NTK Platform File Functions

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Introduction

The platform files—stored in a folder named Platforms in the same folder as NTK contain data tailored to different Newton products and a collection of Newton system definitions. The platform files also contain a number of utility functions and definitions for constants that reference them.

This document describes the additional functions provided by the NTK platform files that were not previously documented in *Newton Programmer's Reference* or *Newton Programmer's Guide: 2.1 OS Addendum*. However, those platform file functions that are included in these books are listed at the end of this document in the section "Summary of Functions," for completeness.

This document contains a change history, a brief description of how to call these platform file functions, and then the functions are described, grouped by topic. A summary of functions follows at the end of the document.

Change History

This section describes changes to the platform file functions since the last release of this document (November 1995).

Newton 2.1 Platform File

A new platform file, "Newton 2.1," (version 1.2b1) has been created to support the Newton 2.1 platform. This platform file contains the same functions as the 2.0 platform file, with these additional changes:

New functions:

GetMaskedPixel StringToKeyCodes

Newton 2.0 Platform File

The "Newton 2.0" platform file (version 1.2b1) has been changed as follows:

New functions:

```
DragAndDropLtd
GetAllDialinNetworks
GetAllFonts
GetCormectInfo
GetDialinNetwork
GetLocAccessNums
GetPartEntryData
GetTransport
```

RegDialinNetwork UnregDialinNetwork

Obsolete function:

SimpleTextHeight

Using Platform File Functions

The constant that represents a function is the function name with the prefix k and the suffix Func (that is, *kfunctionname*Func).

The platform file functions are available at compile time; you can make them available at run time by incorporating them into your application in the following way. Call the function with the NewtonScript call syntax or the Apply function. This strategy saves space and time, because it does not require a slot in the base view and avoids inheritance lookup; it also works in code that doesn't have access to your base view, such as the application part RemoveScript function.

Here is an example of using the call syntax to call a platform file function:

call kNewInfoFunc with (arg1, arg2);

Here is an example of using the Apply function to call a platform file function:

```
Apply(kNewInfoFunc, [arg1, arg2]);
```

Views

These functions relate to views.

ClearSelectionHilites

ClearSelectionHilites(*theView*) // call kClearSelectionHilitesFunc

This function removes selection highlights from a view.

theView	The view of class clEditView or clParagraphView from which you
	want to remove selection highlights.
return value	Undefined; do not rely on it.

DISCUSSION

For views of the clParagraphView class, this function unhighlights any selected text. For views of the clEditView class, this function removes the thick gray rectangles used to indicate selections. For other view classes the behavior is undefined.

If you specify a view of the clParagraphView class that is a child of a view of the clEditView class, the behavior is also undefined.

Note

Do not confuse this function with the Hilite or HiliteUnique view methods. The ClearSelectionHilites function does not affect the highlight state of a view.

ViewIsOpen

ViewIsOpen(<i>view</i>)	//	call	kViewIsOpenFunc
---------------------------	----	------	-----------------

Returns true if the view is open.

view The view you wish to check.

return value True if the view is open; nil if it is not.

DISCUSSION

Note that a view can be open but not visible (if it is hidden).

This function is a better way to check if a view is open, rather than checking if the viewCObject slot is non-nil.

Extras Drawer

These functions operate on the Extras Drawer.

GetPartCursor

```
extrasDrawer:GetPartCursor(packageName, store, folderSym) // call
kGetPartCursorFunc
```

Returns a cursor for entries corresponding to parts (icons) displayed in the Extras Drawer.

packageName	Specify a string naming a package, or nil. If you specify a package name, the cursor returns parts only from that package. To return parts from all packages, specify nil.
store	Specify a store object or nil. If you specify a store object, the cursor returns parts only from that store. To return parts from all stores, specify nil.
folderSym	Specify a symbol identifying a folder, or nil. If you specify a folder symbol, the cursor returns parts only filed within that Extras Drawer folder. To return parts from all folders, specify the symbol '_all. To return parts from the unfiled folder, specify nil.
return value	A cursor for entries corresponding to parts (icons) displayed in the Extras Drawer.

DISCUSSION

The structure of the entries returned by the cursor is subject to change. Entries should be accessed only by using the functions GetPartEntryData, LaunchPartEntry, and SetExtrasInfo. Do not directly change the entries returned by GetPartCursor.

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. Note that this function is implemented in ROM on Newton 2.1 units, so you can call it directly if your application runs only on the Newton 2.1 OS. ◆

GetPartEntryData

<i>extrasDrawer</i> :GetPa	rtEntryData(<i>entry</i>) // call kGetPartEntryDataFunc
Returns a frame cor	ntaining information about an Extras Drawer part entry.
entry	An entry obtained from a part cursor (by using GetPartCursor).
return value	A frame containing information about an Extras Drawer part entry.

DISCUSSION

The frame returned has the following slots.

Slot d	escriptions
--------	-------------

icon	A bitmap frame (of the kind returned by GetPictAsBits) containing the bitmap for the part icon displayed in the Extras Drawer.
iconPro	A frame with two slots, unhilited and hilited, that contain pix families for normal and highlighted versions of the icon. The highlighted version of the icon is shown when the icon is selected.
text	A string that is the text shown under the part icon.
labels	A symbol identifying the Extras Drawer folder in which the part is filed. If this slot is nil, the part is unfiled.
appSymbol	A symbol identifying the application, if the part frame has an app slot.
packageName	A string that is the name of the package that contains the part.

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. Note that this function is implemented in ROM on Newton 2.1 units, so you can call it directly if your application runs only on the Newton 2.1 OS. ◆

LaunchPartEntry

extrasDrawer:LaunchPartEntry(entry) // call kLaunchPartEntryFunc

Launches the specified part. The operation is the equivalent of the user tapping the part icon in the Extras Drawer.

entry	An entry obtained from a part cursor (by using GetPartCursor).
return value	Returns a non-nil value if the Extras Drawer would have closed
	itself after the icon was tapped. Returns nil if the Extras Drawer
	would have stayed open after the icon was tapped.

DISCUSSION

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. Note that this function is implemented in ROM on Newton 2.1 units, so you can call it directly if your application runs only on the Newton 2.1 OS. ◆

SetExtrasInfo

extrasDra	<i>wer</i> :SetE>	ktrasIr	nfo(paran	nFra	me,	newIn	fo)	//	call	kSetE;	xtrasInfo	Func
-	-						-						

Changes the extras drawer information for the specified Extras Drawer icon.

paramFrame	A frame identifying the icon whose Extras Drawer information you want to change. This frame can have the following slots:					
	appSymbol	Required. A symbol identifying the application that the icon represents.				
	store	Optional. A store object identifying the store on which the icon resides.				
	packageName	Optional. A string naming the package to which the icon belongs.				
	Alternately, you can specify just an appSymbol for the <i>paramFrame</i> parameter, or you can specify an entry obtained from a part cursor (by using GetPartCursor). Note that specifying just an appSymbol is allowed for compatibility reasons; it may not be supported in future versions of the system software.					
newInfo	A new inform The slots in th particular slot	nation frame for the icon represented by <i>paramFrame</i> . his frame are described below. If you don't specify a t (or specify nil), the value of that slot is not changed.				
return value	The informati isn't found, th	ion frame that was in effect before this call. If the icon his function returns nil.				

DISCUSSION

You can read and modify the following slots in the *newInfo* frame.

Slot descriptions

icon	A bitmap frame (of the kind returned by GetPictAsBits) containing the bitmap for the part icon displayed in the Extras Drawer.
iconPro	A frame with two slots, unhilited and hilited, that contain pix families for normal and highlighted versions of the icon. The highlighted version of the icon is shown when the icon is selected.
text	A string that is the text shown under the part icon.
labels	A symbol identifying the Extras Drawer folder in which to file the icon. Do not specify nil.
soupNames	An array of strings that are the names of soups to be associated with this icon. This slot applies to soup icons only.
ownerApp	The appSymbol of the application that owns the soups. This slot applies to soup icons only.

Note

This function exists in both the Newton 2.x platform files and the MessagePad platform file, however it is implemented differently on each platform. This description applies only to the Newton 2.x platform. Note that this function is implemented in ROM on Newton 2.1 units, so you can call it directly if your application runs only on the Newton 2.1 OS. ◆

AddExtralcon

extrasDrawer:AddExtraIcon(extraType, paramFrame, packageName, store) // call
kAddExtraIconFunc

Adds an icon to the Extras Drawer.

extraType	Specify a symbol identifying the type of icon to add. You can specify 'soupEntry to add a soup icon, or 'scriptEntry to add a script icon.
paramFrame	Specify a frame containing information to be used in creating the icon. See the descriptions of slots below.
packageName	Specify a string naming a package with which this icon should be associated. If this package is removed from the Newton device, the icon you added will also be removed. For an icon of type 'soupEntry, you should specify a package name different from your application. This prevents your soup icon from being removed if the application is on a card and the card is removed. Never pass nil for this argument.
store	Specify a store object on which the part entry should reside. A value of nil specifies the default store.
return value	Returns a frame that is the entry added to the Extras Drawer.

DISCUSSION

You can use this function to add an icon that represents several soups created by your application, for example. You can also add an icon that simply executes a function object when tapped.

This function does not check if your icon already exists before adding it. You must check to be sure it doesn't already exist.

The slots in the *paramFrame* frame vary depending on the value of *extraType*. The *paramFrame* frames for both types of icons share these slots:

Slot descriptions

text	Required. A string that is the text shown under the icon.					
app	Recommended. A unique symbol used by ${\tt SetExtrasInfo}$ to find the icon.					
labels	Optional. A symbol identifying the Extras Drawer folder in which to file the icon. Do not specify nil.					
In addition, the para	<i>mFrame</i> of soup icons should have these slots:					
ownerApp	Optional. The appSymbol of the application that owns the soups. This slot is used for the soupervisor mechanism.					
soupNames	Optional. An array of strings that are the names of soups to be associated with this icon.					
The <i>paramFrame</i> of s	cript icons should have these additional slots:					
icon	Recommended. A bitmap frame (of the kind returned by GetPictAsBits) containing the bitmap for the icon displayed in the Extras Drawer. The bitmap should be 32 by 32 pixels.					
iconPro	A frame with two slots, unhilited and hilited, that contain pix families for normal and highlighted versions of the icon. The highlighted version of the icon is shown when the icon is selected.					
tapAction	Optional. A function object that is called if the user taps the icon. This function is passed no parameters. This function is stored in a soup, so you should keep it as small as possible.					

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. Note that this function is implemented in ROM on Newton 2.1 units, so you can call it directly if your application runs only on the Newton 2.1 OS. ◆

Miscellaneous

This section describes other functions.

CardFileSafeRemoveLayout

CardFileSafeRemoveLayout(*layout*) // call kCardFileSafeRemoveLayoutFunc

Safely removes a cardfile layout from the Names application. (Cardfile layouts appear on the Show menu in the Names application.)

layout	A symbol identifying the cardfile layout you want to remove. This
-	is the same symbol you passed to the cardfile method AddLayout to
	add the layout.
return value	Undefined; do not rely on it.

DISCUSSION

You should use this function instead of the cardfile method RemoveLayout to remove a cardfile layout. Using this function avoids "Reinsert the card" warnings.

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. ◆

GetAllFonts

GetAllFonts() // call kGetAllFontsFunc

Returns an array of fonts installed in the system.

return value An array of font description frames.

DISCUSSION

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. Note that this function is implemented in ROM on Newton 2.1 units, so you can call it directly if your application runs only on the Newton 2.1 OS. ◆

GetCalendarMeetingTypes

GetCalendarMeetingTypes() // call kGetCalendarMeetingTypesFunc

Returns an array of symbols that identify all of the meeting types registered with the Dates application (calendar).

return value The array includes both built-in meeting types and any new types registered through the use of RegMeetingType.

DISCUSSION

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. ◆

GetCalendarMeetingTypeInfo

```
GetCalendarMeetingTypeInfo(typeSymbol) // call
kGetCalendarMeetingTypeInfoFunc
```

Returns a frame of information about a particular meeting type.

typeSymbol	A symbol identifying a meeting type registered with the Dates application. Specify one of the symbols returned by GetCalendarMeetingTypes.
return value	A frame of information about a particular meeting type; see below. If the specified type is not found, then nil is returned.

DISCUSSION

The returned frame contains the following slots.

Slot descriptions

A string that is the text displayed in the New menu for this meeting
type.
A bitmap frame (of the kind returned by GetPictAsBits) containing the bitmap that is displayed in the New menu for this meeting type.
A bitmap frame containing the bitmap that is displayed in the meeting slip for this meeting type.
A shape object containing the i con bitmap.
A symbol under which the most recently used meeting title strings are stored. (These are stored and accessed using the functions AddMemoryItem and GetMemoryItems.)

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. ◆

GetCommPortInfo

GetCommPortInfo() // call kGetCommPortInfoFunc

Returns an array of communication port description frames.

return value An array of communication port description frames.

DISCUSSION

Use this method to get a list of the available communication ports on a Newton device. GetCommPortInfo returns an array of frames with the following slots.

Slot descriptions

item	A string that is the name of the communications port; examples include: "Top PC Card," "Infrared," and "Serial."
hardwareLoc	A four-character string identifying the serial port location. This string is suitable for use in the serial communication tool's kCMOSerialHWChipLoc option.
hardwareInfo	A frame containing information about the device connected to this particular communications port. Currently, this slot is used only for PCMCIA communication cards. The slots in this frame are listed in Table 1-1. This frame may contain other slots, but you should not rely on their existence. The hardwareInfo slot is nil if a communications device is not connected to this particular port.

Table 1-1hardwareInfo frame slots

Slot name	Description
cisManufacturerName	A string. Manufacturer name from the TPLLV1_INFO field of the card's CISTPL_VERS_1 tuple.
cisProductName	A string. Product name from the TPLLV1_INFO field of the card's CISTPL_VERS_1 tuple.
cisProductInfo0	A string. Additional product info from the TPLLV1_INFO field of the card's CISTPL_VERS_1 tuple.
cisProductInfo1	A string. Additional product info from the TPLLV1_INFO field of the card's CISTPL_VERS_1 tuple.
cisManufacturerId	An integer. Manufacturer information from the TPLMID_MANF field of the card's CISTPL_MANFID tuple.
cisManufacturerIdInfo	An integer. Manufacturer information from the TPLMID_CARD field of the card's CISTPL_MANFID tuple.

Note that this function returns an array that is suitable for use in a picker list, however, you might not want to include all the items in the picker. To remove items from the list, search on the hardwareLoc slot for the items you want to remove. The hardwareLoc slot is the one slot that is guaranteed to remain constant over time.

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. ◆

GetCorrectInfo

GetCorrectInfo() // call kGetCorrectInfoFunc

Returns the system correction information frame, which contains correction information for recently-recognized words.

return value The system correction information frame.

DISCUSSION

For more information on the correction information frame, see the description of the correctInfo frame and protoCorrectInfo in the *Newton Programmer's Reference*, and see Chapter 10, "Recognition: Advanced Topics" in *Newton Programmers Guide*.

Note that the function GetCorrectInfo was incorrectly documented in *Newton Programmer's Reference*; it does not exist in the Newton 2.0 ROM. On Newton 2.0 systems, it is accessible only by using the kGetCorrectInfoFunc platform file function.

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. Note that this function is implemented in ROM on Newton 2.1 units, so you can call it directly if your application runs only on the Newton 2.1 OS. ◆

GetMaskedPixel

GetMaskedPixel(x, y, pixFamily) // call kGetMaskedPixelFunc

Retrieves the value of a specific pixel within a pix family, taking into account its mask.

x	The x coordinate of the point to be tested, in local (view) coordinates.
y	The y coordinate of the point to be tested, in local (view) coordinates.
pixFamily	The pix family to test.
return value	An integer; -1 if the (x,y) pixel location lies outside the bounds of the pix family or if the mask is off at this position, otherwise the integer value of the specified pixel is returned (see below).

DISCUSSION

This function is similar to the existing PtInPicture function.

The value returned for a pixel that is actually within the pix family's bounds (and at an on position in the mask) depends on the bit depth of the pix family image. For images with a bit depth of 1, 2, 4, and 8, the pixel will be an index in the range (0, 2^{bit depth} - 1). For example, if the image has a bit depth of 4, the value returned by the function would range from 0 to 15. If the image has a bit depth of 16 or 32, the pixels will have a direct format, and the function will return the direct RGB pixel value.

Note

This function exists only in the Newton 2.1 platform file and works only on Newton 2.1 units. ◆

GetPrinterName

GetPrinterName(printerFrame) // call kGetPrinterNameFunc

Retrieves the name of the printer, given a printer frame object.

printerFrame A printer frame object. The only valid method for obtaining a printer frame object is to retrieve it from the system

	userConfiguration data with the GetUserConfig function. Do not try
	to construct the slots of this frame yourself because different types
	of printer drivers require different slots.
return value	Returns a string representing the name of the printer associated with <i>printerFrame</i> .

DISCUSSION

Here is an example of some code that retrieves the name of the current printer:

```
printerFrame := GetUserConfig('currentPrinter);
thePrinterName := call kGetPrinterNameFunc with (printerFrame);
```

GetTransport

GetTransport(transportSymbol) // call kGetTransportFunc

Returns a transport object, given a transport symbol.

transportSymbol	A symbol identifying a transport. This is the value of the transport's
	appSymbol slot .

return value Returns the transport object (a frame).

DISCUSSION

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. ◆

MissingImports

MissingImports(*pkgRef*) // call kMissingImportsFunc

Returns an array of frames describing units used by a package that are not currently available.

pkgRef	A package reference identifying the package for which this function returns information. You can obtain a package reference by using the functions <code>ObjectPkgRef</code> or <code>GetPkgRef</code> .
return value	An array of frames describing units used by a package that are not currently available; see below. If no units are missing, nil is returned.

DISCUSSION

In the array that is returned, each frame has the following slots.

Slot descriptions

name	A symbol identifying the unit.
major	The unit major version number.
minor	The unit minor version number.

Refer to the Newton DTS sample code for details on how to use this function and the unit import and export mechanism.

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. Note that this function is implemented in ROM on Newton 2.1 units, so you can call it directly if your application runs only on the Newton 2.1 OS. ◆

RegGlobalKeyboard

RegGlobalKeyboard(*kbdSymbol*, *kbdTemplate*) // call kRegGlobalKeyboardFunc

Replaces the alphanumeric keyboard in the system with a custom keyboard.

kbdSymbol	A unique symbol identifying the keyboard view. You should append your developer signature to ensure that this symbol is unique.
kbdTemplate	A view template that is the new keyboard you are registering. This template must include a slot named preAllocatedContext whose value is set to the symbol 'alphaKeyboard. This template must also include a slot named userName whose value is a string naming the keyboard. This is the keyboard name that the user sees in keyboard pickers.
return value	The keyboard view, if it was successfully instantiated and installed in the system; otherwise, this function returns nil.

DISCUSSION

The keyboard view will be created as a child of the root view. Anytime the alphanumeric keyboard would have been opened, the custom keyboard will be opened instead.

In your custom keyboard, you might want to include a button that opens the Personal Word List. That's the user's dictionary of personal words. The standard alphanumeric keyboard includes a button that opens the Personal Word List. To do this, include your own button in your keyboard template (don't use the bitmap from the ROM), and if the user taps it, execute code like this:

```
If GetRoot().reviewdict then
    begin
    GetRoot().reviewdict:Open();
    base:Close();
    end;
```

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. \blacklozenge

UnRegGlobalKeyboard

UnRegGlobalKeyboard(*kbdSymbol*) // call kUnRegGlobalKeyboardFunc

Unregisters a custom keyboard that you registered with RegGlobalKeyboard.

<i>kbdSymbol</i> A symbol identifying the keyboard to unregister	kbdSymbol	A symbol identifying the keyboard to unregister
--	-----------	---

return value Undefined; do not rely on it.

DISCUSSION

This function restores the original keyboard that you replaced in the system. It closes the custom keyboard, if it is open when this function is called, but this function does not open the original keyboard that was replaced.

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. ◆

RegNamesRouteScript

```
RegNamesRouteScript(symbol, routeScriptFrame) // call
kRegNamesRouteScriptFunc
```

Adds an application-defined action to the Action picker in the Names application.

symbol	A unique symbol identifying the action you are adding. You should append your developer signature to ensure that this symbol is unique.
routeScriptFrame	A frame describing the routing action, as described in the chapter "Routing Interface" in <i>Newton Programmer's Guide</i> . A summary of this frame is described below.
return value	Undefined; do not rely on it.

DISCUSSION

Here's a summary of the *routeScriptFrame* parameter:

{	
title: <i>string</i> ,	<pre>// string name of picker item</pre>
icon: bitmap object,	// icon for picker item
RouteScript: <i>symbol</i> ,	<pre>// func called if this action chosen</pre>
appSymbol: <i>symbol</i> ,	<pre>// symbol for context of RouteScript</pre>
GetTitle: <i>function</i>	<pre>// supplied instead of title slot</pre>
	<pre>// other slots used by your app</pre>
}	

Here's an example of using the RegNamesRouteScript function:

```
RouteScript: func(target, targetView) begin
    local curs:=GetTargetCursor(target, nil);
    local e := curs:Entry();
    while e do begin
        print(e);
        e:=curs:Next();
    end;
end
});
```

Note

```
This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. ◆
```

UnRegNamesRouteScript

UnRegNamesRouteScript(symbol) // call kUnRegNamesRouteScriptFunc

Removes an application-defined action from the Action picker in the Names application.

1 1	A 1 1 · 1 · · · · · · · · · · · · · · ·	•
sumbol	A symbol identitying the action you are	removing
Symoor	riby moor recruity mg the action you are	i chilo v hig.

return value Undefined; do not rely on it.

DISCUSSION

This function only removes actions added by RegNameRouteScript.

Here's an example of using the UnRegNamesRouteScript function:

call kUnRegNamesRouteScriptFunc with ('|EntryDumper:PIEDTS|);

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. ◆

ShowBusyBox

ShowBusyBox(*showIt*) // call kShowBusyBoxFunc

Shows or hides the system busy icon.

showIt	A Boolean that specifies whether to show or hide the system busy
	icon. Specify true to show the busy icon until control returns to the
	system. Specify nil to hide the busy icon for the rest of the current
	iteration of the system event loop.

return value Undefined; do not rely on it.

DISCUSSION

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. Note that this function is implemented in ROM on Newton 2.1 units, so you can call it directly if your application runs only on the Newton 2.1 OS. ◆

StringToKeyCodes

Translates a string to its corresponding key codes.

string	The string to translate into key	codes.
()		

return value An array of numeric key codes corresponding to the characters in *string*.

DISCUSSION

StringToKeyCodes returns an array of key codes suitable for passing to the function HandleKeyEvents.

Note

This function exists only in the Newton 2.1 platform file and works only on Newton 2.1 units. ◆

SupplantSoupDef

SupplantSoupDef(soup, soupDef) // call kSupplantSoupDefFunc

Installs the specified soup definition in the specified single soup.

soup	The soup on which this method operates. This value must be a soup, not a union soup.
soupDef	The soup definition frame this method installs.
return value	Undefined; do not rely on it.

DISCUSSION

IMPORTANT

Changing a soup definition frame is not recommended. Use this function only if you know that what you are attempting to do will not cause errors or undesirable side effects. ◆

The SupplantSoupDef function works on single soups only, not on union soups. You can use the union soup method GetSoupList to retrieve a list of the member soups that are currently available to a specified union.

You can use the SupplantSoupDef function to

- Change the user-visible information for a specified soup. For example, you could use this function to change the string that the Extras drawer displays as the soup's name.
- Add a soup definition frame to a soup that lacks one. For example, soups created by system software prior to version 2.0 do not have soup definition frames.
- Replace the soup definition frame in a soup that already has one. Note that this may cause inconsistencies with other soups in the union that can lead to unstable behavior.

Note

This function does not change the soup definition currently registered with the system—it changes only the local copy of the definition that is held by a soup created from it. To change a soup definition registered with the system, you must replace it completely. To do so, first call the UnRegUnionSoup function to unregister the current soup definition, and then call the RegUnionSoup function to register the new soup definition.

Because most of the information in a soup definition frame is used only when the system creates a new soup, the appropriate usage of the SupplantSoupDef function is very limited. For example, although you can use this method to change the indexes that a soup definition specifies for new soups, the actual indexes in existing soups are not updated by this method. Soups created subsequently from this definition may not have the same complement of indexes as other soups in their union, which may cause operations on the union soup to fail. Exercise extreme caution when using this method for any purpose.

The following code fragment provides an example of the proper use of this function.

```
// unregister old definition
UnRegUnionSoup("mySoup:mySig",'|MyApp:MySig|);
// register new version of soup definition
// assume myNewSoupDef is valid
local uSoup := RegUnionSoup('|MyApp:MySig|, myNewSoupDef);
// update existing soups
foreach member in uSoup:GetSoupList() do
    begin
        call kSupplantSoupDefFunc with (member, newDef);
    // perform other housekeeping like adding or removing indexes
    end;
```

Note

This function exists only in the Newton 2.x platform files and works only on Newton 2.x units. ◆

Summary of Functions

This section contains a summary of all the functions provided by the platform files, including those functions documented previously in *Newton Programmer's Reference* and in the latest *Newton Programmer's Guide*: 2.1 OS Addendum.

Views

```
ClearSelectionHilites(theView)
ViewIsOpen(view)
```

Extras Drawer

```
GetPartCursor(packageName, store, folderSym) // in 2.1 ROM
LaunchPartEntry(entry) // in 2.1 ROM
SetExtrasInfo(paramFrame, newInfo) // in 2.1 ROM
AddExtraIcon(extraType, paramFrame, packageName, store) // in 2.1 ROM
```

Miscellaneous

```
CardFileSafeRemoveLayout(layout)
GetAllFonts() // in 2.1 ROM
```

Summary of Functions

```
GetCalendarMeetingTypes()
GetCalendarMeetingTypeInfo(typeSymbol)
GetCommPortInfo()
GetCorrectInfo() // in 2.1 ROM
GetMaskedPixel(x, y, pixFamily)
GetPrinterName(printerFrame)
GetTransport(transportSymbol)
MissingImports(pkgRef)
RegGlobalKeyboard(kbdSymbol, kbdTemplate)
UnRegGlobalKeyboard(kbdSymbol, routeScriptFrame)
UnRegNamesRouteScript(symbol)
ShowBusyBox(showIt) // in 2.1 ROM
StringToKeyCodes(string)
SupplantSoupDef(soup, soupDef)
```

Functions Documented in Newton Programmer's Reference

AddLocale(*theLocaleBundle*) // in 2.1 ROM FindLocale(*titleString*) // in 2.1 ROM GetLanguageEnvironment() QuietSendAll(*transportSym*) RegEmailSystem(*classSymbol*, *name*, *internet*) RegPagerType(*classSymbol*, *name*) RegPhoneType(*classSymbol*, *name*, *char*) RemoveLocale(*locSymbol*) // in 2.1 ROM UnregEmailSystem(*classSymbol*) UnregPagerType(*classSymbol*) UnregPhoneType(*classSymbol*)

Functions Documented in Newton Programmer's Guide: 2.1 OS Addendum
DragAndDropLtd(unit, dragBounds, limitBounds, copy, dragInfo)
GetAllDialinNetworks()
GetDialinNetwork(networkSym)
GetLocAccessNums(entry, which)
GetPartEntryData(entry) // in 2.1 ROM
RegDialinNetwork(networkSym, networkFrame)
UnregDialinNetwork(networkSym)

Obsolete Functions

The following functions are supplied in the MessagePad platform file, but are obsolete in the Newton 2.x platform files. They are still supported in Newton 2.x under different names ("Deprecated" is appended), but it is recommended that you do not use them. In most cases, these platform file functions have been replaced by ROM functions in Newton 2.x, or in some cases, they no longer apply to Newton 2.x.

MessagePad name AddAlarm	Newton 2.x name (obsolete) AddAlarmDeprecated
CloseRemoteControl	CloseRemoteControlDeprecated
FlushUserConfig	FlushUserConfigDeprecated
GetAlarm	GetAlarmDeprecated
GetAppAlarmKeys	GetAppAlarmKeysDeprecated
GetDefaultStore	GetDefaultStoreDeprecated
GetUserConfig	GetUserConfigDeprecated

MessagePad name

OpenRemoteControl PtInBitMap RegFindApps RegFormulas RegisterCardSoup RegPrefs RemoveAlarm RemoveAppAlarms Send SendRemoteControlCode SetDefaultStore SetExtrasInfo SetUserConfig SimpleTextHeight UnionSoupIsNull UnRegFindApps UnRegFormulas UnRegisterCardSoup UnRegPrefs

Newton 2.x name (obsolete)

OpenRemoteControlDeprecated PtInBitMapDeprecated RegFindAppsDeprecated RegFormulasDeprecated RegisterCardSoupDeprecated RegPrefsDeprecated RemoveAlarmDeprecated RemoveAppAlarmsDeprecated SendDeprecated SendRemoteControlCodeDeprecated SetDefaultStoreDeprecated SetExtrasInfoDeprecated SetUserConfigDeprecated SimpleTextHeightDeprecated UnionSoupIsNullDeprecated UnRegFindAppsDeprecated UnRegFormulasDeprecated UnRegisterCardSoupDeprecated UnRegPrefsDeprecated

CHAPTER