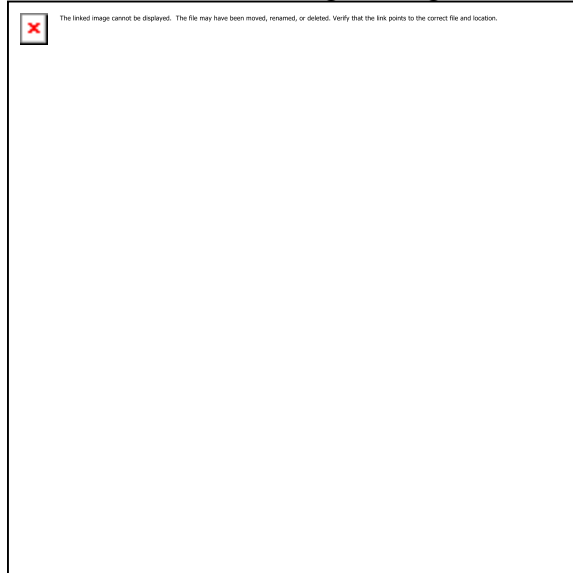
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**The documentation for this class was generated from the following file:**

- PackageManagement\_v3.cs

## DataAccessServices.PackageManagement.RowFixerNeeded Class Reference

Inheritance diagram for DataAccessServices.PackageManagement.RowFixerNeeded:



### 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

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