



Brew Level 2 Certification Report
Kyocera E4520

Date: September 26, 2014



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Section 1 Brew Level 2 Certification Summary

The following report is intended to communicate how well the Kyocera E4520 measured up to the Brew Level 2 requirements when run against the Brew Level 2 certification tests. The data contained herein is not intended to demonstrate any capability of the hardware itself.

Throughout the document there are many abbreviated and technical terms. If any of these terms are unfamiliar, please refer to the Brew MP Glossary on the [Brew MP Glossary Web Page](#).

1.1 Device Summary

| Kyocera E4520 | |
|------------------|------------------|
| Software Build | 0.461VZ |
| Reference Device | QSC6185 |
| Brew MP AU | 1.0.4.608 |
| BVK Version | 2.0.13.1.3202521 |
| Validation Stage | Commercial |
| Network | Verizon |

Section 2 Brew Level 2 Certification Results

2.1 High Level Summary

Certification Status: This device is not Brew Level 2 Certified due to the following deficiencies

Failed Brew Level 2 Features:

| Feature | Module | Class |
|------------------------------------------------------------------------|-------------------|------------------------------|
| Provides standard socket networking services, both stream and datagram | SockPortTest_IPv4 | AEECLSID_SockPort(0x1012d97) |

Unsupported Brew Level 2 Features:

| Feature | Module | Class |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------|
| Provides services for position determination using GPS information or sector information | Posdetttest | AEECLSID_POSDET(0x100105b) |
| Provides a generic interface for BREW applications to control a device camera and to record snapshots and movies in various formats | CameraTest | AEECLSID_CAMERA(0x1002013) |
| Provides API to control, configure and monitor a Brew MP applet's data network | NetworkTest_IPv4 | AEECLSID_Network(0x1039270) |
| Functions provide mechanisms to get and set the parameters associated with the network subsystem of the device | NetMgrTest | AEECLSID_NET(0x100102e) |
| Provides standard socket networking services, both stream and datagram | SockPortTest_IPv4 | AEECLSID_SockPort(0x1012d97) |

Unverified Brew Level 2 Features:

None

Feature Summary

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------|------|------|-------------|------------|-------|--------------|-------------------------------------------------|
| Notifier class with which applications can register for battery notifications | BatteryNotifier_ModelEvtAITest | AEECLSID_BATTERY | 1 | | | | | | |
| Retrieves battery related information | BatteryTest | AEECLSID_BATTERY | 7 | | | | | | |
| Allows an application to query the meaning of a key combination on extended keypads | keysmappingtest | AEECLSID_KeysMapping | | | | 1 | | | Test not applicable for 10-key flip form factor |
| Provides services for position determination using GPS information or sector information | Posdetttest | AEECLSID_POSDET | 23 | | 1 | | | | Azimuth information unsupported on device |
| Allows Access to the Camera | CameraDirectAccess_AITest | AEECLSID_CAMERA | 1 | | | | | | |
| Controls Rotate function of the Camera | CameraRotate_AITest | AEECLSID_CAMERA | 1 | | | | | | |
| Record Snapshot | CameraSnapshot_AITest | AEECLSID_CAMERA | 1 | | | | | | |
| Provides a generic interface for BREW applications to control a device camera and to record snapshots and movies in various formats | CameraTest | AEECLSID_CAMERA | 18 | | 2 | | | | See details below |
| Operates preview mode for the camera | camerapreviewtype_aitest | AEECLSID_CAMERA | 1 | | | | | | |
| Provides multimedia utility services for AMR MIME type | MediaAMR_PlaybackTest | AEECLSID_MediaAMR | 18 | | | | | | |
| MPEG4 MIME Type Playback | MediaMPEG4Playback_AITest | AEECLSID_MEDIAMPEG4 | 1 | | | | | | |
| PCM Mime Type Playback | MediaPCM_PlaybackTest | AEECLSID_MEDIAPCM | 36 | | | | | | |
| AMR Mime Type Playback | Media_Play_AMRAITest | AEECLSID_MediaAMR | 1 | | | | | | |
| PCM MIME type playback | media_play_pcmaitest | AEECLSID_MEDIAPCM | 1 | | | | | | |
| PMD Type Playback | media_play_pmdaitest | AEECLSID_MEDIAPMD | 1 | | | | | | |
| Fast forwards a PMD movie type | mediapmd_fastforward_aitest | AEECLSID_MEDIAPMD | 1 | | | | | | |
| Pauses a PMD movie type | mediapmd_pause_aitest | AEECLSID_MEDIAPMD | 1 | | | | | | |
| Playback of PMD files | mediapmd_playbacktest | AEECLSID_MEDIAPMD | 36 | | | | | | |
| Rewinds a PMD movie type | mediapmd_rewind_aitest | AEECLSID_MEDIAPMD | 1 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|------|------|-------------|------------|-------|--------------|-------------------|
| Controls the mute function of a PMD media file | mediapmd_setmutectl_aitest | AEECLSID_MEDIAPMD | 1 | | | | | | |
| Controls the volume of the PMD media file | mediapmd_setvolume_aitest | AEECLSID_MEDIAPMD | 1 | | | | | | |
| Fast forwards an MPEG4 movie type | mediavideo_ff_mpeg4aitest | AEECLSID_MEDIAMPEG4 | 1 | | | | | | |
| Rewinds an MPEG4 movie type | mediavideo_rewind_mpeg4aitest | AEECLSID_MEDIAMPEG4 | 1 | | | | | | |
| Controls screen rotation for an MPEG4 movie type | mediavideo_rotation_mpeg4aitest | AEECLSID_MEDIAMPEG4 | 1 | | | | | | |
| Controls the scaling of an MPEG4 movie type | mediavideo_scaling_mpeg4aitest | AEECLSID_MEDIAMPEG4 | 1 | | | | | | |
| Provides multimedia utility services for MPEG4 MIME type | mediavideotestsmp4_playback | AEECLSID_MEDIAMPEG4 | 35 | | | | | | |
| Allows use of the default sound path to capture and play vocoder frames | VocoderRecordPlayPCM_AITest | AEECLSID_VOCODER | 1 | | | | | | |
| Allows use of the default sound path to capture and play vocoder frames | VocoderTest | AEECLSID_VOCODER | 23 | | | | | | |
| Plays tones through the vocoder | Vocoder_PlayToneAITest | AEECLSID_VOCODER | 1 | | | | | | |
| Provides API to control, configure and monitor a Brew MP applet's data network | NetworkTest_IPv4 | AEECLSID_Network | 31 | | 8 | | | | See details below |
| Functions provide mechanisms to get and set the parameters associated with the network subsystem of the device | NetMgrTest | AEECLSID_NET | 24 | | 1 | | | | See details below |
| Provides standard socket networking services, both stream and datagram | SockPortTest_IPv4 | AEECLSID_SockPort | 72 | 1 | 3 | | | | See details below |
| Provides host name resolving functionality, allowing the retrieving of IP addresses associated with a specified host name | CreateInstanceTest | AEECLSID_AddrInfo | 138 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|------|------|-------------|------------|-------|--------------|---------|
| Provides access to the address info results cache | CreateInstanceTest | AEECLSID_AddrInfoCache | 138 | | | | | | |
| Provides network related services that are not associated with a specific network instance | NetUtilsTest | AEECLSID_CNetUtils | 7 | | | | | | |
| Interfaces and methods to perform DNS queries and override default settings | CreateInstanceTest | AEECLSID_CDNS | 138 | | | | | | |
| Implements SSL Support for network connections | CreateInstanceTest | AEECLSID_SSL | 138 | | | | | | |
| Implementation of IWebOpts which contains a list of SSL Root Certificates | CreateInstanceTest | AEECLSID_SSLSRootCerts | 138 | | | | | | |
| Provides the resources for the response side of a Web transaction | CreateInstanceTest | AEECLSID_WEBRESP | 138 | | | | | | |
| Controls applets, which includes getting the list of running applets, getting specific information on an applet, starting an applet, and stopping an applet | CreateInstanceTest | AEECLSID_APPLETCTL | 138 | | | | | | |
| Shell operation used to launch device web browser | ShellBrowseUrlAITest_Sms | AEECLSID_SHELL | 1 | | | | | | |
| Provides access to files, directories and filesystem from the MCF directory | mcfdirectoriestest | AEECLSID_FILESYSTEM2 | 1 | | | | | | |
| Provides access to files, directories and filesystem from the MCF Lock directory | mcflockdirectoriestest | AEECLSID_FILESYSTEM2 | 1 | | | | | | |
| Provides a size-limited, item-limited, least-recently-used RamCache with time-to-live | CreateInstanceTest | AEECLSID_RAMCACHE | 138 | | | | | | |
| Implements the MD2 cryptographic hash algorithm with HMAC keying | CreateInstanceTest | AEECLSID_HMACMD2Ctx | 138 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------|------|------|-------------|------------|-------|--------------|---------|
| Implements the MD5 cryptographic hash algorithm with HMAC keying | CreateInstanceTest | AEECLSID_HMACMD5Ctx | 138 | | | | | | |
| Implements the SHA1 cryptographic hash algorithm with HMAC keying | CreateInstanceTest | AEECLSID_HMACSHA1Ctx | 138 | | | | | | |
| Implements the SHA256 cryptographic hash algorithm with HMAC keying | CreateInstanceTest | AEECLSID_HMACSHA256Ctx | 138 | | | | | | |
| Implements the SHA384 cryptographic hash algorithm with HMAC keying | CreateInstanceTest | AEECLSID_HMACSHA384Ctx | 138 | | | | | | |
| Implements the SHA512 cryptographic hash algorithm with HMAC keying | CreateInstanceTest | AEECLSID_HMACSHA512Ctx | 138 | | | | | | |
| Implements the MD2 cryptographic hash algorithm | CreateInstanceTest | AEECLSID_MD2Ctx | 138 | | | | | | |
| Implements the MD5 cryptographic hash algorithm | CreateInstanceTest | AEECLSID_MD5Ctx | 138 | | | | | | |
| Implements the SHA1 cryptographic hash algorithm | CreateInstanceTest | AEECLSID_SHA1Ctx | 138 | | | | | | |
| Implements the SHA256 cryptographic hash algorithm | CreateInstanceTest | AEECLSID_SHA256Ctx | 138 | | | | | | |
| Implements the SHA384 cryptographic hash algorithm | CreateInstanceTest | AEECLSID_SHA384Ctx | 138 | | | | | | |
| Implements the SHA512 cryptographic hash algorithm | CreateInstanceTest | AEECLSID_SHA512Ctx | 138 | | | | | | |
| Provides the basic set of services a component typically requires to be instantiated and initialized: memory allocation and creation of other objects | CreateInstanceTest | AEECLSID_Env | 138 | | | | | | |
| Provides lightweight form of InterProcess Communication | CreateInstanceTest | AEECLSID_FIFO | 138 | | | | | | |
| Read and write to a data stream | CreateInstanceTest | AEECLSID_SOURCE | 138 | | | | | | |
| Allows creation of signal objects that are associated | CreateInstanceTest | AEECLSID_SignalCBFactory | 138 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------|------|------|-------------|------------|-------|--------------|------------------------------------------------|
| with a C function pointer and a 32-bit parameter | | | | | | | | | |
| Receives notification when hardware states have changed | NotifierAITest_Flip | AEECLSID_DeviceNotifier | 1 | | | | | | |
| Receives notification when hardware states have changed | NotifierAITest_Headset | AEECLSID_DeviceNotifier | 1 | | | | | | |
| Receives notification when hardware states have changed | NotifierAITest_KeyGuard | AEECLSID_DeviceNotifier | | | 1 | | | | KeyGuard feature is unsupported |
| Receives notification when hardware states have changed | NotifierAITest_MMC | AEECLSID_DeviceNotifier | | | 1 | | | | Unable to verify due to MMC Card Slot location |
| Receives notification when hardware states have changed | NotifierAITest_rotate | AEECLSID_DeviceNotifier | | | 1 | | | | Screen rotation is unsupported |
| Provides access APIs for getting and setting system clocks, querying time validity, and registering to be notified of changes in time | sysclockapplettest | AEECLSID_CSysClock | 10 | | | | | | |
| SettingsIniFactory is an implementation of ISettingsStoreFactory that provides an ISettings implementation (SettingsIniStore) that allows access to ini file-based settings stores | CreateInstanceTest | AEECLSID_SettingsIniFactory | 138 | | | | | | |
| Provides components with a URI-based settings store | CreateInstanceTest | AEECLSID_SettingsReg | 138 | | | | | | |
| Sets, Retrieves, and notifies upon changes the value of the ItemStore Manner Mode Item | MannerModeCallback_AItest | AEECLSID_MannerMode | 1 | | | | | | |
| Sets, Retrieves, and notifies upon changes the value of | MannerModeTest | AEECLSID_MannerMode | 15 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------|------|------|-------------|------------|-------|--------------|---------|
| the ItemStore Manner Mode Item | | | | | | | | | |
| Sets, Retrieves, and notifies upon changes the value of the ItemStore Manner Mode Item | MannerModeVerifyMode_AITest | AEECLSID_MannerMode | 1 | | | | | | |
| Interface that can be used to retrieve resources from BREW resource files | CreateInstanceTest | AEECLSID_ResFile | 138 | | | | | | |
| Provides services to get information about the current serving networks | tapiservingnetworkstest | tapi_AEECLSID_ServingNetworks | 6 | | | | | | |
| Allows the caller to create and display an analog clock on the display | CreateInstanceTest | AEECLSID_ACLOCKCTL | 138 | | | | | | |
| Displays the number of hours and minutes as well as AM PM indicator | CreateInstanceTest | AEECLSID_CLOCKCTL | 138 | | | | | | |
| Displays hours, minutes, and seconds for a countdown timer | CreateInstanceTest | AEECLSID_COUNTDOWNCTL | 138 | | | | | | |
| Standard date control allows user to choose specific month, day, and year | CreateInstanceTest | AEECLSID_DATECTL | 138 | | | | | | |
| Date pick control displays a monthly calendar | CreateInstanceTest | AEECLSID_DATEPICKCTL | 138 | | | | | | |
| Interface consists of two functions that operate on dialogs created using the functions in the IShell interface | CreateInstanceTest | AEECLSID_DIALOG | 138 | | | | | | |
| Icon view menu control uses a bitmao icon to represent each menu item | CreateInstanceTest | AEECLSID_ICONVIEWCTL | 138 | | | | | | |
| Implements the icon menu control | CreateInstanceTest | AEECLSID_ICONVIEWCTL_10 | 138 | | | | | | |
| Displays a scrollable view into an image | CreateInstanceTest | AEECLSID_IMAGECTL | 138 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------|------|------|-------------|------------|-------|--------------|---------|
| List control displays only the currently selected menu item on the screen | CreateInstanceTest | AEECLSID_LISTCTL | 138 | | | | | | |
| Implements the list control | CreateInstanceTest | AEECLSID_LISTCTL_10 | 138 | | | | | | |
| Standard menu control displays one menu item per row on the screen | CreateInstanceTest | AEECLSID_MENUCTL | 138 | | | | | | |
| Standard menu control displays one menu item per row on the screen | CreateInstanceTest | AEECLSID_MENUCTL_10 | 138 | | | | | | |
| Soft Key menu control displays the menu items along the bottom portion of the screen | CreateInstanceTest | AEECLSID_SOFTKEYCTL | 138 | | | | | | |
| Soft Key menu control displays the menu items along the bottom portion of the screen | CreateInstanceTest | AEECLSID_SOFTKEYCTL_10 | 138 | | | | | | |
| Allows you to create a static text control that consists of a read-only text message and a title that appears at the top of the control's rectangle | CreateInstanceTest | AEECLSID_STATIC | 138 | | | | | | |
| Allows you to create a static text control that consists of a read-only text message and a title that appears at the top of the control's rectangle | CreateInstanceTest | AEECLSID_STATIC_10 | 138 | | | | | | |
| Stopwatch control displays the number of hours, minutes, seconds, and hundredths of seconds | CreateInstanceTest | AEECLSID_STOPWATCHCTL | 138 | | | | | | |
| Controls advanced text layouts | CreateInstanceTest | AEECLSID_BTFFETextLayout | 138 | | | | | | |
| True Type font renderer with support for bidirectional text, kerning, and ligatures | CreateInstanceTest | AEECLSID_BTFFETypeface | 138 | | | | | | |
| Provides language dependent string formatting | CreateInstanceTest | AEECLSID_CurrentLocale | 138 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|------|------|-------------|------------|-------|--------------|---------|
| Provides default string formatting in the case where an OEM locale is not defined | CreateInstanceTest | AEECLSID_DefaultLocale | 138 | | | | | | |
| Allows the application to control an HTML viewer object | CreateInstanceTest | AEECLSID_HTML | 138 | | | | | | |
| Derived from the IListModel interface and is used to model a collection of objects, each of which is considered to be an item in a menu | CreateInstanceTest | AEECLSID_MenuModel | 138 | | | | | | |
| Used to model a collection of objects, all of an equal fixed size | CreateInstanceTest | AEECLSID_ArrayModel | 138 | | | | | | |
| The bitmap widget is used to display a bitmap image on the display | CreateInstanceTest | AEECLSID_BitmapWidget | 138 | | | | | | |
| The blend widget is derived from the decorator object and is used as a visual filter through which a child widget will be blended into the display | CreateInstanceTest | AEECLSID_BlendWidget | 138 | | | | | | |
| The border widget is derived from the decorator object and is used to draw borders and backgrounds for widgets | CreateInstanceTest | AEECLSID_BorderWidget | 138 | | | | | | |
| ButtonTC is an implementation of IController that can be used by Button Widget to handle BREW pointer events | CreateInstanceTest | AEECLSID_ButtonTC | 138 | | | | | | |
| The button widget is derived from the Border Widget class (AEECLSID_CBorderWidget) and supports all properties and functions supported by Border Widget Class | CreateInstanceTest | AEECLSID_ButtonWidget | 138 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------|------|------|-------------|------------|-------|--------------|---------|
| Provides applications with a static message dialog to provide a warning message to the user | CreateInstanceTest | AEECLSID_CErrorDialog | 138 | | | | | | |
| User interface element that allows applications to easily build screens that share a common look and feel and abide by a standard appearance theme | CreateInstanceTest | AEECLSID_CForm | 138 | | | | | | |
| Provides applications with a static message dialog to provide information to the user | CreateInstanceTest | AEECLSID_CInfoDialog | 138 | | | | | | |
| Provides applications with a standard and consistent mechanism for displaying forms that contain lists of items | CreateInstanceTest | AEECLSID_CListForm | 138 | | | | | | |
| Provides a list form with the scroll bar enabled | CreateInstanceTest | AEECLSID_CListFormScroll | 138 | | | | | | |
| Provide applications interfaces to control popup forms | CreateInstanceTest | AEECLSID_CPopupForm | 138 | | | | | | |
| Provide applications with popup menus that are standard in appearance and consistent in their behavior | CreateInstanceTest | AEECLSID_CPopupMenuForm | 138 | | | | | | |
| Allows scrolling of popup menus | CreateInstanceTest | AEECLSID_CPopupMenuFormScroll | 138 | | | | | | |
| Provides the base structure upon which an application's forms will be built | CreateInstanceTest | AEECLSID_CRootForm | 138 | | | | | | |
| A warning dialog should be used to warn the user of non-fatal incidents | CreateInstanceTest | AEECLSID_CWarnDialog | 138 | | | | | | |
| Provides image frames from a camera | CreateInstanceTest | AEECLSID_CameraFrameModel | 138 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|------|------|-------------|------------|-------|--------------|---------|
| Manage collections of widgets | CreateInstanceTest | AEECLSID_CardContainer | 138 | | | | | | |
| Default touch controller for the Check Widget and Radio Widget | CreateInstanceTest | AEECLSID_CheckTC | 138 | | | | | | |
| Creates check boxes and check buttons | CreateInstanceTest | AEECLSID_CheckWidget | 138 | | | | | | |
| Manages the widgets within a container where those widgets are laid out relative to either the container itself, or to each of the other objects held in the container | CreateInstanceTest | AEECLSID_ConstraintContainer | 138 | | | | | | |
| Event handler for pointer events provided to widgets by BREW MP | CreateInstanceTest | AEECLSID_ContainerTC | 138 | | | | | | |
| The cursor widget is derived from the decorator object and is used to show or hide an element on screen (the cursor) | CreateInstanceTest | AEECLSID_CursorWidget | 138 | | | | | | |
| Pointer event handler for Date and Time Widgets | CreateInstanceTest | AEECLSID_DateTimeTC | 138 | | | | | | |
| Default text controller when not defined by OEM | CreateInstanceTest | AEECLSID_DefaultTextController | 138 | | | | | | |
| Create display widgets usable by WindowMgr | CreateInstanceTest | AEECLSID_DisplayWidget | 138 | | | | | | |
| Perform customized drawing operations to the objects wrapped by a decorator | CreateInstanceTest | AEECLSID_DrawDecoratorWidget | 138 | | | | | | |
| Provides functionality for fading a widget on and off the screen by setting different values of the widget property PROP_TRANSPARENCY over a period of time | CreateInstanceTest | AEECLSID_FADER | 138 | | | | | | |
| Allows the user to associate a string with an instance of IFont | CreateInstanceTest | AEECLSID_FontMapModel | 138 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|-------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------|------|------|-------------|------------|-------|--------------|---------|
| User interface element for displaying frames from a media source such as video or camera | CreateInstanceTest | AEECLSID_FrameWidget | 138 | | | | | | |
| Implementation of IController that can be used by any widget to handle pointer events | CreateInstanceTest | AEECLSID_GenericTC | 138 | | | | | | |
| Implementation of the AEEIID_IGridContainer interface | CreateInstanceTest | AEECLSID_GridContainer | 138 | | | | | | |
| Implementation of IController that can be used by GridContainer to handle pointer events provided to the widget by BREW | CreateInstanceTest | AEECLSID_GridContainerTC | 138 | | | | | | |
| The grid list container widget lays out its items horizontally, but wraps once it is out of horizontal space | CreateInstanceTest | AEECLSID_GridListContainer | 138 | | | | | | |
| Creates grid widget | CreateInstanceTest | AEECLSID_GridWidget | 138 | | | | | | |
| User interface element that provides HTML display facilities to the widget framework | CreateInstanceTest | AEECLSID_HTMLWidget | 138 | | | | | | |
| Displays a single interface element that consists of both an image and a text label | CreateInstanceTest | AEECLSID_ImageStaticWidget | 138 | | | | | | |
| Creates an object in the widget framework that contains an IImage bitmap or animated bitmap graphic image | CreateInstanceTest | AEECLSID_ImageWidget | 138 | | | | | | |
| Used as a shim for objects that wish to model data stored in an interface that lacks a formal query interface | CreateInstanceTest | AEECLSID_InterfaceModel | 138 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|-----------------------------------------------------------------------------------------------|--------------------|------------------------------------|------|------|-------------|------------|-------|--------------|---------|
| Interface element that provides formatted date entry for the widget framework | CreateInstanceTest | AEECLSID_JulianDateWidget | 138 | | | | | | |
| Interface element that provides formatted time entry for the widget framework | CreateInstanceTest | AEECLSID_JulianTimeWidget | 138 | | | | | | |
| Interface object that displays multiple items that the user can view or select | CreateInstanceTest | AEECLSID_ListContainer | 138 | | | | | | |
| Provides implementation of IListContainerModelFactory | CreateInstanceTest | AEECLSID_ListContainerModelFactory | 138 | | | | | | |
| Implementation of IController that can be used by a List Widget to handle BREW pointer events | CreateInstanceTest | AEECLSID_ListTC | 138 | | | | | | |
| Interface object that displays multiple items that the user can view or select. | CreateInstanceTest | AEECLSID_ListWidget | 138 | | | | | | |
| This class has been deprecated and should not be used. Use AEECLSID_Transition2Mover instead. | CreateInstanceTest | AEECLSID_MOVER | 138 | | | | | | |
| Derived from IFrameModel and provides image frames from a video | CreateInstanceTest | AEECLSID_MediaFrameModel | 138 | | | | | | |
| Provides a way of listening to Model Events that many widgets post through their view model | CreateInstanceTest | AEECLSID_Model | 138 | | | | | | |
| Lays out its items horizontally, in much the same manner as a toolbar | CreateInstanceTest | AEECLSID_PickListContainer | 138 | | | | | | |
| Interface object that displays multiple items that the user can view or select | CreateInstanceTest | AEECLSID_PickWidget | 138 | | | | | | |
| Displays a simple progress indicator on the display that typically illustrate the | CreateInstanceTest | AEECLSID_ProgressWidget | 138 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|------|------|-------------|------------|-------|--------------|---------|
| percentage complete of a finite operation | | | | | | | | | |
| Manages the widgets within a container where those widgets are laid out (in proportion to one another) along the same vertical or horizontal direction | CreateInstanceTest | AEECLSID_PropContainer | 138 | | | | | | |
| Default Touch controller for the check widget touch controller | CreateInstanceTest | AEECLSID_RadioTC | 138 | | | | | | |
| Radio button implementation | CreateInstanceTest | AEECLSID_RadioWidget | 138 | | | | | | |
| XY container object and is the highest level container object defined for a single display | CreateInstanceTest | AEECLSID_RootContainer | 138 | | | | | | |
| Detects single and double tap occurrences and updates the pointer event string | CreateInstanceTest | AEECLSID_RootTC | 138 | | | | | | |
| Rotate a child widget before it is drawn into the display. | CreateInstanceTest | AEECLSID_RotateWidget | 138 | | | | | | |
| Scale a child widget before it is drawn into the display | CreateInstanceTest | AEECLSID_ScaleWidget | 138 | | | | | | |
| Decorator that provides visual indication that some viewable content may be scrolled | CreateInstanceTest | AEECLSID_ScrollIndicatorWidget | 138 | | | | | | |
| Implementation of IController that can be used by ScrollbarWidget and ScrollIndicatorWidget to handle pointer events provided to the widget by BREW | CreateInstanceTest | AEECLSID_ScrollITC | 138 | | | | | | |
| Decorator object and is typically wrapped around a content based widget to provide visual indications of position and proportion while | CreateInstanceTest | AEECLSID_ScrollbarWidget | 138 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|------|------|-------------|------------|-------|--------------|---------|
| the user navigates over the content | | | | | | | | | |
| Implementation of IController that can be used by SliderWidget to handle pointer events provided to the widget by BREW | CreateInstanceTest | AEECLSID_SliderTC | 138 | | | | | | |
| Provides a means to control a setting over a predetermined range | CreateInstanceTest | AEECLSID_SliderWidget | 138 | | | | | | |
| Implementation of IController that can be used by Softkey Widget to handle pointer events provided to the widget by BREW | CreateInstanceTest | AEECLSID_SoftkeyTC | 138 | | | | | | |
| User interface element that provides software navigation to devices that possess two(or three) hardware buttons directly below the display | CreateInstanceTest | AEECLSID_SoftkeyWidget | 138 | | | | | | |
| User interface element that displays static (i.e. read-only) text on the display | CreateInstanceTest | AEECLSID_StaticWidget | 138 | | | | | | |
| implementation of IController that can be used by TabWidget to handle pointer events provided to the widget by BREW | CreateInstanceTest | AEECLSID_TabTC | 138 | | | | | | |
| Decorator used to simulate the appearance of multiple tabs across an area of content | CreateInstanceTest | AEECLSID_TabWidget | 138 | | | | | | |
| Contains implementation of ITextModel and IRichTextModel interfaces | CreateInstanceTest | AEECLSID_TextModel | 138 | | | | | | |
| User interface element that provides text entry facilities to the widget framework | CreateInstanceTest | AEECLSID_TextWidget | 138 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|--------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|------|------|-------------|------------|-------|--------------|---------|
| User interface element that is, essentially, a decorator that displays a text label above the widget that it wraps | CreateInstanceTest | AEECLSID_TitleWidget | 138 | | | | | | |
| Watches events like EVT_POINTER_DOWN, EVT_POINTER_MOVE and EVT_POINTER_UP, to analyze pointer movements | CreateInstanceTest | AEECLSID_TouchObserver | 138 | | | | | | |
| Fader transition is a transition that applies a visual fade in/out effect to the widget it wraps | CreateInstanceTest | AEECLSID_Transition2_Fader | 138 | | | | | | |
| Mover transition is a transition that animates an object across the display | CreateInstanceTest | AEECLSID_Transition2_Mover | 138 | | | | | | |
| Resizer transition is a transition that modifies the size of an object over time | CreateInstanceTest | AEECLSID_Transition2_Resizer | 138 | | | | | | |
| Scaler transition is a transition that modifies the scale of an object over time | CreateInstanceTest | AEECLSID_Transition2_Scaler | 138 | | | | | | |
| Scroller transition is a transition that sends scroll events to an object over time | CreateInstanceTest | AEECLSID_Transition2_Scroller | 138 | | | | | | |
| Default transition manager implements all the functionality described by the ITransitionMgr interface | CreateInstanceTest | AEECLSID_TransitionMgr | 138 | | | | | | |
| Creates an ITypedListModel interface from a set of function callbacks provided by the caller | CreateInstanceTest | AEECLSID_TypedListModelFactory | 138 | | | | | | |
| Provides interface with the listcontainerwidget | CreateInstanceTest | AEECLSID_TypedValueModel | 138 | | | | | | |
| Inherited from the IModel interface and is used to model data that can be | CreateInstanceTest | AEECLSID_ValueModel | 138 | | | | | | |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|------|------|-------------|------------|-------|--------------|-------------------------------------------------|
| represented in arbitrarily complex forms | | | | | | | | | |
| Used to model a collection of objects that may be of some variable size | CreateInstanceTest | AEECLSID_VectorModel | 138 | | | | | | |
| ViewportTC is an implementation of IController that can be used by a Viewport Widget to handle BREW pointer events | CreateInstanceTest | AEECLSID_ViewportTC | 138 | | | | | | |
| Decorator that provides a visual view into some larger content area with the capability of moving over the content to bring hidden content into view | CreateInstanceTest | AEECLSID_ViewportWidget | 138 | | | | | | |
| The default virtual input manager is an implementation of the IController interface that allows an app to retrieve user data via a virtual keypad | CreateInstanceTest | AEECLSID_VirtualInputMgr | 138 | | | | | | |
| The XY container is derived from the base container object and is used to manage the widgets within a container, where those widgets are positioned within the container at absolute (x, y) locations | CreateInstanceTest | AEECLSID_XYContainer | 138 | | | | | | |
| User interface element that provides text entry facilities to the widget framework | TextWidgetTest | AEECLSID_TextWidget | 6 | | 1 | | | | Qwerty unsupported on device |
| Enables virtual character input for touchscreen | textwidgetaitest_touchchar | AEECLSID_TextWidget | | | | 1 | | | Test not applicable for 10-key flip form factor |
| Enables virtual number input for touchscreen | textwidgetaitest_touchnum | AEECLSID_TextWidget | | | | 1 | | | Test not applicable for |

| Feature | Module | Class | Pass | Fail | Unsupported | Unexecuted | Crash | Known Issues | Comment |
|------------------------------------------------|---------------------------|---------------------|------|------|-------------|------------|-------|--------------|-------------------------------------------------|
| | | | | | | | | | 10-key flip form factor |
| Enables virtual password input for touchscreen | textwidgetaitest_touchpwd | AEECLSID_TextWidget | | | | 1 | | | Test not applicable for 10-key flip form factor |

2.2 Feature Details (All/Failures)

2.2.1 Allows an application to query the meaning of a key combination on extended keypads (AEECLSID_KeysMapping) : keysmappingtest

| Method | Test Case | Result | Issue | Impact | Comment |
|--------|--------------|------------|-------|--------|-------------------------------------------------|
| | TestMappings | Unexecuted | | | Test not applicable for 10-key flip form factor |

2.2.2 Provides services for position determination using GPS information or sector information (AEECLSID_POSDET) : Posdetttest

| Method | Test Case | Result | Issue | Impact | Comment |
|------------------------|----------------------------|-------------|-------|--------|-------------------------------------------|
| IPOSDET_GetOrientation | Posdetttest_GetOrientation | Unsupported | | | Azimuth information unsupported on device |

2.2.3 Provides a generic interface for BREW applications to control a device camera and to record snapshots and movies in various formats (AEECLSID_CAMERA) : CameraTest

| Method | Test Case | Result | Issue | Impact | Comment |
|---------------------|-----------------------------|-------------|-------|--------|---------|
| ICamera_IsMultishot | CameraTests_IsMultishotTest | Unsupported | | | |

| Method | Test Case | Result | Issue | Impact | Comment |
|-------------------|---------------------------|-------------|-------|--------|---------|
| ICamera_IsSupport | CameraTests_IsSupportTest | Unsupported | | | |

2.2.4 Provides API to control, configure and monitor a Brew MP applet's data network (AEECLSID_Network) : NetworkTest_IPv4

| Method | Test Case | Result | Issue | Impact | Comment |
|-------------------------------------------------------------------|------------------------------------|-------------|-------|--------|---------------------------------------------|
| INetwork_AddRetryCB INetwork_SelectNetworkEx INetwork_Start | NetworkTest_IPv4_SelectNetworkEx3 | Unsupported | | | CDMA BCMCS network type is unsupported |
| INetwork_AddRetryCB INetwork_SelectNetworkEx INetwork_Start | NetworkTest_IPv4_SelectNetworkEx4 | Unsupported | | | DVB-H multicast network type is unsupported |
| INetwork_AddRetryCB INetwork_SelectNetworkEx INetwork_Start | NetworkTest_IPv4_SelectNetworkEx5 | Unsupported | | | 3GPP Any network type is unsupported |
| INetwork_AddRetryCB INetwork_SelectNetworkEx INetwork_Start | NetworkTest_IPv4_SelectNetworkEx8 | Unsupported | | | IWLAN 3GPP network type is unsupported |
| INetwork_AddRetryCB INetwork_SelectNetworkEx INetwork_Start | NetworkTest_IPv4_SelectNetworkEx9 | Unsupported | | | IWLAN 3GPP2 network type is unsupported |
| INetwork_AddRetryCB INetwork_SelectNetworkEx INetwork_Start | NetworkTest_IPv4_SelectNetworkEx10 | Unsupported | | | UICC network type is unsupported |
| INetwork_AddRetryCB INetwork_SelectNetworkEx INetwork_Start | NetworkTest_IPv4_SelectNetworkEx11 | Unsupported | | | SLIP network type is unsupported |
| INetwork_AddRetryCB INetwork_SelectNetworkEx INetwork_Start | NetworkTest_IPv4_SelectNetworkEx12 | Unsupported | | | FMC network type is unsupported |

2.2.5 Functions provide mechanisms to get and set the parameters associated with the network subsystem of the device (AEECLSID_NET) : NetMgrTest

| Method | Test Case | Result | Issue | Impact | Comment |
|-------------------|-----------------------|-------------|-------|--------|---------------------------------------|
| INETMGR_SetLinger | NetMgrTest_SetLinger7 | Unsupported | | | Dormant Setlinger time is unsupported |

2.2.6 Provides standard socket networking services, both stream and datagram (AEECLSID_SockPort) : SockPortTest_IPv4

| Method | Test Case | Result | Issue | Impact | Comment |
|----------------------------------------------------------|----------------------------|-------------|-------|--------|-------------------------------------------|
| ISockPort_GetOpt ISockPort_OpenEx | SockPortTest_IPv4_GetOpt7 | Unsupported | | | Error enable socket option is unsupported |
| ISockPort_GetOpt ISockPort_OpenEx | SockPortTest_IPv4_GetOpt8 | Unsupported | | | |
| ISockPort_IOCTL ISockPort_OpenEx | SockPortTest_IPv4_IOCTL1 | Fail | | | Unable to verify due to server issue. |
| ISockPort_GetOpt ISockPort_OpenEx ISockPort_SetOpt | SockPortTest_IPv4_SetOpt15 | Unsupported | | | Error enable socket option is unsupported |

2.2.7 User interface element that provides text entry facilities to the widget framework (AEECLSID_TextWidget) : TextWidgetTest

| Method | Test Case | Result | Issue | Impact | Comment |
|--------------------------------------------------------------------------------------------------|--------------------------|-------------|-------|--------|---------------------------------|
| IWIDGET_HandleEvent IWidget_GetInputMode IWidget_GetTextWidgetText IWidget_SetInputMode | TextWidget_IM_Qwerty_KEY | Unsupported | | | QWERTY is unsupported on device |