



**Brew Level 1 Certification Report**  
Kyocera E4520

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## Section 1 Brew Level 1 Certification Summary

The following report is intended to communicate how well the Kyocera E4520 measured up to the Brew Level 1 requirements when run against the Brew Level 1 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 1 Certification Results

### 2.1 High Level Summary

**Certification Status:** This device is Brew Level 1 Certified

**Failed Brew Level 1 Features:**

None

**Unsupported Brew Level 1 Features:**

Feature	Module	Class
Contact Database Management	AddrBookTest	AEECLSID_ADDRBOOK(0x01002018)
Interact and manage device wallpaper	WallpaperTest	AEECLSID_Wallpaper(0x0106F874)
Asynchronous phone notification and registration	PhoneNotifierTest	AEECLSID_PhoneNotifier(0x01001051)

**Unverified Brew Level 1 Features:**

None

## Feature Summary

Feature	Module	Class	Pass	Fail	Unsupported	Unexecuted	Crash	Known Issues	Comment
Contact Database Management	AddrBookTest	AEECLSID_ADDRBOOK	1		14				Categories unsupported on device
Contact Database Management	AddrBook_AddAItest	AEECLSID_ADDRBOOK			1				Categories unsupported on device
Contact Database Management	AddrBook_SaveAItest	AEECLSID_ADDRBOOK	1						
Database connection factory	DBCFactoryTest	dbc_AEECLSID_Factory	46						
Database Manager	DBMgrTest	AEECLSID_DBMGR	19						
Database	DatabaseTest	AEECLSID_DBMGR	13						
Module resource and information management	ModCollectorAPITest	AEECLSID_ModCollector	14						
Module installation management	ModInstallerAPITest	AEECLSID_ModInstaller2	36						
Backlight display management	BacklightTest	AEECLSID_BACKLIGHT	3						
Backlight display management	Backlight_EnableAItest	AEECLSID_BACKLIGHT	1						
Image handling for the JPEG mime type	ImageControlTest_JPEG	AEECLSID_JPEG	49						
Image handling for the PNG mime type	ImageControlTest_PNG	AEECLSID_PNG	65						
Image decoding and handling for the WINBMP mime type	ImageControlTest_WINBMP	AEECLSID_WINBMP	49						
Image decoding and handling for the JPEG mime type	ImageDecoderTest_JPEG	AEECLSID_JPEGDecoder	49						

Feature	Module	Class	Pass	Fail	Unsupported	Unexecuted	Crash	Known Issues	Comment
Image decoding and handling for the PNG mime type	ImageDecoderTest_PNG	AEECLSID_PNGDecoder	65						
Media playback for the AAC mime type	media_play_aacaitest	AEECLSID_MediaAAC	1						
Media playback for the MIDI mime type	media_play_midiaitest	AEECLSID_MediaMIDI	1						
Media playback for the MP3 mime type	media_play_mp3aitest	AEECLSID_MediaMP3	1						
Media playback for the QCP mime type	media_play_qcpaitest	AEECLSID_MediaQCP	1						
Media playback for the AAC mime type with a minimum encoding of 384 Kbps @ 48Khz	mediaaac_playbacktest	AEECLSID_MediaAAC	18						
Media playback for the MIDI protocol with a minimum encoding of 128 voices, 512Kb wavetable	mediamidi_playbacktest	AEECLSID_MediaMIDI	18						
Media playback for the MP3 mime type	mediamp3_playbacktest	AEECLSID_MediaMP3	18						
Media playback for the QCP mime type	mediaqcp_playbacktest	AEECLSID_MediaQCP	18						
Media playback for the QCP mime type across MIDI protocol	mediaqcpoutmidi_playbacktest	AEECLSID_MediaMIDIOUTQCP	10						

Feature	Module	Class	Pass	Fail	Unsupported	Unexecuted	Crash	Known Issues	Comment
Basic sound playback of beeps, rings, tones and vibrations	sound_basictests	AAECLSID_SOUND	27						
Basic sound playback with stereo headset device	sound_propsstereohs	AAECLSID_SOUND	27						
Set speaker to Bluetooth headset	sound_setbtheadsetAITest	AAECLSID_SOUND	1						
Set speaker to Bluetooth stereo headset	sound_setbtstereoheadsetAITest	AAECLSID_SOUND	1						
Calls ISound_SetDevice for current AI test	sound_setcurrentAITest	AAECLSID_SOUND	1						
Tests for SetDeviceCurrent sound APIs	sound_setcurrenttests	AAECLSID_SOUND	24						
Set speaker to handset	sound_sethandsetAITest	AAECLSID_SOUND	1						
Set speaker to handset	sound_sethandsettests	AAECLSID_SOUND	24						
Set speaker to headset	sound_setheadsetAITest	AAECLSID_SOUND	1						
Set speaker to handset speaker	sound_setspeakerAITest	AAECLSID_SOUND	1						
Set speaker to device speaker	sound_setspeakertests	AAECLSID_SOUND	24						
Set speaker to stereo headset	sound_setstereoheadsetAITest	AAECLSID_SOUND	1						
Set playback volume	sound_setvolumeAITest	AAECLSID_SOUND	1						
Basic Midi sound player	soundplayer_midi	AAECLSID_SOUNDPLAYER	17						
Basic MP3 sound player	soundplayer_mp3	AAECLSID_SOUNDPLAYER	15						
Basic MIDI sound player	soundplayer_propsMidi	AAECLSID_SOUNDPLAYER	22						



Feature	Module	Class	Pass	Fail	Unsupported	Unexecuted	Crash	Known Issues	Comment
Basic MP3 sound player	soundplayer_propsm3	AEECLSID_SOUNDPLAYER	22						
Basic QCP sound player	soundplayer_propsqcp	AEECLSID_SOUNDPLAYER	21						
Basic MIDI sound player with stereo headset	soundplayer_propsstereohs	AEECLSID_SOUNDPLAYER	12						
Basic QCP sound player	soundplayer_qcp	AEECLSID_SOUNDPLAYER	5						
Web - HTTP Operations	WebTest	AEECLSID_Web	36						
Common web utilities	WebUtilTest	AEECLSID_WebUtil	13						
Web Service configuration management	Web_WebOptsTest	AEECLSID_xOpts	33						
Shell operations providing UI based functions	ShellBrowseUrlAITest_Http	AEECLSID_SHELL	1						
Shell operations providing UI based functions	ShellBrowseUrlAITest_Https	AEECLSID_SHELL	1						
Shell operation used to launch device web browser	ShellBrowseUrlAITest_Tel	AEECLSID_SHELL	1						
Tests basic shell services which include alarms, timers, application management, device and application configuration, and notifications	ShellTest	AEECLSID_SHELL	55						
Shell operations providing UI based functions	ShellUITest	AEECLSID_SHELL	13						
File system management for	FileMgrTest	AEECLSID_FileMgr	43						

Feature	Module	Class	Pass	Fail	Unsupported	Unexecuted	Crash	Known Issues	Comment
both the EFS and the MMC file systems									
Bidirectional data stream file access enablement	FilePort1Test	AEECLSID_FileSystem2	31						
File system access enablement	FileSystem2Test	AEECLSID_FileSystem2	44						
File system management for both the EFS and the MMC file systems	FileTest	AEECLSID_FileMgr	17						
Heap memory management	HeapTest	AEECLSID_HEAP	23						
Data streaming services from a memory block	MemAStreamTest	AEECLSID_MEMASTREAM	7						
Thread management APIs	ThreadTest	AEECLSID_THREAD	15						
Extend the IStream interface with decompression feature	UnzipAStreamTest	AEECLSID_UNZIPSTREAM	8						
Interact with Ringer Manager	RingerMgr_CreateAITest	AEECLSID_RINGERMGR	1						
Interact with Ringer Manager	RingerMgr_SetRingerAITest	AEECLSID_RINGERMGR	1						
Utilities for constructing common sources from memory buffers	SourceUtilTest	AEECLSID_SourceUtil	17						
Ringer Management	ringermgrtest	AEECLSID_RINGERMGR	71						
Interact and manage device wallpaper	WallpaperAITest_BMP	AEECLSID_Wallpaper	1						

Feature	Module	Class	Pass	Fail	Unsupported	Unexecuted	Crash	Known Issues	Comment
Interact and manage device wallpaper	WallpaperAITest_JPEG	AEECLSID_Wallpaper	1						
Interact and manage device wallpaper	WallpaperAITest_PNG	AEECLSID_Wallpaper	1						
Interact and manage device wallpaper	WallpaperTest	AEECLSID_Wallpaper	25		2				
Interact and manage device wallpaper	Wallpaper_InstalledAITest	AEECLSID_Wallpaper	1						
Send and receive SMS messages with Default encoding	smstest_sr_default	AEECLSID_SMS	6						
Asynchronous phone notification and registration	PhoneNotifierTest	AEECLSID_PhoneNotifier	6		1				
Simple interface for telephony layer	Tapi1Test	AEECLSID_TAPI	24						
Services for read access to phone state and information	TelephoneTest	AEECLSID_Telephone	11						
Services for managing the phone resources	callmgrtest	AEECLSID_CallMgr	18						
Provides interface for text input to be processed by the device with 10-key support	TextCtl_10_Test	AEECLSID_TextCtl_10	35						
Text entry through device keys or touch screen	TextCtl_EnterPasswordAITest	AEECLSID_TEXTCTL	1						
Text entry through device keys or touch screen	TextCtl_IM_10Key_LET_AITest	AEECLSID_TEXTCTL	1						

Feature	Module	Class	Pass	Fail	Unsupported	Unexecuted	Crash	Known Issues	Comment
Text entry through device keys or touch screen	TextCtl_IM_10Key_NUM_AITest	AEECLSID_TEXTCTL	1						
Text entry through device keys or touch screen	TextCtl_IM_10Key_SYM_AITest	AEECLSID_TEXTCTL	1						
Text entry through device keys or touch screen	TextCtl_IM_Qwerty_EXT_AITest	AEECLSID_TEXTCTL				1			Test not applicable for 10-key flip form factor
Text entry through device keys or touch screen	TextCtl_IM_Qwerty_NUM_AITest	AEECLSID_TEXTCTL				1			Test not applicable for 10-key flip form factor
Text entry through device keys or touch screen	TextCtl_IM_Touch_EXT_AITest	AEECLSID_TEXTCTL				1			Test not applicable for 10-key flip form factor
Text entry through device keys or touch screen	TextCtl_IM_Touch_NUM_AITest	AEECLSID_TEXTCTL				1			Test not applicable for 10-key flip form factor
Provides interface for text input to be processed by the device	TextCtl_Test	AEECLSID_TEXTCTL	35						
Display information services	DisplayTest	AEECLSID_Display	73						
A standard Brew MP font with Ascent = 13, Descent = 3, bolded	FontStandard11BTest	AEECLSID_FONT_STANDARD11B	1						
A standard Brew MP font with Ascent = 13, Descent = 3	FontStandard11Test	AEECLSID_FONT_STANDARD11	1						
A standard Brew MP font with	FontStandard15BTest	AEECLSID_FONT_STANDARD15B	1						

Feature	Module	Class	Pass	Fail	Unsupported	Unexecuted	Crash	Known Issues	Comment
Ascent = 15, Descent = 3, bolded									
A standard Brew MP font with Ascent = 15, Descent = 3	FontStandard15Test	AEECLSID_FONT_STANDARD15	1						
A standard Brew MP font with Ascent = 17, Descent = 3, bolded	FontStandard18BTest	AEECLSID_FONT_STANDARD18B	1						
A standard Brew MP font with Ascent = 17, Descent = 3	FontStandard18Test	AEECLSID_FONT_STANDARD18	1						
A standard Brew MP font with Ascent = 21, Descent = 3, bolded	FontStandard23BTest	AEECLSID_FONT_STANDARD23B	1						
A standard Brew MP font with Ascent = 21, Descent = 3	FontStandard23Test	AEECLSID_FONT_STANDARD23	1						
A standard Brew MP font with Ascent = 23, Descent = 3, bolded	FontStandard26BTest	AEECLSID_FONT_STANDARD26B	1						
A standard Brew MP font with Ascent = 23, Descent = 3	FontStandard26Test	AEECLSID_FONT_STANDARD26	1						
A standard Brew MP font with Ascent = 28, Descent = 3	FontStandard36Test	AEECLSID_FONT_STANDARD36	1						
A system font, bolded	FontSysBoldTest	AEECLSID_FONTSYSBOLD	1						

Feature	Module	Class	Pass	Fail	Unsupported	Unexecuted	Crash	Known Issues	Comment
A large system font	FontSysLargeTest	AEECLSID_FONTSYSLARGE	1						
A system font	FontSysNormalTest	AEECLSID_FONTSYSNORMAL	1						
Bilinear image scaling	BilinearScaleTest	AEECLSID_BilinearScale	53						
2-Dimensional graphics services	GraphicsTest	AEECLSID_GRAPHICS	45						

## 2.2 Feature Details (All/Failures)

### 2.2.1 Interact and manage device wallpaper (AEECLSID\_Wallpaper) : WallpaperTest

Method	Test Case	Result	Issue	Impact	Comment
ISettings_Get	WallpaperTest_ValidateDisplayOrientInd	Unsupported		None	Orientation Index for display returns unsupported
IWallpaper_ActivateType	WallpaperTest_ActivateWallpaper	Unsupported			
IWallpaper_GetActiveType					
IWallpaper_OnActiveWallpaperChange					

### 2.2.2 Asynchronous phone notification and registration (AEECLSID\_PhoneNotifier) : PhoneNotifierTest

Method	Test Case	Result	Issue	Impact	Comment
AEECLSID_PHONENOTIFIER	PhoneNotifierTest_PhNVRIUMConfigEvtChk	Unsupported			