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# Ticket Services Reference

[Printing > Carbon](#)



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### **Document Revision History 135**

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# Ticket Services Reference

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<b>Framework:</b>	ApplicationServices/ApplicationServices.h, Carbon/Carbon.h
<b>Declared in</b>	PMDefinitions.h PMDefinitionsDeprecated.h PMTemplate.h PMTicket.h PMTicketDeprecated.h

## Overview

Ticket Services provides the functions and data types used to communicate printing information (page format and print settings) among the various modules in the printing system. Developers who write printing dialog extensions and printer modules need to use the functions described in this reference and also need to consult the *Printing Plug-in Interfaces Reference*. Developers who write applications do not need this reference; see the *Carbon Printing Manager Reference* instead.

## Functions by Task

### Managing Tickets

- [PMTicketCreate](#) (page 51)  
Creates a new ticket.
- [PMTicketValidate](#) (page 97)  
Validates a ticket against the constraint values specified in a job template.
- [PMTicketRetain](#) (page 76)  
Increments the retention count of a ticket object.
- [PMTicketRemoveTicket](#) (page 75)  
Removes a subticket from a ticket.
- [PMTicketRelease](#) (page 74)  
Decrements the retention count of a ticket object.
- [PMTicketReleaseAndClear](#) (page 74)  
Decrements the retention count of a ticket and sets the ticket reference to NULL.
- [PMTicketCopy](#) (page 49)  
Copies a ticket.
- [PMTicketCreateTemplate](#) (page 51)  
Retrieves a template from a ticket.

- [PMTicketCopyItem](#) (page 50)  
Copies an item from one ticket to another ticket.
- [PMTicketReleaseItem](#) (page 75)  
Removes an item from a ticket.
- [PMTicketDeleteItem](#) (page 52)  
Makes an item in a ticket unavailable.
- [PMTicketLockItem](#) (page 72)  
Locks an item in a ticket.
- [PMTicketUnlockItem](#) (page 96)  
Unlocks an item in a ticket.
- [PMTicketIsItemLocked](#) (page 72)  
Checks to see if an item in a ticket is locked.
- [PMTicketConfirmTicket](#) (page 48)  
Checks whether a ticket appears to be valid.
- [PMTicketContainsItem](#) (page 48)  
Checks whether an item exists in a ticket.
- [PMTicketContainsTicket](#) (page 49)  
Checks whether a ticket is contained in another ticket.
- [PMTicketFillFromArray](#) (page 53)  
Adds items defined in an array of ticket item structures to a ticket.

## Setting Ticket Items

- [PMTicketSetBoolean](#) (page 76)  
Writes an item of type `Boolean` to a ticket.
- [PMTicketSetBytes](#) (page 77)  
Writes an item that's an array of type `UInt8` to a ticket.
- [PMTicketSetCFArray](#) (page 78)  
Writes an item of type `CFArray` to a ticket.
- [PMTicketSetCFBoolean](#) (page 78)  
Writes an item of type `CFBoolean` to a ticket.
- [PMTicketSetCFData](#) (page 79)  
Writes an item of type `CFData` to a ticket.
- [PMTicketSetCFDate](#) (page 80)  
Writes an item of type `CFDate` to a ticket.
- [PMTicketSetCFDictionary](#) (page 81)  
Writes an item of type `CFDictionary` to a ticket.
- [PMTicketSetCFNumber](#) (page 81)  
Writes an item of type `CFNumber` to a ticket.
- [PMTicketSetCFString](#) (page 82)  
Writes an item of type `CFString` to a ticket.
- [PMTicketSetCString](#) (page 83)  
Writes an item that's a C-style string to a ticket.

[PMTicketSetCStringArray](#) (page 84)

Writes an item that's an array of C-style strings to a ticket.

[PMTicketSetDouble](#) (page 84)

Writes an item of type `double` to a ticket.

[PMTicketSetDoubleArray](#) (page 85)

Writes an item that's an array of values of type `double` to a ticket.

[PMTicketSetItem](#) (page 86)

Writes an item of type `CType` to a ticket.

[PMTicketSetPMRect](#) (page 87)

Writes an item of type `PMRect` to a ticket.

[PMTicketSetPMRectArray](#) (page 88)

Writes an item that's an array of values of type `PMRect` to a ticket.

[PMTicketSetPMResolution](#) (page 89)

Writes an item of type `PMResolution` to a ticket.

[PMTicketSetPMResolutionArray](#) (page 90)

Writes an item that's an array of data of type `PMResolution` to a ticket.

[PMTicketSetPString](#) (page 91)

Writes an item that's a Pascal-style string to a ticket.

[PMTicketSetSInt32](#) (page 91)

Writes an item of type `SInt32` to a ticket.

[PMTicketSetSInt32Array](#) (page 92)

Writes an item that's an array of data of type `SInt32` to a ticket.

[PMTicketSetTemplate](#) (page 93)

Writes an item that's a job template to a ticket.

[PMTicketSetTicket](#) (page 93)

Writes a subticket to a ticket.

[PMTicketSetUInt32](#) (page 94)

Writes an item of type `UInt32` to a ticket.

[PMTicketSetUInt32Array](#) (page 95)

Writes an item that's an array of data of type `UInt32` to a ticket.

## Getting Ticket Items

[PMTicketGetAllocator](#) (page 53)

Obtains the allocator object used for allocating memory for a ticket.

[PMTicketGetAPIVersion](#) (page 54)

Obtains the version of the application programming interface (API) used to create a ticket.

[PMTicketGetBoolean](#) (page 54)

Obtains data for a ticket item of type `Boolean`.

[PMTicketGetBytes](#) (page 55)

Obtains data for a ticket item that's an array of `UInt8` values.

[PMTicketGetCFArray](#) (page 56)

Obtains data for a ticket item that's a Core Foundation array.

- [PMTicketGetCFBoolean](#) (page 57)  
Obtains data for a ticket item that's an array of `CFBoolean` values.
- [PMTicketGetCFData](#) (page 57)  
Obtains data for a ticket item of type `CFData`.
- [PMTicketGetCFDate](#) (page 58)  
Obtains data for a ticket item of type `CFDate`.
- [PMTicketGetCFDictionary](#) (page 59)  
Obtains data for a ticket item of type `CFDictionary`.
- [PMTicketGetCFNumber](#) (page 60)  
Obtains data for a ticket item of type `CFNumber`.
- [PMTicketGetCFString](#) (page 60)  
Obtains data for a ticket item of type `CFString`.
- [PMTicketGetCString](#) (page 61)  
Obtains data for a ticket item of that's a C-style string.
- [PMTicketGetDouble](#) (page 62)  
Obtains data for a ticket item of type `double`.
- [PMTicketGetEnumType](#) (page 62)  
Obtains a ticket's ticket type (job, paper, converter, and so on).
- [PMTicketGetIndexPMResolution](#) (page 63)  
Obtains an indexed resolution for a ticket item that's an array of type `PMResolution`.
- [PMTicketGetItem](#) (page 64)  
Obtains data for a ticket item of type `CFTYPE`.
- [PMTicketGetLockedState](#) (page 64)  
Obtains the lock state of a ticket.
- [PMTicketGetPMRect](#) (page 66)  
Obtains data for a ticket item of type `PMRect`.
- [PMTicketGetPMResolution](#) (page 66)  
Obtains data for a ticket item of type `PMResolution`.
- [PMTicketGetPPDDict](#) (page 67)  
Obtains data for a ticket item that's a PostScript printer description (PPD) dictionary.
- [PMTicketGetPString](#) (page 68)  
Obtains data for a ticket item that's a Pascal-style string.
- [PMTicketGetRetainCount](#) (page 69)  
Obtains the retention count for a ticket.
- [PMTicketGetSInt32](#) (page 69)  
Obtains data for a ticket item of type `SInt32`.
- [PMTicketGetTicket](#) (page 70)  
Obtains a subticket from a ticket.
- [PMTicketGetType](#) (page 71)  
Obtains a value that specifies the ticket's type.
- [PMTicketGetUInt32](#) (page 71)  
Obtains an item of type `UInt32` from a ticket.

## Managing Templates

- [PMTemplateCreate](#) (page 16)  
Creates a new job template.
- [PMTemplateDelete](#) (page 17)  
Deletes an existing job template.
- [PMTemplateMakeEntry](#) (page 33)  
Creates a new entry in a job template.
- [PMTemplateMakeFullEntry](#) (page 33)  
Creates a new entry in a job template and sets the default and constraint values for the entry.
- [PMTemplateMergeTemplates](#) (page 34)  
Merges the entries from one job template with entries from another job template.
- [PMTemplateRemoveEntry](#) (page 35)  
Removes an entry from a job template.
- [PMTemplateValidateItem](#) (page 47)  
Validates an item in a job template.
- [PMTemplateIsLocked](#) (page 31)  
Checks to see if a job template is locked.

## Setting Template Items

- [PMTemplateSetBooleanDefaultValue](#) (page 35)  
Sets the default value for a job template entry of type `Boolean`.
- [PMTemplateSetCFArrayConstraintValue](#) (page 36)  
Sets the constraint values for a job template entry of type `CFArray`.
- [PMTemplateSetCFDataDefaultValue](#) (page 36)  
Sets the default value for a job template entry of type `CFDataRef`.
- [PMTemplateSetCFDefaultValue](#) (page 37)  
Sets the default value for a job template entry of type `CTypeRef`.
- [PMTemplateSetCFRangeConstraint](#) (page 37)  
Sets a range of constraint values for a job template entry of type `CTypeRef`.
- [PMTemplateSetDoubleDefaultValue](#) (page 38)  
Sets the default value for a job template entry of type `double`.
- [PMTemplateSetDoubleListConstraint](#) (page 38)  
Sets constraint values for a job template entry of type `double`.
- [PMTemplateSetDoubleRangeDefaultValue](#) (page 40)  
Sets the default range of values for a job template entry of type `double`.
- [PMTemplateSetDoubleRangeConstraint](#) (page 39)  
Sets a range of constraint values for a job template entry of type `double`.
- [PMTemplateSetDoubleRangesConstraint](#) (page 40)  
Sets a range of constraint values for a job template entry that is a range of type `double`.
- [PMTemplateSetPMRectDefaultValue](#) (page 41)  
Sets the default value for a job template entry of type `PMRect`.

- [PMTemplateSetPMRectListConstraint](#) (page 42)  
Sets constraint values for a job template entry of type `PMRect`.
- [PMTemplateSetPMTicketDefaultValue](#) (page 43)  
Sets the default value for a job template entry of type `PMTicketRef`.
- [PMTemplateSetPMTicketListConstraint](#) (page 43)  
Sets constraint values for a job template entry of type `PMTicketRef`.
- [PMTemplateSetSInt32DefaultValue](#) (page 44)  
Sets the default value for a job template entry of type `SInt32`.
- [PMTemplateSetSInt32ListConstraint](#) (page 44)  
Sets constraint values for a job template entry of type `SInt32`.
- [PMTemplateSetSInt32RangeDefaultValue](#) (page 46)  
Sets the default range of values for a job template entry of type `SInt32`.
- [PMTemplateSetSInt32RangeConstraint](#) (page 45)  
Sets a range of constraint values for a job template entry of type `SInt32`.
- [PMTemplateSetSInt32RangesConstraint](#) (page 46)  
Sets a range of constraint values for a job template entry that is a range of type `SInt32`.

## Getting Template Items

- [PMTemplateGetValueType](#) (page 31)  
Obtains the data type of a job template entry.
- [PMTemplateGetConstraintType](#) (page 20)  
Obtains the constraint type for a job template entry.
- [PMTemplateGetBooleanDefaultValue](#) (page 17)  
Obtains the default value for a job template entry of type `Boolean`.
- [PMTemplateGetCFArrayConstraintValue](#) (page 18)  
Obtains an array of constraint values for a job template entry of type `CFArrayRef`.
- [PMTemplateGetCFDataDefaultValue](#) (page 18)  
Obtains the default value for a job template entry of type `CFDataRef`.
- [PMTemplateGetCFDefaultValue](#) (page 19)  
Obtains the default value for a job template entry of type `CFTyperef`.
- [PMTemplateGetCFRangeConstraintValue](#) (page 19)  
Obtains the range of constraint values for a job template entry of type `CFTyperef`.
- [PMTemplateGetDoubleDefaultValue](#) (page 21)  
Obtains the default value for a job template entry of type `double`.
- [PMTemplateGetDoubleRangeDefaultValue](#) (page 23)  
Obtains the default range values for a job template entry of type `double`.
- [PMTemplateGetDoubleListConstraintValue](#) (page 21)  
Obtains constraint values for a job template entry of type `double`.
- [PMTemplateGetDoubleRangeConstraintValue](#) (page 22)  
Obtains the default range of values for a job template entry of type `double`.
- [PMTemplateGetDoubleRangesConstraintValue](#) (page 24)  
Obtains a range for the minimum and maximum constraint values for a job template entry that is a range of type `double`.

- [PMTemplateGetPMRectDefaultValue](#) (page 25)  
Obtains the default value for a job template entry of type `PMRect`.
- [PMTemplateGetPMRectListConstraintValue](#) (page 26)  
Obtains constraint values for a job template entry of type `PMRect`.
- [PMTemplateGetPMTicketDefaultValue](#) (page 26)  
Obtains the default value for a job template entry of type `PMTicket`.
- [PMTemplateGetListTicketConstraintValue](#) (page 24)  
Obtains the constraint value for a job template entry that of type `PMTicketRef`.
- [PMTemplateGetSInt32DefaultValue](#) (page 27)  
Obtains the default value for a job template entry of type `SInt32`.
- [PMTemplateGetSInt32RangeDefaultValue](#) (page 29)  
Obtains the default range values for a job template entry of type `SInt32`.
- [PMTemplateGetSInt32ListConstraintValue](#) (page 28)  
Obtains constraint values for a job template entry of type `SInt32`.
- [PMTemplateGetSInt32RangeConstraintValue](#) (page 28)  
Obtains the default range of values for a job template entry of type `SInt32`.
- [PMTemplateGetSInt32RangesConstraintValue](#) (page 30)  
Obtains a range of constraint values for a job template entry that is a range of type `SInt32`.

## Converting To and From XML

- [PMTemplateCreateXML](#) (page 16)  
Converts the data in a job template to data represented as XML.
- [PMTicketToXML](#) (page 96)  
Converts the data in a ticket to XML.
- [PMTicketWriteXML](#) (page 97)  
Converts a ticket to XML and then writes it to a file stream.
- [PMTicketWriteXMLToFile](#) (page 98)  
Converts a ticket to XML and then writes it to a file.
- [PMXMLToTicket](#) (page 98)  
Converts a ticket saved as XML to a ticket.
- [PMTemplateLoadFromXML](#) (page 32)  
Restores a job template that was previously converted to XML.
- [PMTicketReadXMLFromFile](#) (page 73)  
Restores a ticket previously converted to XML and saved as a file.

## Deprecated Functions

- [PMTicketSetMetaItem](#) (page 87)  
Writes an item that does not need to be stored in an XML-representation of a ticket.
- [PMTicketGetMetaItem](#) (page 65)  
Obtains data for a item added with the function `PMTicketSetMetaItem`.

## Functions

### **PMTemplateCreate**

Creates a new job template.

```
OSStatus PMTemplateCreate (
    PMTemplateRef *newTemplate
);
```

#### **Parameters**

*newTemplate*

On return, points to a job template data structure allocated by the function.

#### **Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### **Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

#### **Declared In**

PMTemplate.h

### **PMTemplateCreateXML**

Converts the data in a job template to data represented as XML.

```
OSStatus PMTemplateCreateXML (
    PMTemplateRef srcTemplate,
    CFDataRef *xmlData
);
```

#### **Parameters**

*srcTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*xmlData*

On return, points to a reference to an XML representation of the data in the job template specified by the `srcTemplate` parameter.

#### **Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### **Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

#### **Declared In**

PMTemplate.h



## PMTemplateDelete

Deletes an existing job template.

```
OSStatus PMTemplateDelete (
    PMTemplateRef *oldTemplate
);
```

### Parameters

*oldTemplate*

On input, a reference to a job template created by calling the function `PMTemplateCreate`. On return, points to `NULL`.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTemplate.h`

## PMTemplateGetBooleanDefaultValue

Obtains the default value for a job template entry of type `Boolean`.

```
OSStatus PMTemplateGetBooleanDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    Boolean *defaultValue
);
```

### Parameters

*pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*defaultValue*

On return, points to the default value for the template entry specified by the `key` parameter.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTemplate.h`

## PMTemplateGetCFArrayConstraintValue

Obtains an array of constraint values for a job template entry of type `CFArrayRef`.

```
OSStatus PMTemplateGetCFArrayConstraintValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    CFArrayRef *constraintValue
);
```

### Parameters

*pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*constraintValue*

On return, a pointer to a Core Foundation array reference for the constraint values for the template entry specified by the `key` parameter.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTemplate.h`

## PMTemplateGetCFDataDefaultValue

Obtains the default value for a job template entry of type `CFDataRef`.

```
OSStatus PMTemplateGetCFDataDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    CFDataRef *defaultValue
);
```

### Parameters

*pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*defaultValue*

On return, points to a Core Foundation data reference that specifies the default data for the template entry specified by the `key` parameter.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTemplate.h`

## PMTemplateGetCFDefaultValue

Obtains the default value for a job template entry of type `CTypeRef`.

```
OSStatus PMTemplateGetCFDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    CTypeRef *defaultValue
);
```

### Parameters

*pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*defaultValue*

On return, points to a Core Foundation type reference that specifies the default data for the template entry specified by the *key* parameter.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTemplate.h`

## PMTemplateGetCFRangeConstraintValue

Obtains the range of constraint values for a job template entry of type `CTypeRef`.

```
OSStatus PMTemplateGetCFRangeConstraintValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    CTypeRef *min,
    CTypeRef *max
);
```

**Parameters***pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*min*

On return, points to a Core Foundation type reference that specifies the minimum value to which the template entry specified by the `key` parameter is constrained.

*max*

On return, points to a Core Foundation type reference that specifies the maximum value to which the template entry specified by the `key` parameter is constrained.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateGetConstraintType**

Obtains the constraint type for a job template entry.

```
OSStatus PMTemplateGetConstraintType (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    PMConstraintType *constraintType
);
```

**Parameters***pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data whose constraint type you want to retrieve from the template.

*constraintType*

On return, points to the constraint type for the data specified by the `key` parameter. See [“Constraint Types”](#) (page 104) for a list of the constraint types that can be returned.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

## **PMTemplateGetDoubleDefaultValue**

Obtains the default value for a job template entry of type `double`.

```
OSStatus PMTemplateGetDoubleDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    double *defaultValue
);
```

**Parameters**

*pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*defaultValue*

On return, points to the default `double` value for the template entry specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

## **PMTemplateGetDoubleListConstraintValue**

Obtains constraint values for a job template entry of type `double`.

```
OSStatus PMTemplateGetDoubleListConstraintValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    int *listSize,
    double *doubleList
);
```

**Parameters***pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*listSize*

A pointer to the number of items in the array specified by the parameter `doubleList`.

*doubleList*

On return, points to an array of `double` values to which the template entry specified by the `key` parameter is constrained.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Discussion**

You need to call the function `PMTemplateGetDoubleListConstraintValue` twice. First, call the function to get the number of items in the array specified by the parameter `doubleList`. You should call the function again after you allocate space for the array.

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateGetDoubleRangeConstraintValue**

Obtains the default range of values for a job template entry of type `double`.

```
OSStatus PMTemplateGetDoubleRangeConstraintValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    double *min,
    double *max
);
```

**Parameters***pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*min*

On return, points to the minimum value to which the template entry specified by the `key` parameter is constrained.

*max*

On return, points to the maximum value to which the template entry specified by the `key` parameter is constrained.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateGetDoubleRangeDefaultValue**

Obtains the default range values for a job template entry of type `double`.

```
OSStatus PMTemplateGetDoubleRangeDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    double *min,
    double *max
);
```

**Parameters***pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kpDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*min*

On return, points to the minimum value to which the range is constrained for the template entry specified by the `key` parameter.

*max*

On return, points to the maximum value to which the range is constrained for the template entry specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTemplate.h

**PMTemplateGetDoubleRangesConstraintValue**

Obtains a range for the minimum and maximum constraint values for a job template entry that is a range of type `double`.

```
OSStatus PMTemplateGetDoubleRangesConstraintValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    double *minForMin,
    double *maxForMin,
    double *minForMax,
    double *maxForMax
);
```

**Parameters***pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*minForMin*

On return, points to the minimum value to which the minimum of the range is constrained for the template entry specified by the *key* parameter.

*maxForMin*

On return, points to the maximum value to which the minimum of the range is constrained for the template entry specified by the *key* parameter.

*minForMax*

On return, points to the minimum value to which the maximum of the range is constrained for the template entry specified by the *key* parameter.

*maxForMax*

On return, points to the maximum value to which the maximum of the range is constrained for the template entry specified by the *key* parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTemplate.h

**PMTemplateGetListTicketConstraintValue**

Obtains the constraint value for a job template entry that of type `PMTicketRef`.



```
OSStatus PMTemplateGetListTicketConstraintValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    PMTicketRef *listTicket
);
```

**Parameters***pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*listTicket*

On return, points to a reference to the list ticket to which the template entry specified by the `key` parameter is constrained.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateGetPMRectDefaultValue**

Obtains the default value for a job template entry of type `PMRect`.

```
OSStatus PMTemplateGetPMRectDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    PMRect *defaultValue
);
```

**Parameters***pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*defaultValue*

On return, points to the default `PMRect` data for the template entry specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTemplate.h

**PMTemplateGetPMRectListConstraintValue**

Obtains constraint values for a job template entry of type `PMRect`.

```
OSStatus PMTemplateGetPMRectListConstraintValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    int *listSize,
    PMRect *rectList
);
```

**Parameters**

*pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*listSize*

A pointer to the number of items in the array specified by the parameter `rectList`.

*rectList*

On return, points to an array of `PMRect` values to which the template entry specified by the `key` parameter is constrained.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Discussion**

You need to call the function `PMTemplateGetPMRectListConstraintValue` twice. First, call the function to get the number of items in the array specified by the parameter `rectList`. You should call the function again after you allocate space for the array.

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTemplate.h

**PMTemplateGetPMTicketDefaultValue**

Obtains the default value for a job template entry of type `PMTicket`.

```
OSStatus PMTemplateGetPMTicketDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    PMTicketRef *defaultValue
);
```

**Parameters***pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*defaultValue*

On return, points to a reference to the default ticket for the template entry specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateGetSInt32DefaultValue**

Obtains the default value for a job template entry of type `SInt32`.

```
OSStatus PMTemplateGetSInt32DefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    SInt32 *defaultValue
);
```

**Parameters***pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*defaultValue*

On return, points to the default value for the template entry specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTemplate.h

**PMTemplateGetSInt32ListConstraintValue**

Obtains constraint values for a job template entry of type `SInt32`.

```
OSStatus PMTemplateGetSInt32ListConstraintValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    int *listSize,
    SInt32 *sint32List
);
```

**Parameters**

*pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `KPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*listSize*

On return, points to the number of items in the array specified by the parameter `sint32List`.

*sint32List*

On return, points to an array of `SInt32` values to which the template entry specified by the `key` parameter is constrained.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Discussion**

You need to call the function `PMTemplateGetSInt32ListConstraintValue` twice. First, call the function to get the number of items in the array specified by the parameter `sint32List`. You should call the function again after you allocate space for the array.

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTemplate.h

**PMTemplateGetSInt32RangeConstraintValue**

Obtains the default range of values for a job template entry of type `SInt32`.

```
OSStatus PMTemplateGetSInt32RangeConstraintValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    SInt32 *min,
    SInt32 *max
);
```

**Parameters***pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*min*

On return, points to the minimum value to which the template entry specified by the `key` parameter is constrained.

*max*

On return, points to the maximum value to which the template entry specified by the `key` parameter is constrained.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateGetSInt32RangeDefaultValue**

Obtains the default range values for a job template entry of type `SInt32`.

```
OSStatus PMTemplateGetSInt32RangeDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    SInt32 *min,
    SInt32 *max
);
```

**Parameters***pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*min*

On return, points to the minimum value to which the range is constrained for the template entry specified by the `key` parameter.

*max*

On return, points to the maximum value to which the range is constrained for the template entry specified by the `key` parameter.

**Return Value**

A result code. See “[Ticket Services Result Codes](#)” (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateGetSInt32RangesConstraintValue**

Obtains a range of constraint values for a job template entry that is a range of type `SInt32`.

```
OSStatus PMTemplateGetSInt32RangesConstraintValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    SInt32 *minForMin,
    SInt32 *maxForMin,
    SInt32 *minForMax,
    SInt32 *maxForMax
);
```

**Parameters***pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*minForMin*

On return, points to the minimum value to which the minimum of the range is constrained for the template entry specified by the `key` parameter.

*maxForMin*

On return, points to the maximum value to which the minimum of the range is constrained for the template entry specified by the `key` parameter.

*minForMax*

On return, points to the minimum value to which the maximum of the range is constrained for the template entry specified by the `key` parameter.

*maxForMax*

On return, points to the maximum value to which the maximum of the range is constrained for the template entry specified by the `key` parameter.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTemplate.h`

## PMTemplateGetValueType

Obtains the data type of a job template entry.

```
OSStatus PMTemplateGetValueType (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    PMValueType *valueType
);
```

### Parameters

*pmTemplate*

A reference to a job template. You can call the function `PMSessionGetDataFromSession` with the ticket type set to `kPDE_PMJobTemplateRef` to get a value that you can then cast to a job template reference.

*key*

A reference to a `CFString` object that uniquely identifies the data you want to retrieve from the template.

*valueType*

On return, points to the value type for the template entry specified by the `key` parameter. See [“PMTicketItemType”](#) (page 102) for a list of values that can be returned.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTemplate.h`

## PMTemplateIsLocked

Checks to see if a job template is locked.

```
OSStatus PMTemplateIsLocked (
    PMTemplateRef srcTemplate,
    Boolean *locked
);
```

**Parameters***srcTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*locked*

On return, points to `true` if the job template is locked and `false` if the template is not locked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Discussion**

A job template cannot be modified unless it is unlocked.

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateLoadFromXML**

Restores a job template that was previously converted to XML.

```
OSStatus PMTemplateLoadFromXML (
    CFDataRef srcData,
    PMTemplateRef *destTemplate
);
```

**Parameters***srcData*

A reference to `CFData` that represents job template data. You obtain a `CFDataRef` by calling the function `PMTemplateCreateXML`.

*destTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`. On return, the job template contains the entries specified by the XML data.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`



## PMTemplateMakeEntry

Creates a new entry in a job template.

```
OSStatus PMTemplateMakeEntry (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    PMValueType valueType,
    PMConstraintType constraintType
);
```

### Parameters

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the entry. You use the key to set and obtain the data for this entry.

*valueType*

The data type of the value associated with the entry. See [“PMValueType”](#) (page 103) for a list of constants you can use to specify the data type.

*constraintType*

The type of constraint you want applied to the data associated with the entry. See [“Constraint Types”](#) (page 104) for a list of constants you can use to specify the constraint type.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Discussion

After you call the function `PMTemplateMakeEntry`, you should set default and constraint values for the entry by calling the appropriate `PMTemplateSet` functions for the data type of the entry.

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTemplate.h`

## PMTemplateMakeFullEntry

Creates a new entry in a job template and sets the default and constraint values for the entry.

```
OSStatus PMTemplateMakeFullEntry (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    PMValueType valueType,
    PMConstraintType constraintType,
    CTypeRef defaultValue,
    CTypeRef constraintValue
);
```

### Parameters

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the entry. You use the key to set and obtain the data for this entry.

*valueType*

The data type of the value associated with the entry. See [“PMValueType”](#) (page 103) for a list of constants you can use to specify the data type.

*constraintType*

The type of constraint you want applied to the data associated with the entry. See [“Constraint Types”](#) (page 104) for a list of constants you can use to specify the constraint type.

*defaultValue*

A reference to the default value for this entry.

*constraintValue*

A reference to the values used to constrain the data associated with this entry.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateMergeTemplates**

Merges the entries from one job template with entries from another job template.

```
OSStatus PMTemplateMergeTemplates (
    PMTemplateRef sourceTemplate,
    PMTemplateRef destTemplate
);
```

**Parameters***sourceTemplate*

A reference to the job template whose entries you want to merge with the destination template.

*destTemplate*

A reference to the job template into which you want to merge entries from the source template. Any entry in the destination template that has the same key as an entry in the source template is overwritten by the data from the source template.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

## PMTemplateRemoveEntry

Removes an entry from a job template.

```
OSStatus PMTemplateRemoveEntry (
    PMTemplateRef pmTemplate,
    CFStringRef key
);
```

### Parameters

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the entry you want to remove.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTemplate.h`

## PMTemplateSetBooleanDefaultValue

Sets the default value for a job template entry of type `Boolean`.

```
OSStatus PMTemplateSetBooleanDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    Boolean defaultValue
);
```

### Parameters

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose default value you want to set.

*defaultValue*

A `Boolean` value that specifies the default value for template entry specified by the `key` parameter.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTemplate.h`

## PMTemplateSetCFArrayConstraintValue

Sets the constraint values for a job template entry of type CFArray.

```
OSStatus PMTemplateSetCFArrayConstraintValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    CFArrayRef constraintValue
);
```

### Parameters

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose constraint values you want to set.

*constraintValue*

A reference to a Core Foundation array that contains the values to which the template entry specified by the `key` parameter is constrained.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTemplate.h`

## PMTemplateSetCFDataDefaultValue

Sets the default value for a job template entry of type `CFDataRef`.

```
OSStatus PMTemplateSetCFDataDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    CFDataRef defaultValue
);
```

### Parameters

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose default value you want to set.

*defaultValue*

A reference to the default data for template entry specified by the `key` parameter.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

#### Declared In

PMTemplate.h

### PMTemplateSetCFDefaultValue

Sets the default value for a job template entry of type CTypeRef.

```
OSStatus PMTemplateSetCFDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    CTypeRef defaultValue
);
```

#### Parameters

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose default value you want to set.

*defaultValue*

A reference to the default data for template entry specified by the `key` parameter.

#### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

#### Declared In

PMTemplate.h

### PMTemplateSetCFRangeConstraint

Sets a range of constraint values for a job template entry of type CTypeRef.

```
OSStatus PMTemplateSetCFRangeConstraint (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    CTypeRef min,
    CTypeRef max
);
```

#### Parameters

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose range of constraint values you want to set.

*min*

A reference to the minimum value to which the template entry specified by the `key` parameter is constrained.

*max*

A reference to the maximum value to which the template entry specified by the `key` parameter is constrained.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateSetDoubleDefaultValue**

Sets the default value for a job template entry of type `double`.

```
OSStatus PMTemplateSetDoubleDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    double defaultValue
);
```

**Parameters***pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose default value you want to set.

*defaultValue*

A `double` value that specifies the default value for template entry specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateSetDoubleListConstraint**

Sets constraint values for a job template entry of type `double`.

```
OSStatus PMTemplateSetDoubleListConstraint (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    int listSize,
    double *doubleList
);
```

**Parameters***pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose constraint values you want to set.

*listSize*

The size of the array specified by the parameter `doubleList`.

*doubleList*

A pointer to an array of `double` values to which the template entry specified by the `key` parameter is constrained.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateSetDoubleRangeConstraint**

Sets a range of constraint values for a job template entry of type `double`.

```
OSStatus PMTemplateSetDoubleRangeConstraint (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    double min,
    double max
);
```

**Parameters***pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose constraint values you want to set.

*min*

A `double` value that specifies the minimum value to which the template entry specified by the `key` parameter is constrained.

*max*

A `double` value that specifies the maximum value to which the template entry specified by the `key` parameter is constrained.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

## **PMTemplateSetDoubleRangeDefaultValue**

Sets the default range of values for a job template entry of type `double`.

```
OSStatus PMTemplateSetDoubleRangeDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    double min,
    double max
);
```

**Parameters**

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose default values you want to set.

*min*

A `double` value that specifies the default minimum value for the template entry specified by the `key` parameter.

*max*

A `double` value that specifies the default maximum value for template entry specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

## **PMTemplateSetDoubleRangesConstraint**

Sets a range of constraint values for a job template entry that is a range of type `double`.



```
OSStatus PMTemplateSetDoubleRangesConstraint (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    double minForMin,
    double maxForMin,
    double minForMax,
    double maxForMax
);
```

**Parameters***pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose range of constraint values you want to set.

*minForMin*

A `double` value that specifies the minimum value to which the minimum of the range is constrained for the template entry specified by the `key` parameter.

*maxForMin*

A `double` value that specifies the maximum value to which the minimum of the range is constrained for the template entry specified by the `key` parameter.

*minForMax*

A `double` value that specifies the minimum value to which the maximum of the range is constrained for the template entry specified by the `key` parameter.

*maxForMax*

A `double` value that specifies the maximum value to which the maximum of the range is constrained for the template entry specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateSetPMRectDefaultValue**

Sets the default value for a job template entry of type `PMRect`.

```
OSStatus PMTemplateSetPMRectDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    PMRect *defaultValue
);
```

**Parameters***pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose default value you want to set.

*defaultValue*

A pointer to a `PMRect` that specifies the default rectangle for the template entry specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

## **PMTemplateSetPMRectListConstraint**

Sets constraint values for a job template entry of type `PMRect`.

```
OSStatus PMTemplateSetPMRectListConstraint (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    int listSize,
    PMRect *rectList
);
```

**Parameters**

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose constraint values you want to set.

*listSize*

The size of the array specified by the parameter `rectList`.

*rectList*

A pointer to an array of `PMRect` values to which the template entry specified by the `key` parameter is constrained.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

## PMTemplateSetPMTicketDefaultValue

Sets the default value for a job template entry of type `PMTicketRef`.

```
OSStatus PMTemplateSetPMTicketDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    PMTicketRef defaultValue
);
```

### Parameters

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose default value you want to set.

*defaultValue*

A reference to a ticket that specifies the default ticket for the template entry specified by the *key* parameter.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTemplate.h`

## PMTemplateSetPMTicketListConstraint

Sets constraint values for a job template entry of type `PMTicketRef`.

```
OSStatus PMTemplateSetPMTicketListConstraint (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    PMTicketRef listTicket
);
```

### Parameters

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose constraint values you want to set.

*listTicket*

A reference to a ticket that specifies the default list ticket for the template entry specified by the *key* parameter.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTemplate.h

**PMTemplateSetSInt32DefaultValue**

Sets the default value for a job template entry of type SInt32.

```
OSStatus PMTemplateSetSInt32DefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    SInt32 defaultValue
);
```

**Parameters**

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose default value you want to set.

*defaultValue*

An `SInt32` value that specifies the default value for the template entry specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTemplate.h

**PMTemplateSetSInt32ListConstraint**

Sets constraint values for a job template entry of type SInt32.

```
OSStatus PMTemplateSetSInt32ListConstraint (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    int listSize,
    SInt32 *sint32List
);
```

**Parameters**

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose constraint values you want to set.

*listSize*

The size of the array specified by the parameter `sint32List`.

*sint32List*

A pointer to an array of `SInt32` values to which the template entry specified by the `key` parameter is constrained.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateSetSInt32RangeConstraint**

Sets a range of constraint values for a job template entry of type `SInt32`.

```
OSStatus PMTemplateSetSInt32RangeConstraint (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    SInt32 min,
    SInt32 max
);
```

**Parameters***pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose constraint values you want to set.

*min*

An `SInt32` value that specifies the minimum value to which the template entry specified by the `key` parameter is constrained.

*max*

An `SInt32` value that specifies the maximum value to which the template entry specified by the `key` parameter is constrained.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

## PMTemplateSetSInt32RangeDefaultValue

Sets the default range of values for a job template entry of type `SInt32`.

```
OSStatus PMTemplateSetSInt32RangeDefaultValue (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    SInt32 min,
    SInt32 max
);
```

### Parameters

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose default values you want to set.

*min*

An `SInt32` value that specifies the default minimum value for the template entry specified by the `key` parameter.

*max*

An `SInt32` value that specifies the default maximum value for the template entry specified by the `key` parameter.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTemplate.h`

## PMTemplateSetSInt32RangesConstraint

Sets a range of constraint values for a job template entry that is a range of type `SInt32`.

```
OSStatus PMTemplateSetSInt32RangesConstraint (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    SInt32 minForMin,
    SInt32 maxForMin,
    SInt32 minForMax,
    SInt32 maxForMax
);
```

### Parameters

*pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the data whose range of constraint values you want to set.

*minForMin*

An `SInt32` value that specifies the minimum value to which the minimum of the range is constrained for the template entry specified by the `key` parameter.

*maxForMin*

An `SInt32` value that specifies the maximum value to which the minimum of the range is constrained for the template entry specified by the `key` parameter.

*minForMax*

An `SInt32` value that specifies the minimum value to which the maximum of the range is constrained for the template entry specified by the `key` parameter.

*maxForMax*

An `SInt32` value that specifies the maximum value to which the maximum of the range is constrained for the template entry specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTemplate.h`

**PMTemplateValidateItem**

Validates an item in a job template.

```
OSStatus PMTemplateValidateItem (
    PMTemplateRef pmTemplate,
    CFStringRef key,
    CTypeRef item,
    Boolean *validationResults
);
```

**Parameters***pmTemplate*

A reference to a job template created by calling the function `PMTemplateCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the job template entry you want to validate.

*item*

A reference to the data you want to validate.

*validationResults*

On return, points to `true` if the item is validated and `false` if it is not validated.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTemplate.h

**PMTicketConfirmTicket**

Checks whether a ticket appears to be valid.

```
OSStatus PMTicketConfirmTicket (
    PMTicketRef ticket
);
```

**Parameters***ticket*A reference to a ticket created by calling the function `PMTicketCreate`.**Return Value**A result code. Returns `noErr` if the ticket appears to be valid. See [“Ticket Services Result Codes”](#) (page 134).**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketContainsItem**

Checks whether an item exists in a ticket.

```
Boolean PMTicketContainsItem (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key
);
```

**Parameters***ticket*A reference to a ticket created by calling the function `PMTicketCreate`.*nodeIndex1*Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.*nodeIndex2*Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.*key*A reference to a `CFString` object that uniquely identifies the ticket item you want to check.**Return Value**Returns `true` if the item exists.**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.



**Declared In**

PMTicket.h

**PMTicketContainsTicket**

Checks whether a ticket is contained in another ticket.

```
OSStatus PMTicketContainsTicket (
    PMTicketRef ticket,
    CFStringRef requestedType,
    UInt32 index,
    Boolean *exists
);
```

**Parameters***ticket*A reference to a ticket created by calling the function `PMTicketCreate`.*requestedType*A reference to a `CFString` object that specifies the ticket type of the ticket for which you want to check. See [“Ticket Type Strings”](#) (page 133) for a list of constants you can pass.*index*Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.*exists*On return, points to `true` if the ticket contains a subticket of the ticket type specified by the `requestedType` parameter.**Return Value**A result code. See [“Ticket Services Result Codes”](#) (page 134).**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketCopy**

Copies a ticket.

```
OSStatus PMTicketCopy (
    CFAllocatorRef allocator,
    PMTicketRef sourceTicket,
    PMTicketRef *destinationTicket
);
```

**Parameters***allocator*A reference to the allocator object to be used for allocating memory. Pass a reference to a valid allocator or `kCFAllocatorDefault` to request the default allocator.

*sourceTicket*

A reference to a ticket created by calling the function `PMTicketCreate`. This is the ticket you want to copy.

*destinationTicket*

A pointer to a ticket reference. On return, points to a copy of the source ticket.

#### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

#### Declared In

`PMTicket.h`

## PMTicketCopyItem

Copies an item from one ticket to another ticket.

```
OSStatus PMTicketCopyItem (
    PMTicketRef sourceTicket,
    PMTicketRef destTicket,
    CFStringRef clientID,
    CFStringRef key,
    Boolean locked
);
```

#### Parameters

*sourceTicket*

A reference to a ticket created by calling the function `PMTicketCreate`. This is the ticket from which you want to copy an item.

*destTicket*

A reference to a ticket created by calling the function `PMTicketCreate`. This is the ticket to which the item is copied.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to copy.

*locked*

A `Boolean` value. Pass `true` to lock the copied item or `false` to set the item's lock state to unlock. Locking the item prevents any subsequent modification of this item.

#### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### Discussion

If an item must be copied from one ticket to another, call the function `PMTicketCopyItem` to make the simple transfer. This updates the modification date and client ID for the item. The `locked` field determines if subsequent updates can be made.

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketCreate**

Creates a new ticket.

```
OSStatus PMTicketCreate (
    CFAllocatorRef allocator,
    CFStringRef ticketType,
    PMTicketRef *newTicket
);
```

**Parameters**

*allocator*

A reference to the allocator object to be used for allocating memory. Pass a reference to a valid allocator or `kCFAllocatorDefault` to request the default allocator.

*ticketType*

A reference to a `CFString` object that specifies the ticket type of the ticket you want to create. See [“Ticket Type Strings”](#) (page 133) for a list of constants you can pass.

*newTicket*

On return, a reference to a ticket.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketCreateTemplate**

Retrieves a template from a ticket.

```
OSStatus PMTicketCreateTemplate (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    PMTemplateRef *item
);
```

**Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMToplevel`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMToplevel`.

*key*

A reference to a `CFString` object that uniquely identifies the template you want to retrieve.

*item*

On return, points to the template reference specified by the `key` parameter.

#### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### Discussion

The function `PMTicketCreateTemplate` retrieves the template data associated with the specified key. The template is stored in the ticket as flattened data. The function creates a template object from the flattened data.

#### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

#### Declared In

`PMTicket.h`

## PMTicketDeleteItem

Makes an item in a ticket unavailable.

```
OSStatus PMTicketDeleteItem (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key
);
```

#### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to make unavailable.

#### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Discussion**

After an item is deleted by calling the function `PMTicketDeleteItem`, the result code `kPMInvalidItem` is returned when anyone tries to access the item. The function `PMTicketDeleteItem` actually makes the item unavailable rather than deleting the item. The function adds information to the item's dictionary to record the history of the item and to indicate the item is unavailable. You should call the function `PMTicketReleaseItem` if you want to completely remove the item from the ticket.

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketFillFromArray**

Adds items defined in an array of ticket item structures to a ticket.

```
OSStatus PMTicketFillFromArray (
    PMTicketRef ticket,
    CFStringRef clientID,
    const PMTicketItemStruct *items,
    UInt32 itemCount
);
```

**Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*items*

A pointer to an array of ticket item structures.

*itemCount*

The number of items in the `items` array.

**Return Value**

A result code. If the result code is anything other than `noErr`, it's possible that not all of the items were added successfully. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketGetAllocator**

Obtains the allocator object used for allocating memory for a ticket.

```
OSStatus PMTicketGetAllocator (
    PMTicketRef ticket,
    CFAllocatorRef *allocator
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*allocator*

On return, a reference to the `CFAllocator` object associated with the ticket.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketGetAPIVersion**

Obtains the version of the application programming interface (API) used to create a ticket.

```
OSStatus PMTicketGetAPIVersion (
    PMTicketRef ticket,
    CFStringRef *apiVersion
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*apiVersion*

On return, a reference to a `CFString` object that specifies the version of the API used to create the ticket.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketGetBoolean**

Obtains data for a ticket item of type `Boolean`.

```
OSStatus PMTicketGetBoolean (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    Boolean *value
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMToplevel`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMToplevel`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain. See the Base Services documentation for a description of the `CFStringRef` data type.

*value*

On return, points to the `Boolean` value for the item specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketGetBytes**

Obtains data for a ticket item that’s an array of `UInt8` values.

```
OSStatus PMTicketGetBytes (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    UInt8 *data,
    UInt32 *size
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMToplevel`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMToplevel`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*data*

On return, points to an array of data of type `UInt8` for the item specified by the `key` parameter.

*size*

On input, pass the size of the buffer pointed to by the `data` parameter. On return, points to the number of bytes in the array.

#### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### Discussion

If you don’t know the size of the data buffer, you need to call the function `PMTicketGetBytes` twice. First, call the function to get the number of items in the array specified by the parameter `data`. You should call the function again after you allocate space for the array.

#### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

#### Declared In

`PMTicket.h`

## PMTicketGetCFArray

Obtains data for a ticket item that’s a Core Foundation array.

```
OSStatus PMTicketGetCFArray (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    CFArrayRef *item
);
```

#### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMToplevel`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMToplevel`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*item*

On return, points to a Core Foundation array reference for the item specified by the `key` parameter.

#### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).



**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketGetCFBoolean**

Obtains data for a ticket item that's an array of CFBoolean values.

```
OSStatus PMTicketGetCFBoolean (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    CFBooleanRef *item
);
```

**Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*item*

On return, points to a Core Foundation Boolean reference for the item specified by the `key` parameter.

**Return Value**

A result code. See ["Ticket Services Result Codes"](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketGetCFData**

Obtains data for a ticket item of type `CFData`.

```
OSStatus PMTicketGetCFData (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    CFDataRef *item
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel1`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel1`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*item*

On return, points to a Core Foundation data reference for the item specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketGetCFDate**

Obtains data for a ticket item of type `CFDate`.

```
OSStatus PMTicketGetCFDate (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    CFDateRef *item
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel1`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel1`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*item*

On return, points to a Core Foundation date reference for the item specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

## **PMTicketGetCFDictionary**

Obtains data for a ticket item of type `CFDictionary`.

```
OSStatus PMTicketGetCFDictionary (  
    PMTicketRef ticket,  
    UInt32 nodeIndex1,  
    UInt32 nodeIndex2,  
    CFStringRef key,  
    CFDictionaryRef *item  
);
```

**Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel1`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel1`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*item*

On return, points to a Core Foundation dictionary reference for the item specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketGetCFNumber**

Obtains data for a ticket item of type CFNumber.

```
OSStatus PMTicketGetCFNumber (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    CFNumberRef *item
);
```

**Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*item*

On return, points to a Core Foundation number reference for the item specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketGetCFString**

Obtains data for a ticket item of type CFString.

```
OSStatus PMTicketGetCFString (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    CFStringRef *item
);
```

**Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*item*

On return, points to a Core Foundation string reference for the item specified by the `key` parameter.

#### **Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### **Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

#### **Declared In**

`PMTicket.h`

## **PMTicketGetCString**

Obtains data for a ticket item of that’s a C-style string.

```
OSStatus PMTicketGetCString (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    UInt32 bufferSize,
    CFStringEncoding encoding,
    char *value
);
```

#### **Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*bufferSize*

The size of the string specified by the `value` parameter.

*encoding*

The encoding of the string. You should supply one of the `CFStringBuiltInEncodings` constants defined in Core Foundation String Services.

*value*

On return, points to the C-style string for the item specified by the `key` parameter.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

PMTicket.h

## PMTicketGetDouble

Obtains data for a ticket item of type `double`.

```
OSStatus PMTicketGetDouble (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    double *value
);
```

### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*value*

On return, points to the `double` value for the item specified by the `key` parameter.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

PMTicket.h

## PMTicketGetEnumType

Obtains a ticket’s ticket type (job, paper, converter, and so on).

```
OSStatus PMTicketGetEnumType (
    PMTicketRef ticket,
    PMTicketType *ticketType
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*ticketType*

On return, points to a value of type `PMTicketType` that specifies a ticket's type.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketGetIndexPMResolution**

Obtains an indexed resolution for a ticket item that's an array of type `PMResolution`.

```
OSStatus PMTicketGetIndexPMResolution (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    UInt32 index,
    PMResolution *res
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*index*

The index of the resolution you want to obtain.

*res*

On return, points to the resolution (`PMResolution`) specified by the `index` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketGetItem**

Obtains data for a ticket item of type CType.

```
OSStatus PMTicketGetItem (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    CTypeRef *item
);
```

**Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*item*

On return, point to a Core Foundation type reference for the item specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketGetLockedState**

Obtains the lock state of a ticket.



```
OSStatus PMTicketGetLockedState (
    PMTicketRef ticket,
    Boolean *lockedState
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*lockedState*

On return, points to `true` if the ticket is locked and `false` if the ticket is unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Discussion**

Tickets can be locked by the printing system. If you try to modify a locked ticket the result code `kPMTicketLocked` is returned. You can call the function `PMTicketGetLockedState` before you call any other function that modifies the ticket.

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

Not available to 64-bit applications.

**Declared In**

`PMTicketDeprecated.h`

**PMTicketGetMetaItem**

Obtains data for a item added with the function `PMTicketSetMetaItem`.

Not recommended.

```
OSStatus PMTicketGetMetaItem (
    PMTicketRef ticket,
    CFStringRef key,
    CTypeRef *item
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*item*

On return, a reference to the data for the item specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

Not available to 64-bit applications.

#### Declared In

PMTicketDeprecated.h

### PMTicketGetPMRect

Obtains data for a ticket item of type `PMRect`.

```
OSStatus PMTicketGetPMRect (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    PMRect *value
);
```

#### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*value*

On return, points to the `PMRect` data for the item specified by the `key` parameter.

#### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

#### Declared In

PMTicket.h

### PMTicketGetPMResolution

Obtains data for a ticket item of type `PMResolution`.

```
OSStatus PMTicketGetPMResolution (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    PMResolution *res
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel1`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel1`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*res*

On return, points to the `PMResolution` data for the item specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketGetPPDDict**

Obtains data for a ticket item that’s a PostScript printer description (PPD) dictionary.

```
OSStatus PMTicketGetPPDDict (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFMutableDictionaryRef *dict
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel1`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel1`.

*dict*

On return, points to a reference to the PostScript printer description (PPD) dictionary associated with the specified ticket. The dictionary holds pairs of PPD main and option keywords. The main keywords are specified as keys in the dictionary and the options keywords specify the value.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

Not available to 64-bit applications.

**Declared In**

PMTicketDeprecated.h

## PMTicketGetPString

Obtains data for a ticket item that’s a Pascal-style string.

```
OSStatus PMTicketGetPString (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    UInt32 bufferSize,
    CFStringEncoding encoding,
    StringPtr value
);
```

**Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*bufferSize*

The size of the `value` parameter.

*encoding*

The encoding of the string. You should supply one of the `CFStringBuiltInEncodings` constants defined in Core Foundation String Services.

*value*

On return, points to the Pascal-style string value for the ticket item specified by the `key` parameter.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

PMTicket.h

## PMTicketGetRetainCount

Obtains the retention count for a ticket.

```
OSStatus PMTicketGetRetainCount (
    PMTicketRef ticket,
    CFIndex *retainCount
);
```

### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*retainCount*

On return, points to the retention count for the ticket.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Discussion

The function `PMTicketGetRetainCount` behaves similarly to the Core Foundation function `CFGetRetainCount`.

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

PMTicket.h

## PMTicketGetSInt32

Obtains data for a ticket item of type `SInt32`.

```
OSStatus PMTicketGetSInt32 (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    SInt32 *value
);
```

### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMToplevel`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*value*

On return, points to the `SInt32` value for the ticket item specified by the `key` parameter.

#### **Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### **Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

#### **Declared In**

`PMTicket.h`

## **PMTicketGetTicket**

Obtains a subticket from a ticket.

```
OSStatus PMTicketGetTicket (
    PMTicketRef ticket,
    CFStringRef requestedType,
    UInt32 index,
    PMTicketRef *retrievedTicket
);
```

#### **Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*requestedType*

A string that specifies the ticket type of the ticket you want to obtain. See [“Ticket Type Strings”](#) (page 133) for a list of strings you can pass.

*index*

Reserved for future use. Currently, you must pass the constant `kPMToplevel`.

*retrievedTicket*

On return, points to the ticket reference whose type you specified.

#### **Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### **Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

#### **Declared In**

`PMTicket.h`

## PMTicketGetType

Obtains a value that specifies the ticket's type.

```
OSStatus PMTicketGetType (
    PMTicketRef ticket,
    CFStringRef *ticketType
);
```

### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*ticketType*

On return, points to a string value that specifies the ticket's type. See [“PMTicketType”](#) (page 103) for a list of constants that can be returned

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTicket.h`

## PMTicketGetUInt32

Obtains an item of type `UInt32` from a ticket.

```
OSStatus PMTicketGetUInt32 (
    PMTicketRef ticket,
    UInt32 nodeIndex1,
    UInt32 nodeIndex2,
    CFStringRef key,
    UInt32 *value
);
```

### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*nodeIndex1*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel1`.

*nodeIndex2*

Reserved for future use. Currently, you must pass the constant `kPMTopLevel1`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item whose value you want to obtain.

*value*

On return, points to `UInt32` value for the ticket item specified by the `key` parameter.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketIsItemLocked**

Checks to see if an item in a ticket is locked.

```
OSStatus PMTicketIsItemLocked (  
    PMTicketRef ticket,  
    CFStringRef key,  
    Boolean *locked  
);
```

**Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to check.

*locked*

On return, points to `true` if the item is locked or `false` if the item is not locked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Discussion**

The function `PMTicketIsItemLocked` checks only those items stored in the top-level of the ticket. It does not check items in subtickets.

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

Not available to 64-bit applications.

**Declared In**

PMTicketDeprecated.h

**PMTicketLockItem**

Locks an item in a ticket.



```
OSStatus PMTicketLockItem (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to lock.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Discussion**

The function `PMTicketLockItem` locks only those items stored in the top-level of the ticket. It does not lock items in sub-tickets.

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

Not available to 64-bit applications.

**Declared In**

`PMTicketDeprecated.h`

**PMTicketReadXMLFromFile**

Restores a ticket previously converted to XML and saved as a file.

```
OSStatus PMTicketReadXMLFromFile (
    CFAllocatorRef allocator,
    const char *path,
    PMTicketRef *ticket,
    CFStringRef *errorString
);
```

**Parameters***allocator*

A reference to the allocator object to be used for allocating memory. Pass a reference to a valid allocator or `kCFAllocatorDefault` to request the default allocator.

*path*

A string that specifies the path name of the XML file you want to read.

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`. On return, the ticket contains the entries specified by the XML file.

*errorString*

On return, a reference to a `CFString` object that contains an error message if an error occurred.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

## **PMTicketRelease**

Decrements the retention count of a ticket object.

```
OSStatus PMTicketRelease (
    PMTicketRef ticket
);
```

**Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

## **PMTicketReleaseAndClear**

Decrements the retention count of a ticket and sets the ticket reference to `NULL`.

```
OSStatus PMTicketReleaseAndClear (
    PMTicketRef *ticket
);
```

**Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketReleaseItem**

Removes an item from a ticket.

```
OSStatus PMTicketReleaseItem (
    PMTicketRef ticket,
    CFStringRef key
);
```

**Parameters***ticket*A reference to a ticket created by calling the function `PMTicketCreate`.*key*A reference to a `CFString` object that uniquely identifies the ticket item you want to remove.**Return Value**A result code. See [“Ticket Services Result Codes”](#) (page 134).**Discussion**

An item can only be released if it is not locked. The function `PMTicketReleaseItem` works differently than the function `PMTicketDeleteItem`. The function `PMTicketDeleteItem` makes the item unavailable, but keeps information about the item in the ticket. The function `PMTicketReleaseItem` removes the item from the ticket.

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketRemoveTicket**

Removes a subticket from a ticket.

```
OSStatus PMTicketRemoveTicket (
    PMTicketRef ticket,
    CFStringRef typeToRemove,
    UInt32 index
);
```

**Parameters***ticket*A reference to a ticket created by calling the function `PMTicketCreate`.*typeToRemove*A reference to a `CFString` object that specifies the ticket type of the ticket you want to create. See [“Ticket Type Strings”](#) (page 133) for a list of constants you can pass.*index*Reserved for future use. Currently, you must pass the constant `kPMTopLevel`.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

PMTicket.h

## PMTicketRetain

Increments the retention count of a ticket object.

```
OSStatus PMTicketRetain (  
    PMTicketRef ticket  
);
```

### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

PMTicket.h

## PMTicketSetBoolean

Writes an item of type `Boolean` to a ticket.

```
OSStatus PMTicketSetBoolean (  
    PMTicketRef ticket,  
    CFStringRef clientID,  
    CFStringRef key,  
    Boolean value,  
    Boolean locked  
);
```

### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*value*

The `Boolean` value to which you want to set the ticket item entry specified by the `key` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

#### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

#### Declared In

`PMTicket.h`

## PMTicketSetBytes

Writes an item that’s an array of type `UInt8` to a ticket.

```
OSStatus PMTicketSetBytes (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    const UInt8 *data,
    UInt32 size,
    Boolean locked
);
```

#### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*data*

A pointer to the data to which you want to set the ticket item entry specified by the `key` parameter.

*size*

The size of the data, in bytes.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

#### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketSetCFArray**

Writes an item of type `CFArray` to a ticket.

```
OSStatus PMTicketSetCFArray (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    CFArrayRef item,
    Boolean locked
);
```

**Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*item*

A reference to the Core Foundation array to which you want to set the ticket item entry specified by the `key` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketSetCFBoolean**

Writes an item of type `CFBoolean` to a ticket.

```
OSStatus PMTicketSetCFBoolean (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    CFBooleanRef item,
    Boolean locked
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*item*

A reference to the `CFBoolean` value to which you want to set the ticket item entry specified by the `key` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketSetCFData**

Writes an item of type `CFData` to a ticket.

```
OSStatus PMTicketSetCFData (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    CFDataRef item,
    Boolean locked
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*item*

A reference to the `CFData` to which you want to set the ticket item entry specified by the `key` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketSetCFDate**

Writes an item of type `CFDate` to a ticket.

```
OSStatus PMTicketSetCFDate (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    CFDateRef item,
    Boolean locked
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*item*

A reference to the `CFDate` value to which you want to set the ticket item entry specified by the `key` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.



**Declared In**

PMTicket.h

**PMTicketSetCFDictionary**Writes an item of type `CFDictionary` to a ticket.

```
OSStatus PMTicketSetCFDictionary (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    CFDictionaryRef item,
    Boolean locked
);
```

**Parameters***ticket*A reference to a ticket created by calling the function `PMTicketCreate`.*clientID*A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.*key*A reference to a `CFString` object that uniquely identifies the ticket item you want to set.*item*A reference to the Core Foundation dictionary to which you want to set the ticket item entry specified by the `key` parameter.*locked*Pass `true` to set the item to locked; `false` to set it to unlocked.**Return Value**A result code. See [“Ticket Services Result Codes”](#) (page 134).**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketSetCFNumber**Writes an item of type `CFNumber` to a ticket.

```
OSStatus PMTicketSetCFNumber (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    CFNumberRef item,
    Boolean locked
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*item*

A reference to the `CFNumber` value to which you want to set the ticket item entry specified by the `key` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketSetCFString**

Writes an item of type `CFString` to a ticket.

```
OSStatus PMTicketSetCFString (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    CFStringRef item,
    Boolean locked
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*item*

A reference to the `CFString` object to which you want to set the ticket item entry specified by the `key` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketSetCString**

Writes an item that’s a C-style string to a ticket.

```
OSStatus PMTicketSetCString (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    const char *value,
    Boolean locked
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*value*

The C-style string to which you want to set the ticket item entry specified by the `key` parameter. The string must use UTF-8 encoding.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketSetCStringArray**

Writes an item that's an array of C-style strings to a ticket.

```
OSStatus PMTicketSetCStringArray (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    const char **cStringArray,
    UInt32 count,
    Boolean locked
);
```

**Parameters***ticket*A reference to a ticket created by calling the function `PMTicketCreate`.*clientID*A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.*key*A reference to a `CFString` object that uniquely identifies the ticket item you want to set.*cStringArray*The array of C-style strings to which you want to set the ticket item entry specified by the *key* parameter. The strings must use UTF-8 encoding.*count*

The number of characters in the C-style string array.

*locked*Pass `true` to set the item to locked; `false` to set it to unlocked.**Return Value**A result code. See [“Ticket Services Result Codes”](#) (page 134).**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketSetDouble**Writes an item of type `double` to a ticket.

```
OSStatus PMTicketSetDouble (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    double value,
    Boolean locked
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*value*

The double value to which you want to set the ticket item entry specified by the `key` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See ["Ticket Services Result Codes"](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketSetDoubleArray**

Writes an item that's an array of values of type `double` to a ticket.

```
OSStatus PMTicketSetDoubleArray (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    const double *array,
    UInt32 count,
    Boolean changeable
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*doubleArray*

A pointer to an array of `double` values to which you want to set the ticket item entry specified by the `key` parameter.

*count*

The number of values in the array specified by the `doubleArray` parameter.

*changeable*

Pass `true` to set the item to locked; `false` to set it to unlocked.

#### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

#### Declared In

`PMTicket.h`

## PMTicketSetItem

Writes an item of type `CType` to a ticket.

```
OSStatus PMTicketSetItem (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    CTypeRef item,
    Boolean locked
);
```

#### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*item*

A reference to the generic Core Foundation data to which you want to set the ticket item entry specified by the `key` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

#### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**  
PMTicket.h

### **PMTicketSetMetaItem**

Writes an item that does not need to be stored in an XML-representation of a ticket.

Not recommended.

```
OSStatus PMTicketSetMetaItem (  
    PMTicketRef ticket,  
    CFStringRef key,  
    CTypeRef item  
);
```

#### **Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*item*

A reference to the generic Core Foundation data to which you want to set the ticket item entry specified by the `key` parameter.

#### **Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

#### **Discussion**

You can use the function `PMTicketSetMetaItem` to add an item to a ticket when you don't want that item to be written to an XML-representation of the ticket. In other words, when you want to temporarily add an item to a ticket. Items added with this function cannot be locked.

#### **Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

Not available to 64-bit applications.

**Declared In**  
PMTicketDeprecated.h

### **PMTicketSetPMRect**

Writes an item of type `PMRect` to a ticket.

```
OSStatus PMTicketSetPMRect (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    PMRect *value,
    Boolean locked
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*value*

A pointer to the `PMRect` value to which you want to set the ticket item entry specified by the `key` parameter. A `PMRect` data type is an array of four double values.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketSetPMRectArray**

Writes an item that’s an array of values of type `PMRect` to a ticket.

```
OSStatus PMTicketSetPMRectArray (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    PMRect *pmRectArray,
    UInt32 count,
    Boolean locked
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.



*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*pmRectArray*

A pointer to an array of `PMRect` values to which you want to set the ticket item entry specified by the `key` parameter. A `PMRect` data type is an array of four `double` values.

*count*

The number of values in the array specified by the `pmRectArray` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketSetPMResolution**

Writes an item of type `PMResolution` to a ticket.

```
OSStatus PMTicketSetPMResolution (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    PMResolution *value,
    Boolean locked
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*value*

A pointer to the `PMResolution` value to which you want to set the ticket item entry specified by the `key` parameter. A `PMResolution` data type is an array of two `double` values.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketSetPMResolutionArray**

Writes an item that’s an array of data of type `PMResolution` to a ticket.

```
OSStatus PMTicketSetPMResolutionArray (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    PMResolution *pmResolutionArray,
    UInt32 count,
    Boolean locked
);
```

**Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*pmResolutionArray*

A pointer to an array of the `PMResolution` values to which you want to set the ticket item entry specified by the `key` parameter. A `PMResolution` data type is an array of two `double` values.

*count*

The number of items in the array specified by the `pmResolutionArray` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

## PMTicketSetPString

Writes an item that's a Pascal-style string to a ticket.

```
OSStatus PMTicketSetPString (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    ConstStringPtr value,
    Boolean locked
);
```

### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*value*

A pointer to the Pascal-style string to which you want to set the ticket item entry specified by the `key` parameter. The string must use MacRoman encoding.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

### Return Value

A result code. See ["Ticket Services Result Codes"](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTicket.h`

## PMTicketSetSInt32

Writes an item of type `SInt32` to a ticket.

```
OSStatus PMTicketSetSInt32 (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    SInt32 value,
    Boolean locked
);
```

### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*value*

The `SInt32` value to which you want to set the ticket item entry specified by the `key` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketSetSInt32Array**

Writes an item that’s an array of data of type `SInt32` to a ticket.

```
OSStatus PMTicketSetSInt32Array (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    const SInt32 *sInt32Array,
    UInt32 count,
    Boolean locked
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*sInt32Array*

A pointer to an array of `SInt32` values to which you want to set the ticket item entry specified by the `key` parameter.

*count*

The number of values in the array specified by the `sInt32Array` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

PMTicket.h

## PMTicketSetTemplate

Writes an item that’s a job template to a ticket.

```
OSStatus PMTicketSetTemplate (  
    PMTicketRef ticket,  
    CFStringRef clientID,  
    CFStringRef key,  
    PMTemplateRef item,  
    Boolean locked  
);
```

### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*item*

A reference to a job template created by calling the function `PMTemplateCreate`.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

PMTicket.h

## PMTicketSetTicket

Writes a subticket to a ticket.

```
OSStatus PMTicketSetTicket (
    PMTicketRef ticket,
    PMTicketRef ticketToAdd,
    UInt32 index
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`. This is the ticket to which you want to add a subticket. Any ticket can contain another ticket.

*ticketToAdd*

A reference to a ticket created by calling the function `PMTicketCreate`. This is the ticket you want to be a subticket.

*index*

Reserved for future use. Currently, you must pass the constant `kPMToplevel`.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketSetUInt32**

Writes an item of type `UInt32` to a ticket.

```
OSStatus PMTicketSetUInt32 (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    UInt32 value,
    Boolean locked
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*value*

The `UInt32` value to which you want to set the ticket item entry specified by the `key` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

**PMTicketSetUInt32Array**

Writes an item that’s an array of data of type UInt32 to a ticket.

```
OSStatus PMTicketSetUInt32Array (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key,
    const UInt32 *uInt32Array,
    UInt32 count,
    Boolean locked
);
```

**Parameters**

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to set.

*uInt32Array*

A pointer to the array of `UInt32` values to which you want to set the ticket item entry specified by the `key` parameter.

*count*

The number of values in the array specified by the `uInt32Array` parameter.

*locked*

Pass `true` to set the item to locked; `false` to set it to unlocked.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

PMTicket.h

## PMTicketToXML

Converts the data in a ticket to XML.

```
OSStatus PMTicketToXML (
    PMTicketRef ticket,
    CFDataRef *anXMLTicket
);
```

### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*anXMLTicket*

On return, points to a Core Foundation data reference that represents job template data. You are responsible for releasing the `CFData` reference.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Discussion

If you want to write the XML data to a file, use the function `PMTicketWriteXMLToFile`.

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTicket.h`

## PMTicketUnlockItem

Unlocks an item in a ticket.

```
OSStatus PMTicketUnlockItem (
    PMTicketRef ticket,
    CFStringRef clientID,
    CFStringRef key
);
```

### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*clientID*

A reference to a `CFString` object that uniquely identifies your application. The string should be in a format similar to a Java-style package name (think of it as a reverse URL), such as `CFSTR("com.myvendorname.myprintingcode")`.

*key*

A reference to a `CFString` object that uniquely identifies the ticket item you want to unlock.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).



### Discussion

The function `PMTicketUnlockItem` unlocks only those items stored in the top-level of the ticket. It does not unlock items in subtickets.

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

Not available to 64-bit applications.

### Declared In

`PMTicketDeprecated.h`

## PMTicketValidate

Validates a ticket against the constraint values specified in a job template.

```
OSStatus PMTicketValidate (
    PMTicketRef ticket,
    PMTemplateRef verifyingTemplate,
    CFArrayRef *invalidItems
);
```

### Parameters

*ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*verifyingTemplate*

A reference to the job template against which you want to validate the ticket.

*invalidItems*

On return, points to an array of invalid items, should there be any. If there are no invalid items, and the function returns `noErr`, then the value of `invalidItems` is undefined.

### Return Value

A result code. See [“Ticket Services Result Codes”](#) (page 134).

### Discussion

Only those items in the ticket that have corresponding entries in the job template are checked. In other words, a ticket item’s key must match a template item’s key for the ticket item to be validated.

### Availability

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

### Declared In

`PMTicket.h`

## PMTicketWriteXML

Converts a ticket to XML and then writes it to a file stream.

```
OSStatus PMTicketWriteXML (
    PMTicketRef ticket,
    FILE *file
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*xmlFile*

On input, the file to which you want the XML data to be written.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMTicketWriteXMLToFile**

Converts a ticket to XML and then writes it to a file.

```
OSStatus PMTicketWriteXMLToFile (
    PMTicketRef ticket,
    const char *path
);
```

**Parameters***ticket*

A reference to a ticket created by calling the function `PMTicketCreate`.

*path*

On input, the path of the file to which you want the XML data to be written. The function opens the file or creates one if one doesn't exist.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

**PMXMLToTicket**

Converts a ticket saved as XML to a ticket.

```
OSStatus PMXMLToTicket (
    CFAllocatorRef allocator,
    CFDataRef anXMLTicket,
    PMTicketRef *ticket,
    CFStringRef *conversionError
);
```

**Parameters***allocator*

A reference to the allocator object to be used for allocating memory. Pass a reference to a valid allocator or `kCFAllocatorDefault` to request the default allocator.

*anXMLTicket*

A reference to Core Foundation data that contains previously-converted job template data.

*ticket*

On return, a reference to a ticket that contains the data converted from the XML data specified by the *anXMLTicket* parameter.

*conversionError*

On return, a reference to a `CFString` object that specifies errors during the conversion process, if any. Pass `NULL` if you are not interested in getting the errors.

**Return Value**

A result code. See [“Ticket Services Result Codes”](#) (page 134).

**Availability**

Not available in CarbonLib.

Available in Mac OS X 10.0 and later.

**Declared In**

`PMTicket.h`

## Data Types

**ConstCStrList**

Represents a static list of C-string pointers.

```
typedef CStrList ConstCStrList;
```

**Discussion**

For more information see [“CStrList”](#) (page 100).

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

`PMTicket.h`

**ConstPMRectList**

Represents a static list of `PMRect` data structures.

```
typedef PMRectList ConstPMRectList;
```

**Discussion**

For more information see [“PMRectList”](#) (page 101).

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

PMTicket.h

## ConstSInt32List

Represents a static list of SInt32List data structures.

```
typedef SInt32List ConstSInt32List;
```

**Discussion**

For more information see [“SInt32List”](#) (page 103).

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

PMTicket.h

## CStrList

Contains an array of CString pointers and the number of pointers in the array.

```
struct CStrList {  
    SInt32 count;  
    char **strArray;  
};  
typedef struct CStrList CStrList;
```

**Fields**

count

The number of CString pointers in the array.

strArray

A pointer to an array of CString pointers.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

PMTicket.h

## PMPrintingPhaseType

Represents printing phases.

```
typedef UInt16 PMPrintingPhaseType;
```

#### Discussion

For more information see [“Printing Phase Types”](#) (page 126).

#### Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

#### Declared In

PMTicket.h

### PMRectList

Contains a list of `PMRect` data structures.

```
struct PMRectList {
    SInt32 count;
    PMRect **pmRectArray;
};
typedef struct PMRectList PMRectList;
```

#### Fields

`count`

The number of `PMRect` pointers in the array.

`pmRectArray`

A pointer to a list of `PMRect` data structures.

#### Discussion

A `PMRect` data structure contains a set of four `double` values (top, left, bottom, and right). This structure is used to specify page and paper rectangles.

#### Availability

Available in Mac OS X v10.0 and later.

#### Declared In

PMTicket.h

### PMTemplateRef

Refers to a template object that contains private variables and functions necessary to represent a job template.

```
typedef struct OpaquePMTemplateRef* PMTemplateRef;
```

#### Availability

Available in Mac OS X v10.0 and later.

#### Declared In

PMTicket.h

### PMTicketErrors

Represents values that indicate error conditions.

```
typedef SInt16 PMTicketErrors;
```

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

PMTicket.h

**PMTicketItemStruct**

Contains information about a ticket item.

```
struct PMTicketItemStruct {
    char *key;
    PMTicketItemType itemType;
    Boolean locked;
    union {
        const void *GenericData;
        const char *cString;
        SInt32 sInt32;
        UInt32 boolean;
        ConstCStrList *cStrlist;
        PMRect *rect;
        ConstSInt32List *sInt32List;
        ConstPMRectList *pmRectList;
    } value;
};
```

**Fields**

key

A string that uniquely identifies the item.

itemType

The type of item defined in the union.

locked

The lock state of the item.

value

The data associated with the item.

**Discussion**

You can use this structure to define a static ticket item. An array of these structures can then be converted to a ticket by calling the function `PMTicketFillFromArray`.

**PMTicketItemType**

Represents a ticket item type.

```
typedef UInt16 PMTicketItemType;
```

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

PMTicket.h

## **PMTicketRef**

Refers to a ticket object that contains private variables and functions necessary to represent a ticket.

```
typedef struct OpaquePMTicketRef* PMTicketRef;
```

### **Availability**

Available in Mac OS X v10.0 and later.

### **Declared In**

PMTicket.h

## **PMTicketType**

Represents a ticket type.

```
typedef SInt16 PMTicketType;
```

### **Discussion**

For more information see [“PMTicketType”](#) (page 103).

### **Availability**

Available in Mac OS X v10.0 and later.

### **Declared In**

PMTicket.h

## **PMValueType**

Represents a value type.

```
typedef SInt32 PMValueType;
```

### **Discussion**

For more information see [“Item Value Types”](#) (page 110).

### **Availability**

Available in Mac OS X v10.0 and later.

### **Declared In**

PMTemplate.h

## **SInt32List**

Contains an array of SInt32 values.

```

struct SInt32List {
    SInt32 count;
    const SInt32 *sInt32Array;
};
typedef struct SInt32List SInt32List;

```

**Fields**

count

The number of signed 32-bit values in the array.

sInt32Array

A pointer to the array.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

PMTicket.h

## Constants

### ColorSync Options

Defines strings and keys for items related to ColorSync options.

```

#define kPMColorDeviceIDStr kPMPrinterInfoPrelude "PMColorDeviceID"
#define kPMColorDeviceIDKey CFSTR(kPMColorDeviceIDStr)
#define kPMColorSyncProfilesStr kPMPrinterInfoPrelude "PMColorSyncProfiles"
#define kPMColorSyncProfilesKey CFSTR(kPMColorSyncProfilesStr)

```

**Constants**

kPMColorDeviceIDStr

The color device ID string.

kPMColorDeviceIDKey

The value of this key is a CFString representing a CFUUID; it must be unique per device.

kPMColorSyncProfilesStr

The ColorSync profiles sting.

kPMColorSyncProfilesKey

The value of this key is a CFArray of CFDictionary data structures, one CFDictionary data structure for each factory profile.

### Constraint Types

Specify a constraint type for a job template entry.



```
typedef SInt32 PMConstraintType;
enum {
    kPMConstraintUndefined = 0,
    kPMConstraintRange = 1,
    kPMConstraintList = 2,
    kPMConstraintPrivate = 3
};
```

### Constants

kPMConstraintUndefined

**Values are not constrained.**

Available in Mac OS X v10.0 and later.

Declared in PMTemplate.h.

kPMConstraintRange

**Values are constrained by a range of two values, both of type CTypeRef.**

Available in Mac OS X v10.0 and later.

Declared in PMTemplate.h.

kPMConstraintList

**Values are constrained by an array.**

Available in Mac OS X v10.0 and later.

Declared in PMTemplate.h.

kPMConstraintPrivate

**Values are constrained privately, and should not be checked by the system.**

Available in Mac OS X v10.0 and later.

Declared in PMTemplate.h.

## Converter Setup Ticket Keys

Defines strings and keys for items related to a converter setup ticket.

```

#define kPMConverterSetupPrelude "com.apple.print.ConverterSetup."
#define kPMBandingRequestedStr kPMConverterSetupPrelude "PMBandingRequested"
#define kPMBandingRequestedKey CFSTR(kPMBandingRequestedStr)
#define kPMRequiredBandHeightStr kPMConverterSetupPrelude "PMRequiredBandHeight"
#define kPMRequiredBandHeightKey CFSTR(kPMRequiredBandHeightStr)
#define kPMDepthSwitchingEnabledStr kPMConverterSetupPrelude "PMDepthSwitching"
#define kPMDepthSwitchingEnabledKey CFSTR(kPMDepthSwitchingEnabledStr)
#define kPMWhiteSkippingEnabledStr kPMConverterSetupPrelude "PMWhiteSpaceSkipping"
#define kPMWhiteSkippingEnabledKey CFSTR(kPMWhiteSkippingEnabledStr)
#define kPMConverterResHorizontalStr kPMConverterSetupPrelude
"PMConversionResHorizontal"
#define kPMConverterResHorizontalKey CFSTR(kPMConverterResHorizontalStr)
#define kPMConverterResVerticalStr kPMConverterSetupPrelude "PMConversionResVertical"
#define kPMConverterResVerticalKey CFSTR(kPMConverterResVerticalStr)
#define kPMRequestedPixelFormatStr kPMConverterSetupPrelude "PMPixelFormat"
#define kPMRequestedPixelFormatKey CFSTR(kPMRequestedPixelFormatStr)
#define kPMRequestedPixelLayoutStr kPMConverterSetupPrelude "PMPixelLayout"
#define kPMRequestedPixelLayoutKey CFSTR(kPMRequestedPixelLayoutStr)
#define kPMCVColorSyncProfileIDKey CFSTR(kPMCVColorSyncProfileIDStr)

```

### Constants

kPMConverterSetupPrelude

The converter-setup prelude string.

kPMBandingRequestedStr

The banding-requested string.

kPMBandingRequestedKey

The value of this key is a `CFBoolean`; turns banding on if it's available.

kPMRequiredBandHeightStr

The banding-height string.

kPMRequiredBandHeightKey

The value of this key is a `CFNumber` value; specifies the number of scan lines needed for each band. If it specifies the whole page, banding is disabled.

kPMDepthSwitchingEnabledStr

The depth-switching-enabled string.

kPMDepthSwitchingEnabledKey

The value of this key is a `CFBoolean` value; true specifies the printer module requests the converter to switch between black & white and color bands when possible.

kPMWhiteSkippingEnabledStr

The white-skipping-enabled string.

kPMWhiteSkippingEnabledKey

The value of this key is a `CFBoolean`; true specifies the printer module requests the converter to skip over white space if possible.

kPMConverterResHorizontalStr

The horizontal rendering resolution string.

kPMConverterResHorizontalKey

The value of this key is a `CFNumber` of type `CFNumberDoubleType`; specifies the final horizontal rendering resolution.

kPMConverterResVerticalStr

The vertical resolution string.

kPMConverterResVerticalKey

The value of this key is a CFNumber of type CFNumberDoubleType; specifies the final vertical rendering resolution.

kPMRequestedPixelFormatStr

The pixel format string.

kPMRequestedPixelFormatKey

The value of this key is a CFNumber of type CFNumberLongType; specifies the pixel format requested of the converter.

kPMRequestedPixelLayoutStr

The pixel layout string.

kPMRequestedPixelLayoutKey

The value of this key is a CFNumber of type CFNumberLongType; specifies the pixel layout requested of the converter.

kPMCVColorSyncProfileIDKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies the profile ID for the ColorSync profile to be used with the print job.

## Data Transmission Keys

Defines strings and keys for items related to data transmission.

```
#define kPMIsBinaryOKStr          kPMPrinterInfoPrelude "PMIsBinaryOK"
#define kPMIsBinaryOKKey         CFSTR(kPMIsBinaryOKStr)
#define kPM8BitCommStr           kPMPrinterInfoPrelude "PM8BitComm"
#define kPM8BitCommKey           CFSTR(kPM8BitCommStr)
#define kPMTransparentCommStr    kPMPrinterInfoPrelude "PMTransparentComm"
#define kPMTransparentCommKey    CFSTR(kPMTransparentCommStr)
```

### Constants

kPMIsBinaryOKStr

The binary is okay string.

kPMIsBinaryOKKey

The value of this key is a CFBoolean representing the result of querying the PostScript printer about its ability to accept binary data. It is possible for the underlying communications to support binary data, both high bit characters and control characters, but for a spooler on the other end of the channel to not accept binary data. This value represents the spooler/printer's abilities.

kPM8BitCommStr

The 8-bit communication string.

kPM8BitCommKey

The value of this key is a CFBoolean indicating whether the communications channel can transmit characters in the range 0x80 - 0xFF inclusive without them being damaged or interpreted as channel control characters.

kPMTransparentCommStr

The transparent communication string.

kPMTransparentCommKey

The value of this key is a CFBoolean indicating whether the communications channel can transmit characters in the range 0x00 - 0x1F inclusive without them being damaged or interpreted as channel control characters.

## Document Ticket Keys

Defines strings and keys for items in a document ticket; currently not used.

```
#define kPMDocumentTicketPrelude "com.apple.print.DocumentTicket."
#define kPMSpoolFormatStr kPMDocumentTicketPrelude "PMSpoolFormat"
#define kPMSpoolFormatKey CFSTR(kPMSpoolFormatStr)
#define kPMPrinterModuleFormatStr kPMDocumentTicketPrelude "PMDocPMInputFormat"
#define kPMPrinterModuleFormatKey CFSTR(kPMPrinterModuleFormatStr)
```

### Constants

kPMDocumentTicketPrelude

**Currently not used.**

kPMSpoolFormatStr

**Currently not used.**

kPMSpoolFormatKey

**Currently not used.**

kPMPrinterModuleFormatStr

**Currently not used.**

kPMPrinterModuleFormatKey

**Currently not used.**

## Drawing Resolution Keys

Defines strings and keys for items in related to drawing resolution.

```
#define kPMPrinterSuggestedResStr kPMPrinterInfoPrelude
"PMPrinterSuggestedRes"
#define kPMPrinterSuggestedResKey CFSTR(kPMPrinterSuggestedResStr
#define kPMPrinterMinResStr kPMPrinterInfoPrelude "PMPrinterMinRes"
#define kPMPrinterMinResKey CFSTR(kPMPrinterMinResStr)
#define kPMPrinterMaxResStr kPMPrinterInfoPrelude "PMPrinterMaxRes"
#define kPMPrinterMaxResKey CFSTR(kPMPrinterMaxResStr)
```

### Constants

kPMPrinterSuggestedResStr

**The suggested application drawing resolutions string.**

kPMPrinterSuggestedResKey

**The value of this key is the suggested application drawing resolutions key.**

kPMPrinterMinResStr

**The minimum drawing resolution string.**

kPMPrinterMinResKey

**The value of this key is the minimum range of resolutions for the printer; specified as a CFArray of two CFNumber values of type kCFNumberDoubleType.**

kPMPrinterMaxResStr

**The maximum printer resolution string.**

kPMPrinterMaxResKey

**The value of this key is the maximum range of resolutions for the printer; specified as a CFArray of two CFNumber values of type kCFNumberDoubleType.**

## Duplex Options

Specify values for the duplex options key (`kPMDuplexingKey`.)

```
enum {
    kPMDuplexNone = 1,
    kPMDuplexNoTumble = 2,
    kPMDuplexTumble = 3,
    kPMSimplexTumble = 4,
    kPMDuplexDefault = 1
};
```

### Constants

`kPMDuplexNone`

Don't use duplex.

Available in Mac OS X v10.0 and later.

Declared in `PMDefinitions.h`.

`kPMDuplexNoTumble`

Print on both sides of the paper; flip pages from left to right.

Available in Mac OS X v10.0 and later.

Declared in `PMDefinitions.h`.

`kPMDuplexTumble`

Print on both sides of the paper; tumbling so pages flip top to bottom.

Available in Mac OS X v10.0 and later.

Declared in `PMDefinitions.h`.

`kPMSimplexTumble`

Print on only one side of the paper, but tumble the images while printing.

Available in Mac OS X v10.0 and later.

Declared in `PMDefinitions.h`.

`kPMDuplexDefault`

Don't use duplex; this option is the same as `kPMDuplexNone`.

## Error Handling Options

Specify whether or not an error handler is available.

```
enum {
    kPSNoErrorHandler = 0,
    kPSErrorHandler = 1
};
```

### Constants

`kPSNoErrorHandler`

Specifies that an error handler is not available.

Available in Mac OS X v10.0 and later.

Declared in `PMTicket.h`.

kPSErrorHandler

Specifies that an error handler is available.

Available in Mac OS X v10.0 and later.

Declared in `PMTicket.h`.

## Fetch options

Specifies whether an item should be fetched.

```
#define kPMDontFetchItem NULL
```

### Constants

kPMDontFetchItem

Don't fetch the item.

## Installable Options

Defines a string and key for installable printer options.

```
#define kPMInstallableOptionStr kPMPrinterInfoPrelude  
"PMInstallableOption"  
#define kPMInstallableOptionKey CFSTR(kPMInstallableOptionStr)
```

### Constants

kPMInstallableOptionStr

The installable options string.

kPMInstallableOptionKey

The value of this key is a packed array of Pascal strings that specifies the installable options in the PostScript printer description (PPD) file. The strings are as key-value pairs of PPD main and option keywords.

## Item Value Types

Specify the data type of a ticket or template item.

```
typedef UInt16 PMTicketItemType;
enum {
    kPMItemInvalidType = 0,
    kPMItemCStringType = 1,
    kPMItemSInt32Type = 2,
    kPMItemBooleanType = 3,
    kPMItemCStrListType = 4,
    kPMItemPMRectType = 5,
    kPMItemSInt32ListType = 6,
    kPMItemPMRectListType = 7
};
```

### Constants

`kPMItemInvalidType`

The type is not valid.

Available in Mac OS X v10.0 and later.

Declared in `PMTicket.h`.

`kPMItemCStringType`

A C-style string pointer.

Available in Mac OS X v10.0 and later.

Declared in `PMTicket.h`.

`kPMItemSInt32Type`

A signed 32-bit integer.

Available in Mac OS X v10.0 and later.

Declared in `PMTicket.h`.

`kPMItemBooleanType`

A Boolean value.

Available in Mac OS X v10.0 and later.

Declared in `PMTicket.h`.

`kPMItemCStrListType`

A list of C-style strings

Available in Mac OS X v10.0 and later.

Declared in `PMTicket.h`.

`kPMItemPMRectType`

A pointer to a `PMRect` data structure.

Available in Mac OS X v10.0 and later.

Declared in `PMTicket.h`.

`kPMItemSInt32ListType`

A pointer to an `SInt32List` data structure.

Available in Mac OS X v10.0 and later.

Declared in `PMTicket.h`.

`kPMItemPMRectListType`

A pointer to a `PMRectList` data structure.

Available in Mac OS X v10.0 and later.

Declared in `PMTicket.h`.

## Job Ticket Keys

Defines strings and keys for items in a job ticket.

```
#define kPMJobTicketPrelude "com.apple.print.JobInfo."
#define kPMJobNameStr kPMJobTicketPrelude "PMJobName"
#define kPMJobNameKey CFSTR(kPMJobNameStr)
#define kPMApplicationNameStr kPMJobTicketPrelude "PMApplicationName"
#define kPMApplicationNameKey CFSTR(kPMApplicationNameStr)
#define kPMUserLanguageStr kPMJobTicketPrelude "PMUserLanguage"
#define kPMUserLanguageKey CFSTR(kPMUserLanguageStr)
#define kPMJobOwnerStr kPMJobTicketPrelude "PMJobOwner"
#define kPMJobOwnerKey CFSTR(kPMJobOwnerStr)
#define kPMJobTemplateStr kPMJobTicketPrelude "PMJobTemplate"
#define CFSTR(kPMJobTemplateStr)
#define kPMPhaseStr kPMJobTicketPrelude "PMPrintingPhase"
#define kPMPhaseKey CFSTR(kPMPhaseStr)
#define kPMOutputTypeStr kPMJobTicketPrelude "PMOutputType"
#define kPMOutputTypeKey CFSTR(kPMOutputTypeStr)
```

### Constants

kPMJobTicketPrelude

The job ticket prelude string.

kPMJobNameStr

The job name string.

kPMJobNameKey

The value of this key is a CFString that specifies the name of the job to be displayed in the print queue dialog.

kPMApplicationNameStr

The application name string.

kPMApplicationNameKey

The value of this key is a CFString that specifies the application's name.

kPMUserLanguageStr

The user language string.

kPMUserLanguageKey

The value of this key is a CFNumber of type kCFNumberSInt32Type.

kPMJobOwnerStr

The job owner string.

kPMJobOwnerKey

The value of this key is a CFString that specifies the name of the user who submitted the job.

kPMJobTemplateStr

The job template string.

kPMJobTemplateKey

The value of this key is a CFDictionary that is actually a PMTemplateRef.

kPMPhaseStr

The printing phase string.

kPMPhaseKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies an enumeration—Spooling, RIPing, and so forth.

kPMOutputTypeStr

The output type string.



`kPMOutputTypeKey`

The value of this key is a `CFString` that specifies a Mime type from the `kPMOutputTypeListKey` array generated by the printer module.

## Default Copy/Collate Value

Specifies the default value for copy/collate.

```
enum {
    kPMCopyCollateDefault = 1
};
```

### Constants

`kPMCopyCollateDefault`  
Use the default value for copy/collate.

## List Ticket Keys

Defines strings and keys for items in a list ticket.

```
#define kPMTicketListPrelude "com.apple.print.TicketList."
```

### Constants

`kPMTicketListPrelude`  
The list ticket prelude string.

## Lock State

Specifies whether an item is locked or unlocked.

```
enum {
    kPMUnlocked = 0,
    kPMLocked = 1
};
```

### Constants

`kPMUnlocked`  
Indicates items is unlocked.  
Available in Mac OS X v10.2 and later.  
Declared in `PMDefinitions.h`.

`kPMLocked`  
Indicates items is locked.  
Available in Mac OS X v10.2 and later.  
Not available to 64-bit applications.  
Declared in `PMDefinitionsDeprecated.h`.

## Memory Keys

Defines strings and keys for items related to printer memory.

```
#define kPMTotalMemInstalledStr kPMPrinterInfoPrelude
"PMTotalMemInstalled" #define kPMTotalMemInstalledKey
CFSTR(kPMTotalMemInstalledStr)
#define kPMTotalMemAvailableStr kPMPrinterInfoPrelude "PMTotalMemAvailable"
#define kPMTotalMemAvailableKey CFSTR(kPMTotalMemAvailableStr)
```

### Constants

kPMTotalMemInstalledStr

The memory installed string.

kPMTotalMemInstalledKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies the memory installed in the printer.

kPMTotalMemAvailableStr

The total memory available string.

kPMTotalMemAvailableKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies the remaining memory available for use.

## Page Format Ticket Keys

Defines strings and keys for items in a page format ticket.

```
#define kMPPageFormatPrelude "com.apple.print.PageFormat."
#define kPMAdjustedPaperRectStr kMPPageFormatPrelude "PMAdjustedPaperRect"
#define kPMAdjustedPaperRectKey CFSTR(kPMAdjustedPaperRectStr)
#define kPMAdjustedPageRectStr kMPPageFormatPrelude "PMAdjustedPageRect"
#define kPMAdjustedPageRectKey CFSTR(kPMAdjustedPageRectStr)
#define kPMDrawingResHorizontalStr kMPPageFormatPrelude "PMHorizontalRes"
#define kPMDrawingResHorizontalKey CFSTR(kPMDrawingResHorizontalStr)
#define kPMDrawingResVerticalStr kMPPageFormatPrelude "PMVerticalRes"
#define kPMDrawingResVerticalKey CFSTR(kPMDrawingResVerticalStr)
#define kMPPageScalingHorizontalStr kMPPageFormatPrelude "PMScaling"
#define kMPPageScalingHorizontalKey CFSTR(kMPPageScalingHorizontalStr)
#define kMPPageScalingVerticalStr kMPPageFormatPrelude "PMVerticalScaling"
#define kMPPageScalingVerticalKey CFSTR(kMPPageScalingVerticalStr)
#define kMPPageOrientationStr kMPPageFormatPrelude "PMOrientation"
#define kMPPageOrientationKey CFSTR(kMPPageOrientationStr)
#define kMPPageBackupRecordHdlStr kMPPageFormatPrelude "BackupPrintRecordHandle"
#define kMPPageBackupRecordHdlKey CFSTR(kMPPageBackupRecordHdlStr)
#define kMPPageBackupRecordDataStr kMPPageFormatPrelude "BackupPrintRecord"
#define kMPPageBackupRecordDataKey CFSTR(kMPPageBackupRecordDataStr)
#define kMPPageCustomDialogHdlStr kMPPageFormatPrelude "CustomDialogRecord"
#define kMPPageCustomDialogHdlKey CFSTR(kMPPageCustomDialogHdlStr)
#define kMPFormattingPrinterStr kMPPageFormatPrelude "FormattingPrinter"
#define kMPFormattingPrinterKey CFSTR(kMPFormattingPrinterStr)
```

### Constants

kMPPageFormatPrelude

The page format ticket prelude string.

kPMAadjustedPaperRectStr

The adjusted paper rectangle string.

kPMAadjustedPaperRectKey

The value of this key is a CFArray of four CFNumbers of type kCFNumberDoubleType for the adjusted paper rectangle, in points.

kPMAadjustedPageRectStr

The adjusted page rectangle string.

kPMAadjustedPageRectKey

The value of this key is a CFArray of four CFNumbers of type kCFNumberDoubleType for the adjusted page rectangle, in points.

kPMDrawingResHorizontalStr

The horizontal drawing resolution string.

kPMDrawingResHorizontalKey

The value of this key is a CFNumber of type kCFNumberDoubleType; the drawing resolution in horizontal direction.

kPMDrawingResVerticalStr

The vertical drawing resolution string.

kPMDrawingResVerticalKey

The value of this key is a CFNumber of type kCFNumberDoubleType; the drawing resolution in vertical direction.

kPMPageScalingHorizontalStr

The horizontal page scaling string.

kPMPageScalingHorizontalKey

The value of this key is a CFNumber of type kCFNumberDoubleType; the horizontal scaling factor applied to original page size.

kPMPageScalingVerticalStr

The vertical page scaling string.

kPMPageScalingVerticalKey

The value of this key is a CFNumber of type kCFNumberDoubleType; the vertical scaling factor applied to original page size.

kPMPageOrientationStr

The page orientation string.

kPMPageOrientationKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; PMOrientation, 1 = portrait, 2 = landscape, 3 = reverse portrait, 4 = reverse landscape.

kPMPageBackupRecordHdlStr

The page backup record handle string.

kPMPageBackupRecordHdlKey

The value of this key is a print record handle (CFData); not used when data is flattened. (Mac OS 8 and 9 only)

kPMPageBackupRecordDataStr

The page backup record data string.

kPMPageBackupRecordDataKey

The value of this key is a print record (CFData) stored in complete form; used when flattening ticket with the print record. ((Mac OS 8 and 9 only)

kPMPageCustomDialogHdlStr

The page custom dialog handle string.

kMPPageCustomDialogHdlKey

The value of this key is a handle (CFData) to the print record using for custom dialog calls; not stored when flattened. (Mac OS 8 and 9 only)

kMPFormattingPrinterStr

The formatting printer string.

kMPFormattingPrinterKey

The value of this key is a CFString that specifies name of the formatting printer.

## Page Ticket Key

Defines strings and keys for items in a page ticket; currently not used.

```
#define kMPPageTicketPrelude "com.apple.print.PageTicket."
```

### Constants

kMPPageTicketPrelude

Currently not used.

## Paper Info Ticket Keys

Defines strings and keys for items in a paper info ticket.

```
#define kMPPaperInfoPrelude "com.apple.print.PaperInfo."
#define kMPPaperNameStr kMPPaperInfoPrelude "PMPaperName"
#define kMPPaperNameKey CFSTR(kMPPaperNameStr)
#define kPMUnadjustedPaperRectStr kMPPaperInfoPrelude "PMUnadjustedPaperRect"
#define kPMUnadjustedPaperRectKey CFSTR(kPMUnadjustedPaperRectStr)
#define kPMUnadjustedPageRectStr kMPPaperInfoPrelude "PMUnadjustedPageRect"
#define kPMUnadjustedPageRectKey CFSTR(kPMUnadjustedPageRectStr)
#define kPMMatchPaperStr kMPPaperInfoPrelude "PMMatchPaper"
#define kPMMatchPaperKey CFSTR(kPMMatchPaperStr)
```

### Constants

kMPPaperInfoPrelude

The paper info ticket prelude string.

kMPPaperNameStr

The paper name string.

kMPPaperNameKey

The paper name key specifies the name of the paper displayed in the user interface.

kPMUnadjustedPaperRectStr

The unadjusted paper rectangle string.

kPMUnadjustedPaperRectKey

The unadjusted paper rectangle key specifies the unadjusted paper rectangle.

kPMUnadjustedPageRectStr

The unadjusted page rectangle string.

kPMUnadjustedPageRectKey

The unadjusted page rectangle key specifies the unadjusted page rectangle.

kPMMatchPaperStr

The paper match string.

`kPMPMatchPaperKey`

The paper match key specifies how closely the printing system must match the specified paper.

## PostScript Language Level Targets

Specify language-level targets for PostScript printing.

```
enum {
    kPMPSTargetLanguageLevel2and3 = -3,
    kPMPSTargetLanguageLevel1and2 = -2,
    kPMPSTargetLanguageLevelUnknown = -1,
    kPMPSTargetLanguageLevel1 = 1,
    kPMPSTargetLanguageLevel2 = 2,
    kPMPSTargetLanguageLevel3 = 3,
    kPMPSTargetLanguageLevelDefault = -1
};
```

### Constants

`kPMPSTargetLanguageLevel2and3`

Level 2 compatible, may take advantage of Level 3 features.

Available in Mac OS X v10.1 and later.

Declared in `PMTicket.h`.

`kPMPSTargetLanguageLevel1and2`

Level 1 compatible, may take advantage of Level 2 and 3 features.

Available in Mac OS X v10.1 and later.

Declared in `PMTicket.h`.

`kPMPSTargetLanguageLevelUnknown`

Language level of target is unknown.

Available in Mac OS X v10.1 and later.

Declared in `PMTicket.h`.

`kPMPSTargetLanguageLevel1`

Level 1.

Available in Mac OS X v10.1 and later.

Declared in `PMTicket.h`.

`kPMPSTargetLanguageLevel2`

Level 2.

Available in Mac OS X v10.1 and later.

Declared in `PMTicket.h`.

`kPMPSTargetLanguageLevel3`

Level 3.

Available in Mac OS X v10.1 and later.

Declared in `PMTicket.h`.

`kPMPSTargetLanguageLevelDefault`

Same as `kPMPSTargetLanguageLevelUnknown`.

Available in Mac OS X v10.1 and later.

Declared in `PMTicket.h`.

## PostScript Printer Description Tags

Defines strings and keys for items related to PostScript printer description files.

```
#define kPMDescriptionFileStr kPMPrinterInfoPrelude
"PMDescriptionFile"
#define kPMDescriptionFileKey CFSTR(kPMDescriptionFileStr)
#define kPMCompiledPPDStr kPMPrinterInfoPrelude "PMCompiledPPD"
#define kPMCompiledPPDKey CFSTR(kPMCompiledPPDStr)
```

### Constants

kPMDescriptionFileStr

The printer description file string.

kPMDescriptionFileKey

The value of this key is a CFString; specifies the PostScript printer description file name or other description file.

kPMCompiledPPDStr

The compiled PostScript printer description string.

kPMCompiledPPDKey

The value of this key is a compiled PostScript printer description (CFData).

## PostScript Printer Driver Keys

Defines a string and key for a PostScript printer driver.

```
#define kPMPrinterIsPostScriptDriverStr kPMPrinterInfoPrelude "PMIsPostScriptDriver"
#define kPMPrinterIsPostScriptDriverKey CFSTR(kPMPrinterIsPostScriptDriverStr)
```

### Constants

kPMPrinterIsPostScriptDriverStr

The PostScript printer driver string.

kPMPrinterIsPostScriptDriverKey

The value of this key is a CFBoolean value.

## Print Settings Ticket Keys

Defines strings and keys for items in a print settings ticket.

```

#define kPMBorderStr kMPrintSettingsPrelude "PMBorder"
#define kPMBorderKey CFSTR(kPMBorderStr)
#define kPMBorderTypeStr kMPrintSettingsPrelude "PMBorderType"
#define kPMBorderTypeKey CFSTR(kPMBorderTypeStr)
#define kPMLayoutNUpStr kMPrintSettingsPrelude "PMLayoutNUp"
#define kPMLayoutNUpKey CFSTR(kPMLayoutNUpStr)
#define kPMLayoutRowsStr kMPrintSettingsPrelude "PMLayoutRows"
#define kPMLayoutRowsKey CFSTR(kPMLayoutRowsStr)
#define kPMLayoutColumnsStr kMPrintSettingsPrelude "PMLayoutColumns"
#define kPMLayoutColumnsKey CFSTR(kPMLayoutColumnsStr)
#define kPMLayoutDirectionStr kMPrintSettingsPrelude "PMLayoutDirection"
#define kPMLayoutDirectionKey CFSTR(kPMLayoutDirectionStr)
#define kPMLayoutTileOrientationStr kMPrintSettingsPrelude "PMLayoutTileOrientation"
#define kPMLayoutTileOrientationKey CFSTR(kPMLayoutTileOrientationStr)
#define kPMQualityStr kMPrintSettingsPrelude "PMQuality"
#define kPMQualityKey CFSTR(kPMQualityStr)
#define kPMPaperTypeStr kMPrintSettingsPrelude "PMPaperType"
#define kPMPaperTypeKey CFSTR(kPMPaperTypeStr)
#define kPMJobStateStr kMPrintSettingsPrelude "PMJobState"
#define kPMJobStateKey CFSTR(kPMJobStateStr)
#define kPMJobHoldUntilTimeStr kMPrintSettingsPrelude "PMJobHoldUntilTime"
#define kPMJobHoldUntilTimeKey CFSTR(kPMJobHoldUntilTimeStr)
#define kPMJobPriorityStr kMPrintSettingsPrelude "PMJobPriority"
#define kPMJobPriorityKey CFSTR(kPMJobPriorityStr)
#define kPMPaperSourceStr kMPrintSettingsPrelude "PMPaperSource"
#define kPMPaperSourceKey CFSTR(kPMPaperSourceStr)
#define kPMDuplexingStr kMPrintSettingsPrelude "PMDuplexing"
#define kPMDuplexingKey CFSTR(kPMDuplexingStr)
#define kPMColorModeStr kMPrintSettingsPrelude "PMColorMode"
#define kPMColorModeKey CFSTR(kPMColorModeStr)
#define kPMColorSyncProfileIDStr kMPrintSettingsPrelude "PMColorSyncProfileID"
#define kPMColorSyncProfileIDKey CFSTR(kPMColorSyncProfileIDStr)
#define kPMColorSyncSystemProfilePathStr kMPrintSettingsPrelude
"PMColorSyncSystemProfilePath"
#define kPMColorSyncSystemProfilePathKey CFSTR(kPMColorSyncSystemProfilePathStr)
#define kMPrintScalingHorizontalStr kMPrintSettingsPrelude "PMScaling"
#define kMPrintScalingHorizontalKey CFSTR(kMPrintScalingHorizontalStr)
#define kMPrintScalingVerticalStr kMPrintSettingsPrelude "PMVerticalScaling"
#define kMPrintScalingVerticalKey CFSTR(kMPrintScalingVerticalStr)
#define kMPrintScalingAlignmentStr kMPrintSettingsPrelude "PMScalingAlignment"
#define kMPrintScalingAlignmentKey CFSTR(kMPrintScalingAlignmentStr)
#define kMPrintOrientationStr kMPrintSettingsPrelude "PMOrientation"
#define kMPrintOrientationKey CFSTR(kMPrintOrientationStr)
#define kMPMPreviewStr kMPrintSettingsPrelude "PMPreview"
#define kMPMPreviewKey CFSTR(kMPMPreviewStr)
#define kMPrintBackupRecordHdlStr kMPrintSettingsPrelude "BackupPrintRecordHandle"
#define kMPrintBackupRecordHdlKey CFSTR(kMPrintBackupRecordHdlStr)
#define kMPrintBackupRecordDataStr kMPrintSettingsPrelude "BackupPrintRecord"
#define kMPrintBackupRecordDataKey CFSTR(kMPrintBackupRecordDataStr)
#define kMPrintCustomDialogHdlStr kMPrintSettingsPrelude "CustomDialogRecord"
#define kMPrintCustomDialogHdlKey CFSTR(kMPrintCustomDialogHdlStr)
#define kMPMPPrimaryPaperFeedStr kMPrintSettingsPrelude
"PMPrimaryPaperFeed"
#define kMPMPPrimaryPaperFeedKey CFSTR(kMPMPPrimaryPaperFeedStr)
#define kMPMPSecondaryPaperFeedStr kMPrintSettingsPrelude
"PMSecondaryPaperFeed"
#define kMPMPSecondaryPaperFeedKey CFSTR(kMPMPSecondaryPaperFeedStr)
#define kMPMPSErrHandlerStr kMPrintSettingsPrelude

```

```

"PMPSErrorHandler"
#define kMPSErrorHandlerKey                    CFSTR(kMPSErrorHandlerStr)
#define kMPSErrorOnScreenStr                  kMPPrintSettingsPrelude
"MPSErrorOnScreen"
#define kMPSErrorOnScreenKey                  CFSTR(kMPSErrorOnScreenStr)
#define kMPSTraySwitchStr                      kMPPrintSettingsPrelude
"MPSTraySwitch"
#define kMPSTraySwitchKey                      CFSTR(kMPSTraySwitchStr)
#define kMPPDDictStr                          kMPPrintSettingsPrelude "kMPPDDictStr"
#define kMPPDDictKey CFSTR(kMPPDDictStr)

```

**Constants**

kMPPrintSettingsPrelude

**The print settings ticket prelude string.**

kMPDestinationTypeStr

**The destination type string.**

kMPDestinationTypeKey

**The value of this key is a CFNumber of type kCFNumberSInt32Type; can be kMPDestinationPrinter, kMPDestinationFile, or kMPDestinationFax.**

kMPOutputFilenameStr

**The output filename string.**

kMPOutputFilenameKey

**The value of this key is a CFString; a URL that specifies the output filename.**

kMPCopiesStr

**The copies string.**

kMPCopiesKey

**The value of this key is a CFNumber of type kCFNumberSInt32Type that specifies number of copies to print.**

kPMCopyCollateStr

**The copy/collate string.**

kPMCopyCollateKey

**The value of this key is a CFBoolean value; used to turn collating on.**

kPMReverseOrderStr

**The reverse order string.**

kPMReverseOrderKey

**The value of this key is a CFBoolean value; true specifies to print sheets back to front. All layout options are unaffected by reverse order.**

kMPPageRangeStr

**The page range string.**

kMPPageRangeKey

**The value of this key is a CFArray of type kCFNumberSInt32Type; indicates valid range of pages that the application is able to print.**

kMPFirstPageStr

**The first page string.**

kMPFirstPageKey

**The value of this key is a CFNumber of type kCFNumberSInt32Type; the first page selected by user to print.**

kPMLastPageStr

**The last page string.**



kPMLastPageKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; the last page selected by user to print.

kPMBorderStr

The border string.

kPMBorderKey

The value of this key is a CFBoolean; true specifies to use borders.

kPMBorderTypeStr

The border type string.

kPMBorderTypeKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies an enumeration (PMBorderType).

kPMLayoutNUpStr

The layout string.

kPMLayoutNUpKey

The value of this key is a CFBoolean value; turns N-Up layout on.

kPMLayoutRowsStr

The layout rows string.

kPMLayoutRowsKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; indicates number of layout rows.

kPMLayoutColumnsStr

The layout columns string.

kPMLayoutColumnsKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; indicates number of layout columns.

kPMLayoutDirectionStr

The layout direction string.

kPMLayoutDirectionKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies an enumeration (PMLayoutDirection).

kPMLayoutTileOrientationStr

The layout tile orientation string.

kPMLayoutTileOrientationKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; PMOrientation, 1 = portrait, 2 = landscape, etc.

kPMQualityStr

The print quality string.

kPMQualityKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies an enumeration—draft, normal, best.

kPMPaperTypeStr

The paper type string.

kPMPaperTypeKey

The value of this key is a CFNumber of type kCFNumberSInt32Type.

kPMJobStateStr

The job state string.

kPMJobStateKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies an enumeration—active = 0, pending, hold until, hold indefinitely, aborted, finished.

kPMJobHoldUntilTimeStr

The job hold until string.

kPMJobHoldUntilTimeKey

The value of this key is a CFDate; specifies time to print the job.

kPMJobPriorityStr

The job priority string.

kPMJobPriorityKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies an enumeration—Low = 0, normal, urgent.

kPMPaperSourceStr

The paper source string.

kPMPaperSourceKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies an enumeration of paper sources.

kPMDuplexingStr

The duplexing string.

kPMDuplexingKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies an enumeration—kPMDuplexNone, kPMDuplexNoTumble, kPMDuplexTumble, kPMSimplexTumble.

kPMColorModeStr

The color mode string.

kPMColorModeKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies an enumeration—Black and White, Grayscale, Color, HiFi Color.

kPMColorSyncProfileIDStr

The ColorSync Profile ID string.

kPMColorSyncProfileIDKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies the ID of the ColorSync profile to use.

kPMColorSyncSystemProfilePathStr

The ColorSync system profile path string.

kPMColorSyncSystemProfilePathKey

The value of this key is a CFString; specifies the path of system profile.

kPMPrintScalingHorizontalStr

The horizontal print scaling string.

kPMPrintScalingHorizontalKey

The value of this key is a CFNumber of type kCFNumberDoubleType; specifies the horizontal scaling factor applied to original page size.

kPMPrintScalingVerticalStr

The vertical print scaling string.

kPMPrintScalingVerticalKey

The value of this key is a CFNumber of type kCFNumberDoubleType; specifies the vertical scaling factor applied to original page size.

kPMPrintScalingAlignmentStr

The print scaling alignment string.

kPMPrintScalingAlignmentKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies an enumeration (PMScalingAlignment).

kPMPrintOrientationStr

The print orientation string.

kPMPrintOrientationKey

The value of this key is a CFNumber of type kCFNumberSInt32Type; specifies and enumeration—PMOrientation, 1 = portrait, 2 = landscape, etc.

kPMPreviewStr

The print preview string.

kPMPreviewKey

The value of this key is a CFString; “YES” indicates the user clicked the Preview button.

kPMPrintBackupRecordHdlStr

The print backup record handle string.

kPMPrintBackupRecordHdlKey

The value of this key is a print record handle (CFData); not used when data is flattened. (Mac OS 8 and 9 only)

kPMPrintBackupRecordDataStr

The print backup record data string.

kPMPrintBackupRecordDataKey

The value of this key is a print record (CFData) stored in complete form; used when flattening a ticket with the print record. (Mac OS 8 and 9 only)

kPMPrintCustomDialogHdlStr

The print custom dialog handle string.

kPMPrintCustomDialogHdlKey

The value of this key is a handle (CFData) to the print record using for custom dialog calls; not stored when data is flattened. (Mac OS 8 and 9 only)

kPMPrimaryPaperFeedStr

The primary paper feed string.

kPMPrimaryPaperFeedKey

The value of this key is a CFArray; the main and option PPD keywords for input paper feed.

kPMSecondaryPaperFeedStr

The secondary paper feed string.

kPMSecondaryPaperFeedKey

The value of this key is a CFArray; the main and option PPD keywords for input paper feed.

kPMPSErrorHandlerStr

The PostScript error handle string.

kPMPSErrorHandlerKey

The value of this key is a CFNumber of type kCFNumberSInt32Type.

kPMPSErrorOnScreenStr

The PostScript error on screen string.

kPMPSErrorOnScreenKey

The value of this key is a CFBoolean; turns PostScript error onscreen notification on.

kPMPSTraySwitchStr

The PostScript tray switch string.

kPMPSTraySwitchKey

The value of this key is a CFArray; the main and option PostScript printer description file keywords for tray switching.

kPMPPDDictStr

The PostScript printer description file string.

kPMPPDDictKey

The value of this key is a CFDictionary; the main and option PostScript printer description file keywords for additional features.

## Printer Driver Creator Code Key

Defines a string and key for the printer driver creator code.

```
#define kPMDriverCreatorStr          kPMPrinterInfoPrelude
"PMDriverCreator"
#define kPMDriverCreatorKey          CFSTR(kPMDriverCreatorStr)
```

### Constants

kPMDriverCreatorStr

The printer driver creator string.

kPMDriverCreatorKey

The value of this key is a CFNumber of type kCFNumberSInt32Type that specifies the creator code for the printer driver.

## Printer Font Keys

Defines a string and key for the printer fonts.

```
#define kPMPrinterFontStr kPMPrinterInfoPrelude "Printer
Fonts"
#define kPMPrinterFontKey CFSTR(kPMPrinterFontStr)
```

### Constants

kPMPrinterFontStr

The printer font string.

kPMPrinterFontKey

The value of this key is CFData that specifies the printer resident fonts.

## Printer Info Ticket Keys

Defines strings and keys for items in a printer info ticket.

```

#define kPMPrinterInfoPrelude "com.apple.print.PrinterInfo."
#define kPMPrinterLongNameStr kPMPrinterInfoPrelude "PMPrinterLongName"
#define kPMPrinterLongNameKey CFSTR(kPMPrinterLongNameStr)
#define kPMPrinterShortNameStr kPMPrinterInfoPrelude "PMPrinterShortName"
#define kPMPrinterShortNameKey CFSTR(kPMPrinterShortNameStr)
#define kPMMakeAndModelNameStr kPMPrinterInfoPrelude "PMMakeAndModelName"
#define kPMMakeAndModelNameKey CFSTR(kPMMakeAndModelNameStr)
#define kPMPrinterAddressStr kPMPrinterInfoPrelude "PMPrinterAddress"
#define kPMPrinterAddressKey CFSTR(kPMPrinterAddressStr)
#define kPMSupportsColorStr kPMPrinterInfoPrelude "PMSupportsColor"
#define kPMSupportsColorKey CFSTR(kPMSupportsColorStr)
#define kPMDoesCopiesStr kPMPrinterInfoPrelude "PMDoesCopies"
#define kPMDoesCopiesKey CFSTR(kPMDoesCopiesStr)
#define kPMDoesCopyCollateStr kPMPrinterInfoPrelude "PMDoesCopyCollate"
#define kPMDoesCopyCollateKey CFSTR(kPMDoesCopyCollateStr)
#define kPMDoesReverseOrderStr kPMPrinterInfoPrelude "PMDoesReverseOrderK"
#define kPMDoesReverseOrderKey CFSTR(kPMDoesReverseOrderStr)
#define kPMInputFileTypeListStr kPMPrinterInfoPrelude "PMInputFileTypeList"
#define kPMInputFileTypeListKey CFSTR(kPMInputFileTypeListStr)
#define kPMOutputTypeListStr kPMPrinterInfoPrelude "PMOutputTypeList"
#define kPMOutputTypeListKey CFSTR(kPMOutputTypeListStr)

```

### Constants

kPMPrinterInfoPrelude

The printer info ticket prelude string.

kPMPrinterLongNameStr

The printer long name string.

kPMPrinterLongNameKey

The value of this key is a CFString; specifies the full name of the printer.

kPMPrinterShortNameStr

The printer short name string.

kPMPrinterShortNameKey

The value of this key is a CFString; specifies a shortened version of the printer name.

kPMMakeAndModelNameStr

The printer make and model string.

kPMMakeAndModelNameKey

The value of this key is a CFString; specifies the product name used for the printer

kPMPrinterAddressStr

The printer address string.

kPMPrinterAddressKey

The value of this key is the product address (CFData).

kPMSupportsColorStr

The color supported string.

kPMSupportsColorKey

The value of this key is a CFBoolean; true if the printer supports color printing.

kPMDoesCopiesStr

The copies string.

kPMDoesCopiesKey

The value of this key is a CFBoolean; true if the printer supports copies.

kPMDoesCopyCollateStr

The collation string.

kPMDoesCopyCollateKey

The value of this key is a `CFBoolean`; true if the printer supports collation.

kPMDoesReverseOrderStr

The reverse-order string.

kPMDoesReverseOrderKey

The value of this key is a `CFBoolean`; true if the printer can print in reverse order.

kPMInputFileTypeListStr

The file type list string.

kPMInputFileTypeListKey

The value of this key is a `CFArray` of `CFString` data that indicates file types.

kPMOutputTypeListStr

The output type list string.

kPMOutputTypeListKey

The value of this key is a `CFArray` of `CFString` data that indicates the MIME types for the data that can be sent to an I/O module.

## Printing Phase Types

Specify the phase of the printing process.

```
typedef UInt16 PMPrintingPhaseType;
enum {
    kPMPhaseUnknown = 0,
    kPMPhasePreDialog = 1,
    kPMPhaseDialogsUp = 2,
    kPMPhasePostDialogs = 3,
    kPMPhasePreAppDrawing = 4,
    kPMPhaseAppDrawing = 5,
    kPMPhasePostAppDrawing = 6,
    kPMPhasePreConversion = 7,
    kPMPhaseConverting = 8,
    kPMPhasePostConversion = 9,
    kPMPhasePrinting = 10
};
```

### Constants

kPMPhaseUnknown

Phase unknown.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `PMTicket.h`.

kPMPhasePreDialog

Just before the code to open the dialog.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `PMTicket.h`.

kPMPhaseDialogsUp

A printing dialogs is open.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `PMTicket.h`.

`kPMPhasePostDialogs`

The printing dialogs have been opened and are now closed, but the job is not yet spooling.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `PMTicket.h`.

`kPMPhasePreAppDrawing`

The job is just about to spool.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `PMTicket.h`.

`kPMPhaseAppDrawing`

Drawing commands are now being spooled from the application.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `PMTicket.h`.

`kPMPhasePostAppDrawing`

Spooling is finished, not the job is not yet rendered or converted.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `PMTicket.h`.

`kPMPhasePreConversion`

The job is just about to be converted to its final format (PostScript, Raster, or other).

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `PMTicket.h`.

`kPMPhaseConverting`

The job is being converted from the spool file to the final format.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `PMTicket.h`.

`kPMPhasePostConversion`

The data is ready for the printer and waiting for completion.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `PMTicket.h`.

`kPMPhasePrinting`

The job is waiting for the printer.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `PMTicket.h`.

**Discussion**

Printing phase types signal a shift from one printing phase to the next and are set by many parts of the printing system. You can check the phase by testing for greater-than and less-than conditions.

## Rasterizer Options

Specify options for rasterizing.

```
enum {  
    kPMPSTTRasterizerUnknown = 0,  
    kPMPSTTRasterizerNone = 1,  
    kPMPSTTRasterizerAccept68K = 2,  
    kPMPSTTRasterizerType42 = 3  
};
```

### Constants

kPMPSTTRasterizerUnknown

**Rasterizer unknown.**

Available in Mac OS X v10.0 and later.

Declared in `PMTicket.h`.

kPMPSTTRasterizerNone

**No rasterizer.**

Available in Mac OS X v10.0 and later.

Declared in `PMTicket.h`.

kPMPSTTRasterizerAccept68K

**Accepts 68 K.**

Available in Mac OS X v10.0 and later.

Declared in `PMTicket.h`.

kPMPSTTRasterizerType42

**Uses type 42.**

Available in Mac OS X v10.0 and later.

Declared in `PMTicket.h`.

## Template Entry Data Types

Specify the data type of a job template entry.



```
typedef SInt32 PMValueType;
enum {
    kPMValueUndefined = 0,
    kPMValueBoolean = 1,
    kPMValueData = 2,
    kPMValueString = 3,
    kPMValueSInt32 = 4,
    kPMValueSInt32Range = 5,
    kPMValueUInt32 = 6,
    kPMValueUInt32Range = 7,
    kPMValueDouble = 8,
    kPMValueDoubleRange = 9,
    kPMValuePMRect = 10,
    kPMValueDate = 11,
    kPMValueArray = 12,
    kPMValueDict = 13,
    kPMValueTicket = 14
};
```

### Constants

`kPMValueUndefined`

Template entry is unknown or undefined.

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

`kPMValueBoolean`

A `CFBoolean` value.

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

`kPMValueData`

A `CFData` value. This is generic data converted to Core Foundation data. Template entries of this type should have a default value, but no other constraints.

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

`kPMValueString`

A `CFString` value. Template entries of this type should have a default value, but no other constraints.

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

`kPMValueSInt32`

A `CFNumber` value.

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

`kPMValueSInt32Range`

A pair of `CFNumber` values (`SInt32` data type).

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

`kPMValueUInt32`

A `CFNumber` value (unsigned long data types).

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

`kPMValueUInt32Range`

A pair of `CFNumber` values (UInt32 values).

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

`kPMValueDouble`

A `CFNumber` value (double data type.)

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

`kPMValueDoubleRange`

A pair of `CFNumber` values (double data types).

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

`kPMValuePMRect`

A Core Foundation array that contains four `CFNumber` values (double data types).

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

`kPMValueDate`

A `CFDate` value.

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

`kPMValueArray`

A Core Foundation array.

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

`kPMValueDict`

A `CFDictionary` data structure. Template entries of this type should have a default value, but no other constraints.

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

`kPMValueTicket`

A ticket.

Available in Mac OS X v10.0 and later.

Declared in `PMTemplate.h`.

### Discussion

A template entry data type determines what other fields and functions are available for the entry.

## Template Strings

Define a string associated with a template.

```
#define kPMTemplatePrelude      "com.apple.print.TemplateSpecific."
#define kPMPaperInfoListStr    "PMTemplatePaperInfoTicket"
#define kPMPaperInfoList CFSTR( kPMPaperInfoListStr )
```

**Constants**

`kPMTemplatePrelude`  
A template prelude string.

`kPMPaperInfoListStr`  
A paper info list string.

`kPMPaperInfoList`  
A paper info list.

**Ticket Levels**

Specify the level of an item within a ticket.

```
enum {
    kPMTopLevel = 0
};
```

**Constants**

`kPMTopLevel`  
Specifies the top level ticket.

**Discussion**

You should pass the constant `kPMTopLevel` to any function that has parameters to specify ticket level calls. No other options are currently available.

**Ticket Types**

Specify a ticket type, that is, a ticket kind.

```
typedef Sint16 PMTicketType;
enum {
    kPMTicketTypeUnknown = -1,
    kPMJobTicketType = 1,
    kPMDocumentTicketType = 2,
    kPMPageTicketType = 3,
    kPMPageFormatTicketType = 4,
    kPMPrintSettingsTicketType = 5,
    kPMPrinterInfoTicketType = 6,
    kPMDestinationTicketType = 7,
    kPMConverterSetupTicketType = 8,
    kPMModuleInfoTicketType = 9,
    kPMTicketListType = 10,
    kPMPaperInfoTicketType = 11
};
```

**Constants**

`kPMTicketTypeUnknown`  
Specifies the ticket type is not know.  
Available in Mac OS X v10.0 and later.  
Declared in `PMTicket.h`.

- `kPMJobTicketType`  
Specifies a job ticket.  
Available in Mac OS X v10.0 and later.  
Declared in `PMTicket.h`.
- `kPMDocumentTicketType`  
Specifies a document ticket.  
Available in Mac OS X v10.0 and later.  
Declared in `PMTicket.h`.
- `kPMPageTicketType`  
Specifies a page ticket.  
Available in Mac OS X v10.0 and later.  
Declared in `PMTicket.h`.
- `kPMPageFormatTicketType`  
Specifies a page format ticket.  
Available in Mac OS X v10.0 and later.  
Declared in `PMTicket.h`.
- `kPMPrintSettingsTicketType`  
Specifies a print settings ticket.  
Available in Mac OS X v10.0 and later.  
Declared in `PMTicket.h`.
- `kPMPrinterInfoTicketType`  
Specifies a printer info ticket.  
Available in Mac OS X v10.0 and later.  
Declared in `PMTicket.h`.
- `kPMDestinationTicketType`  
Specifies a destination ticket.  
Available in Mac OS X v10.0 and later.  
Declared in `PMTicket.h`.
- `kPMConverterSetupTicketType`  
Specifies a converter setup ticket.  
Available in Mac OS X v10.0 and later.  
Declared in `PMTicket.h`.
- `kPMModuleInfoTicketType`  
Specifies a printer module info ticket.  
Available in Mac OS X v10.0 and later.  
Declared in `PMTicket.h`.
- `kPMTicketListType`  
Specifies a list ticket.  
Available in Mac OS X v10.0 and later.  
Declared in `PMTicket.h`.

kPMPaperInfoTicketType  
    **Specifies a paper info ticket.**  
    **Available in Mac OS X v10.0 and later.**  
    **Declared in PMTicket.h.**

## Ticket Type Strings

Specify ticket types.

```
#define kPMJobTicket CFSTR("com.apple.print.JobTicket")
#define kPMDocumentTicket CFSTR("com.apple.print.DocumentTicket")
#define kMPPageTicket CFSTR("com.apple.print.PageTicket")
#define kMPPageFormatTicket CFSTR("com.apple.print.PageFormatTicket")
#define kMPPrintSettingsTicket CFSTR("com.apple.print.PrintSettingsTicket")
#define kPMDestinationTicket CFSTR("com.apple.print.DestinationTicket")
#define kPMConverterSetupTicket CFSTR("com.apple.print.ConverterSetupTicket")
#define kMPPrinterInfoTicket CFSTR("com.apple.print.PrinterInfoTicket")
#define kPMModuleInfoTicket CFSTR("com.apple.print.ModuleInfoTicket")
#define kPMTicketList CFSTR("com.apple.print.TicketList")
#define kPMPaperInfoTicket CFSTR("com.apple.print.PaperInfoTicket")
```

### Constants

kPMJobTicket  
    **Specifies a job ticket; the top-level ticket for a print job.**

kPMDocumentTicket  
    **Specifies a document ticket.**

kMPPageTicket  
    **Specifies a page ticket.**

kMPPageFormatTicket  
    **Specifies a page format ticket.**

kMPPrintSettingsTicket  
    **Specifies a print settings ticket.**

kPMDestinationTicket  
    **Specifies a destination ticket.**

kPMConverterSetupTicket  
    **Specifies a converter setup ticket.**

kMPPrinterInfoTicket  
    **Specifies a printer info ticket.**

kPMModuleInfoTicket  
    **Specifies a module info ticket.**

kPMTicketList  
    **Specifies a list ticket.**

kPMPaperInfoTicket  
    **Specifies a paper info ticket.**

### Discussion

Use these ticket type strings of ticket types to create a ticket.

## Result Codes

This table lists result codes defined for Ticket Services.

Result Code	Value	Description
kPMTicketTypeNotFound	-9580	The ticket type was not found. Available in Mac OS X v10.0 and later.
kPMUpdateTicketFailed	-9581	Could not update the ticket. Available in Mac OS X v10.0 and later.
kPMValidateTicketFailed	-9582	Could not validate the ticket. Available in Mac OS X v10.0 and later.
kPMSubTicketNotFound	-9583	Could not find the subticket. Available in Mac OS X v10.0 and later.
kPMInvalidSubTicket	-9584	The subticket is invalid. Available in Mac OS X v10.0 and later.
kPMDeleteSubTicketFailed	-9585	Could not delete the subticket. Available in Mac OS X v10.0 and later.
kPMItemIsLocked	-9586	The item is locked. Available in Mac OS X v10.0 and later.
kPMTicketIsLocked	-9587	The ticket is locked. Available in Mac OS X v10.0 and later.
kPMTemplateIsLocked	-9588	The job template is locked. Available in Mac OS X v10.0 and later.
kPMKeyNotFound	-9589	Could not find the key. Available in Mac OS X v10.0 and later.
kPMKeyNotUnique	-9590	The key is not unique. Available in Mac OS X v10.0 and later.
kPMUnknownDataType	-9591	The data type is unknown. Available in Mac OS X v10.0 and later.

# Document Revision History

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This table describes the changes to *Ticket Services Reference*.

Date	Notes
2002-10-23	Corrected the description of the <code>dict</code> parameter in the <a href="#">PMTicketGetPPDDict</a> (page 67) function.
	Updated formatting.
2001-04-01	First release of this document.

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